UNDERGROUND INJECTION CONTROL

AREA PERMIT REAPPLICATION

FOR

GROUND RESOURCES, LLC

UIC PERMIT No. 2R08700008AP

TARIFF FIELD

Volume 4 of 4

Non-Injector Well Data

Ground Resources, LLC
Tariff Field
Permit No. 2R08700008AP

1/4 Mile AOR
Non-Injector Well Logs

0444

"Pipeline"

Select County: (087) Roane
Enter Permit #: 444
Get Data | Reset

Select datatypes: (Check All)
Location | Production | Plugging
Owner/Completion | Stratigraphy | Sample
Pay/Show/Water | Logs | Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 444

Report Time: Thursday, May 14, 2020 11:30:14 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708700444	Roane	444	Smithfield	Tariff	Otter	38.655256	-81.213999	481379.9	4278542.9

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708700444	4/-/1944	Original Loc	Completed	W M Loone	27					South Penn Oil (S. Penn Nat. Gas)			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_A
4708700444	4/-/1944	-/-/-	902	Ground Level	Tariff (Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	unknown	Shot	1936		1936		0	0	0	12			0	0	0	

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708700444	4/-/1944	Water	Salt Water	Vertical			1530						1
4708700444	4/-/1944	Water	Salt Water	Vertical			1540						0
4708700444	4/-/1944	Water	Salt Water	Vertical			1675						0
4708700444	4/-/1944	Pay	Oil	Vertical			1936	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708700444	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4708700444	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708700444	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708700444	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708700444	Pennzoil Products Company	1989	80	9	2	3	2	7	7	12	9	11	2	7	9
4708700444	Pennzoil Products Company	1990	82	7	5	9	7	8	7	9	3	4	4	8	11
4708700444	Pennzoil Products Company	1991	294	6	9	9	9	7	7	35	42	34	37	43	56
4708700444	Pennzoil Products Company	1992	592	69	50	56	48	51	44	56	37	49	46	47	39
4708700444	Pennzoil Products Company	1993	364	36	24	39	29	31	36	34	20	34	30	25	26
4708700444	Pennzoil Products Company	1994	349	28	21	15	18	22	23	57	28	40	34	30	33
4708700444	Pennzoil Products Company	1995	348	9	31	15	15	33	24	44	28	34	37	31	47
4708700444	Pennzoil Products Company	1996	221	11	9	33	14	24	10	15	17	15	33	21	19
4708700444	Pennzoil Products Company	1997	80	18	17	8	13	12	10	0	0	0	1	0	1
4708700444	Pennzoil Products Company	1998	287	0	0	20	34	36	40	41	35	37	44	0	0
4708700444	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708700444	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708700444	Triad Resources, Inc.	2004	88	6	5	8	9	9	11	8	9	11	8	4	0
4708700444	Triad Resources, Inc.	2005	111	10	6	12	3	3	8	9	13	11	13	13	10
4708700444	Triad Resources, Inc.	2006	102	11	8	7	7	9	8	9	9	8	9	9	8
4708700444	Triad Resources, Inc.	2007	66	9	8	7	5	2	2	6	7	7	4	5	4
4708700444	Triad Resources, Inc.	2008	79	5	5	4	4	4	5	5	4	7	9	12	15
4708700444	Triad Resources, Inc.	2009	36	9	4	3	3	5	6	3	0	0	1	1	1
4708700444	Triad Hunter LLC	2010	40	6	2	3	3	4	5	5	4	3	3	2	0
4708700444	Triad Hunter LLC	2011	12	1	1	1	1	0	4	1	1	1	1	0	0
4708700444	Triad Hunter LLC	2012	15	1	1	1	2	2	2	1	2	2	1	0	0
4708700444	Triad Hunter LLC	2013	12	1	1	1	1	1	1	1	1	1	1	1	1
4708700444	Triad Hunter LLC	2014	8	1	1	1	0	1	0	1	0	1	1	1	0
4708700444	Triad Hunter LLC	2015	6	0	0	0	1	3	1	1	0	0	0	0	0
4708700444	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708700444	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708700444	Ground Resources, LLC	2018	249	0	0	44	0	28	23	0	25	33	36	32	28

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708700444	Pennzoil Company	1981	101	0	0	0	0	0	0	0	0	0	0	0	0
4708700444	Pennzoil Company	1982	248	0	0	0	0	0	0	0	0	0	0	0	0
4708700444	Pennzoil Company	1983	438	0	0	0	0	0	0	0	0	0	0	0	0
4708700444	Pennzoil Company	1984	1,013	0	0	0	0	0	0	0	0	0	0	0	0
4708700444	Pennzoil Products Company	1989	257	9	25	26	22	26	24	24	6	22	24	24	25
4708700444	Pennzoil Products Company	1990	246	27	24	26	25	26	7	8	10	22	27	17	27
4708700444	Pennzoil Products Company	1991	1,022	26	26	22	22	95	103	88	102	115	143	160	120
4708700444	Pennzoil Products Company	1992	1,432	126	117	126	103	125	95	123	116	136	134	123	108
4708700444	Pennzoil Products Company	1993	1,272	120	143	130	126	95	97	99	98	77	97	98	92
4708700444	Pennzoil Products Company	1994	1,330	73	61	78	73	185	97	146	118	97	113	136	153
4708700444	Pennzoil Products Company	1995	1,539	135	120	147	100	197	115	134	140	116	152	77	106
4708700444	Pennzoil Products Company	1996	1,307	318	81	116	36	38	50	54	147	92	86	158	131
4708700444	Pennzoil Products Company	1997	604	89	153	173	134	55	0	0	0	0	0	0	0
4708700444	Pennzoil Products Company	1998	1,299	113	132	152	129	115	114	126	145	128	145	0	0
4708700444	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708700444	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708700444	Triad Resources, Inc.	2004	329	31	31	31	31	30	30	22	28	24	23	21	27
4708700444	Triad Resources, Inc.	2005	136	12	8	9	11	9	14	11	11	12	16	13	10

4708700444	Triad Resources, Inc.	2006	140	8	11	12	14	8	9	12	11	15	11	13	16
4708700444	Triad Resources, Inc.	2007	162	13	16	10	18	13	15	13	14	12	13	12	13
4708700444	Triad Resources, Inc.	2008	166	13	17	9	16	11	8	14	14	19	17	11	17
4708700444	Triad Resources, Inc.	2009	108	4	0	10	15	13	10	9	9	8	12	10	8
4708700444	Triad Hunter LLC	2010	55	11	2	9	2	2	10	2	2	11	2	2	0
4708700444	Triad Hunter LLC	2011	109	8	11	9	8	9	9	9	9	9	10	11	7
4708700444	Triad Hunter LLC	2012	93	5	7	6	5	8	11	4	12	9	9	7	10
4708700444	Triad Hunter LLC	2013	97	9	9	11	7	9	10	5	8	6	6	8	9
4708700444	Triad Hunter LLC	2014	91	7	6	8	8	8	7	6	9	8	7	8	9
4708700444	Triad Hunter LLC	2015	75	8	5	3	8	6	8	6	3	7	5	11	5
4708700444	Triad Hunter LLC	2016	216					33	22	24	33	23	33	26	22
4708700444	Ground Resources, LLC	2017	326	32	18	31	31	25	27	30	22	25	35	28	22
4708700444	Ground Resources, LLC	2018	312	20	23	22	29	28	29	21	23	21	37	31	28

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil [illegible] Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708700444	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708700444	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708700444	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708700444	Triad Hunter LLC	2016	0												
4708700444	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708700444	Triad Hunter LLC	2016	0												
4708700444	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

There is no Stratigraphy data for this well

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708700444	0	1940		G,C,*	Y	N	6	1940											0	1934	N	Y	N						

Comment: *logs: CCL, caliper

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708700444gco.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron–SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL–casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL–Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

Sample Information:

API	CUT1_TOP	CUT1_BOT	CUT2_TOP	CUT2_BOT	CORE1_TOP	CORE1_BOT	FM1_TOP	FM1_BOT	CORE2_TOP	CORE2_BOT	FM2_TOP	FM2_BOT	SMPL	THN_SEC1	SCAN1	SLAB1	PERM1	THN_SEC2	SCAN2	SLAB2	PERM2
4708700444	1815	1936																			

OG-10

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Permit No. ROA-444

Oil or Gas Well OIL (KIND)

Company South Penn Natural Gas Company
Address Union Trust Bldg. Parkersburg, W.Va.
Farm W. M. Looney Acres 480
Location (waters) Henrys Fork
Well No. 27 Elev. 901.81
District Smithfield County Roane
The surface of tract is owned in fee by Walter Elmore
Address Tariff, W.Va.
Mineral rights are owned by W. M. Looney et al.
Address Spencer, W.Va.
Drilling commenced March 3, 1944
Drilling completed April 25, 1944
Date Shot 5-4-44 From 1914 To 1936
With 40 Qts. "Bomb"
Open Flow 8/10ths Water in 3/4" Orf.
/10ths Merc. in ----
Volume 11 M.C.F. Cu. Ft.
Rock Pressure - lbs. - hrs.
Oil 33 Bbl.pr.wk.when tubed. bbls., 1st 24 hrs.
Fresh water -- feet -- feet
Salt water 1530-1540 feet 1675-1680 feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer -
12			-
10	161' (Pulled)		Size of -
8¼	610' (Pulled)		-
6⅝ 7"OD	1833		Depth set -
5 3/16			-
4			Perf. top -
2			Perf. bottom -
Liners Used			Perf. top -
Cond.	14'		Perf. bottom -

CASING CEMENTED - SIZE - No. Ft. - Date

COAL WAS ENCOUNTERED AT - FEET - INCHES
- FEET - INCHES - FEET - INCHES
- FEET - INCHES - FEET - INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Clay & Sand			0	30			
Blue Slate			30	50			
Red Rock			50	70			
White Slate			70	145			
Red Rock			145	255			
Blue Slate			255	265			
Sand			265	270			
Red Rock			270	320			
Lime Shell			320	340			
Sand			340	360			
Blue Slate			360	384			
Red Rock			384	418			
Blue Slate			418	430			
Red Rock			430	440			
Blue Slate			440	460			
Sand			460	475			
Blue Slate			475	480			
L.Dunkard			480	500			
Pink Rock			500	506			
Sand			506	540			
Slate & Shells			540	565			
Big Dunkard			565	720			
Slate			720	768			
Sand			768	835			
Slate & Shells			835	860			
Sand			860	988			
Slate			988	1195			
Sand			1195	1250			
Slate			1250	1290			
Sand			1290	1312			
Slate			1312	1365			
Salt Sand			1365	1392			
Slate			1392	1405			
Salt Sand			1405	1560			

JUN 1944 WEST VIRGINIA DEPARTMENT OF MINES

(Over)

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Cont'd.							
					Water	1530	blr. pr. hr.
					Water	1540	Hole full
Lime Shells			1560	1594			
Slate			1594	1638			
Salt Sand			1638	1680			
					Water	1675-1680	
Lime Shells			1680	1695			
Maxon Sand			1695	1732			
Slate			1732	1736			
Little Lime			1736	1786			
Pencil Cave			1786	1801			
Big Lime			1801	1898			
Big Injun			1898	1936			
					Oil & Gas	1936	
Total Depth				1936			
		Gas Test Natl.:		4.0 W. 1/4" Orf. 3 M.C.F.			
		Oil Test Natl.:		1- bbl. per day.			
		Well made 95 bbl. oil while cleaning out before tubed. Well tubed 5-26-44. 1st Week, 33-bbl. 2nd Week, 33-bbl.					

Date June 13, 1944. 194

APPROVED SOUTH PENN NATURAL GAS COMPANY Owner

By [signature] Land Agent.

(Title)

0444

Well No. 27 W.H. Loofley Farm ... Acres ...
Lease No. 60180 Salt Field Township District Reese County H.C. State ...
C.H. Carter Rig Contractor Lenoxa Drilling Co. Bit Contractor ...
Drilling Commenced Mar. 1944 Drilling Completed Apr. 6 1944
N. ... S. ... E. ... W. ... Elevation ...

Rock Formation	Top	Bottom	Steel Line Measurement	Remarks
Conductor		14		
Big Sand	0	30		
Blue Slate	30	50		
Red Rock	50	70		
White Slate	70	145		
Red Rock	145	255		
10" Casing		161		
Blue Slate	255	265		
Sand	265	270		
Red Rock	270	320		
Lime Shell	320	340		
Sand	340	360		
Blue Slate	360	384		
Red Rock	384	415		
Blue Slate	415	430		
Red Rock	430	440		
Blue Slate	440	460		
Sand	460	475		
Blue Slate	475	450		
L. Dunkard	450	500		
Pink Rock	500	506		
Sand	506	540		

CASING RECORD AS TALLIED. NOT STEEL LINE MEASUREMENT.

	Put in Well		Pulled Out		Left in Well	
Size	Feet	In.	Feet	In.	Feet	In.

Shot Date ...
Amount ...
Sand ...
Result ...
Packer Size ...
Depth Set ...

Production First 24 Hours ... Bbls. Gas Test ...

Lease No. Township District Contractor County State Contractor
Drilling Commenced 19 Drilling Completed 19
N. S. E. W. Elevation

Rock Formation	Top	Bottom	Steel Line Measurement	Remarks
Slate & Shells	540	565		
Big Dunkard	565	720		
8¼" Casing		605	605	
Slate	720	768		
Sand	768	835		
Slate & Shells	835	860		
Sand	860	955		
Slate	955	1195		
Sand	1195	1250		
Slate	1250	1290		
Sand	1290	1312		
Slate	1312	1365		
Salt Sand	1365	1392		
Slate	1392	1405		
Salt Sand	1405	1560		
WATER	1530			1/2 Bailer per Hr.
WATER	1540			Hole Full
Lime Shells	1560	1594		
Slate	1594	1638		
Salt Sand	1638	1650		
WATER	1675	1680		
Lime Shells	1680	1695		

Gas Tested [illegible]

CASING RECORD AS TALLIED. NOT STEEL LINE MEASUREMENT.

	Put in Well		Pulled Out		Left in Well	
Size	Feet	In.	Feet	In.	Feet	In.

Shot Date ...
Amount ...
Sand ...
Result ...
Packer Size ...
Depth Set ...

Production First 24 Hours ... Bbls. Gas Test ...

0444

Well No. 21 W. M. Looney Farm 410 Acres
Lease No. 60218 - Spiritfield Township District Roane County W. Va. State
C. W. Carder Rig Contractor Lawrence Drilling Co. Drlg Contractor
Drilling Commenced Mar. 3 1944 Drilling Completed Apr. 25 1944
N. S. 34 E. W. 35 Elevation Ground 901.51

Rock Formation	Top	Bottom	Steel Line Measurement	Remarks
Maxton	1695	1732		
Slate	1732	1736		
Little Lime	1736	1786		
Pencil Cave	1786	1801		
Big Lime	1801	1898	1898	
7" OD Casing		1815	1815	
Big Injun	1898	1936		38
Oil & Gas	1914	1936		22'
Total Depth		1936		Well made 95 bbl. oil wk while cleaning out before tubed. Well tubed 5-26-44 Well pumped: 1st wk 33 bbl 2nd wk 33 bbl

CASING RECORD AS TALLIED. NOT STEEL LINE MEASUREMENT.

	Put in Well		Pulled Out		Left in Well	
Size	Feet	In.	Feet	In.	Feet	In.
10"	161		161			
8 1/4	610		610			
7" OD	1833					

Shot Date May 4 1944
Amount 40 Quarts "Bomb"
Sand 1914 - 1936 Ft.
Result Increased oil to 33 Bbl. per wk. - Increased Gas from 3 MCF to 11 MCF
Packer Size
Depth Set

Production First 24 Hours 33 Bbls. Gas Test 5 W. 3/8" Oil 11 M.C.F.
Approved by W. K. McCray

0702

"Pipeline"

Select County: (087) Roane
Enter Permit #: 702
Get Data | Reset

Select datatypes: (Check All)
Location | Production | Plugging
Owner/Completion | Stratigraphy | Sample
Pay/Show/Water | Logs | Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 87 Permit = 702

Report Time: Thursday, May 14, 2020 11:32:46 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_7.5	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708700702	Roane	702	Smithfield	Tariff	Otter	38.655107	-81.212108	481544.4	4278525.9

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708700702	10/-/1956	Original Loc	Completed	W M Loony	29					South Penn Oil / S. Penn Nat. Gas			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_
4708700702	10/-/1956	-/-/-	1183	Ground Level	Amme-Lnwd-Nwtn	Price Fm & equivs	Price Fm & equivs	Development Well	Unsuccessful	Dry w/ Gas Show	unknown	Shot	2222		2222		0	0	0	0			0	0	0	

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708700702	10/-/1956	Water	Unknown Water	Vertical			1810						0

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708700702	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4708700702	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708700702	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708700702	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708700702	Pennzoil Products Company	1989	1,538	120	83	130	82	89	107	180	120	170	131	142	184
4708700702	Pennzoil Products Company	1990	1,582	128	100	123	39	121	138	158	111	201	139	159	165
4708700702	Pennzoil Products Company	1991	1,302	145	157	136	82	139	95	132	172	99	41	32	72
4708700702	Pennzoil Products Company	1992	899	81	56	74	68	70	89	88	83	94	73	70	53
4708700702	Pennzoil Products Company	1993	360	7	35	33	19	37	36	39	22	30	30	49	23
4708700702	Pennzoil Products Company	1994	271	36	30	23	19	14	38	15	16	18	17	34	11
4708700702	Pennzoil Products Company	1995	114	2	10	6	3	14	7	14	12	13	11	10	12
4708700702	Pennzoil Products Company	1996	123	6	5	5	9	8	20	0	19	16	13	12	10
4708700702	Pennzoil Products Company	1997	29	7	5	4	4	4	3	0	0	0	1	0	1
4708700702	Pennzoil Products Company	1998	55	0	0	6	10	10	1	8	10	0	10	0	0
4708700702	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708700702	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708700702	Triad Resources, Inc.	2004	88	6	5	8	9	9	11	8	9	11	8	4	0
4708700702	Triad Resources, Inc.	2005	101	9	5	12	2	3	7	8	12	10	12	12	9
4708700702	Triad Resources, Inc.	2006	93	10	7	7	6	8	8	8	8	8	8	8	7
4708700702	Triad Resources, Inc.	2007	62	8	7	7	5	2	2	6	6	6	4	5	4
4708700702	Triad Resources, Inc.	2008	72	5	4	4	4	3	5	4	3	7	8	11	14
4708700702	Triad Resources, Inc.	2009	33	8	3	3	3	5	5	3	0	0	1	1	1
4708700702	Triad Hunter LLC	2010	40	6	2	3	3	4	5	5	4	3	3	2	0
4708700702	Triad Hunter LLC	2011	11	1	1	1	1	0	3	1	1	1	1	0	0
4708700702	Triad Hunter LLC	2012	15	1	1	1	2	2	2	1	2	2	1	0	0
4708700702	Triad Hunter LLC	2013	12	1	1	1	1	1	1	1	1	1	1	1	1
4708700702	Triad Hunter LLC	2014	8	1	1	1	0	1	0	1	0	1	1	1	0
4708700702	Triad Hunter LLC	2015	6	0	0	0	1	3	1	1	0	0	0	0	0
4708700702	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708700702	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708700702	Ground Resources, LLC	2018	44	0	0	44	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708700702	Pennzoil Company	1981	101	0	0	0	0	0	0	0	0	0	0	0	0
4708700702	Pennzoil Company	1982	248	0	0	0	0	0	0	0	0	0	0	0	0
4708700702	Pennzoil Company	1983	438	0	0	0	0	0	0	0	0	0	0	0	0
4708700702	Pennzoil Company	1984	1,013	0	0	0	0	0	0	0	0	0	0	0	0
4708700702	Pennzoil Products Company	1989	4,675	378	310	354	351	379	326	369	386	428	432	444	518
4708700702	Pennzoil Products Company	1990	4,764	373	129	414	476	458	357	477	402	418	405	389	466
4708700702	Pennzoil Products Company	1991	3,155	399	243	447	327	360	418	257	111	87	182	189	135
4708700702	Pennzoil Products Company	1992	2,101	168	164	172	206	194	211	236	186	203	182	23	156
4708700702	Pennzoil Products Company	1993	1,368	104	96	154	124	107	106	88	100	149	84	125	131
4708700702	Pennzoil Products Company	1994	792	108	66	47	117	48	53	65	58	110	37	36	47
4708700702	Pennzoil Products Company	1995	544	58	23	63	29	61	49	51	43	37	40	38	52
4708700702	Pennzoil Products Company	1996	575	47	52	41	70	0	54	59	57	50	44	61	40
4708700702	Pennzoil Products Company	1997	198	41	51	51	39	16	0	0	0	0	0	0	0
4708700702	Pennzoil Products Company	1998	274	33	38	44	2	23	32	0	34	37	31	0	0
4708700702	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708700702	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708700702	Triad Resources, Inc.	2004	329	31	31	31	31	30	30	22	28	24	23	21	27
4708700702	Triad Resources, Inc.	2005	136	12	8	9	11	9	14	11	11	12	16	13	10
4708700702	Triad Resources, Inc.	2006	140	8	11	12	14	8	9	12	11	15	11	13	16
4708700702	Triad Resources, Inc.	2007	162	13	16	10	18	13	15	13	14	12	13	12	13
4708700702	Triad Resources, Inc.	2008	166	13	17	9	16	11	8	14	14	19	17	11	17

4708700702	Triad Resources, Inc.	2009	108	4	0	10	15	13	10	9	9	8	12	10	8
4708700702	Triad Hunter LLC	2010	55	11	2	9	2	2	10	2	2	11	2	2	0
4708700702	Triad Hunter LLC	2011	109	8	11	9	8	9	9	9	9	9	10	11	7
4708700702	Triad Hunter LLC	2012	93	5	7	6	5	8	11	4	12	9	9	7	10
4708700702	Triad Hunter LLC	2013	97	9	9	11	7	9	10	5	8	6	6	8	9
4708700702	Triad Hunter LLC	2014	91	7	6	8	8	8	7	6	9	8	7	8	9
4708700702	Triad Hunter LLC	2015	75	8	5	3	8	6	8	6	3	7	5	11	5
4708700702	Triad Hunter LLC	2016	0												
4708700702	Ground Resources, LLC	2017	0												
4708700702	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708700702	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708700702	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708700702	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708700702	Triad Hunter LLC	2016	0												
4708700702	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708700702	Triad Hunter LLC	2016	0												
4708700702	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

There is no Stratigraphy data for this well

There is no Wireline (E-Log) data for this well

There is no Plugging data for this well

There is no Sample data for this well

0702

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 13

Otter

WELL RECORD

Permit No. ROA-702 | Oil or Gas Well Gas (KIND)

Company SOUTH PENN NATURAL GAS COMPANY
Address P. O. Box 1280, Parkersburg, W. Va.
Farm W. H. Looney Acres 480
Location (waters) Trace Fork
Well No. 29 Elev. 1183.08
District Smithfield County Roane
The surface of tract is owned in fee by O. D. Epling
Address Left Hand, W. Va.
Mineral rights are owned by I. D. Looney, et al.
Address Amma, W. Va.
Drilling commenced September 13, 1956
Drilling completed October 24, 1956
Date Shot 11-28-56 From 2196' To 2216'
With 60 Qts.
Open Flow 20 /10ths Water in 1/2" Disc. Inch
/10ths Merc. in Inch
Volume 8,181 Cu. Ft.
Rock Pressure 122 lbs. 20 Days hrs.
Oil Filled up 110' - 16 hours bbls., 1st 24 hrs.
Fresh water 1810 feet feet
Salt water feet feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13			
10	354'	None	Size of
8¼	881'	456'-9"	
~~X~~ 7"	2108' Cemented		Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED ____ SIZE ____ No. Ft. ____ Date

COAL WAS ENCOUNTERED AT NONE FEET ____ INCHES
____ FEET ____ INCHES ____ FEET ____ INCHES
____ FEET ____ INCHES ____ FEET ____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Clay			0	5			
Sand Rock			5	26			
Conductor				16			
Red Rock			26	50			
Blue Rock			50	105			
Red Rock			105	120			
Blue Rock			120	146			
Red Rock			146	156			
Blue Slate			156	224			
Red Rock			224	230			
Blue Rock			230	270			
Sand			270	290			
Slate			290	308			
Red Rock			308	318			
Slate			318	420			
Red Rock			420	595			
Slate & Shells			595	620			
Red Rock			620	630			
Gritty Lime			630	650			
Red Rock			650	698			
Slate & Shells			698	710			
Red Rock			710	725			
Slate & Shells			725	760			
Little Dunkard			760	780			
Lime			780	800			
Pink Rock			800	805			
Big Dunkard			805	960			
Slate & Shells			960	980			
Sand			980	1000			
Slate			1000	1040			
Sand			1040	1250			
Slate			1250	1265			
Sand			1265	1290			
Slate			1290	1305			
Sand			1305	1359			
Slate			1359	1370			
Sand			1370	1490			

(CONTINUED ON OTHER SIDE)

DEC 1956
RECEIVED
WEST VIRGINIA
DEPT. OF MINES

0702

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
		(CONTINUED FROM OTHER SIDE)					
Slate & Shell			1490	1595			
Sand			1595	1630			
Slate & Shell			1630	1665			
Salt Sand			1665	1943			
					Water	1810	Hole Full
Sand			1943	1965			
Lime			1965	1985			
Sandy Lime			1985	1998			
Maxton Sand			1998	2027			
Little Lime			2027	2058			
Pencil Cave			2070	2082			
Big Lime			2082	2180			
7" Casing				2091			
					Show Gas	2118	
Big Injun			2180	2220			
					Gas & Oil	2196-2208	
					Oil	2208-2220	
Slate			2220	2222			
TOTAL DEPTH				2222			

Date December 20, 19 56

APPROVED SOUTH PENN NATURAL GAS COMPANY Owner

By George W. Wilsman

(Title)

George W. Wilsman, Land Agent

2079

WVGES
GEOLOGY UNDERLIES IT ALL
"Pipeline"

Select County: (087) Roane
Enter Permit #: 2709
Get Data | Reset

Select datatypes: (Check All)
☑ Location ☑ Production ☑ Plugging
☑ Owner/Completion ☑ Stratigraphy ☑ Sample
☑ Pay/Show/Water ☑ Logs ☑ Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 87 Permit = 2709

Report Time: Thursday, May 14, 2020 11:35:46 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708702709	Roane	2709	Walton	Kettle	Walton	38.60521	-81.389805	466059.3	4273039.8

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708702709	12/1/1910	Original Loc	Completed	M H Sinnett	4					South Penn Oil (S. Penn Nat. Gas)			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_/
4708702709	12/1/1910	10/22/1910	935	Topo Estimation	Walton Rock Ck	Big Injun (Price&eq	Big Injun (Price&eq	Development Well	Development Well	Oil	Cable Tool	Shot	2020		2020		0	0	0	0			0	0	0	

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708702709	12/1/1910	Pay	Oil	Vertical	1983	Big Injun (Price&eq	0		0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702709	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Pennzoil Company	1982	16	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Pennzoil Company	1983	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Hefner, G. B., & Associates, Inc.	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Hefner, G. B., & Associates, Inc.	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Hefner, G. B., & Associates, Inc.	1996	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Hefner, G. B., & Associates, Inc.	1997	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Hefner, G. B., & Associates, Inc.	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Hefner, G. B., & Associates, Inc.	1999	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Hefner, G. B., & Associates, Inc.	2000	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Hefner, G. B., & Associates, Inc.	2001	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Triad Resources, Inc.	2003	22	4	1	1	2	2	4	1	1	2	2	1	1
4708702709	Triad Resources, Inc.	2004	55	3	2	3	2	4	4	7	8	9	9	4	0
4708702709	Triad Resources, Inc.	2005	5	5	0	0	0	0	0	0	0	0	0	0	0
4708702709	Triad Resources, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Triad Resources, Inc.	2007	5	0	0	0	0	0	0	0	0	0	0	0	5
4708702709	Triad Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Triad Resources, Inc.	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Triad Hunter LLC	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Triad Hunter LLC	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Triad Hunter LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Mountain V Oil and Gas, Inc.	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Mountain V Oil and Gas, Inc.	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Mountain V Oil and Gas, Inc.	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Mountain V Oil and Gas, Inc.	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702709	Pennzoil Company	1981	138	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Pennzoil Company	1982	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Pennzoil Company	1983	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Hefner, G. B., & Associates, Inc.	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Hefner, G. B., & Associates, Inc.	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Hefner, G. B., & Associates, Inc.	1996	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Hefner, G. B., & Associates, Inc.	1997	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Hefner, G. B., & Associates, Inc.	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Hefner, G. B., & Associates, Inc.	1999	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Hefner, G. B., & Associates, Inc.	2000	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Hefner, G. B., & Associates, Inc.	2001	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Triad Resources, Inc.	2002	12	1	1	1	1	1	1	1	1	1	1	1	1
4708702709	Triad Resources, Inc.	2003	35	5	2	2	4	4	2	2	3	1	4	4	2
4708702709	Triad Resources, Inc.	2004	72	4	7	6	6	7	4	9	5	6	5	4	9
4708702709	Triad Resources, Inc.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Triad Resources, Inc.	2006	5	0	5	0	0	0	0	0	0	0	0	0	0
4708702709	Triad Resources, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Triad Resources, Inc.	2008	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702709	Triad Resources, Inc.	2009	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702709	Triad Hunter LLC	2010	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702709	Triad Hunter LLC	2011	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702709	Triad Hunter LLC	2012	3	0	0	0	0	0	0	0	0	0	0	0	3

4708702709	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Mountain V Oil and Gas, Inc.	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Mountain V Oil and Gas, Inc.	2016	0												
4708702709	Mountain V Oil and Gas, Inc.	2017	0												
4708702709	Mountain V Oil and Gas, Inc.	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702709	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Mountain V Oil and Gas, Inc.	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702709	Mountain V Oil and Gas, Inc.	2016	0												
4708702709	Mountain V Oil and Gas, Inc.	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: Volumes in Gallons * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702709	Mountain V Oil and Gas, Inc.	2016	0												
4708702709	Mountain V Oil and Gas, Inc.	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708702709	Original Loc	Big Lime	Well Record	1831	Reasonable	142	Reasonable	935	Topo Estimation
4708702709	Original Loc	Big Injun_Price&eq	Well Record	1973	Reasonable	0	Reasonable	[illegible]	Topo Estimation

There is no Wireline (E-Log) data for this well

There is no Plugging data for this well

There is no Sample data for this well

OG-10
Rev. - 9-71

2079

RECEIVED
NOV 3 - 1977
OIL & GAS DIVISION
DEPT. OF MINES

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

Rotary X Oil ____
Cable ____ Gas ____
Recycling ____ Comb. ____
Water Flood ____ Storage ____
Disposal ____ ____ (Kind)

Quadrangle Otter

Permit No. Roa-2079

Company Pennzoil Company
Address P. O. Box 1588, Parkersburg, WV 26101
Farm P. A. Tallman Acres 2350
Location (waters) Sycamore Fk. of Ashley Camp Run
Well No. 53 Elev. 1007.93
District Smithfield County Roane
The surface of tract is owned in fee by
James McBride
Address Newton, WV
Mineral rights are owned by Anna Lee Collins
Address 1009 Main St., Point Pleasant, WV
Drilling Commenced 10-4-77
Drilling Completed 10-10-77
Initial open flow ____ cu. ft. ____ bbls.
Final production ____ cu. ft. per day ____ bbls.
Well open ____ hrs. before test ____ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	224	224	90 sks.
7			
5 1/2			
4 1/2	2023	2023	75 sks.
3			
2			
Liners Used			

Attach copy of cementing record.

Well treatment details:
Did Not Complete

Coal was encountered at ____ Feet ____ Inches
Fresh water ____ Feet ____ Salt Water ____ Feet ____
Producing Sand Big Injun Depth ____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale			0	114		
Sand			114	136		
Silt & Shale			136	228		
Sand			228	243		
Shale			243	254		
Sand			254	264		
Shale & Silt			264	382		
Sand			382	395		
Shale			395	455		
Sand			455	468		
Shale			468	619		
Sand			619	623		
Shale			623	631		
Sand			631	650		
Shale			650	695		
Sand			695	818		
Shale			818	830		
Sand			830	855		
Shale			855	895		
Sand			895	1058		
Shale			1058	1117		
Sand			1117	1192		
Shale			1192	1228		
Sand			1228	1275		

(over)

* Indicates Electric Log tops in the remarks section.

2079

Formation	Color	Hard or Soft	Top Feet 32	Bottom Feet	Oil, Gas or Water	Remarks
Shale & Silt			1275	1367		
Sand			1367	1387		
Shale			1387	1416		
Sand			1416	1458		
Shale			1458	1483		
Sand			1483	1502		
Shale			1502	1512		
Sand			1512	1523		
Shale			1523	1563		
Salt Sand			1563	1686		
Shale			1686	1696		
Salt Sand			1696	1816		
Shale			1816	1842		
Sand			1842	1864		
Shale			1864	1873		
Little Lime			1873	1903		
Blue Monday			1903	1908		
Pencil Cave			1908	1925		
Big Lime			1925	1971		
Loyalhanna			1971	2026		
Big Injun			2026	2063		
Total Depth				2063		

Date November 1, 77

APPROVED PENNZOIL COMPANY

By Curtis A. [illegible]

(Title)

WVGES GEOLOGY UNDERLIES IT ALL
"Pipeline"

Select County: (087) Roane
Enter Permit #: 2554
Get Data | Reset

Select datatypes: (Check All)
☑ Location ☑ Production ☑ Plugging
☑ Owner/Completion ☑ Stratigraphy ☑ Sample
☑ Pay/Show/Water ☑ Logs ☑ Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 2554

Report Time: Thursday, April 30, 2020 8:16:38 AM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708702554	Roane	2554	Geary	Tariff	Otter	38.613555	-81.213349	481433.4	4277244.3

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708702554	11/21/1911	Original Loc	Completed	L A Hopkins	2					South Penn Oil (S. Penn Nat. Gas)			
4708702554	12/4/1913	Worked Over	Completed	L A Hopkins	2					South Penn Oil (S. Penn Nat. Gas)			
4708702554	9/8/1937	Worked Over	Completed	L A Hopkins	2					Pennzoil Company			
4708702554	1/28/1983	Worked Over	Completed	L Hopkins, T J Truman	2				Royalty Oil Co	Pennzoil Company			
4708702554	11/30/2012	Plugging	Completed	LA Hopkins	2		LA Hopkins			Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BE
4708702554	11/21/1911	10/22/1911	1048	Ground Level	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	Cable Tool	Shot	2066		2066		0	0	0	10			0	
4708702554	12/4/1913	-/-/-	1048	Ground Level	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	unknown	Shot	2066		0		0	0	0	0			0	
4708702554	9/8/1937	-/-/-	1048	Ground Level	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	unknown	Shot	2066		0		0	0	0	0			0	
4708702554	1/28/1983	-/-/-	1048	Ground Level	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	unknown	Fractured	2066		0		0	0	0	0			0	
4708702554	11/30/2012	11/16/2012	1048	Ground Level																				

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708702554	11/21/1911	Show	Gas	Vertical			2032	Big Injun (Price&eq)	0	0			
4708702554	12/4/1913	Pay	Oil & Gas	Vertical	2032	Big Injun (Price&eq)	2047	Big Injun (Price&eq)	0	0			
4708702554	11/21/1911	Pay	Oil	Vertical			2047	Big Injun (Price&eq)	0	10			
4708702554	9/8/1937	Pay	Oil & Gas	Vertical	2049	Big Injun (Price&eq)	2065	Big Injun (Price&eq)	0	0			
4708702554	1/28/1983	Horizon	Injection	Vertical	2032	Big Injun (Price&eq)	2065	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702554	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702554	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708702554	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708702554	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702554	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702554	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702554	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702554	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702554	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702554	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702554	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702554	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702554	Triad Resources, Inc.	2007	114	0	0	56	0	0	0	58	0	0	0	0	0
4708702554	Triad Resources, Inc.	2008	5	0	0	0	0	0	0	0	0	0	0	0	5
4708702554	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702554	Pennzoil Company	1981	313	0	0	0	0	0	0	0	0	0	0	0	0
4708702554	Pennzoil Company	1982	203	0	0	0	0	0	0	0	0	0	0	0	0
4708702554	Pennzoil Company	1983	135	0	0	0	0	0	0	0	0	0	0	0	0
4708702554	Pennzoil Company	1984	184	0	0	0	0	0	0	0	0	0	0	0	0
4708702554	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702554	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702554	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702554	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702554	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702554	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702554	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702554	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702554	Triad Resources, Inc.	2007	116	0	0	75	0	0	0	41	0	0	0	0	0
4708702554	Triad Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702554	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708702554	Original Loc	Salt Sands (undiff)	Well Record	1525	Reasonable	305	Reasonable	1048	Ground Level
4708702554	Original Loc	Maxton	Well Record	1845	Reasonable	40	Reasonable	1048	Ground Level
4708702554	Original Loc	Little Lime	Well Record	1890	Reasonable	30	Reasonable	1048	Ground Level

2554

4708702554	Original Loc	Pencil Cave	Well Record	1920	Reasonable	10	Reasonable	1048	Ground Level
4708702554	Original Loc	Big Lime	Well Record	1930	Reasonable	102	Reasonable	1048	Ground Level
4708702554	Original Loc	Big Injun (Price&eq)	Well Record	2032	Reasonable	32	Reasonable	1048	Ground Level

2554

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_I
4708702554	0	2044		G C *	Y	N	0	2044											0	2040	N	Y	N						

Comment: *logs caliper, CCL

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708702554gco.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708702554	11/30/2012	0

There is no Sample data for this well

WR-38
Rev. 5/08

NO COMPLETION REPORT/DRILL LOG AVAILABLE

API # 47-8702554

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: L.A. Hopkins Operator Well No.: L.A. Hopkins # 2

LOCATION: Elevation: X 1048 Quadrangle: Tariff
District: Geary County: Roane
Latitude: _____ Feet South of _____ Deg. _____ Min. _____ Sec.
Longitude: _____ Feet West of _____ Deg. _____ Min. _____ Sec.

Northing 4277244.30
EASTING 481433.40

Well Type: OIL X GAS _____

Company Triad Hunter
5669 Wallback Rd.
Wallback WV 25285

Coal Operator or Owner: No coal

Coal Operator or Owner: _____

Agent Tim Keaton
Permit Issued Date 3/29/2012

AFFIDAVIT

STATE OF WEST VIRGINIA
County of Roane ss:

Rick Duckworth and Robert Stewart being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 16 day of November, 20 12 and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement	2050'	1940'	1035' of 4½"	
Cement	1600'	1500'		
Cement	1100'	1000'		
Cement	100'	0'		
Gel between all plugs.				

Description of monument: 7" pipe with API numbers. and that the work of plugging and filling said well was completed on the 30 day of November, 2012

And further deponents saith not.

Rick Duckworth
Robert Stewart

Sworn and subscribe before me this 9 day of October, 20 13

My commission expires: April 12, 2021

Patricia Summers
Notary Public

Affidavit reviewed by the Office of Oil and Gas: _____ Title: _____

D.O. not with all plugs

RECEIVED
Office of Oil & Gas
OCT 23 2013
WV Department of Environmental Protection

2633

"Pipeline"

Select County: (087) Roane
Enter Permit #: 2633
Get Data | Reset

Select datatypes: (Check All)
Location | Production | Plugging
Owner/Completion | Stratigraphy | Sample
Pay/Show/Water | Logs | Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 2633

Report Time: Friday, May 15, 2020 12:11:23 AM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708702633	Roane	2633	Smithfield	Tariff	Otter	38.660089	-81.210021	481727.2	4279078.3

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708702633	-/-/-	Original Loc	Completed	W M Loone		1				South Penn Oil (S. Penn Nat. Gas)			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	B
4708702633	-/-/-	-/-/-	865	Barometer	Tariff Timn	Big Injun (Price&eq	Big Injun (Price&eq	Development Well	Development Well	Oil and Gas	Cable Tool	unknown	1908		1908		0	0	0	0			0	0	0	0	

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708702633	-/-/-	Pay	Oil & Gas	Vertical	1875	Big Injun (Price&eq	1900	Big Injun (Price&eq	0	0			

NO COMPLETION LOG

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702633	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702633	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708702633	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708702633	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702633	Pennzoil Products Company	1989	1,231	88	84	152	96	106	96	126	100	135	83	72	93
4708702633	Pennzoil Products Company	1990	1,218	78	36	62	13	94	85	42	124	138	190	134	222
4708702633	Pennzoil Products Company	1991	1,424	227	276	261	72	61	57	65	108	88	64	72	73
4708702633	Pennzoil Products Company	1992	544	58	41	38	41	51	52	57	48	51	40	37	30
4708702633	Pennzoil Products Company	1993	229	37	15	14	15	19	34	26	24	26	7	6	6
4708702633	Pennzoil Products Company	1994	216	7	5	1	0	0	17	31	54	37	27	15	22
4708702633	Pennzoil Products Company	1995	449	48	114	94	90	85	0	16	2	0	0	0	0
4708702633	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702633	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708702633	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708702633	Triad Resources, Inc.	2004	10	0	0	0	10	0	0	0	0	0	0	0	0
4708702633	Triad Resources, Inc.	2005	5	5	0	0	0	0	0	0	0	0	0	0	0
4708702633	Triad Resources, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702633	Triad Resources, Inc.	2007	5	0	0	0	0	0	0	0	0	0	0	0	5
4708702633	Triad Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702633	Triad Resources, Inc.	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702633	Triad Hunter LLC	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702633	Triad Hunter LLC	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702633	Triad Hunter LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702633	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702633	Triad Hunter LLC	2014	12	0	0	0	0	2	1	2	2	1	1	2	1
4708702633	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702633	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702633	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702633	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702633	Pennzoil Company	1981	101	0	0	0	0	0	0	0	0	0	0	0	0
4708702633	Pennzoil Company	1982	248	0	0	0	0	0	0	0	0	0	0	0	0
4708702633	Pennzoil Company	1983	438	0	0	0	0	0	0	0	0	0	0	0	0
4708702633	Pennzoil Company	1984	1,012	0	0	0	0	0	0	0	0	0	0	0	0
4708702633	Pennzoil Products Company	1989	3,544	444	314	423	305	266	270	294	245	216	308	272	187
4708702633	Pennzoil Products Company	1990	1,636	188	45	84	85	31	117	110	172	131	205	219	249
4708702633	Pennzoil Products Company	1991	1,113	233	74	65	60	62	103	99	66	90	90	87	84
4708702633	Pennzoil Products Company	1992	785	75	70	71	72	83	85	63	69	61	61	51	24
4708702633	Pennzoil Products Company	1993	269	26	31	29	26	32	33	30	10	10	10	11	21
4708702633	Pennzoil Products Company	1994	319	16	0	0	25	36	58	45	30	29	32	15	33
4708702633	Pennzoil Products Company	1995	162	39	15	28	0	0	30	37	13	0	0	0	0
4708702633	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702633	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708702633	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708702633	Triad Resources, Inc.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702633	Triad Resources, Inc.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702633	Triad Resources, Inc.	2006	5	0	5	0	0	0	0	0	0	0	0	0	0
4708702633	Triad Resources, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702633	Triad Resources, Inc.	2008	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702633	Triad Resources, Inc.	2009	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702633	Triad Hunter LLC	2010	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702633	Triad Hunter LLC	2011	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702633	Triad Hunter LLC	2012	1	0	0	0	0	0	0	0	0	0	0	0	1

4708702633	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0
4708702633	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0
4708702633	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0
4708702633	Triad Hunter LLC	2016	0											
4708702633	Ground Resources, LLC	2017	0											
4708702633	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702633	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702633	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702633	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702633	Triad Hunter LLC	2016	0												
4708702633	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702633	Triad Hunter LLC	2016	0												
4708702633	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708702633	Original Loc	Mahonig Ss/Big Dunk	Well Record	540	Reasonable	135	Reasonable	865	Ground Level
4708702633	Original Loc	Salt Sands (undiff)	Well Record	1375	Reasonable	281	Reasonable	865	Ground Level
4708702633	Original Loc	Maxton	Well Record	1691	Reasonable	14	Reasonable	865	Ground Level
4708702633	Original Loc	Little Lime	Well Record	1705	Reasonable	51	Reasonable	865	Ground Level
4708702633	Original Loc	Pencil Cave	Well Record	1756	Reasonable	9	Reasonable	865	Ground Level
4708702633	Original Loc	Big Lime	Well Record	1765	Reasonable	103	Reasonable	865	Ground Level
4708702633	Original Loc	Greenbrier Group	Well Record	1765	Reasonable	0	Reasonable	865	Ground Level
4708702633	Original Loc	Big Injun (Price&eq	Well Record	1868	Reasonable	40	Reasonable	865	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708702633	0	1904		G C *		N	0	1904											0	1896	N	Y	N						

Comment: *logs: caliper, CCL

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708702633gco.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

2633

FILE

COMPANY	ROUNDUP
WELL	W.M. LOWRIE No. 1
FIELD	TAFT EF
COUNTY	RAMPE
STATE	W. VA.
LOCATION	TARIES WATERSHED
OTHER SERVICES	NONE
SEC.	
TWP.	
RGE.	
PERMANENT DATUM	GROUND LEVEL
ELEV.	
LOG MEASURED FROM	KB
DRILLING MEASURED FROM	KB
ELEVATIONS: KB	N/A
DF	
GL	N/A
DATE	4/10/84
RUN NO.	ONE
TYPE LOG	GAMMA RAY
DEPTH—DRILLER	1803
DEPTH—LOGGER	1808
BOTTOM LOGGED INTERVAL	1808
TOP LOGGED INTERVAL	1250
TYPE FLUID IN HOLE	AIR
SALINITY PPM CL.	
DENSITY LB./GAL.	N/A
LEVEL	N/A
MAX. REC. TEMP. DEG. F.	
EQPT. RUN TIME	
RECORDED BY	R. BURNS
WITNESSED BY	M. BUTTRAM
DISTRICT	CHARLESTON

BORE HOLE RECORD

RUN NO.	BIT	FROM	TO

CASING RECORD

RUN NO.	SIZE	WGT.	FROM	TO

FOLD HERE

THIS HEADING AND LOG CONFORMS TO API RECOMMENDED STANDARD PRACTICE RP-33 (R)

EQUIPMENT DATA

RUN NO.	ONE			RUN NO.			
TOOL MODEL NO.	5382-G-D			LOG TYPE			
DIAM.	3.5"			TOOL MODEL NO.			
DETECT. MODEL NO.				DIAM.			
TYPE	JOINT			DETECT. MODEL NO.			
LENGTH	3"			TYPE			
				LENGTH			
				SOURCE MODEL NO.			
GENERAL				SERIAL NO.			
HOIST TRUCK NO.	1659			SPACING			
INST. TRUCK NO.	1644			TYPE			
TOOL SERIAL NO.				STRENGTH			
LOG TICKET NO.	#59214						

LOGGING DATA

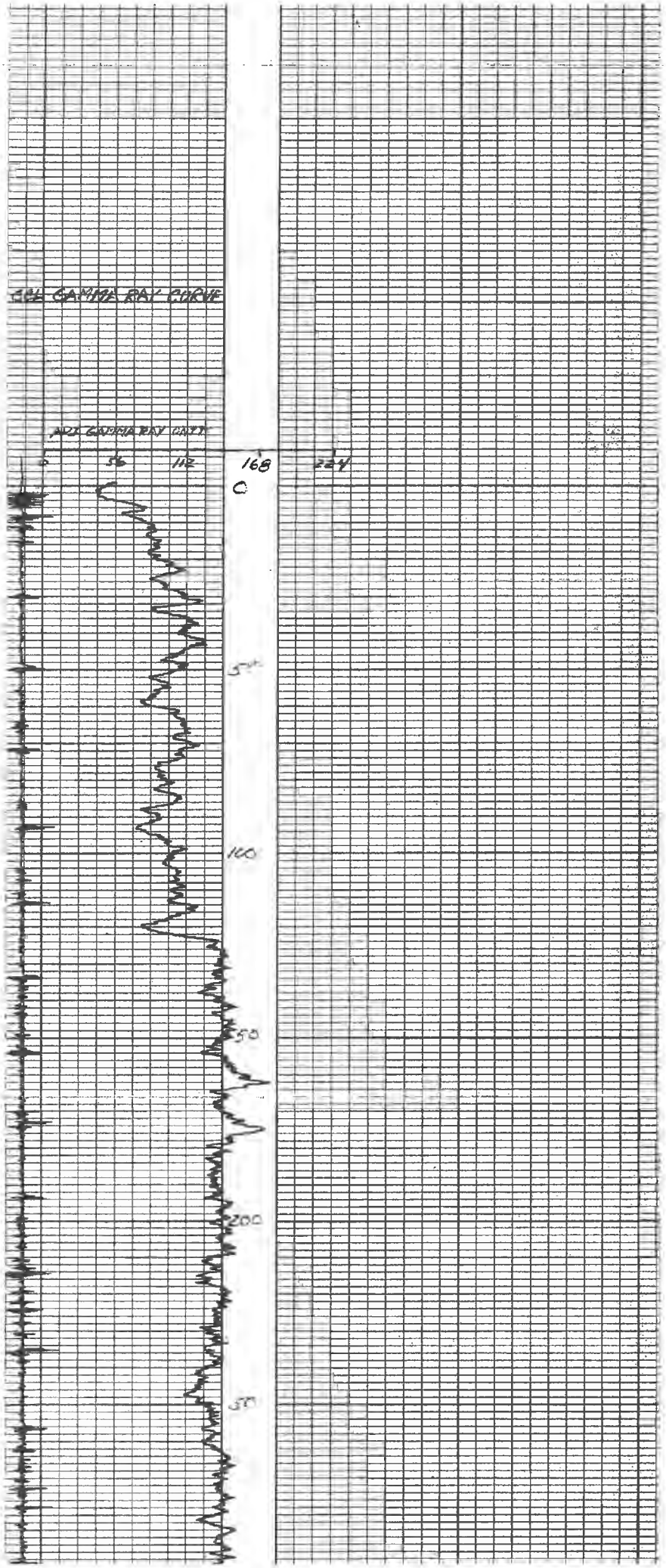
GENERAL

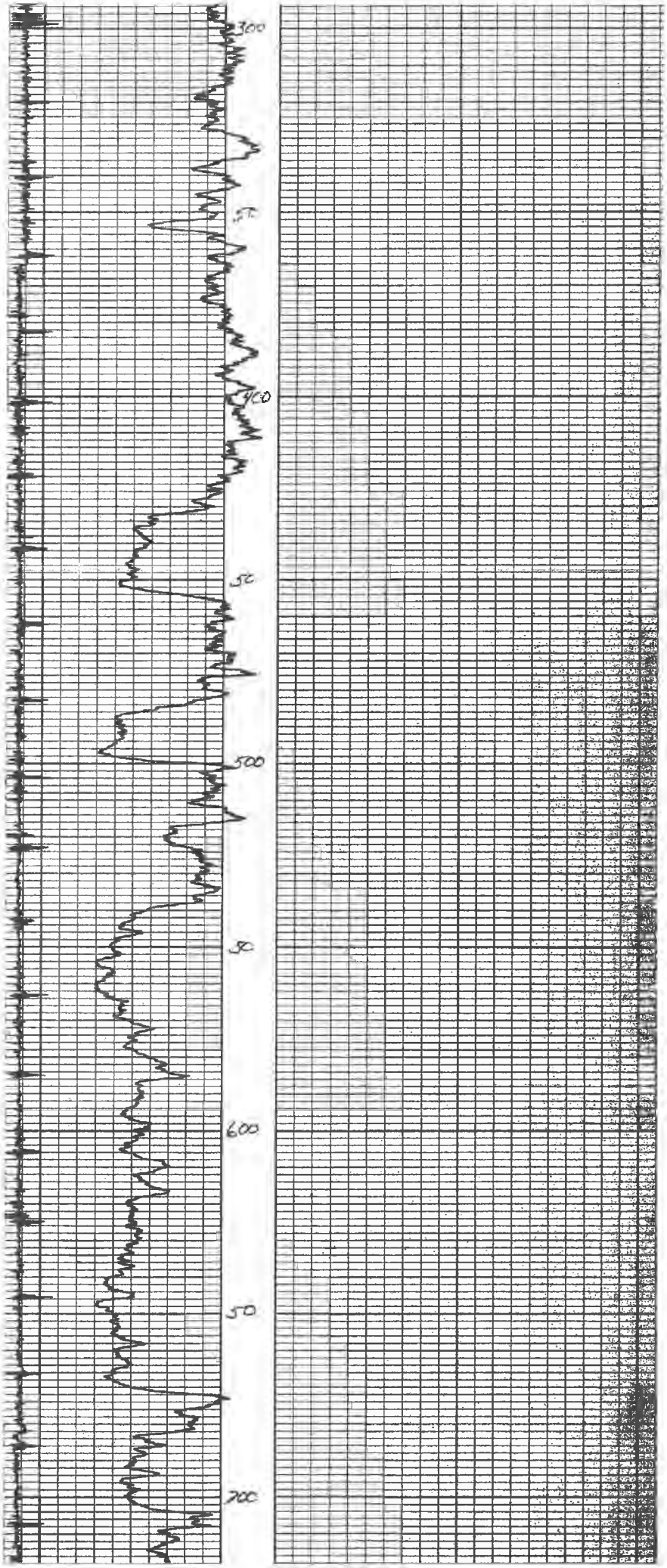
RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED FT./MIN.	T. C. SEC.	SENS. SETTINGS	LOG DIV. L. or R	LOG DIV. UNITS PER LOG DIV.	F. E. SEC	SENS. SETTINGS		
ONE	0	1803	30	2	D-20 R-611 E-320	10	14				
TWO	1250	1803	30	1							

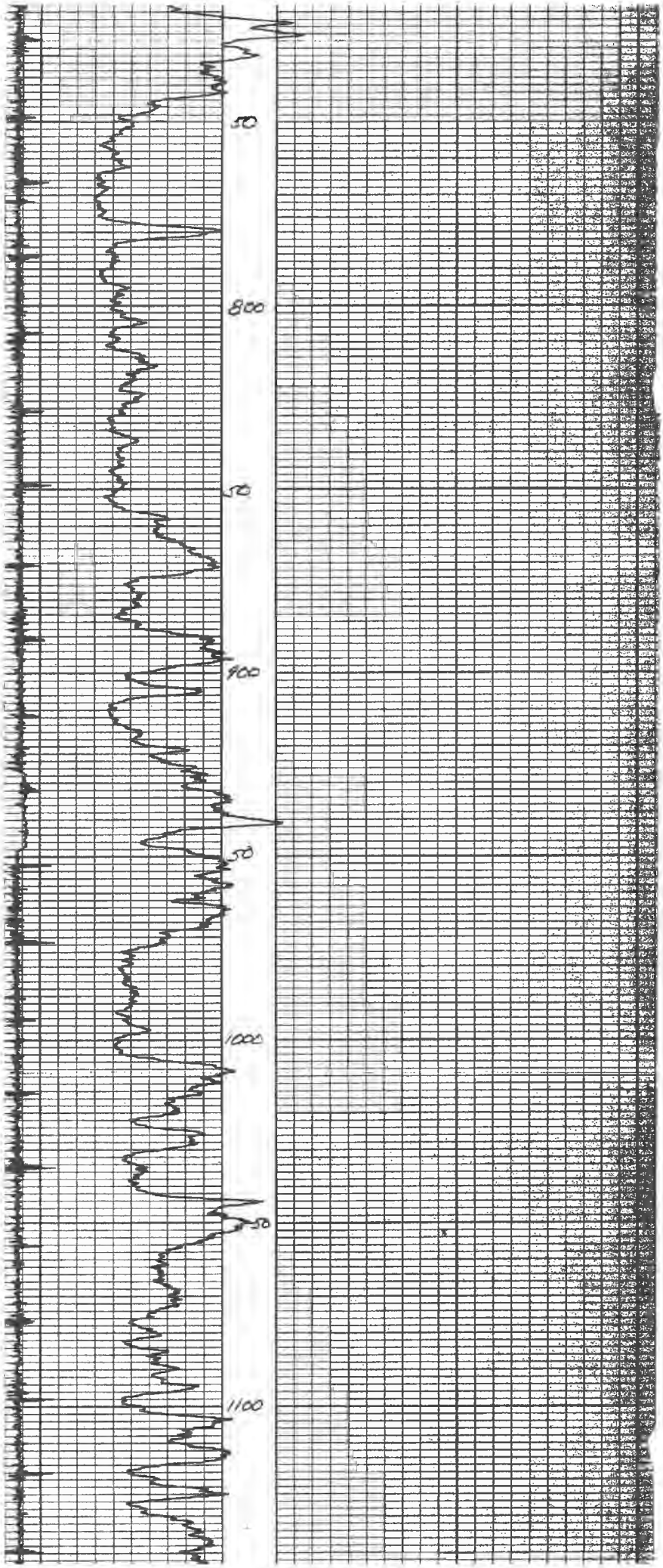
REFERENCE LITERATURE: NO REFERENCE LITERATURE AVAILABLE
LOG RUN AT WIRELINE DEPTH
NO GAMMA RAY CALIBRATIONS AT CUSTOMER REQUEST

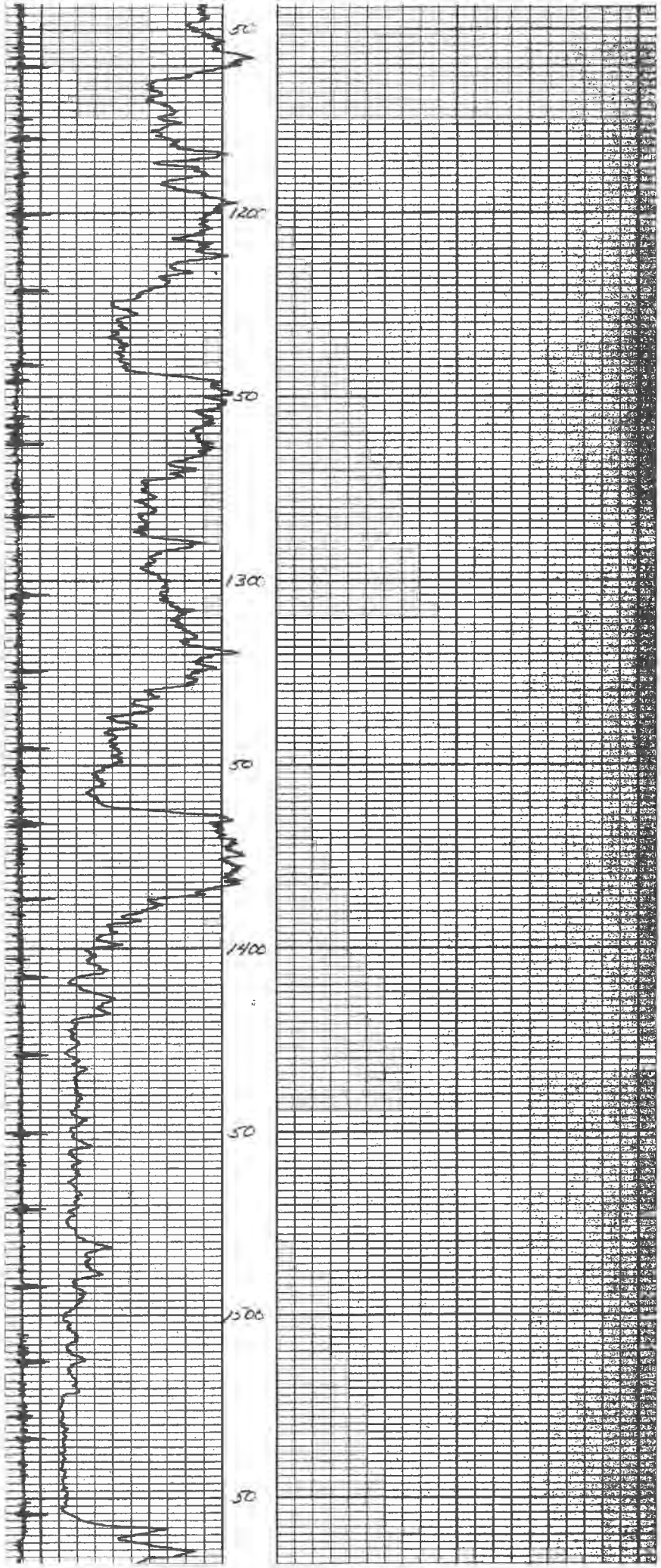
REMARKS:

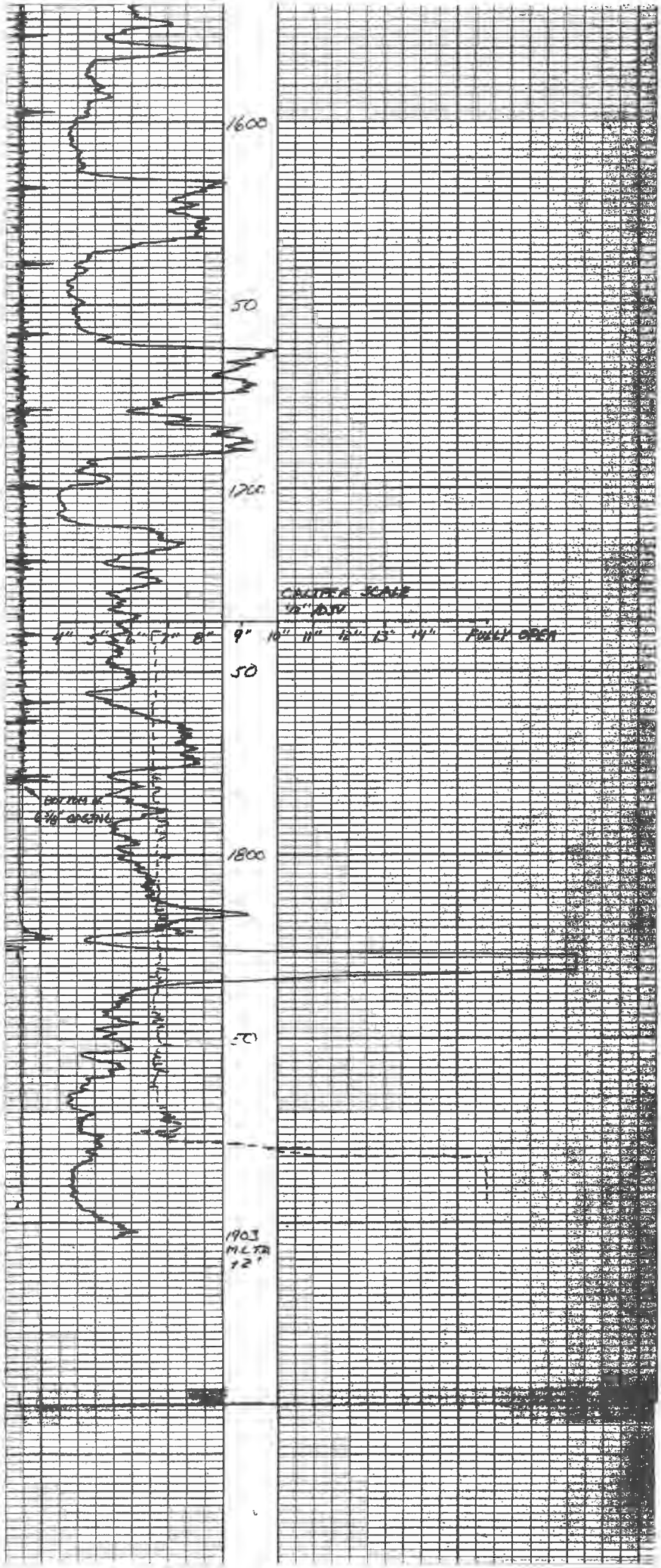
GAMMA RAY READ 0 STATISTICAL
ZONE IS 0°

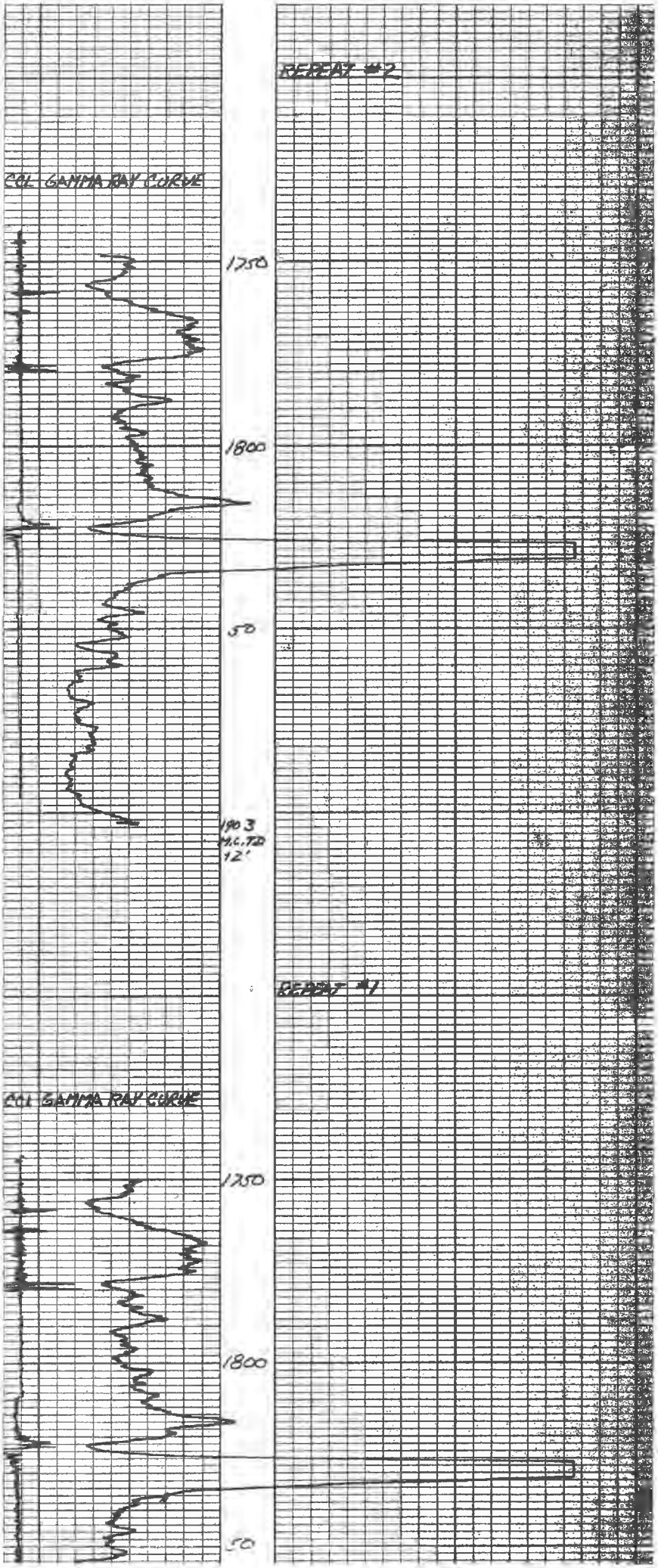

GEL GAMMA RAY CURVE
ADX GAMMA RAY CURVE
0
56
112
168
224
C
50
100
150
200
250


300
400
500
600
700

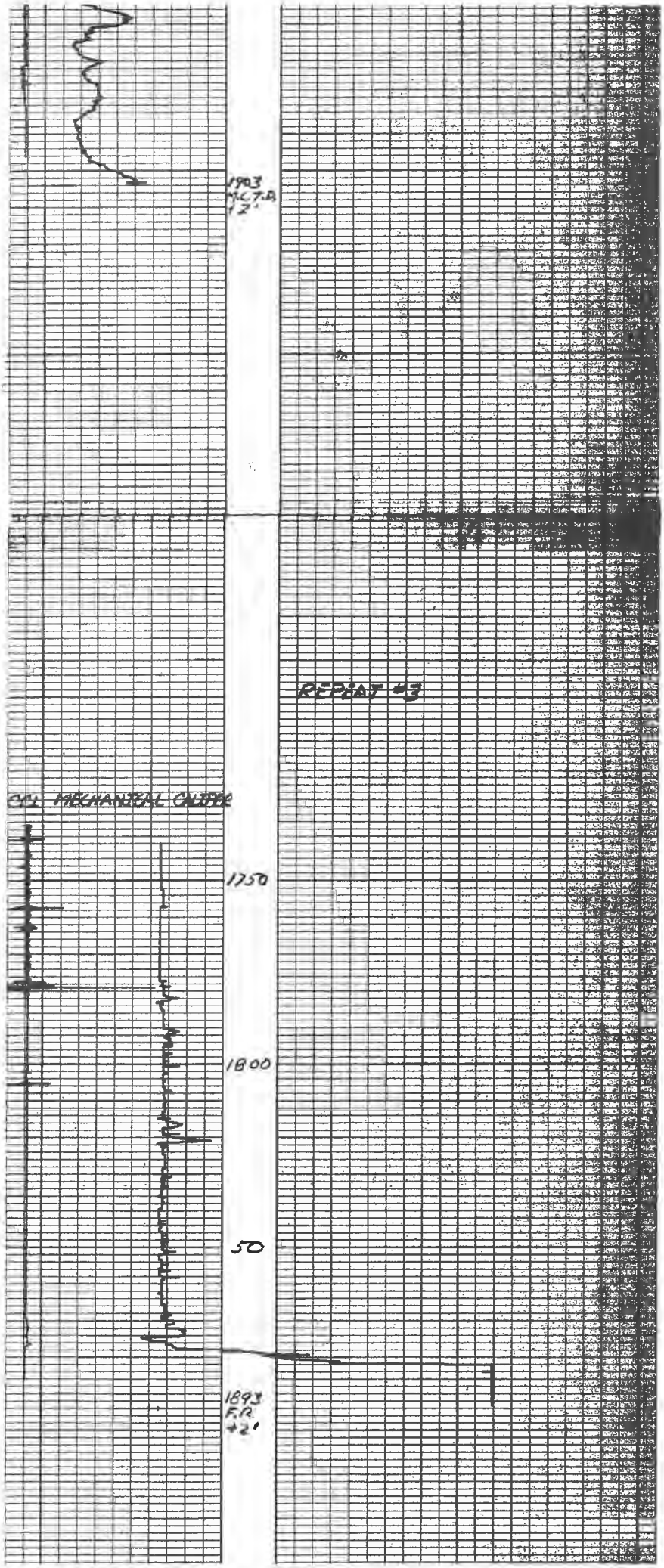

50
800
50
900
50
1000
50
1100

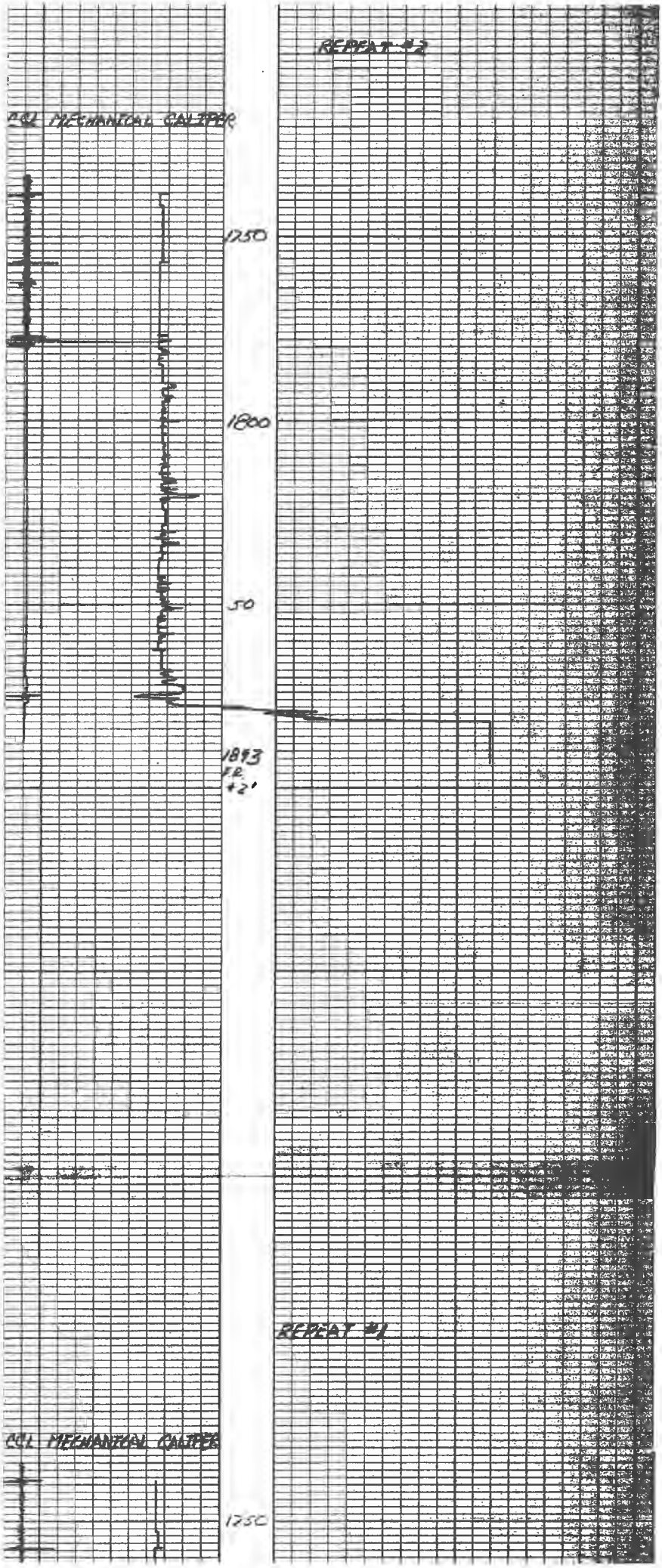

50
1200
50
1300
50
1400
50
1500
50

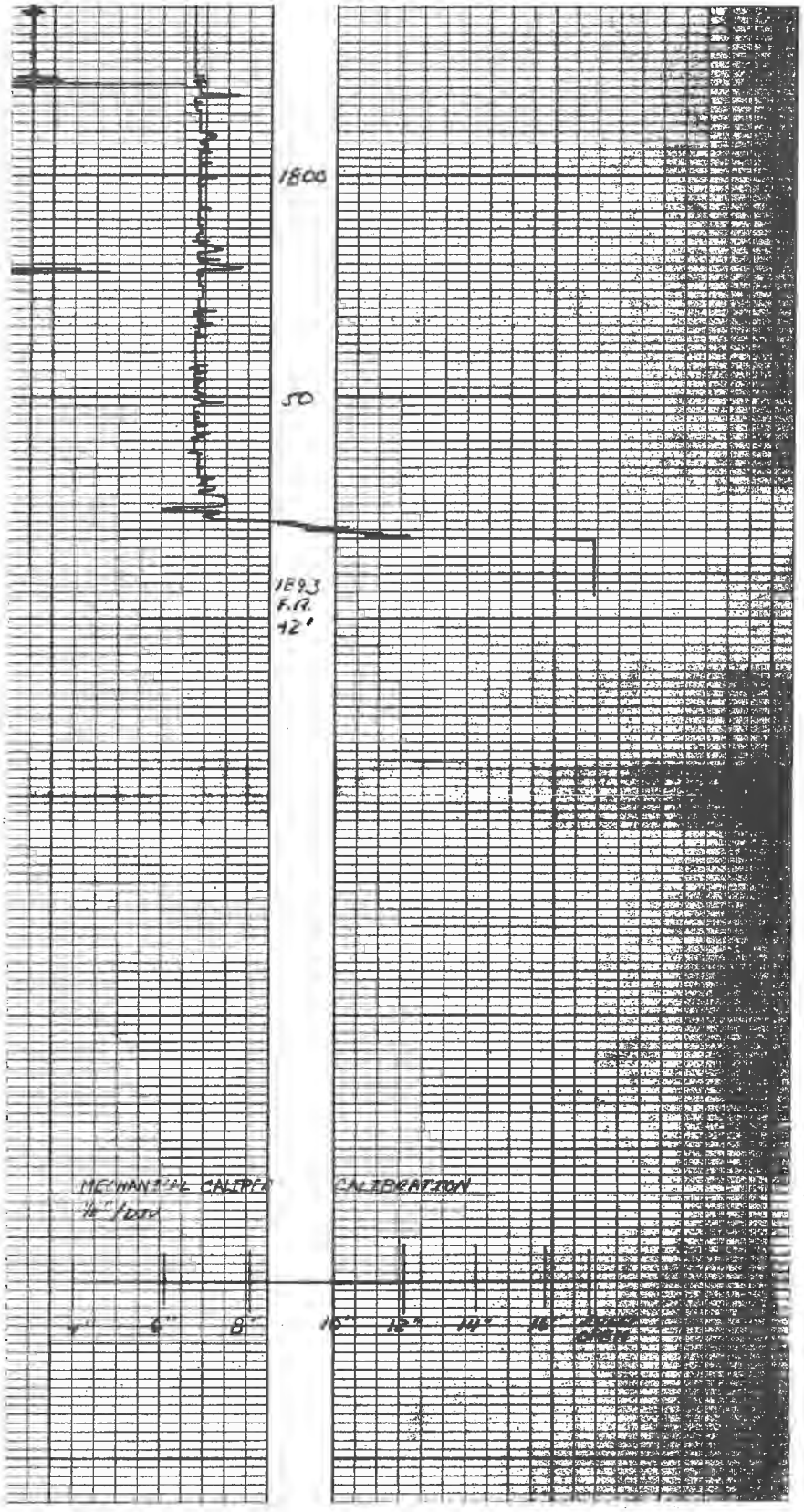

1600
50
1700
CALIPER SCALE
4" 5" 6" 7" 8" 9" 10" 11" 12" 13" 14" FULLY OPEN
50
BOTTOM OF
6 3/8" OPENING
1800
50
1903
M.L.T.D.
+2'


REPEAT #2
COL GAMMA RAY CURVE
1750
1800
50
1903
M.C.TD
12'
REPEAT #1
COL GAMMA RAY CURVE
1750
1800
50

2633


1903
M.C.T.D.
+2'
REPEAT #3
CAL MECHANICAL CALIPER
1750
1800
50
1893
F.R.
+2'


REPEAT #2
CCL MECHANICAL CALIPER
1250
1800
50
1893
REPEAT #1
CCL MECHANICAL CALIPER
1250


1800
50
1893
F.R.
42'
MECHANICAL CALIPER
½" / DIV
CALIBRATION
4"
6"
8"
10"
12"
14"
16"

WVGES GEOLOGY UNDERLIES IT ALL
"Pipeline"

Select County: (087) Roane
Enter Permit #: 2634
Get Data | Reset

Select datatypes: (Check All)
Location | Production | Plugging
Owner/Completion | Stratigraphy | Sample
Pay/Show/Water | Logs | Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 87 Permit = 2634

Report Time: Thursday, April 30, 2020 8:58:35 AM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708702634	Roane	2634	Smithfield	Tariff	Otter	38.649356	-81.21409	481370.4	4277888.2

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708702634	12/4/1910	Original Loc	Completed	W M Looney	3					South Penn Oil (S. Penn Nat. Gas)			
4708702634	11/14/1912	Worked Over	Completed	W M Looney	3					South Penn Oil (S. Penn Nat. Gas)			
4708702634	1/17/1922	Worked Over	Completed	W M Looney	3					South Penn Oil (S. Penn Nat. Gas)			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_
4708702634	12/4/1910	10/11/1910	1110	Topo Estimation	Tariff(Tlmn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	Cable Tool	Shot	2169		2169		0	0	30	0			0	
4708702634	11/14/1912	-/-/-	1110	Topo Estimation	Tariff(Tlmn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	unknown	Shot	2169		0		0	0	0	0			0	
4708702634	1/17/1922	-/-/-	1110	Topo Estimation	Tariff(Tlmn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Development Well	Development Well	Oil	unknown	Shot	2169		0		0	0	0	0			0	

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708702634	11/14/1912	Pay	Oil & Gas	Vertical			0	Big Injun (Price&eq)	0	0			
4708702634	1/17/1922	Pay	Oil & Gas	Vertical			0	Big Injun (Price&eq)	0	0			
4708702634	12/4/1910	Pay	Oil & Gas	Vertical	2150	Big Injun (Price&eq)	2165	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702634	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702634	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708702634	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708702634	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702634	Pennzoil Products Company	1989	202	26	12	27	17	9	10	31	18	17	12	10	13
4708702634	Pennzoil Products Company	1990	254	15	11	20	21	26	20	24	17	25	29	21	25
4708702634	Pennzoil Products Company	1991	268	27	24	25	21	21	18	25	23	27	19	21	17
4708702634	Pennzoil Products Company	1992	215	23	20	33	15	20	19	24	13	15	15	9	9
4708702634	Pennzoil Products Company	1993	88	9	8	9	6	3	14	10	2	6	5	14	2
4708702634	Pennzoil Products Company	1994	44	0	0	0	3	7	6	6	2	14	2	0	4
4708702634	Pennzoil Products Company	1995	22	8	0	0	0	0	11	0	0	0	0	3	0
4708702634	Pennzoil Products Company	1996	469	15	26	193	47	103	26	0	12	2	10	14	21
4708702634	Pennzoil Products Company	1997	255	22	40	0	51	6	31	64	8	13	3	17	0
4708702634	Pennzoil Products Company	1998	179	0	26	1	28	27	46	10	19	17	5	0	0
4708702634	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708702634	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708702634	Triad Resources, Inc.	2004	88	6	5	8	9	9	11	8	9	11	8	4	0
4708702634	Triad Resources, Inc.	2005	5	5	0	0	0	0	0	0	0	0	0	0	0
4708702634	Triad Resources, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702634	Triad Resources, Inc.	2007	5	0	0	0	0	0	0	0	0	0	0	0	5
4708702634	Triad Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702634	Triad Resources, Inc.	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702634	Triad Hunter LLC	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702634	Triad Hunter LLC	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702634	Triad Hunter LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702634	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702634	Triad Hunter LLC	2014	17	0	0	0	0	3	2	3	1	1	3	2	2
4708702634	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702634	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702634	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702634	Ground Resources, LLC	2018	44	0	0	44	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702634	Pennzoil Company	1981	101	0	0	0	0	0	0	0	0	0	0	0	0
4708702634	Pennzoil Company	1982	248	0	0	0	0	0	0	0	0	0	0	0	0
4708702634	Pennzoil Company	1983	438	0	0	0	0	0	0	0	0	0	0	0	0
4708702634	Pennzoil Company	1984	1,012	0	0	0	0	0	0	0	0	0	0	0	0
4708702634	Pennzoil Products Company	1989	568	78	63	35	32	65	48	36	36	31	35	51	58
4708702634	Pennzoil Products Company	1990	815	60	70	91	67	70	54	58	83	55	61	72	74
4708702634	Pennzoil Products Company	1991	709	73	61	66	63	68	56	69	51	55	45	54	48
4708702634	Pennzoil Products Company	1992	487	75	37	49	44	53	33	39	37	27	29	31	33
4708702634	Pennzoil Products Company	1993	242	27	32	13	50	28	10	18	16	42	6	0	0
4708702634	Pennzoil Products Company	1994	163	0	11	23	17	18	8	51	7	0	13	15	0
4708702634	Pennzoil Products Company	1995	38	0	0	0	14	0	0	0	0	19	5	0	0
4708702634	Pennzoil Products Company	1996	159	12	0	17	18	0	10	34	34	18	10	6	0
4708702634	Pennzoil Products Company	1997	26	0	0	0	19	7	0	0	0	0	0	0	0
4708702634	Pennzoil Products Company	1998	177	16	19	16	19	15	16	18	20	18	20	0	0
4708702634	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708702634	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45

2634

2634

4708702634	Triad Resources, Inc.	2004	329	31	31	31	31	30	30	22	28	24	23	21	27
4708702634	Triad Resources, Inc.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702634	Triad Resources, Inc.	2006	5	0	5	0	0	0	0	0	0	0	0	0	0
4708702634	Triad Resources, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702634	Triad Resources, Inc.	2008	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702634	Triad Resources, Inc.	2009	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702634	Triad Hunter LLC	2010	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702634	Triad Hunter LLC	2011	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702634	Triad Hunter LLC	2012	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702634	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702634	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702634	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702634	Triad Hunter LLC	2016	0												
4708702634	Ground Resources, LLC	2017	0												
4708702634	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702634	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702634	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702634	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702634	Triad Hunter LLC	2016	0												
4708702634	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702634	Triad Hunter LLC	2018	0												
4708702634	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708702634	Original Loc	Mahonig Ss/Big Dunk	Well Record	770	Reasonable	100	Reasonable	1110	Topo Estimation
4708702634	Original Loc	Salt Sands (undiff)	Well Record	1650	Reasonable	315	Reasonable	1110	Topo Estimation
4708702634	Original Loc	Little Lime	Well Record	1965	Reasonable	50	Reasonable	1110	Topo Estimation
4708702634	Original Loc	Pencil Cave	Well Record	2015	Reasonable	7	Reasonable	1110	Topo Estimation
4708702634	Original Loc	Big Lime	Well Record	2022	Reasonable	112	Reasonable	1110	Topo Estimation
4708702634	Original Loc	Big Injun (Price&eq)	Well Record	2134	Reasonable	0	Reasonable	1110	Topo Estimation

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_I
4708702634	2	2160		G D C	Y	N	2	2158	382	2160									382	2160	N	Y	N						

Comment: *logs: caliper

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708702634gdc.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

No. 3 W. M. Loomis Farm.
e No. Smithfield District Roalie County.
built by W. B. Wilson 2634
Well drilled by S. J. D. Co. Contractor.
Began drilling Oct 1 1909 1910 Completed Dec 4 1909 1910

ROCK FORMATION	TOP	BOTTOM	REMARKS
Conductor		9	
Big Dunkard	770	870	
Salt Sand	1650	1965	Water 1740 and 1770
Little Lime	1965	2015	
Pencil Cave	2015	2022	
Big Lime	2022	2134	
Big Injun	2134	2169	35
Oil and Gas	2150	2165	15
Total Depth		2169	

CASING RECORD

	CHARGED TO WELL		PUT IN WELL		PULLED OUT		LEFT IN WELL		Transferred before Completion		Left at Well Not in Use		
Size	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	
10			300		800				Shot 11/14/12		40 qts Salt		✓
8 1/4			780		780				" 12/8/10		20 qts D.W.		✓
6 5/8			2034						" 1/17/11		60 qt. D.W.		

Production First 24 Hours } 10 Bbls. Signed J. P. Redwell Supt.
[illegible] Supt.

Production First 24 Hours } 30 Bbls. Signed John C. Ford Supt.

WVGES GEOLOGY UNDERLIES IT ALL "Pipeline"

Select County: (087) Roane
Enter Permit #: 2635
Get Data | Reset

Select datatypes: (Check All)
Location | Production | Plugging
Owner/Completion | Stratigraphy | Sample
Pay/Show/Water | Logs | Btm Hole Loc

Table Descriptions
County Code Translations
Permit Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 2635

Report Time: Monday, May 18, 2020 7:41:41 AM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708702635	Roane	2635	Smithfield	Tariff	Otter	38.657768	-81.21742	481082.9	4278822.3

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708702635	1/21/1911	Original Loc	Completed	W M Looney	4					South Penn Oil (S. Penn Nat. Gas)			
4708702635	9/1/1936	Worked Over	Completed	W M Looney	4					Pennzoil Company			
4708702635	5/30/2008	Plugging	Completed	Triad Resources			Looney 4			Triad Resources, Inc.			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT
4708702635	1/21/1911	11/24/1910	990	Topo Estimation	Tariff(Tlmn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	Cable Tool	Shot	2053		2053		0	0	0	150			0	0	0
4708702635	9/1/1936	-/-/-	990	Topo Estimation	Tariff(Tlmn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Development Well	Development Well	Oil	unknown	Shot	2053		0		0	0	0	0			0	0	0
4708702635	5/30/2008	5/23/2008	990	Ground Level				unclassified	unclassified	not available	unknown	unknown													

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QTY
4708702635	9/1/1936	Pay	Oil & Gas	Vertical			0	Big Injun (Price&eq)	0	0			
4708702635	1/21/1911	Show	Gas	Vertical	2021	Big Injun (Price&eq)	2040	Big Injun (Price&eq)	0	0			
4708702635	1/21/1911	Pay	Oil	Vertical	2021	Big Injun (Price&eq)	2040	Big Injun (Price&eq)	0	150			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702635	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702635	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708702635	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708702635	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702635	Pennzoil Products Company	1989	7	7	0	0	0	0	0	0	0	0	0	0	0
4708702635	Pennzoil Products Company	1990	68	0	0	0	0	11	7	9	16	25	0	0	0
4708702635	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702635	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702635	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708702635	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708702635	Triad Resources, Inc.	2004	10	0	0	0	10	0	0	0	0	0	0	0	0
4708702635	Triad Resources, Inc.	2005	5	5	0	0	0	0	0	0	0	0	0	0	0
4708702635	Triad Resources, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702635	Triad Resources, Inc.	2007	5	0	0	0	0	0	0	0	0	0	0	0	5
4708702635	Triad Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702635	Triad Resources, Inc.	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702635	Triad Hunter LLC	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702635	Triad Hunter LLC	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702635	Triad Hunter LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702635	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702635	Pennzoil Company	1981	101	0	0	0	0	0	0	0	0	0	0	0	0
4708702635	Pennzoil Company	1982	248	0	0	0	0	0	0	0	0	0	0	0	0
4708702635	Pennzoil Company	1983	438	0	0	0	0	0	0	0	0	0	0	0	0
4708702635	Pennzoil Company	1984	1,012	0	0	0	0	0	0	0	0	0	0	0	0
4708702635	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702635	Pennzoil Products Company	1990	196	0	0	37	25	25	51	58	0	0	0	0	0
4708702635	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702635	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702635	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708702635	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708702635	Triad Resources, Inc.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702635	Triad Resources, Inc.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702635	Triad Resources, Inc.	2006	5	0	5	0	0	0	0	0	0	0	0	0	0
4708702635	Triad Resources, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702635	Triad Resources, Inc.	2008	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702635	Triad Resources, Inc.	2009	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702635	Triad Hunter LLC	2010	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702635	Triad Hunter LLC	2011	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702635	Triad Hunter LLC	2012	1	0	0	0	0	0	0	0	0	0	0	0	1
4708702635	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702635	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0

2635

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708702635	Original Loc	Buffio Ss/1st Cow Rn	Well Record	630	Reasonable	57	Reasonable	990	Topo Estimation
4708702635	Original Loc	Mahonig Ss/Big Dunk	Well Record	687	Reasonable	100	Reasonable	990	Topo Estimation
4708702635	Original Loc	Salt Sands (undiff)	Well Record	1520	Reasonable	340	Reasonable	990	Topo Estimation
4708702635	Original Loc	Little Lime	Well Record	1860	Reasonable	50	Reasonable	990	Topo Estimation
4708702635	Original Loc	Pencil Cave	Well Record	1910	Reasonable	11	Reasonable	990	Topo Estimation
4708702635	Original Loc	Big Lime	Well Record	1921	Reasonable	94	Reasonable	990	Topo Estimation
4708702635	Original Loc	Big Injun Price&eq	Well Record	2015	Reasonable	0	Reasonable	990	Topo Estimation

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708702635	0	2056		G,C,*	Y	N	4	2056											0	2050	N	Y	N						

Comment: *logs: caliper, CCL

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708702635co.tif
4708702635go.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:

- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:

- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708702635	5/30/2008	0

There is no Sample data for this well

2635

2635

Lease No. 6716 Acres 480 Farm Name Looney, W. M. 87-02635 Well No.

N. S. 53-4E. W. 35 Location Made Purchased From

Civil District Smithfield Rig Completed Aug. 8, 1910 Date Purchased

County Roane Dr'g Commenced Nov. 29, 1910 Sold to

State W. Va. Dr'g Completed Jan. 21, 1911 Date Sold

GAS OIL Rights Owned By Dr'g Contractor Drlg. Tools Acc't. Date Abandoned

FORMATION

Kind	Top	Bottom	Steel Line Meas.	Tests
Conductor		12		
Little Dunkard	630	689		
Big Dunkard	689	787		
Salt Sand	1520	1660		
Water	1650	1685		
Little Lime	1860	1910		
Big Lime	1921	2015		
Pencil Cave	1910	1921		
Big Injun	2015	2053		
Gas & Oil	2021	2040		
T. D.		2053		

CASING RECORD

Size	Bottom Casing Steel Line	Put in Well Tally Meas.	Pulled Tally Meas.	Ceme
10"		270'	270'	Date
8 1/4"		697'	697'	Size Csg.
6 5/8"		1926'		Top Csg.
5 3/16"		1963'	1963	Bot. Csg.
2"		2037	2037	

PACKERS AND SHOES

Kind	Size	Depth Set	Date
Disc Wall		1963'	

TORPEDO RECORD

Date	No. Qts.	Size Shell	Top Shot	Bottom	Res
July 20, '12	40	2-3-10	2010	2020	
Sept. 1, '36	30	3"x20'	2020	2040	Bomb
May 3, '45	50	4"x22'	2041	2053	Bomb
3-6-53	60	3½"x30'	2038	2053	Bomb

Initial Prod.	Sand	* At Completion	* 30 Days After	*
Oil				
Gas				

APPROVED

87-02635

Looney W.M well # 4

Big Lime	1921	2015	2053
Injun Sand	2015	2053	1921
Oil & Gas	2021	2040	132
Depth	2053		

6.5/8	casing	1926	
5.3/16	"	1963	Dic wall packer

Shot July 20. 1912 40 qt

" top 2020 bot 2040

" Sept 1-1934 30. Top 2020 Bot 2040.
Prod Inc. from 6 bbl to 12 bbl wk.
Shot Mar 23-45 50 qts. top 2041 Bottom 2053 Increase from 4 to 45 Bbl
Dhaur Bamb Shot
Steamed 1-23-52 - Inc. from 9 to 24 Bbl - Not C.O
Shot 3-6-53 - 60 qts. Top 2038 Bottom 2053

10" Thermoid Rubber Belt Put on 8/14/36
to clean out
U E Tubing 2055 - 1"
Rig Repd Jan. 1934 - 21 ft Pipe Beam

2635

Well No. 4 W M Lcomy Farm.
Lease No. Smithfield District Roane County.
Rig built by W B Wilson
Well drilled by J J & Fue Contractor.
Began drilling Nov 24 1920 Completed Jany 21 1921

ROCK FORMATION	TOP	BOTTOM	REMARKS
Conductor		12	
Little Dunkard	630	687	
Big do	687	787	
Salt Sand	1520	1860	
Water	1650		
Water	1685		
Little Lime	1860	1910	
Pencil Cave	1910	1921	
Big Lime	1921	2015	
Big Lime	2015	2053	
Oil and Gas	2021	2040	
Total		2053	

CASING RECORD

Size	CHARGED TO WELL Feet	In.	PUT IN WELL Feet	In.	PULLED OUT Feet	In.	LEFT IN WELL Feet	In.	Transferred before Completion Feet	In.	Left at Well Not in Use Feet	In.
10			270		270				Shot 1/24/11 - 20 gl B Inj.			
8 1/4			697		697				Shot 9-1-36 - 30 gl. B Inj.			
6 5/8			1926									

Production First 24 Hours } 150 Bbls. Signed J D Sidwell Supt.

Production First 24 Hours } 30 Bbls. Signed John C Ford Supt.

2635

Rev (9-04)
WR-38
DATE:

API # 47-8702635-P

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: Triad Reasources Operator Well No.: W.M.Loney 4

LOCATION: Elevation: _____ Quadrangle: _____
District: Smithfield County: Roane
Latitude: _____ Feet South of ____ Deg. ____ Min. ____ Sec.
Longitude: _____ Feet West of ____ Deg. ____ Min. ____ Sec.

Well Type: OIL X GAS ____

Company: Triad Reasources
5669 Walback Rd.
Walback,WV,25285

Coal Operator or Owner _____

Coal Operator or Owner _____

Agent: Mike Horan

Permit Issued Date: 04/02/2008

RECEIVED
Office of Oil & Gas
DEC 31 2008
WV Department of
Environmental Protection

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of _____ ss:

Rick Duckworth and Sam Murphy being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 23 day of May, 2008 and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement	2000'	1900'	1525' of 4½"	438' of 4½"
Cement	1550'	1450'		
Cement	1100'	1000'		
Cement	600'	500'		
Cement	100'	0'		

Gel between all plugs.

Description of monument: 7" casing with API numbers. and that the work of plugging and filling said well was completed on the 30 day of May, 2008.

And further deponents saith not. Rick Duckworth

Sam Murphy

Sworn and subscribe before me this 18 day of December, 2008
My commission expires: August 28 2010
Melody Dawn Hamrick
Notary Public

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
MELODY DAWN HAMRICK
323 TOWNSEND DR.
SUMMERSVILLE, WV 26651
My Commission Expires August 28, 20..

Affidavit reviewed by the Office of Oil and Gas: _____

Title: Inspector

WVGES GEOLOGY UNDERLIES IT ALL "Pipeline"

Select County: (087) Roane
Enter Permit #: 2636
Get Data | Reset

Select datatypes: (Check All)
Location, Production, Plugging, Owner/Completion, Stratigraphy, Sample, Pay/Show/Water, Logs, Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 2636

Report Time: Thursday, April 30, 2020 9:39:55 AM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708702636	Roane	2636	Geary	Tariff	Otter	38.652056	-81.210563	481678	4278187

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708702636	3/5/2013	Plugging	Completed	WM Looney	5		WM Looney			Triad Hunter LLC			
4708702636	-/-/-	Original Loc	Completed	W M Looney	5					Pennzoil Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	B
4708702636	3/5/2013	2/28/2013	1078	Ground Level																							
4708702636	-/-/-	-/-/-			Unnamed			unclassified	unclassified	not available	unknown	unknown			0		0	0	0	0			0	0	0	0	

There is no Pay data for this well

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702636	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702636	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708702636	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708702636	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702636	Pennzoil Products Company	1989	678	55	32	54	34	31	53	78	55	76	55	68	87
4708702636	Pennzoil Products Company	1990	1,272	84	36	46	59	153	115	204	171	110	105	112	77
4708702636	Pennzoil Products Company	1991	631	55	41	65	54	56	46	59	57	64	48	55	31
4708702636	Pennzoil Products Company	1992	325	35	30	33	24	25	30	37	11	20	31	26	23
4708702636	Pennzoil Products Company	1993	133	9	6	8	12	15	17	13	8	12	11	12	10
4708702636	Pennzoil Products Company	1994	83	11	9	7	11	13	12	0	0	0	0	0	0
4708702636	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702636	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702636	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702636	Pennzoil Company	1981	101	0	0	0	0	0	0	0	0	0	0	0	0
4708702636	Pennzoil Company	1982	248	0	0	0	0	0	0	0	0	0	0	0	0
4708702636	Pennzoil Company	1983	438	0	0	0	0	0	0	0	0	0	0	0	0
4708702636	Pennzoil Company	1984	1,012	0	0	0	0	0	0	0	0	0	0	0	0
4708702636	Pennzoil Products Company	1989	2,223	156	159	122	170	165	148	166	161	204	292	292	188
4708702636	Pennzoil Products Company	1990	3,710	138	199	524	386	590	552	264	307	293	190	147	120
4708702636	Pennzoil Products Company	1991	1,658	191	158	178	160	161	137	164	129	150	78	80	72
4708702636	Pennzoil Products Company	1992	712	75	58	61	69	80	26	51	80	76	78	30	26
4708702636	Pennzoil Products Company	1993	499	26	57	63	59	35	36	34	37	37	36	39	40
4708702636	Pennzoil Products Company	1994	152	32	39	44	37	0	0	0	0	0	0	0	0
4708702636	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702636	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702636	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

There is no Stratigraphy data for this well

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_I
4708702636	1550	2084		G C*	Y	N	1551	2084											1550	2070	N	Y	N						

Comment: *logs: claliper, CCL

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708702636gco.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:

- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)

2636

o other[1]
s sonic or velocity
t temperature (includes borehole temperature, BHT, differential temperature, etc.)
z spontaneous potential or potential

mechanical log types:

b cement bond
c caliper
o other[1]
p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708702636	3/5/2013	0

There is no Sample data for this well

2636

Production First 24 Hours from { ..... Sand ..... Bbls. Approved. 87-026367
..... Sand ..... Bbls. By ..... Supt.

Owner: J. L. Combs Farm, No. of Lease ..... No. Acres.
Smithfield District Lomax County Wetzel State.
Well No. 5 Date of Location ..... 19.....
Rig Commenced June 3 1913 } ..... Contractor.
Rig Completed June 17 1913 }
Drilling Commenced 7/14/13 1913 } ..... Contractor.
Drilling Completed 9/6/13 1913 }

CASING RECORD

Size	Charged to Well Feet	In.	Put in Well Feet	In.	Bottom of Casing Feet	In.	Pulled out of Well Feet	In.	Left in Well Feet	In.	Transferred Before Completion Feet	In.	Left at Well not in use Feet	In.
10	215		215				215							
8¼	735		735				735							
6⅝	1947		1947						1947					

RECEIVED
Office of Oil & Gas
APR 02 2012
WV Department of Environmental Protection

2065 ft 2" N.S.E. Hg - 102 Gto

Formation	Top	Bottom	Remarks
Conductor		16	
Little Dunkard	680	710	
Big Dunkard	720	835	
Salt Sand	1550	1725	
Water E.F.	1685		
~~Red Rock~~	1730	1735	
Maxon Sand	1840	1867	
Little Lime	1867	1918	
Pencil Cave	1918	1921	
Big Lime	1921	2035	
Big Injun Sand	2035	2061	
Oil & Gas	2043		
Total Depth		2065	
Fifty Foot Sand,			
Thirty Foot Sand,			
Stray Sand,			
Gordon Sand,			
Gas,			
1st Pay,			
2nd Pay,			
Fourth Sand,			
Fifth Sand			

SHOT RECORD

Month	Day	Yr.	Size Shot	Length of Shell	Top of 1st Shell	Top of 2nd Shell
Sept	8	13	20	20	2040	2060

REMARKS:
6⅝ Steel Line 1928
Shoe on bottom 6⅝ csg.
11/23/1924
1992 ft OD 5¾ Casing - 91 Jts
5-3/16 x 6¾ no [illegible]

Abandoned ..... 19.....

Size	Casing Pulled	Casing Left in

2636

WR-38
Rev. 5/08

API # 47-8702636

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: ~~Jack Strickland~~ W. M. Looney Operator Well No.: # 5

LOCATION: Elevation: ~~1023'~~ 1078' Quadrangle: Tariff
District: Smithfield County: Roane
Latitude: _____ Feet South of _____ Deg. _____ Min. _____ Sec.
Longitude: _____ Feet West of _____ Deg. _____ Min. _____ Sec.

Northing 4278187.30
Easting 481678.10

Well Type: OIL ✓ GAS _____

Company Triad Hunter
5669 Wallback Rd.
Wallback WV. 25285

Coal Operator or Owner No Coal

Agent Tim Keaton

Coal Operator or Owner

Permit Issued Date 5/2/2012

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

Rick Duckworth and Robert Stewart being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 28/ day of Feb., 2013 and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement	2060'	1940'	990' of 4½"	881' of 4½"
Cement	1650'	1550'		
Cement	1075'	975'		1941 of 7 "xx
Cement	100'	0'		
Gel between all plugs				

Description of monument: 7" pipe with API numbers and that the work of plugging and filling said well was completed on the 5 day of March, 20 2013

And further deponents saith not. Rick Duckworth
Robert Stewart

Sworn and subscribe before me this 9 day of October, 20 13

My commission expires April 12, 2021 Patricia Summers
Notary Public

RECEIVED
Office of Oil and Gas
Official Seal
Notary Public, State of West Virginia
Patricia L. Summers
[illegible] Rd.
[illegible]
My commission expires April 12, 2021
WV Department of Environmental Protection

Affidavit reviewed by the Office of Oil and Gas: [signature] Title: Inspector

Did not witness all plugs

"Pipeline"

Select County: (087) Roane
Enter Permit #: 2637
Get Data | Reset

Select datatypes: (Check All)
Location, Production, Plugging, Owner/Completion, Stratigraphy, Sample, Pay/Show/Water, Logs, Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 87 Permit = 2637

Report Time: Thursday, April 30, 2020 9:56:05 AM

Location Information:

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708702637	Roane	2637	Smithfield	Tariff	Otter	38.655448	-81.208911	481822.6	4278563.1

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708702637	3/24/1911	Original Loc	Completed	W M Looney	6					South Penn Oil (S. Penn Nat. Gas)			
4708702637	4/30/1913	Worked Over	Completed	W M Looney	6					South Penn Oil (S. Penn Nat. Gas)			
4708702637	2/23/1939	Worked Over	Completed	W M Looney	6					Pennzoil Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT
4708702637	3/24/1911	2/9/1911	1170	Topo Estimation	Tariff(Tlmn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Development Well	Development Well	Oil	Cable Tool	Nat/Open H	2234		2234		0	0	30	0			0	0	0
4708702637	4/30/1913	-/-/-	1170	Topo Estimation	Tariff(Tlmn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Development Well	Development Well	Oil	unknown	Shot	2234		0		0	0	0	0			0	0	0
4708702637	2/23/1939	-/-/-	1170	Topo Estimation	Tariff(Tlmn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Development Well	Development Well	Oil	unknown	Shot	2234		0		0	0	0	0			0	0	0

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708702637	4/30/1913	Pay	Oil & Gas	Vertical			0	Big Injun (Price&eq)	0	0			
4708702637	3/24/1911	Pay	Oil	Vertical	2204	Big Injun (Price&eq)	0		0	30			
4708702637	2/23/1939	Pay	Oil & Gas	Vertical	2207	Big Injun (Price&eq)	2230	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702637	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702637	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708702637	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708702637	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702637	Pennzoil Products Company	1989	3,833	285	229	372	235	236	309	471	293	439	337	274	353
4708702637	Pennzoil Products Company	1990	1,802	232	170	220	200	161	113	145	109	128	107	108	109
4708702637	Pennzoil Products Company	1991	496	92	76	90	44	59	25	28	26	12	20	10	14
4708702637	Pennzoil Products Company	1992	150	6	7	14	9	16	14	12	19	18	16	11	8
4708702637	Pennzoil Products Company	1993	94	7	6	11	4	6	16	21	4	4	8	0	7
4708702637	Pennzoil Products Company	1994	32	9	5	3	0	0	0	0	0	5	0	7	3
4708702637	Pennzoil Products Company	1995	5	0	5	0	0	0	0	0	0	0	0	0	0
4708702637	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702637	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708702637	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708702637	Triad Resources, Inc.	2004	10	0	0	0	10	0	0	0	0	0	0	0	0
4708702637	Triad Resources, Inc.	2005	5	5	0	0	0	0	0	0	0	0	0	0	0
4708702637	Triad Resources, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702637	Triad Resources, Inc.	2007	5	0	0	0	0	0	0	0	0	0	0	0	5
4708702637	Triad Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702637	Triad Resources, Inc.	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702637	Triad Hunter LLC	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702637	Triad Hunter LLC	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702637	Triad Hunter LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702637	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702637	Triad Hunter LLC	2014	14	0	0	0	0	1	3	2	2	2	2	1	1
4708702637	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702637	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702637	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702637	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702637	Pennzoil Company	1981	101	0	0	0	0	0	0	0	0	0	0	0	0
4708702637	Pennzoil Company	1982	248	0	0	0	0	0	0	0	0	0	0	0	0
4708702637	Pennzoil Company	1983	438	0	0	0	0	0	0	0	0	0	0	0	0
4708702637	Pennzoil Company	1984	1,012	0	0	0	0	0	0	0	0	0	0	0	0
4708702637	Pennzoil Products Company	1989	11,147	1,085	994	940	984	994	793	956	989	824	903	804	881
4708702637	Pennzoil Products Company	1990	4,700	667	669	555	396	420	352	304	311	285	268	246	227
4708702637	Pennzoil Products Company	1991	983	262	131	168	86	77	62	29	54	28	36	13	17
4708702637	Pennzoil Products Company	1992	393	31	22	39	32	27	48	44	42	32	26	24	26
4708702637	Pennzoil Products Company	1993	325	34	18	26	54	57	20	12	27	0	24	32	21
4708702637	Pennzoil Products Company	1994	93	16	0	0	0	0	0	20	0	22	12	0	23
4708702637	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702637	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702637	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708702637	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708702637	Triad Resources, Inc.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702637	Triad Resources, Inc.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702637	Triad Resources, Inc.	2006	5	0	5	0	0	0	0	0	0	0	0	0	0
4708702637	Triad Resources, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0

2637

2637

4708702637	Triad Resources, Inc.	2008	2	0	0	0	0	0	0	0	0	0	0	2
4708702637	Triad Resources, Inc.	2009	2	0	0	0	0	0	0	0	0	0	0	2
4708702637	Triad Hunter LLC	2010	2	0	0	0	0	0	0	0	0	0	0	2
4708702637	Triad Hunter LLC	2011	2	0	0	0	0	0	0	0	0	0	0	2
4708702637	Triad Hunter LLC	2012	1	0	0	0	0	0	0	0	0	0	0	1
4708702637	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0
4708702637	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0
4708702637	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0
4708702637	Triad Hunter LLC	2016	0											
4708702637	Ground Resources, LLC	2017	0											
4708702637	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702637	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702637	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702637	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702637	Triad Hunter LLC	2016	0												
4708702637	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702637	Triad Hunter LLC	2016	0												
4708702637	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708702637	Original Loc	Buffio Ss/1st Cow Rn	Well Record	832	Reasonable	15	Reasonable	1170	Topo Estimation
4708702637	Original Loc	Mahonig Ss/Big Dunk	Well Record	880	Reasonable	100	Reasonable	1170	Topo Estimation
4708702637	Original Loc	Salt Sands (undiff)	Well Record	1717	Reasonable	283	Reasonable	1170	Topo Estimation
4708702637	Original Loc	Maxton	Well Record	2015	Reasonable	30	Reasonable	1170	Topo Estimation
4708702637	Original Loc	Little Lime	Well Record	2045	Reasonable	36	Reasonable	1170	Topo Estimation
4708702637	Original Loc	Big Lime	Well Record	2088	Reasonable	110	Reasonable	1170	Topo Estimation
4708702637	Original Loc	Big Injun (Price Sen)	Well Record	2198	Reasonable	0	Reasonable	1170	Topo Estimation

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_I
4708702637	0	2238		G C *	Y	N	0	2238											0	2230	N	Y	N						

Comment: *logs: caliper.CCL

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708702637gco.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

2637

Well No. 6 W. M. Looney Farm.
Lease No. Smithfield District Roane County.
Rig built by W. B. Wilson
Well drilled by S P D T Ac Contractor.
Began drilling Feby 9 1901 Completed March 24 1901

ROCK FORMATION	TOP	BOTTOM	REMARKS
Conductor		13	
Little Dunkard	832	847	
Big Do	880	980	
Salt Sand	1717	2000	
Maxon "	2015	2045	
Little Lime	2045	2081	
Big Lime	2088	2198	
Big Injun	2198	2234	
Oil	2204		
Total depth		2234	

Shot 2-23-39-50 Qts. @ 2207-2230. Results - Good.

CASING RECORD

	CHARGED TO WELL		PUT IN WELL		PULLED OUT		LEFT IN WELL		Transferred before Completion		Left at Well Not in Use	
Size	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.
10			255		255				Shot 4/30/13		40 [illegible]	
3 1/4			397		397							
6 1/5			2121									

Production First 24 Hours } 30 Bbls. Signed John C. Ford Supt.

2639

WVGES GEOLOGY UNDERLIES IT ALL "Pipeline"

Select County: (087) Roane
Enter Permit #: 2639
Get Data | Reset

Select datatypes: (Check All)
Location | Production | Plugging
Owner/Completion | Stratigraphy | Sample
Pay/Show/Water | Logs | Btm Hole Loc

Table Descriptions
County Code Translation
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 2639

Report Time: Monday, May 18, 2020 8:20:14 AM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708702639	Roane	2639	Smithfield	Tariff	Otter	38.650852	-81.213535	481419.1	4278065.1

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708702639	4/24/1911	Original Loc	Completed	W M Looney		8				South Penn Oil (S. Penn Nat. Gas)			
4708702639	6/18/1913	Worked Over	Completed	W M Looney		8				South Penn Oil (S. Penn Nat. Gas)			
4708702639	6/11/1931	Worked Over	Completed	W M Looney		8				South Penn Oil (S. Penn Nat. Gas)			
4708702639	2/11/1942	Worked Over	Completed	W M Looney		8				Pennzoil Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT
4708702639	4/24/1911	3/9/1911	1120	Ground Level	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	Cable Tool	Shot	2172		2172		0	0	25	0			0	0	0
4708702639	6/18/1913	-/-/-	1120	Topo Estimation	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Development Well	Development Well	Gas w/ Oil Show	unknown	Shot	2172		0		0	0	0	0			0	0	0
4708702639	6/11/1931	-/-/-	1120	Topo Estimation	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	unknown	Shot	2172		0		0	0	0	0			0	0	0
4708702639	2/11/1942	-/-/-	1120	Topo Estimation	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	unknown	Shot	2172		0		0	0	0	0			0	0	0

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_ONTY
4708702639	6/18/1913	Pay	Oil & Gas	Vertical			0	Big Injun (Price&eq)	0	0			
4708702639	4/24/1911	Show	Gas	Vertical			2141	Big Injun (Price&eq)	0	0			
4708702639	4/24/1911	Pay	Oil	Vertical			2141	Big Injun (Price&eq)	0	25			
4708702639	6/11/1931	Pay	Oil & Gas	Vertical	2145	Big Injun (Price&eq)	2160	Big Injun (Price&eq)	0	0			
4708702639	2/11/1942	Pay	Oil & Gas	Vertical	2150	Big Injun (Price&eq)	2172	Big Injun (Price&eq)	0	0			

Production Gas Information: Volumes in Mcf * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702639	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702639	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708702639	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708702639	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702639	Pennzoil Products Company	1989	2,404	245	170	274	173	201	206	175	215	216	172	156	201
4708702639	Pennzoil Products Company	1990	938	142	88	92	79	102	0	91	77	75	18	81	92
4708702639	Pennzoil Products Company	1991	738	92	85	72	72	64	44	66	47	73	41	42	40
4708702639	Pennzoil Products Company	1992	369	46	41	36	48	30	18	38	25	17	26	26	18
4708702639	Pennzoil Products Company	1993	261	14	13	18	14	30	21	23	11	18	20	21	58
4708702639	Pennzoil Products Company	1994	98	11	10	7	15	12	10	15	11	5	0	1	1
4708702639	Pennzoil Products Company	1995	139	2	0	0	97	35	5	0	0	0	0	0	0
4708702639	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702639	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708702639	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708702639	Triad Resources, Inc.	2004	10	0	0	0	10	0	0	0	0	0	0	0	0
4708702639	Triad Resources, Inc.	2005	5	5	0	0	0	0	0	0	0	0	0	0	0
4708702639	Triad Resources, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702639	Triad Resources, Inc.	2007	5	0	0	0	0	0	0	0	0	0	0	0	5
4708702639	Triad Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702639	Triad Resources, Inc.	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702639	Triad Hunter LLC	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702639	Triad Hunter LLC	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702639	Triad Hunter LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702639	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702639	Triad Hunter LLC	2014	21	0	0	0	0	3	1	2	3	3	3	3	3
4708702639	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702639	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702639	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702639	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: Volumes in Bbl ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702639	Pennzoil Company	1981	101	0	0	0	0	0	0	0	0	0	0	0	0
4708702639	Pennzoil Company	1982	248	0	0	0	0	0	0	0	0	0	0	0	0
4708702639	Pennzoil Company	1983	438	0	0	0	0	0	0	0	0	0	0	0	0
4708702639	Pennzoil Company	1984	1,012	0	0	0	0	0	0	0	0	0	0	0	0
4708702639	Pennzoil Products Company	1989	6,773	800	675	803	657	368	583	471	505	468	498	491	454
4708702639	Pennzoil Products Company	1990	2,889	280	264	351	313	262	247	178	55	213	227	245	254
4708702639	Pennzoil Products Company	1991	1,792	213	214	203	152	179	114	190	111	113	100	107	96
4708702639	Pennzoil Products Company	1992	814	82	117	76	40	84	64	43	67	74	61	47	59
4708702639	Pennzoil Products Company	1993	920	55	71	126	71	63	52	53	67	64	215	38	45
4708702639	Pennzoil Products Company	1994	273	34	54	40	30	49	36	18	0	4	4	4	0
4708702639	Pennzoil Products Company	1995	73	0	31	36	6	0	0	0	0	0	0	0	0
4708702639	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702639	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12

2639

4708702639	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708702639	Triad Resources, Inc.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702639	Triad Resources, Inc.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702639	Triad Resources, Inc.	2006	5	0	5	0	0	0	0	0	0	0	0	0	0
4708702639	Triad Resources, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702639	Triad Resources, Inc.	2008	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702639	Triad Resources, Inc.	2009	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702639	Triad Hunter LLC	2010	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702639	Triad Hunter LLC	2011	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702639	Triad Hunter LLC	2012	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702639	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702639	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702639	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702639	Triad Hunter LLC	2016	0												
4708702639	Ground Resources, LLC	2017	0												
4708702639	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702639	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702639	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702639	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702639	Triad Hunter LLC	2016	0												
4708702639	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702639	Triad Hunter LLC	2016	0												
4708702639	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708702639	Original Loc	Buffio Ss/1st Cow Rn	Well Record	755	Reasonable	20	Reasonable	1120	Topo Estimation
4708702639	Original Loc	Mahonig Ss/Big Dunk	Well Record	790	Reasonable	142	Reasonable	1120	Topo Estimation
4708702639	Original Loc	Lo Frprt Ss/Frprt Ss	Well Record	1030	Reasonable	90	Reasonable	1120	Topo Estimation
4708702639	Original Loc	Salt Sands (undiff)	Well Record	1640	Reasonable	260	Reasonable	1120	Topo Estimation
4708702639	Original Loc	Maxton	Well Record	1910	Reasonable	30	Reasonable	1120	Topo Estimation
4708702639	Original Loc	Little Lime	Well Record	1940	Reasonable	50	Reasonable	1120	Topo Estimation
4708702639	Original Loc	Pencil Cave	Well Record	1991	Reasonable	5	Reasonable	1120	Topo Estimation
4708702639	Original Loc	Big Lime	Well Record	2033	Reasonable	102	Reasonable	1120	Topo Estimation
4708702639	Original Loc	Big Injun (Price&eq)	Well Record	2135	Reasonable	0	Reasonable	1120	Topo Estimation

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708702639	0	2170		G C *	Y	N		170											0	2163	N	Y	N						

Comment: *logs: caliper, CCL

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708702639gco.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron–SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

2639

Well No. 8 W. M. Looney Farm.
Lease No. Smithfield District Kane County.
Rig built by W. B. Wilson & Son
Well drilled by J. P. K. Fac Contractor.
Began drilling March 9 1901 Completed April 24 1901

ROCK FORMATION	TOP	BOTTOM	REMARKS
Conductor		16	
Little Dunkard	755	775	
Big Do	790	932	
Gas Sand	1050	1120	
Salt Sand	1640	1900	
Water	1732		
Maxon Sand	1910	1940	
Little Lime	1940	1991	
Pencil Cav.	1991	1996	
Big Lime	2035	2135	
Big Injun	2135	2172	
Oil and Gas	2141		
Total Depth		2172	

CASING RECORD

	CHARGED TO WELL		PUT IN WELL		PULLED OUT		LEFT IN WELL		Transferred before Completion		Left at Well Not in Use	
Size	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.
10			262						Shot 6/15/13 -		40 gt	2 Inj
8 1/4			350						" 6/18/13 -		40	" "
6 5/8			2055						" 4/25/11 -		30	" "
									" 4/11/31 -		60	2145-60
	Shot 2-11-42-90 Qts. C 2150-2172 ft.											

Production First 24 Hours } 25 Bbls. Signed John C. Fac Supt.

2641

WVGES
GEOLOGY UNDERLIES IT ALL
"Pipeline"

Select County: (087) Roane
Enter Permit #: 2641
Get Data | Reset

Select datatypes: (Check All)
Location | Production | Plugging
Owner/Completion | Stratigraphy | Sample
Pay/Show/Water | Logs | Btm Hole Loc

Table Descriptions
County Code Translation
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 2641

Report Time: Monday, May 18, 2020 8:33:21 AM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_76	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708702641	Roane	2641	Smithfield	Tariff	Otter	38.656173	-81.211871	481565.3	4278644.1

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708702641	11/29/1911	Original Loc	Completed	W M Looney	10					South Penn Oil (S. Penn Nat. Gas)			
4708702641	5/4/1944	Worked Over	Completed	W M Looney	10					Pennzoil Company			
4708702641	5/1/1944	Worked Over	Completed	W M Looney	10					Pennzoil Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	ROD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_A
4708702641	11/29/1911	10/29/1911	980	Topo Estimation	Tariff(Tlmn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil	Cable Tool	Shot	2095	2095	0	0	20	0					0	0	
4708702641	5/4/1944	-/-/-	980	Topo Estimation	Tariff(Tlmn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	unknown	Shot	2095		0	0	0	0					0	0	
4708702641	5/1/1944	-/-/-	980	Topo Estimation	Tariff(Tlmn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil	unknown	Shot	2095		0	0	0	0					0	0	

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708702641	11/29/1911	Pay	Oil	Vertical	2065	Big Injun (Price&eq)	0		0	20			
4708702641	5/4/1944	Pay	Oil & Gas	Vertical	1914	Little Lime	1953	Little Lime	0	0			
4708702641	5/4/1944	Pay	Oil & Gas	Vertical	2069	Big Injun (Price&eq)	2093	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702641	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702641	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708702641	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708702641	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702641	Pennzoil Products Company	1989	1,070	69	65	92	58	72	97	126	95	128	94	76	98
4708702641	Pennzoil Products Company	1990	739	58	43	93	72	56	66	68	42	59	59	56	67
4708702641	Pennzoil Products Company	1991	474	41	45	43	38	44	32	42	49	34	34	32	40
4708702641	Pennzoil Products Company	1992	389	35	43	30	29	41	24	39	29	33	31	32	23
4708702641	Pennzoil Products Company	1993	171	19	14	20	10	3	15	17	11	16	13	20	13
4708702641	Pennzoil Products Company	1994	156	21	12	8	12	8	17	13	10	18	14	9	14
4708702641	Pennzoil Products Company	1995	82	2	8	5	3	8	8	8	9	3	10	7	11
4708702641	Pennzoil Products Company	1996	47	8	4	4	6	6	10	9	0	0	0	0	0
4708702641	Pennzoil Products Company	1997	22	4	4	2	4	3	3	0	0	0	1	0	1
4708702641	Pennzoil Products Company	1998	75	0	0	7	9	9	10	10	9	10	11	0	0
4708702641	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708702641	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708702641	Triad Resources, Inc.	2004	88	6	5	8	9	9	11	8	9	11	8	4	0
4708702641	Triad Resources, Inc.	2005	5	5	0	0	0	0	0	0	0	0	0	0	0
4708702641	Triad Resources, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702641	Triad Resources, Inc.	2007	5	0	0	0	0	0	0	0	0	0	0	0	5
4708702641	Triad Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702641	Triad Resources, Inc.	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702641	Triad Hunter LLC	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702641	Triad Hunter LLC	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702641	Triad Hunter LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702641	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702641	Triad Hunter LLC	2014	16	0	0	0	0	2	1	1	3	3	2	2	2
4708702641	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702641	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702641	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702641	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEM
4708702641	Pennzoil Company	1981	101	0	0	0	0	0	0	0	0	0	0	0	0
4708702641	Pennzoil Company	1982	248	0	0	0	0	0	0	0	0	0	0	0	0
4708702641	Pennzoil Company	1983	438	0	0	0	0	0	0	0	0	0	0	0	0
4708702641	Pennzoil Company	1984	1,012	0	0	0	0	0	0	0	0	0	0	0	0
4708702641	Pennzoil Products Company	1989	3,134	267	316	287	308	265	258	278	275	229	225	202	224
4708702641	Pennzoil Products Company	1990	2,136	281	240	192	224	198	135	142	170	148	164	110	132
4708702641	Pennzoil Products Company	1991	1,276	126	112	143	111	114	119	89	93	85	100	80	104
4708702641	Pennzoil Products Company	1992	912	68	70	101	56	85	74	82	79	93	78	64	62
4708702641	Pennzoil Products Company	1993	591	63	47	13	51	47	50	46	43	60	46	73	52
4708702641	Pennzoil Products Company	1994	497	40	41	29	52	41	35	64	49	29	48	30	39
4708702641	Pennzoil Products Company	1995	414	44	24	36	33	36	36	12	37	25	36	53	42
4708702641	Pennzoil Products Company	1996	222	39	34	28	36	23	0	0	0	0	0	34	28
4708702641	Pennzoil Products Company	1997	169	24	51	44	35	15	0	0	0	0	0	0	0
4708702641	Pennzoil Products Company	1998	292	40	35	40	33	27	30	33	38	16	0	0	0
4708702641	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12

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4708702641	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	26	28	30	38	50	45
4708702641	Triad Resources, Inc.	2004	329	31	31	31	31	30	30	22	28	24	23	21	27
4708702641	Triad Resources, Inc.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702641	Triad Resources, Inc.	2006	5	0	5	0	0	0	0	0	0	0	0	0	0
4708702641	Triad Resources, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702641	Triad Resources, Inc.	2008	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702641	Triad Resources, Inc.	2009	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702641	Triad Hunter LLC	2010	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702641	Triad Hunter LLC	2011	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702641	Triad Hunter LLC	2012	1	0	0	0	0	0	0	0	0	0	0	0	1
4708702641	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702641	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702641	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702641	Triad Hunter LLC	2016	0												
4708702641	Ground Resources, LLC	2017	0												
4708702641	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil [illegible] H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702641	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702641	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702641	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702641	Triad Hunter LLC	2016	0												
4708702641	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702641	Triad Hunter LLC	2016	0												
4708702641	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708702641	Original Loc	Mahonig Ss/Big Dunk	Well Record	748	Reasonable	122	Reasonable	980	Topo Estimation
4708702641	Original Loc	Salt Sands (undiff)	Well Record	1590	Reasonable	230	Reasonable	980	Topo Estimation
4708702641	Original Loc	Little Lime	Well Record	1915	Reasonable	38	Reasonable	980	Topo Estimation
4708702641	Original Loc	Pencil Cave	Well Record	1953	Reasonable	15	Reasonable	980	Topo Estimation
4708702641	Original Loc	Big Lime	Well Record	1968	Reasonable	90	Reasonable	980	Topo Estimation
4708702641	Original Loc	Big Injun (Price&eq)	Well Record	2058	Reasonable	35	Reasonable	980	Topo Estimation
4708702641	Original Loc	Undf PRICE blw INJN	Well Record	2093	Reasonable	0	Reasonable	980	Topo Estimation

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FTO
4708702641	0	2101		G,C *	Y	N	4	2101											0	2100	N	N	N						

Comment: *logs: caliper, CCL

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708702641gco.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron–SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL–casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL–Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

2641

Well No. 10 W M Looney Farm.
Lease No. Smithfield District Roane County.
Rig built by S P D Co
Well drilled by S P D Co Contractor.
Began drilling Oct 28 1901 Completed Nov 29 1901

ROCK FORMATION	TOP	BOTTOM	REMARKS
Conductor		16	
Big Dunkard	748	870	
Salt Sand	1590	1820	
Water	1600		
Little Lime	1915	1953	
Waterhole full	1953		
Pencil Cave	1953	1968	
Big Lime	1968	2058	
Big Injun Sand	2058	2093	
Oil	2065		
Total depth		2095	
			Shot 5/4/44 35 Qts 2069-2093 Ft.
			Shot 5/4/44 40 Qts 1914-1936 Ft. ?

CASING RECORD

Size	CHARGED TO WELL Feet	In.	PUT IN WELL Feet	In.	PULLED OUT Feet	In.	LEFT IN WELL Feet	In.	Transferred before Completion Feet	In.	Left at Well Not in Use Feet	In.
10			234		234				Shot 12/2/11 - 20 qt - 39 Inj.			
8 1/4			751		751							
6 5/8			1973									

Production First 24 Hours 20 Bbls. Signed John C Ford Supt.

2643

"Pipeline"

Select County: (087) Roane
Enter Permit #: 2643
Get Data | Reset

Select datatypes: (Check All)
☑ Location ☑ Production ☑ Plugging
☑ Owner/Completion ☑ Stratigraphy ☑ Sample
☑ Pay/Show/Water ☑ Logs ☑ Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Con act Infor
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 87 Permit = 2643

Report Time: Monday, May 18, 2020 8:37:45 AM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708702643	Roane	2643	Smithfield	Tariff	Otter	38.659508	-81.212981	481469.6	4279014.5

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708702643	5/18/1912	Original Loc	Completed	W M Looney	12					South Penn Oil (S. Penn Nat. Gas)			
4708702643	4/22/1942	Worked Over	Completed	W M Looney	12					Pennzoil Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AF
4708702643	5/18/1912	4/13/1912	895	Topo Estimation	Tariff(Timn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	Cable Tool	Shot	1943	1943		0	0	0	0	0			0	0	
4708702643	4/22/1942	-/-/-	985	Topo Estimation	Tariff(Timn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	unknown	Shot	1943		0	0	0	0	0	0			0	0	

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708702643	5/18/1912	Pay	Oil & Gas	Vertical	1908	Big Injun (Price&eq)	0		0	0			
4708702643	5/18/1912	Show	Oil	Vertical			1842	Big Lime	0	0			
4708702643	4/22/1942	Pay	Oil & Gas	Vertical	1913	Big Injun (Price&eq)	1933	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H&A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702643	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702643	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708702643	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708702643	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702643	Pennzoil Products Company	1989	149	10	6	10	6	7	7	12	9	11	9	27	35
4708702643	Pennzoil Products Company	1990	1,605	113	67	160	126	138	123	148	125	180	148	140	137
4708702643	Pennzoil Products Company	1991	1,141	111	104	110	115	100	81	109	96	91	65	76	83
4708702643	Pennzoil Products Company	1992	1,078	86	80	88	75	77	100	120	99	97	97	85	74
4708702643	Pennzoil Products Company	1993	687	68	60	82	47	57	45	73	38	63	53	55	46
4708702643	Pennzoil Products Company	1994	451	31	38	29	49	44	42	41	35	38	46	31	27
4708702643	Pennzoil Products Company	1995	344	65	24	24	14	18	16	32	30	28	31	27	35
4708702643	Pennzoil Products Company	1996	203	36	14	13	13	7	18	13	8	13	22	22	24
4708702643	Pennzoil Products Company	1997	58	20	14	7	2	5	9	1	0	0	0	0	0
4708702643	Pennzoil Products Company	1998	79	0	0	4	7	9	6	11	12	14	16	0	0
4708702643	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708702643	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708702643	Triad Resources, Inc.	2004	88	6	5	8	9	9	11	8	9	11	8	4	0
4708702643	Triad Resources, Inc.	2005	101	9	5	12	2	3	7	8	12	10	12	12	9
4708702643	Triad Resources, Inc.	2006	93	10	7	7	6	8	8	8	8	8	8	8	7
4708702643	Triad Resources, Inc.	2007	62	8	7	7	5	2	2	6	6	6	4	5	4
4708702643	Triad Resources, Inc.	2008	72	5	4	4	4	3	5	4	3	7	8	11	14
4708702643	Triad Resources, Inc.	2009	33	8	3	3	3	5	5	3	0	0	1	1	1
4708702643	Triad Hunter LLC	2010	39	6	2	3	3	3	5	5	4	3	3	2	0
4708702643	Triad Hunter LLC	2011	11	1	1	1	1	0	3	1	1	1	1	0	0
4708702643	Triad Hunter LLC	2012	15	1	1	1	2	2	2	1	2	2	1	0	0
4708702643	Triad Hunter LLC	2013	12	1	1	1	1	1	1	1	1	1	1	1	1
4708702643	Triad Hunter LLC	2014	8	1	1	1	0	1	0	1	0	1	1	1	0
4708702643	Triad Hunter LLC	2015	6	0	0	0	1	3	1	1	0	0	0	0	0
4708702643	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702643	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702643	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H&A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702643	Pennzoil Company	1981	101	0	0	0	0	0	0	0	0	0	0	0	0
4708702643	Pennzoil Company	1982	248	0	0	0	0	0	0	0	0	0	0	0	0
4708702643	Pennzoil Company	1983	438	0	0	0	0	0	0	0	0	0	0	0	0
4708702643	Pennzoil Company	1984	1,012	0	0	0	0	0	0	0	0	0	0	0	0
4708702643	Pennzoil Products Company	1989	1,367	29	25	26	22	26	24	24	25	82	342	393	349
4708702643	Pennzoil Products Company	1990	4,805	484	421	472	423	429	404	429	431	368	336	295	311
4708702643	Pennzoil Products Company	1991	3,016	322	340	321	260	297	231	237	179	204	211	201	192
4708702643	Pennzoil Products Company	1992	2,802	201	181	189	232	263	250	244	248	245	252	234	263
4708702643	Pennzoil Products Company	1993	2,231	254	232	235	157	202	183	183	176	167	169	107	166
4708702643	Pennzoil Products Company	1994	1,557	139	171	153	132	134	119	138	158	101	92	121	99
4708702643	Pennzoil Products Company	1995	1,367	97	70	80	68	138	115	143	146	132	161	122	95
4708702643	Pennzoil Products Company	1996	722	76	71	40	59	33	60	28	65	69	77	84	60
4708702643	Pennzoil Products Company	1997	171	36	39	41	39	16	0	0	0	0	0	0	0
4708702643	Pennzoil Products Company	1998	386	43	38	44	37	33	33	37	42	37	42	0	0
4708702643	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708702643	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708702643	Triad Resources, Inc.	2004	329	31	31	31	31	30	30	22	28	24	23	21	27

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4708702643	Triad Resources, Inc.	2005	136	12	8	9	11	9	14	11	11	12	16	13	10
4708702643	Triad Resources, Inc.	2006	140	8	11	12	14	8	9	12	11	15	11	13	16
4708702643	Triad Resources, Inc.	2007	162	13	16	10	18	13	15	13	14	12	13	12	13
4708702643	Triad Resources, Inc.	2008	167	13	18	9	16	11	8	14	14	19	17	11	17
4708702643	Triad Resources, Inc.	2009	108	4	0	10	15	13	10	9	9	8	12	10	8
4708702643	Triad Hunter LLC	2010	55	11	2	9	2	2	10	2	2	11	2	2	0
4708702643	Triad Hunter LLC	2011	109	8	11	9	8	9	9	9	9	9	10	11	7
4708702643	Triad Hunter LLC	2012	93	5	7	6	5	8	11	4	12	9	9	7	10
4708702643	Triad Hunter LLC	2013	97	9	9	11	7	9	10	5	8	6	6	8	9
4708702643	Triad Hunter LLC	2014	91	7	6	8	8	8	7	6	9	8	7	8	9
4708702643	Triad Hunter LLC	2015	75	8	5	3	8	6	8	6	3	7	5	11	5
4708702643	Triad Hunter LLC	2016	0												
4708702643	Ground Resources, LLC	2017	0												
4708702643	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702643	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702643	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702643	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702643	Triad Hunter LLC	2016	0												
4708702643	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702643	Triad Hunter LLC	2016	0												
4708702643	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708702643	Original Loc	Mahonig Ss/Big Dunk	Well Record	575	Reasonable	170	Reasonable	985	Topo Estimation
4708702643	Original Loc	Salt Sands (undiff)	Well Record	1410	Reasonable	230	Reasonable	985	Topo Estimation
4708702643	Original Loc	Maxton	Well Record	1720	Reasonable	25	Reasonable	985	Topo Estimation
4708702643	Original Loc	Little Lime	Well Record	1750	Reasonable	35	Reasonable	985	Topo Estimation
4708702643	Original Loc	Pencil Cave	Well Record	1785	Reasonable	12	Reasonable	985	Topo Estimation
4708702643	Original Loc	Big Lime	Well Record	1797	Reasonable	105	Reasonable	985	Topo Estimation
4708702643	Original Loc	Big Injun (Price&eq)	Well Record	1902	Reasonable	38	Reasonable	985	Topo Estimation
4708702643	Original Loc	Undf PRICE blw INJN	Well Record	1940	Reasonable	0	Reasonable	985	Topo Estimation

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708702643	0	1925		G C *	Y	N	7	1925											0	1918	N	Y	N						

Comment: *logs: caliper, CCL

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron–SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL–casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL–Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

2643

Well No. 12 W. M. Looney Farm.
Lease No. Smithfield District Rogue County.
Rig built by S. P. O. Co
Well drilled by S P D Co Contractor.
Began drilling April 13 1902 Completed May 18" 1902

ROCK FORMATION	TOP	BOTTOM	REMARKS
Conductor		32	
Big Sunkard	575	745	
Salt Sand	1410	1640	
Water	1535		
Maxon Sand	1720	1745	
Little Lime	1750	1785	
Pencil Cave	1785	1797	
Big Lime	1747	1902	
Oil & Water	1842		
Big Injun Sand	1902	1940	
Oil & Gas	1908		
Total Depth		1943	

Shot 4-22-42-30 Hrs. @ 1913-1933 ft. Bomb Shot

CASING RECORD

Size	CHARGED TO WELL Feet	In.	PUT IN WELL Feet	In.	PULLED OUT Feet	In.	LEFT IN WELL Feet	In.	Transferred before Completion Feet	In.	Left at Well Not in Use Feet	In.
10			143		193							
8 1/4			626		626							
6 5/8			1814									

Production First 24 Hours Bbls. Signed John Starkey Supt

2644

WVGES
GEOLOGY UNDERLIES IT ALL
"Pipeline"

Select County: (087) Roane
Enter Permit #: 2644
Get Data | Reset

Select datatypes: (Check All)
Location | Production | Plugging
Owner/Completion | Stratigraphy | Sample
Pay/Show/Water | Logs | Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 2644

Report Time: Monday, May 18, 2020 9:48:34 AM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708702644	Roane	2644	Smithfield	Tariff	Otter	38.661829	-81.214646	481325.3	4279272.3

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708702644	12/14/1912	Original Loc	Completed	W M Looney	15					South Penn Oil (S. Penn Nat. Gas)			
4708702644	6/14/1944	Worked Over	Completed	W M Looney	15					Pennzoil Company			
4708702644	1/15/1992	Worked Over	Completed	James C LLoyd	15		Looney		Keith Crihfield	Pennzoil Products Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_A
4708702644	12/14/1912	10/23/1912	1030	Topo Estimation	Tariff(Tlmn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	Cable Tool	Shot	2082		2082		0	0	8	0			0	0	
4708702644	6/14/1944	-/-/-	1030	Topo Estimation	Tariff(Tlmn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	unknown	Shot	2082		0		0	0	0	0			0	0	
4708702644	1/15/1992	1/15/1992	1061	Ground Level	Tariff(Tlmn)	Price Fm & equiv	Big Injun (Price&eq)	Development Well	Development Well	Oil	unknown	Acid+Frac	2100		0		0	0	0	0			0	0	

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708702644	12/14/1912	Pay	Oil	Vertical	2067	Big Injun (Price&eq)	0		0	8			
4708702644	12/14/1912	Show	Gas	Vertical	2067	Big Injun (Price&eq)	0		0	0			
4708702644	12/14/1912	Show	Oil & Gas	Vertical	1991	Big Lime	1995	Big Lime	0	0			
4708702644	1/15/1992	Pay	Oil	Vertical	2062	Big Injun (Price&eq)	2078	Big Injun (Price&eq)	0	0			
4708702644	6/14/1944	Pay	Oil & Gas	Vertical	2067	Big Injun (Price&eq)	2091	Undf PRICE blw INJN	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702644	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702644	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708702644	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708702644	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702644	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702644	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702644	Pennzoil Products Company	1991	100	0	0	18	11	7	7	10	11	9	8	8	11
4708702644	Pennzoil Products Company	1992	163	11	10	11	1	10	19	26	22	18	11	9	15
4708702644	Pennzoil Products Company	1993	86	7	4	8	5	8	6	9	6	10	9	10	4
4708702644	Pennzoil Products Company	1994	55	6	7	5	9	0	0	5	4	4	4	4	7
4708702644	Pennzoil Products Company	1995	91	12	7	9	6	7	7	7	8	6	7	7	8
4708702644	Pennzoil Products Company	1996	101	8	3	6	7	6	8	12	4	12	12	11	12
4708702644	Pennzoil Products Company	1997	44	10	9	7	2	6	9	1	0	0	0	0	0
4708702644	Pennzoil Products Company	1998	79	0	0	4	7	9	6	11	12	14	16	0	0
4708702644	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708702644	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708702644	Triad Resources, Inc.	2004	88	6	5	8	9	9	11	8	9	11	8	4	0
4708702644	Triad Resources, Inc.	2005	5	5	0	0	0	0	0	0	0	0	0	0	0
4708702644	Triad Resources, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702644	Triad Resources, Inc.	2007	5	0	0	0	0	0	0	0	0	0	0	0	5
4708702644	Triad Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702644	Triad Resources, Inc.	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702644	Triad Hunter LLC	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702644	Triad Hunter LLC	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702644	Triad Hunter LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702644	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702644	Triad Hunter LLC	2014	16	0	0	0	0	2	3	1	3	3	2	1	1
4708702644	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702644	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702644	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702644	Ground Resources, LLC	2018	44	0	0	44	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702644	Pennzoil Company	1981	101	0	0	0	0	0	0	0	0	0	0	0	0
4708702644	Pennzoil Company	1982	248	0	0	0	0	0	0	0	0	0	0	0	0
4708702644	Pennzoil Company	1983	438	0	0	0	0	0	0	0	0	0	0	0	0
4708702644	Pennzoil Company	1984	1,012	0	0	0	0	0	0	0	0	0	0	0	0
4708702644	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702644	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702644	Pennzoil Products Company	1991	327	53	34	22	22	26	26	22	23	22	27	26	24
4708702644	Pennzoil Products Company	1992	399	25	3	25	43	56	54	45	27	26	52	24	19
4708702644	Pennzoil Products Company	1993	311	24	24	34	22	26	29	30	29	29	15	21	28
4708702644	Pennzoil Products Company	1994	200	26	30	0	0	15	13	14	14	13	24	22	29
4708702644	Pennzoil Products Company	1995	358	34	27	31	29	32	31	31	30	33	35	27	18
4708702644	Pennzoil Products Company	1996	424	37	38	37	28	31	35	27	34	35	39	43	40
4708702644	Pennzoil Products Company	1997	174	36	39	44	39	16	0	0	0	0	0	0	0

2644

4708702644	Pennzoil Products Company	1998	386	43	38	44	37	33	33	37	42	37	42	0	0
4708702644	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708702644	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708702644	Triad Resources, Inc.	2004	329	31	31	31	31	30	30	22	28	24	23	21	27
4708702644	Triad Resources, Inc.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702644	Triad Resources, Inc.	2006	5	0	5	0	0	0	0	0	0	0	0	0	0
4708702644	Triad Resources, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702644	Triad Resources, Inc.	2008	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702644	Triad Resources, Inc.	2009	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702644	Triad Hunter LLC	2010	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702644	Triad Hunter LLC	2011	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702644	Triad Hunter LLC	2012	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702644	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702644	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702644	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702644	Triad Hunter LLC	2016	0												
4708702644	Ground Resources, LLC	2017	0												
4708702644	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702644	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702644	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702644	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702644	Triad Hunter LLC	2016	0												
4708702644	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702644	Triad Hunter LLC	2016	0												
4708702644	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708702644	Original Loc	Buffio Ss/1st Cow Rn	Well Record	670	Reasonable	50	Reasonable	1030	Topo Estimation
4708702644	Original Loc	Mahonig Se/Big Dunk	Well Record	750	Reasonable	100	Reasonable	1030	Topo Estimation
4708702644	Original Loc	Lo Frprt Ss/Frprt Ss	Well Record	1400	Reasonable	25	Reasonable	1030	Topo Estimation
4708702644	Original Loc	Salt Sands (undiff)	Well Record	1610	Reasonable	115	Reasonable	1030	Topo Estimation
4708702644	Original Loc	Little Lime	Well Record	1925	Reasonable	15	Reasonable	1030	Topo Estimation
4708702644	Original Loc	Pencil Cave	Well Record	1940	Reasonable	5	Reasonable	1030	Topo Estimation
4708702644	Original Loc	Big Lime	Well Record	1945	Reasonable	107	Reasonable	1030	Topo Estimation
4708702644	Original Loc	Keener	Well Record	2052	Reasonable	10	Reasonable	1030	Topo Estimation
4708702644	Original Loc	Big Injun (Price&eq)	Well Record	2062	Reasonable	16	Reasonable	1030	Topo Estimation
4708702644	Original Loc	Undf PRICE blw INJN	Well Record	2078	Reasonable	0	Reasonable	1030	Topo Estimation

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708702644	0	2070		G C *	Y	N	0	2068											0	2070	N	Y	N						

Comment: *logs: caliper, CCL

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708702644geo.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

2644

...e No. 60215	Acres 480	Farm Name	Looney, W. M.	Well No.	15

S. E. W.		Location Made	Sept. 17, 1912	Purchased From
...il District	Smithfield	Rig Completed	Oct. 17, 1912	Date Purchased
...ty	Roane	Dr'g Commenced	Oct. 23, 1912	Sold to
...	W. Va.	Dr'g Completed	Dec. 14, 1912	Date Sold
... Rights Owned By		Dr'g Contractor	Drlg. Tools Acc't.	Date Abandoned

FORMATION

Kind	Top	Bottom	Steel Line Meas.	Tests
...nductor		16		
...ittle Dunkard	670	720		
...g Dunkard	750	850		
Gas	1400	1425		
...lt Sand	1610	1765		
...ter	1675			
...ate	1775	1790		
...nd	1790	1840		
...late & Red Rock	1840	1850		
...ime	1850	1925		
...ittle Lime	1925	1940		
...ncil Cave	1940	1945		
...g Lime	1945	2052		
Gas & Oil	1990	1995	5 ft	117 to 1[illegible]
...ener Sand	2052	2062		
...g Injun	2062	2078		
Oil & Gas	2067			
...ate	2078	2082		
...g Injun	2082	2097		137 to [illegible]
...late	2097	2100		
Oil & Gas	2082	2097		
...tal Depth		2100		
...T. D.		2082		

087 2644

...l Prod.	Sand	★ At Completion	★ 30 Days After	★
...il				
...as				

CASING RECORD

Size	Bottom Casing Steel Line	Put in Well Tally Meas.	Pulled Tally Meas.	Cemente...
10"		215'	215'	Date
8¼"		752'	752'	Size Csg.
6 5/8"		1952'		Top Csg.
5 3/16"		2016'		Bot. Csg.

PACKERS AND SHOES

Kind	Size	Depth Set	Date Se...
Disc Wall	5 3/16x6 5/8x16	2016	11/25/25

TORPEDO RECORD

Date	No. Qts.	Size Shell	Top Shot	Bottom	Resul...
Dec. 16, '12	20	Marietta Torpedo Co.			
June 14, '44	40	3½"x22'	2067	2097	Bomb

Remarks:

Drilled by C.O. tools from 2082 to 2100
6—8-9-10—1944
Gas by United Fuel Gas Co.
Water by S. P. Water Dept.
4 1/10 water in a 1/4" opening or 3 Mcf

APPROVED

087-2644 F

FORM WW-2B

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: Pennzoil Products Company 37450 (5) 634

2) Operator's Well Number: W.M. LOONEY #15 3) Elevation: 1061'

4) Well type: (a) Oil X/ or Gas __/

(b) If Gas: Production __/ Underground Storage __/
Deep __/ Shallow __/

5) Proposed Target Formation(s): Big Injun

6) Proposed Total Depth: 2100' feet

7) Approximate fresh water strata depths: N/A

8) Approximate salt water depths: N/A

9) Approximate coal seam depths: N/A

10) Does land contain coal seams tributary to active mine? Yes __/ No X/

11) Proposed Well Work: Fracture Big Injun Formation

12)

Frac Existing Well Same Formation

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor						
Fresh Water	6 5/8	- -	- -	1952	1952 OK	Existing Casing
Coal						
Intermediate						
Production	4 1/2	J-55	9.5#	- -	2046.50'	50 Sks. - Existing Casing.
Tubing						
Liners						

13007

RECEIVED
Division of Energy
DEC 06 93

PACKERS : Kind
Sizes
Depths set

13363
30

For Divison of Oil and Gas Use Only

|__| Fee(s) paid: |__| Well Work Permit |__| Reclamation Fund |__| WPCP

|__| Plat |__| WW-9 |__| WW-2B |__| Bond _____ (Type) |__| Agent

WVGES GEOLOGY UNDERLIES IT ALL "Pipeline"

Select County: (087) Roane

Enter Permit #: 2773

Get Data | Reset

Select datatypes: (Check All)

- Location
- Production
- Plugging
- Owner/Completion
- Stratigraphy
- Sample
- Pay/Show/Water
- Logs
- Btm Hole Loc

Table Descriptions
County Code Translation
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 87 Permit = 2773

Report Time: Monday, May 18, 2020 11:49:12 AM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708702773	Roane	2773	Smithfield	Tariff	Otter	38.663859	-81.20165	482456.4	4279495.1

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708702773	3/30/1913	Original Loc	Completed	M J Snodgrass		4				South Penn Oil (S. Penn Nat. Gas)			
4708702773	4/29/1913	Worked Over	Completed	M J Snodgrass		4				South Penn Oil (S. Penn Nat. Gas)			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI
4708702773	3/30/1913	2/20/1913	1060	Topo Estimation	Tariff(Tlmn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil and Gas	Cable Tool	Shot	2160		2160		0	0	0	0			0	0	0	
4708702773	4/29/1913	-/-/-	1060	Topo Estimation	Tariff(Tlmn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil and Gas	unknown	Shot	2160		0		0	0	0	0			0	0	0	

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708702773	4/29/1913	Pay	Oil & Gas	Vertical			0	Big Injun (Price&eq)	0	0			
4708702773	3/30/1913	Pay	Oil & Gas	Vertical			2128	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702773	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702773	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708702773	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708702773	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702773	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702773	Pennzoil Products Company	1990	35	0	0	0	0	0	0	0	0	0	0	16	19
4708702773	Pennzoil Products Company	1991	15	15	0	0	0	0	0	0	0	0	0	0	0
4708702773	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702773	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702773	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702773	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708702773	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708702773	Triad Resources, Inc.	2004	10	0	0	0	10	0	0	0	0	0	0	0	0
4708702773	Triad Resources, Inc.	2005	5	5	0	0	0	0	0	0	0	0	0	0	0
4708702773	Triad Resources, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702773	Triad Resources, Inc.	2007	5	0	0	0	0	0	0	0	0	0	0	0	5
4708702773	Triad Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702773	Triad Resources, Inc.	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702773	Triad Hunter LLC	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702773	Triad Hunter LLC	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702773	Triad Hunter LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702773	Triad Hunter LLC	2013	11,617	1,087	926	833	844	1,065	1,065	1,088	993	1,037	1,049	776	854
4708702773	Triad Hunter LLC	2014	20	0	0	0	0	3	2	3	2	3	2	3	2
4708702773	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702773	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702773	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702773	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: Volumes in Bbl ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702773	Pennzoil Company	1981	368	0	0	0	0	0	0	0	0	0	0	0	0
4708702773	Pennzoil Company	1982	236	0	0	0	0	0	0	0	0	0	0	0	0
4708702773	Pennzoil Company	1983	310	0	0	0	0	0	0	0	0	0	0	0	0
4708702773	Pennzoil Company	1984	220	0	0	0	0	0	0	0	0	0	0	0	0
4708702773	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702773	Pennzoil Products Company	1990	49	0	0	0	0	0	0	0	0	16	18	15	0
4708702773	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702773	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702773	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702773	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702773	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708702773	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708702773	Triad Resources, Inc.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702773	Triad Resources, Inc.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702773	Triad Resources, Inc.	2006	5	0	5	0	0	0	0	0	0	0	0	0	0
4708702773	Triad Resources, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702773	Triad Resources, Inc.	2008	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702773	Triad Resources, Inc.	2009	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702773	Triad Hunter LLC	2010	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702773	Triad Hunter LLC	2011	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702773	Triad Hunter LLC	2012	3	0	0	0	0	0	0	0	0	0	0	0	3
4708702773	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0

2773

4708702773	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702773	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702773	Triad Hunter LLC	2016	0												
4708702773	Ground Resources, LLC	2017	0												
4708702773	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702773	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702773	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702773	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702773	Triad Hunter LLC	2016	0												
4708702773	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702773	Triad Hunter LLC	2016	0												
4708702773	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708702773	Original Loc	Mahonig Ss/Big Dunk	Well Record	745	Reasonable	200	Reasonable	1060	Topo Estimation
4708702773	Original Loc	Lo Frprt Ss/Frprt Ss	Well Record	1435	Reasonable	45	Reasonable	1060	Topo Estimation
4708702773	Original Loc	Salt Sands (undiff)	Well Record	1630	Reasonable	160	Reasonable	1060	Topo Estimation
4708702773	Original Loc	Little Lime	Well Record	1940	Reasonable	60	Reasonable	1060	Topo Estimation
4708702773	Original Loc	Pencil Cave	Well Record	2000	Reasonable	6	Reasonable	1060	Topo Estimation
4708702773	Original Loc	Big Lime	Well Record	2006	Reasonable	119	Reasonable	1060	Topo Estimation
4708702773	Original Loc	Big Injun (Price&eq)	Well Record	2125	Reasonable	27	Reasonable	1060	Topo Estimation
4708702773	Original Loc	Undf PRICE blw INJN	Well Record	2152	Reasonable	0	Reasonable	1060	Topo Estimation

There is no Wireline (E-Log) data for this well

There is no Plugging data for this well

There is no Sample data for this well

2773

2773

Well No. 4 M J Snodgrass Farm.
Lease No. Smithfield District Roane County.
Rig built by S P O Co
Well drilled by S P D Tac Contractor.
Began drilling Feby 20 1913 Completed March 30 1913

ROCK FORMATION	TOP	BOTTOM	REMARKS
Conductor		16	
Big Dunkard Sand	745	745	
Gas Sand	1435	1450	
Salt "	1630	1790	
Water	1720		
Little Lime	1940	2000	
Pencil Cave	2000	2006	
Big Lime	2006	2125	
Big Injun	2125	2152	
Oil & Gas	2128		
Total Depth		2160	

CASING RECORD

Size	CHARGED TO WELL Feet	In.	PUT IN WELL Feet	In.	PULLED OUT Feet	In.	LEFT IN WELL Feet	In.	Transferred before Completion Feet	In.	Left at Well Not in Use Feet	In.
10			191						[illegible] 4/29/13		-30	96 B [illegible]
8 1/4			750						" 4/8/13		20	
6 5/8			2028									

Production First 24 Hours ..... Bbls. Signed W H Graham Supt

47-087-2773

WVGES
GEOLOGY UNDERLIES IT ALL
"Pipeline"

Select County: (087) Roane
Enter Permit #: 2775
Get Data | Reset

Select datatypes: (Check All)
☑ Location ☑ Production ☑ Plugging
☑ Owner/Completion ☑ Stratigraphy ☑ Sample
☑ Pay/Show/Water ☑ Logs ☑ Btm Hole Loc

able Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 2775

Report Time: Monday, May 18, 2020 12:00:11 PM

Location Information: View Map.

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708702775	Roane	2775	Smithfield	Tariff	Otter	38.66589	-81.210576	481680.4	4279722.1

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708702775	5/19/1913	Original Loc	Completed	M J Snodgrass	6					South Penn Oil (S. Penn Nat. Gas)			
4708702775	6/23/1942	Worked Over	Completed	M J Snodgrass	6					Pennzoil Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AF
4708702775	5/19/1913	4/3/1913	1120	Topo Estimation	Tariff(Tlmn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	Cable Tool	Shot	2177		2177		0	0	0	30			0	0	
4708702775	6/23/1942	-/-/-	1120	Topo Estimation	Tariff(Tlmn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	unknown	Shot	2177		0		0	0	0	0			0	0	

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708702775	5/19/1913	Pay	Oil	Vertical			2150	Big Injun (Price&eq)	0	30			
4708702775	5/19/1913	Show	Gas	Vertical			2150	Big Injun (Price&eq)	0	0			
4708702775	6/23/1942	Pay	Oil & Gas	Vertical	2155	Big Injun (Price&eq)	2173	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702775	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702775	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708702775	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708702775	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702775	Pennzoil Products Company	1989	250	24	24	25	16	10	8	18	13	11	7	41	53
4708702775	Pennzoil Products Company	1990	236	14	6	7	10	20	4	11	56	15	31	29	33
4708702775	Pennzoil Products Company	1991	116	23	49	2	2	0	0	7	6	12	0	8	7
4708702775	Pennzoil Products Company	1992	87	0	9	0	0	9	12	0	0	0	0	32	25
4708702775	Pennzoil Products Company	1993	106	12	12	6	9	15	18	17	0	0	4	0	13
4708702775	Pennzoil Products Company	1994	27	0	2	0	3	2	3	0	0	0	7	4	6
4708702775	Pennzoil Products Company	1995	8	3	0	0	0	0	0	0	0	0	0	0	5
4708702775	Pennzoil Products Company	1996	88	1	5	6	4	3	7	10	12	8	10	12	10
4708702775	Pennzoil Products Company	1997	28	9	4	4	4	0	5	2	0	0	0	0	0
4708702775	Pennzoil Products Company	1998	46	0	0	4	5	6	6	6	4	5	12	0	0
4708702775	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708702775	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708702775	Triad Resources, Inc.	2004	88	6	5	8	9	9	11	8	9	11	8	4	0
4708702775	Triad Resources, Inc.	2005	101	9	5	12	2	3	7	8	12	10	12	12	9
4708702775	Triad Resources, Inc.	2006	93	10	7	7	6	8	8	8	8	8	8	8	7
4708702775	Triad Resources, Inc.	2007	162	13	16	10	18	13	15	13	14	12	13	12	13
4708702775	Triad Resources, Inc.	2008	72	5	4	4	4	3	5	4	3	7	8	11	14
4708702775	Triad Resources, Inc.	2009	33	8	3	3	3	5	5	3	0	0	1	1	1
4708702775	Triad Hunter LLC	2010	39	6	2	3	3	3	5	5	4	3	3	2	0
4708702775	Triad Hunter LLC	2011	11	1	1	1	1	0	3	1	1	1	1	0	0
4708702775	Triad Hunter LLC	2012	15	1	1	1	2	2	2	1	2	2	1	0	0
4708702775	Triad Hunter LLC	2013	12	1	1	1	1	1	1	1	1	1	1	1	1
4708702775	Triad Hunter LLC	2014	8	1	1	1	0	1	0	1	0	1	1	1	0
4708702775	Triad Hunter LLC	2015	6	0	0	0	1	3	1	1	0	0	0	0	0
4708702775	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702775	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702775	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702775	Pennzoil Company	1981	368	0	0	0	0	0	0	0	0	0	0	0	0
4708702775	Pennzoil Company	1982	236	0	0	0	0	0	0	0	0	0	0	0	0
4708702775	Pennzoil Company	1983	310	0	0	0	0	0	0	0	0	0	0	0	0
4708702775	Pennzoil Company	1984	220	0	0	0	0	0	0	0	0	0	0	0	0
4708702775	Pennzoil Products Company	1989	597	74	25	40	27	38	36	24	22	124	108	48	31
4708702775	Pennzoil Products Company	1990	302	21	33	18	4	8	53	12	28	28	31	22	44
4708702775	Pennzoil Products Company	1991	69	2	2	0	0	7	6	14	0	10	8	0	20
4708702775	Pennzoil Products Company	1992	191	21	0	12	17	0	0	0	0	53	52	17	19
4708702775	Pennzoil Products Company	1993	120	11	18	22	14	21	0	0	6	0	22	0	6
4708702775	Pennzoil Products Company	1994	49	5	6	3	5	0	0	0	8	7	8	7	0
4708702775	Pennzoil Products Company	1995	53	0	0	0	0	0	0	0	0	0	20	15	18
4708702775	Pennzoil Products Company	1996	416	39	38	39	31	35	35	28	34	35	39	43	20
4708702775	Pennzoil Products Company	1997	63	18	19	0	19	7	0	0	0	0	0	0	0
4708702775	Pennzoil Products Company	1998	183	16	19	21	19	16	16	18	20	18	20	0	0
4708702775	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708702775	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708702775	Triad Resources, Inc.	2004	329	31	31	31	31	30	30	22	28	24	23	21	27

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4708702775	Triad Resources, Inc.	2005	136	12	8	9	11	9	14	11	11	12	16	13	10
4708702775	Triad Resources, Inc.	2006	141	8	11	12	14	8	9	12	12	15	11	13	16
4708702775	Triad Resources, Inc.	2007	62	8	7	7	5	2	2	6	6	6	4	5	4
4708702775	Triad Resources, Inc.	2008	166	13	17	9	16	11	8	14	14	19	17	11	17
4708702775	Triad Resources, Inc.	2009	108	4	0	10	15	13	10	9	9	8	12	10	8
4708702775	Triad Hunter LLC	2010	55	11	2	9	2	2	10	2	2	11	2	2	0
4708702775	Triad Hunter LLC	2011	109	8	11	9	8	9	9	9	9	9	10	11	7
4708702775	Triad Hunter LLC	2012	93	5	7	6	5	8	11	4	12	9	9	7	10
4708702775	Triad Hunter LLC	2013	97	9	9	11	7	9	10	5	8	6	6	8	9
4708702775	Triad Hunter LLC	2014	91	7	6	8	8	8	7	6	9	8	7	8	9
4708702775	Triad Hunter LLC	2015	75	8	5	3	8	6	8	6	3	7	5	11	5
4708702775	Triad Hunter LLC	2016	0												
4708702775	Ground Resources, LLC	2017	0												
4708702775	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702775	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702775	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702775	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702775	Triad Hunter LLC	2016	0												
4708702775	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * [illegible] H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702775	Triad Hunter LLC	2016	0												
4708702775	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708702775	Original Loc	Buffalo Ss/1st Cow Rn	Well Record	730	Reasonable	30	Reasonable	1120	Topo Estimation
4708702775	Original Loc	Mahonig Sa/Big Dunk	Well Record	810	Reasonable	250	Reasonable	1120	Topo Estimation
4708702775	Original Loc	Lo Frprt Sa/Frprt Sa	Well Record	1425	Reasonable	45	Reasonable	1120	Topo Estimation
4708702775	Original Loc	Maxton	Well Record	1886	Reasonable	24	Reasonable	1120	Topo Estimation
4708702775	Original Loc	Little Lime	Well Record	1975	Reasonable	40	Reasonable	1120	Topo Estimation
4708702775	Original Loc	Pencil Cave	Well Record	2015	Reasonable	7	Reasonable	1120	Topo Estimation
4708702775	Original Loc	Big Lime	Well Record	2022	Reasonable	100	Reasonable	1120	Topo Estimation
4708702775	Original Loc	Keener	Well Record	2122	Reasonable	18	Reasonable	1120	Topo Estimation
4708702775	Original Loc	Big Injun (Price&eq)	Well Record	2140	Reasonable	33	Reasonable	1120	Topo Estimation
4708702775	Original Loc	Undf PRICE blw INJN	Well Record	2173	Reasonable	0	Reasonable	1120	Topo Estimation

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708702775	0	2152		G *	Y	N	0	2152											0	2145	N	Y	N						

Comment: *logs: CCL

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708702775.lo.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

2775

2775

Well No. 6 [illegible] Farm.
Lease No. Smithfield District Roane County.
Rig built by S. P. D. Co
Well drilled by S P D Tac Contractor.
Began drilling April 3 1973 Completed May 19 1973

ROCK FORMATION	TOP	BOTTOM	REMARKS
Conductor		16	
Little Dunkard	730	760	
Big Do	810	1060	
Gas Sand	1425	1470	
Salt "	1660	1870	
Matter	1755		
" Hole full	1995		
Maxon Sand	1886	1910	
Little Lime	1975	2015	
Pencil Cave	2015	2022	
Big Lime	2022	2122	
Keener Sand	2122	2140	
Big Injun "	2140	2173	
Oil & Gas	2150		
Total depth		2177	

Shot 6-23-42-40 Ho. C 155-2173 ft. B[illegible] Shot

CASING RECORD

Size	CHARGED TO WELL Feet	In.	PUT IN WELL Feet	In.	PULLED OUT Feet	In.	LEFT IN WELL Feet	In.	Transferred before Completion Feet	In.	Left at Well Not in Use Feet	In.
10			215		215				Shot 5/21/73		0.94	
8 1/4			836		836							
6 5/8			2057									
5 3/16			2069						[illegible] 3-2[illegible]-73			

Production First 24 Hours 30 Bbls. Signed W. H. Graham Supt.

47-087-2775

2775

NL McCullough

GAMMA RAY - 3-ARM CALIPER

FILING NO. 87-2775

COMPANY PENNZOIL COMPANY

WELL SNODGRASS #6

FIELD SMITHFIELD DISTRICT

COUNTY ROANE STATE WV

LOCATION

OTHER SERVICES

SEC. TWP. RGE.

ELEVATIONS:
KB.
DF.
GL.

PERMANENT DATUM GROUND LEVEL ELEV.

LOG MEASURED FROM TOP OF 7" 1' ABOVE P.D.

DRILLING MEASURED FROM K.B.

DATE	9/21/84		
RUN NO.	ONE	ONE	
TYPE LOG	3-ARM CAL.	GAMMA RAY	
DEPTH—DRILLER	1972'	1972'	
DEPTH—LOGGER	2156'	2156'	
BOTTOM LOGGED INTERVAL	2155'	2152'	
TOP LOGGED INTERVAL	1900'	SURF.	
TYPE FLUID IN HOLE	WATER		
SALINITY PPM CL.	-		
DENSITY LB./GAL.	-		
LEVEL	1000'		
MAX. REC. TEMP. DEG. F.	-		
OPR. RIG TIME	2 HOURS		
RECORDED BY	R. NICHOLS		
WITNESSED BY	MR. SMITH		

DISTRICT CHARLESTON

RUN NO.	BORE HOLE RECORD BIT	FROM	TO	CASING RECORD SIZE	WGT	FROM	TO
				7"		SURF.	2032'

THIS HEADING AND LOG CONFORMS TO API RECOMMENDED STANDARD PRACTICE RP-33 (4)

EQUIPMENT DATA

FOLD HERE

RUN NO. ONE

RUN NO. ONE

RUN NO.

TOOL MODEL NO.				LOG TYPE			
DIAM.	3.5	1 3/4		TOOL MODEL NO.			
DETECT. MODEL NO.	GRBC			DIAM.			
TYPE	SCINT.	3-ARM		DETECT. MODEL NO.			
LENGTH	3"	5'		TYPE			
				LENGTH			
				SOURCE MODEL NO.			
GENERAL				SERIAL NO.			
HOIST TRUCK NO.				SPACING			
INST. TRUCK NO.	84025			TYPE			
TOOL SERIAL NO.				STRENGTH			
LOG TICKET NO.	58500						

LOGGING DATA

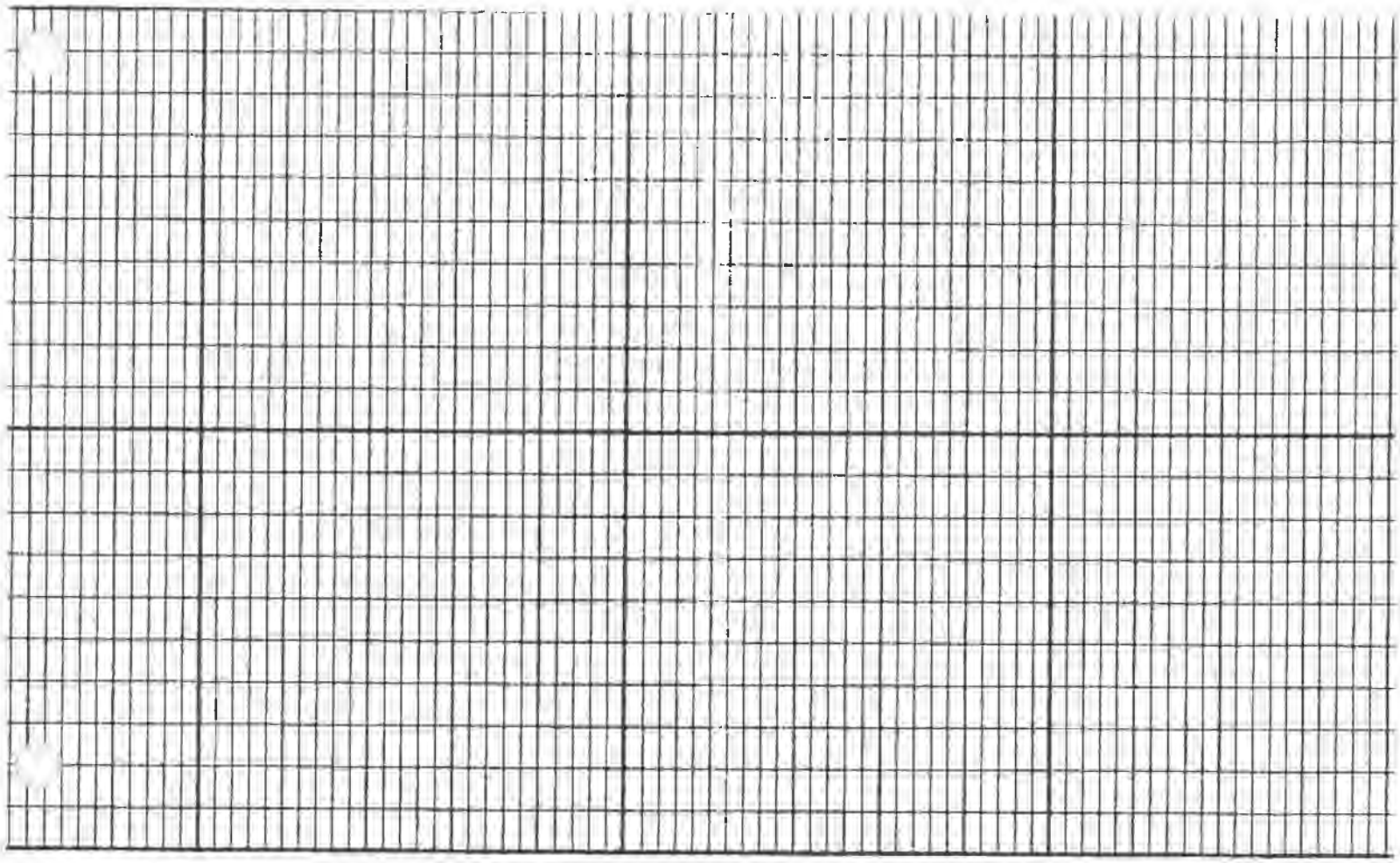
GENERAL											
RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED FT./MIN.	T. C. SEC.	SENS. SETTINGS	ZERO DIV. L. OR R.	API GR. UNITS PER LOG DIV.	T. C. SEC.	SENS. SETTINGS	ZERO DIV. L. OR R.	API N. UNITS PER LOG DIV.
ONE	2155'	1900'	26	2	R - 3 (X1)	0					
					G - 300						
					D - 200						
ONE	2152'	SURF.	30	2	R - 6 (X1)						
					G - 300						
					D - 200						

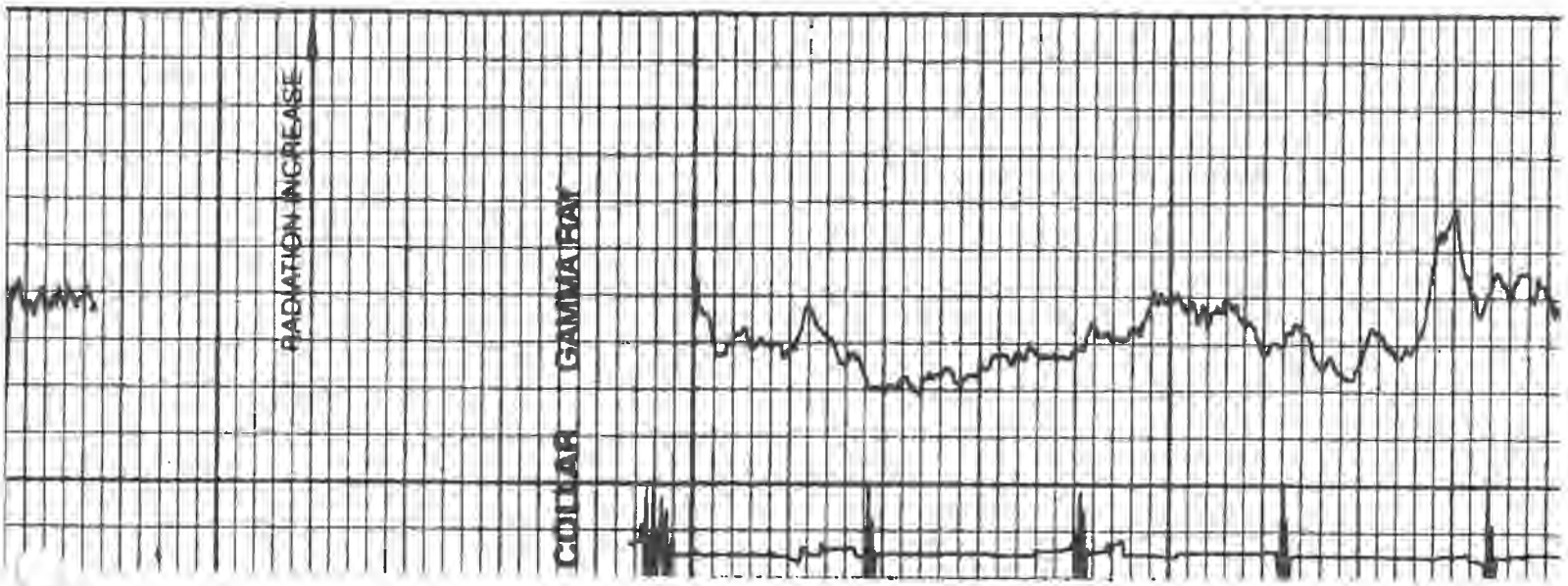
REFERENCE LITERATURE: OFFSET WELL LOG.

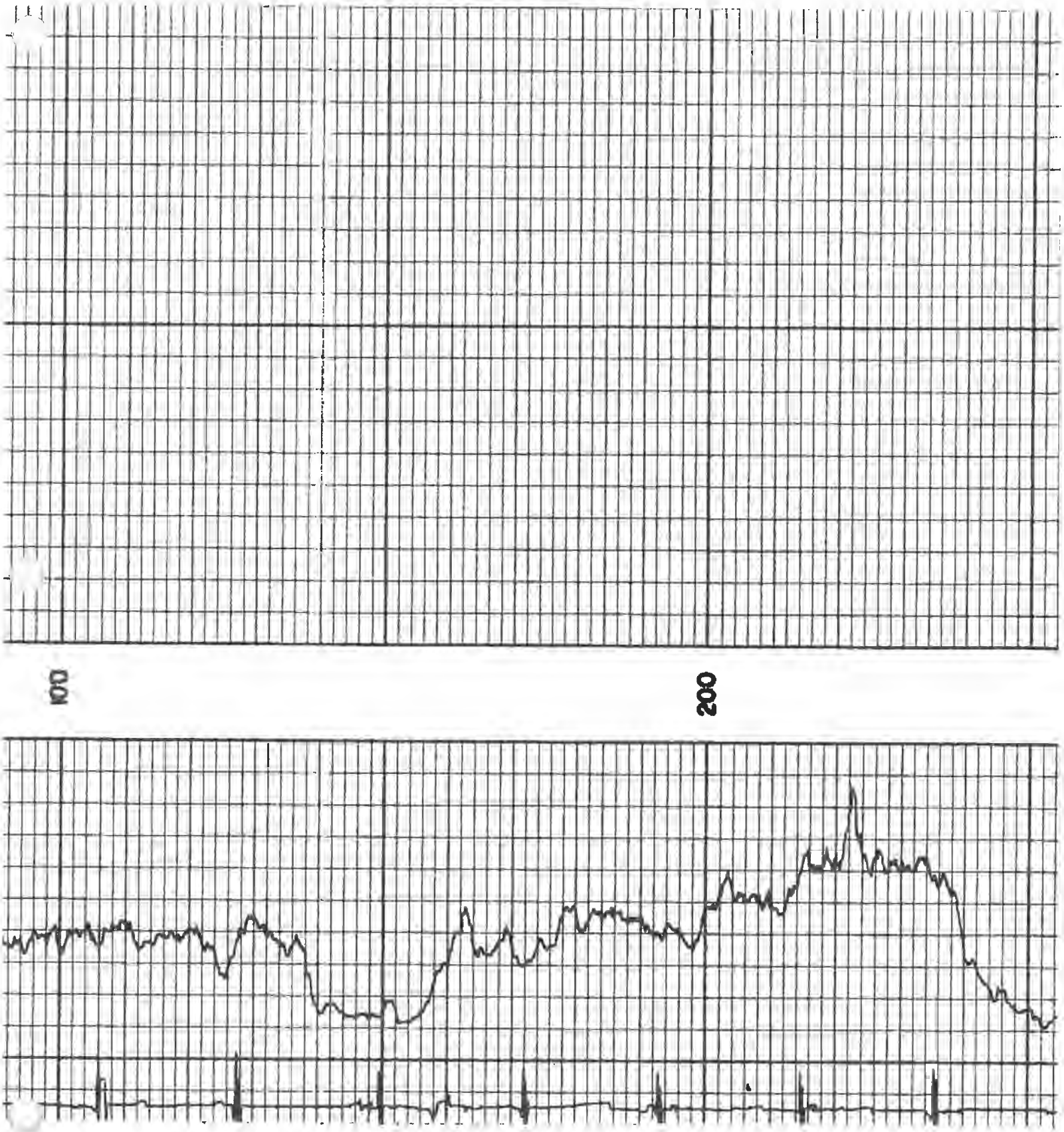
REMARKS:

FOLD HERE

GAMMA RAY ZERO & STATISTICAL




RADIATION INCREASE
COLLAR
GAMMA RAY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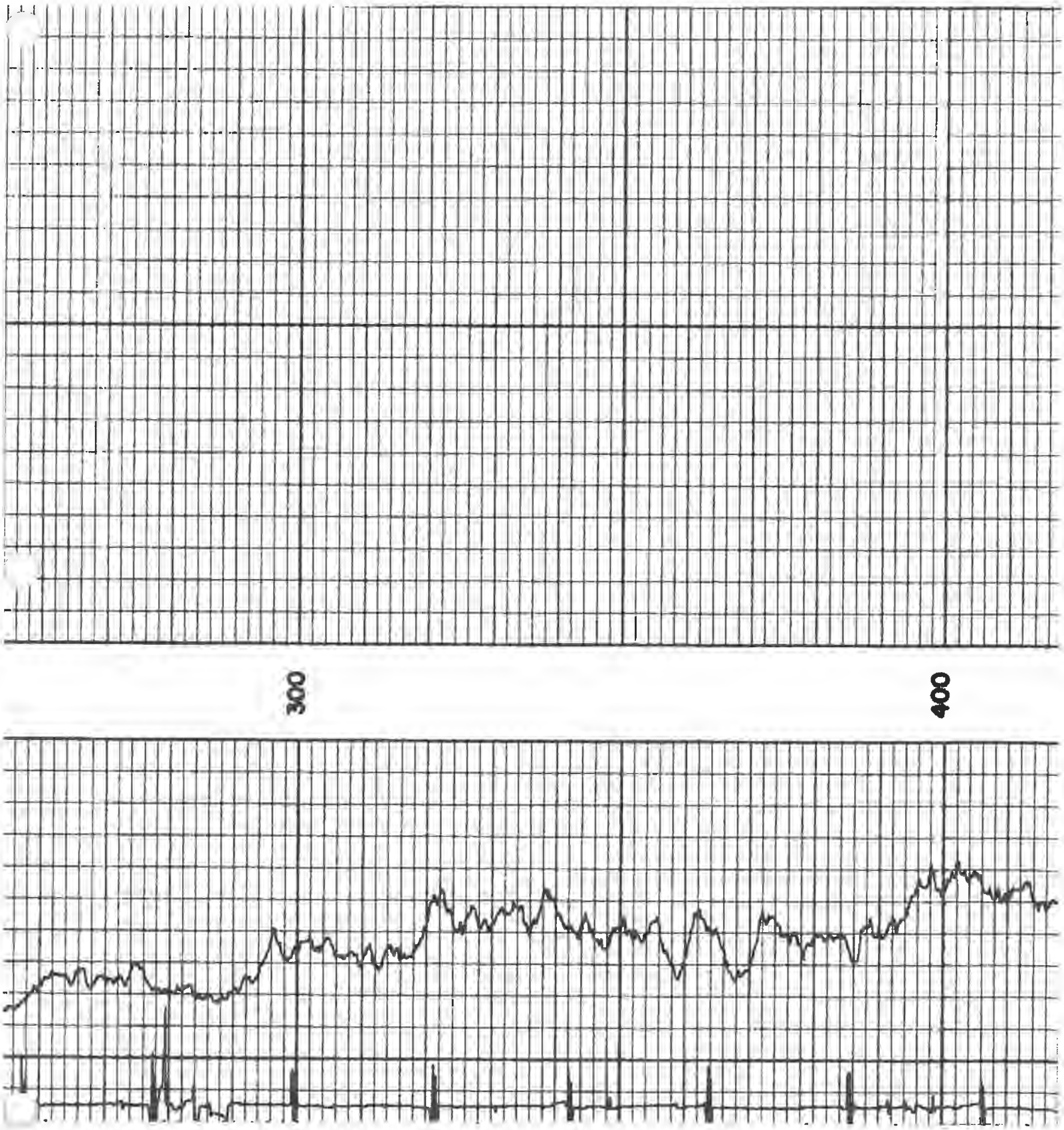
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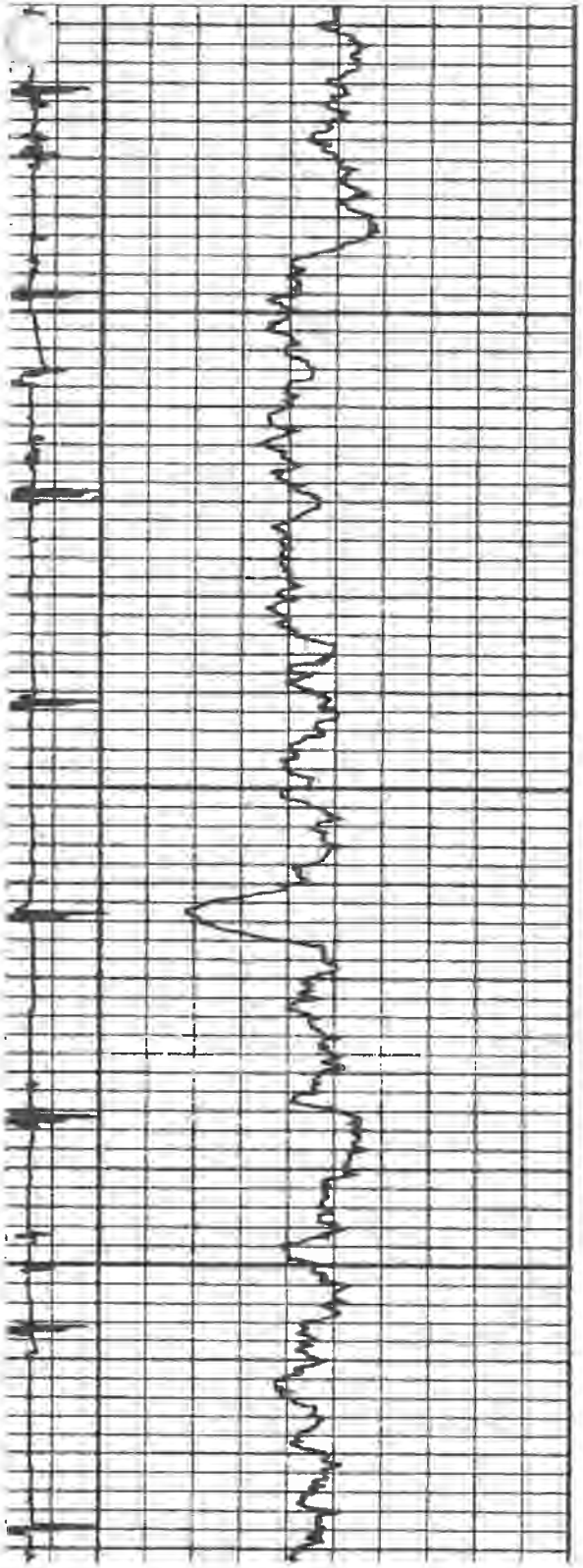

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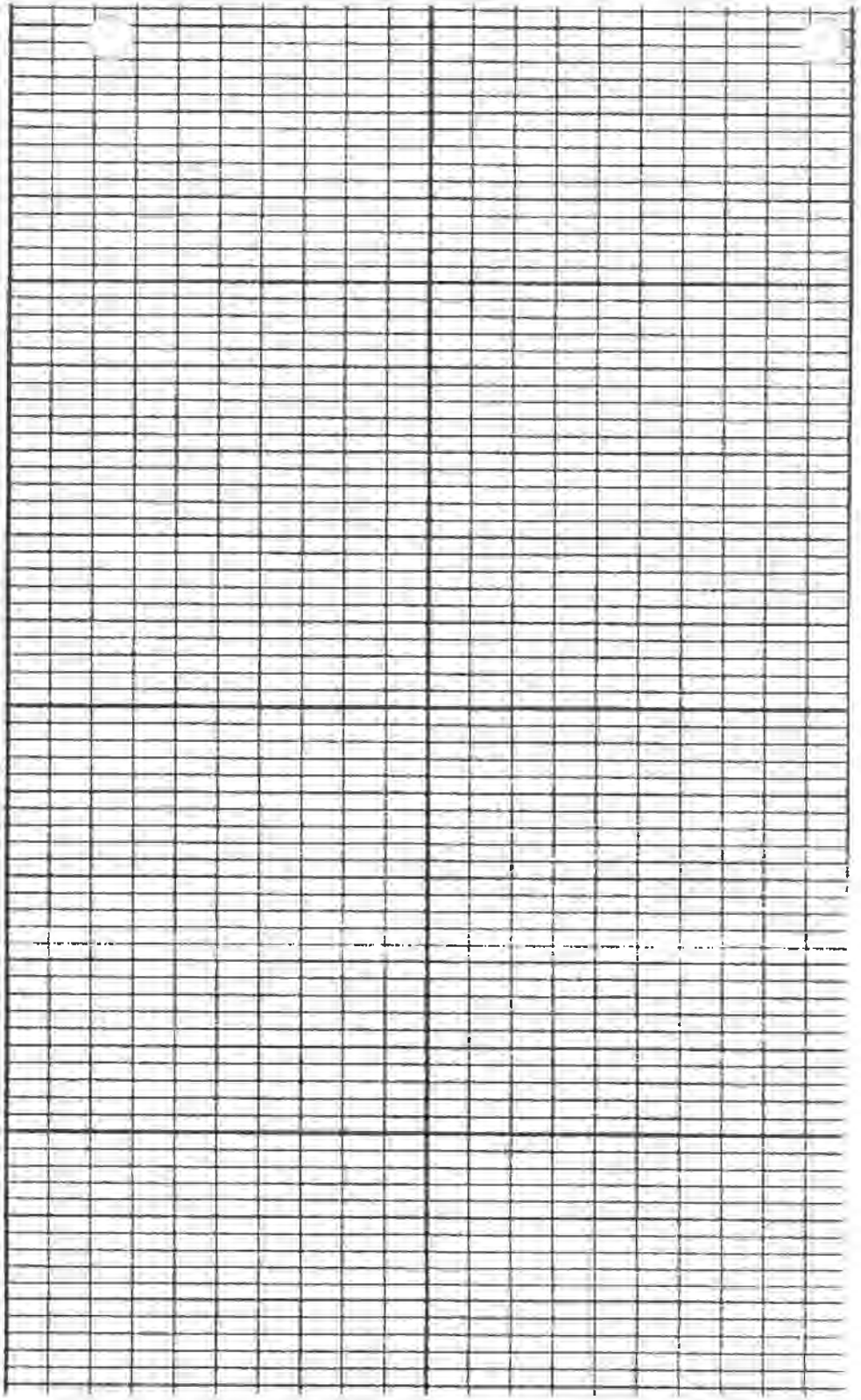

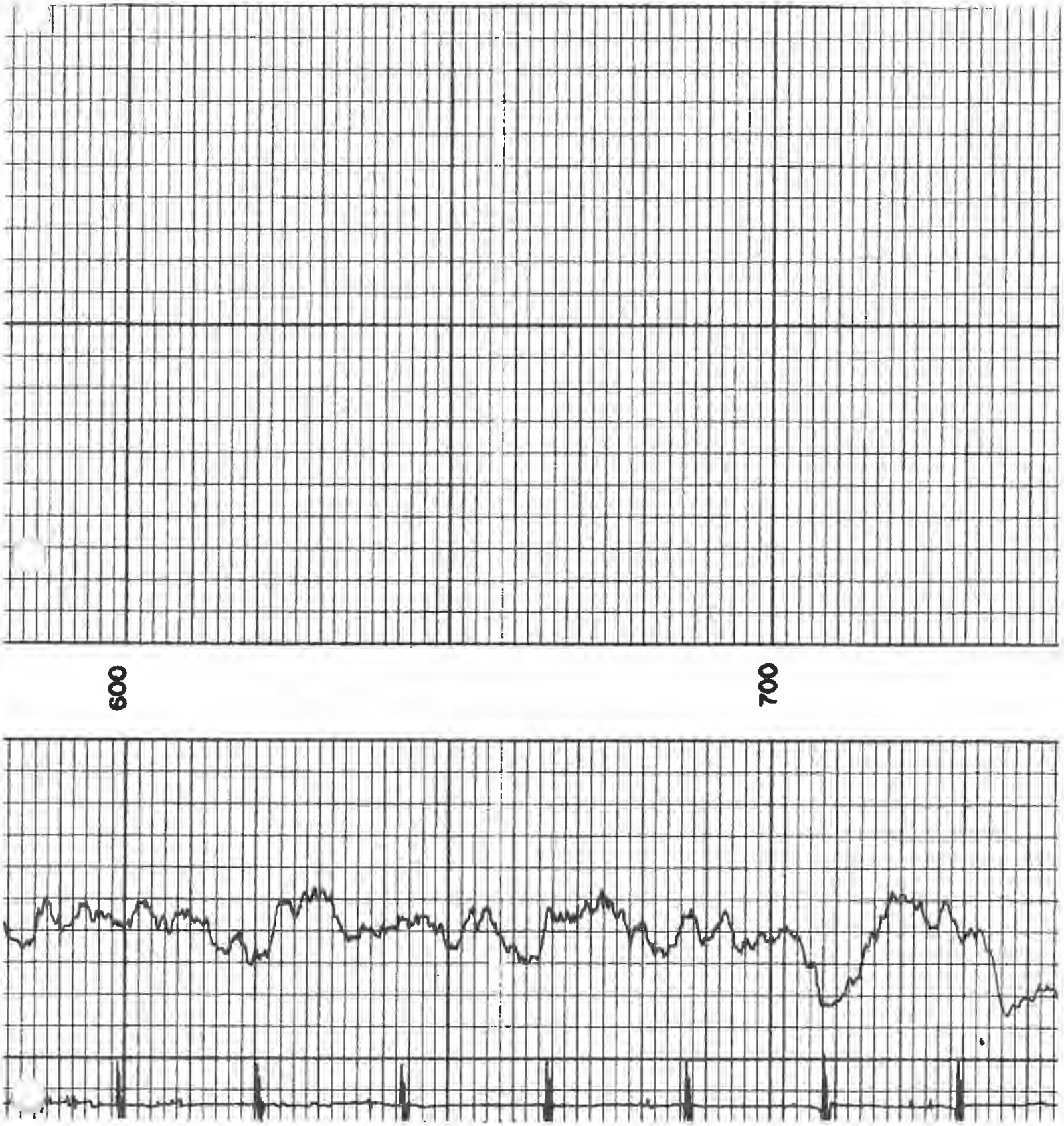
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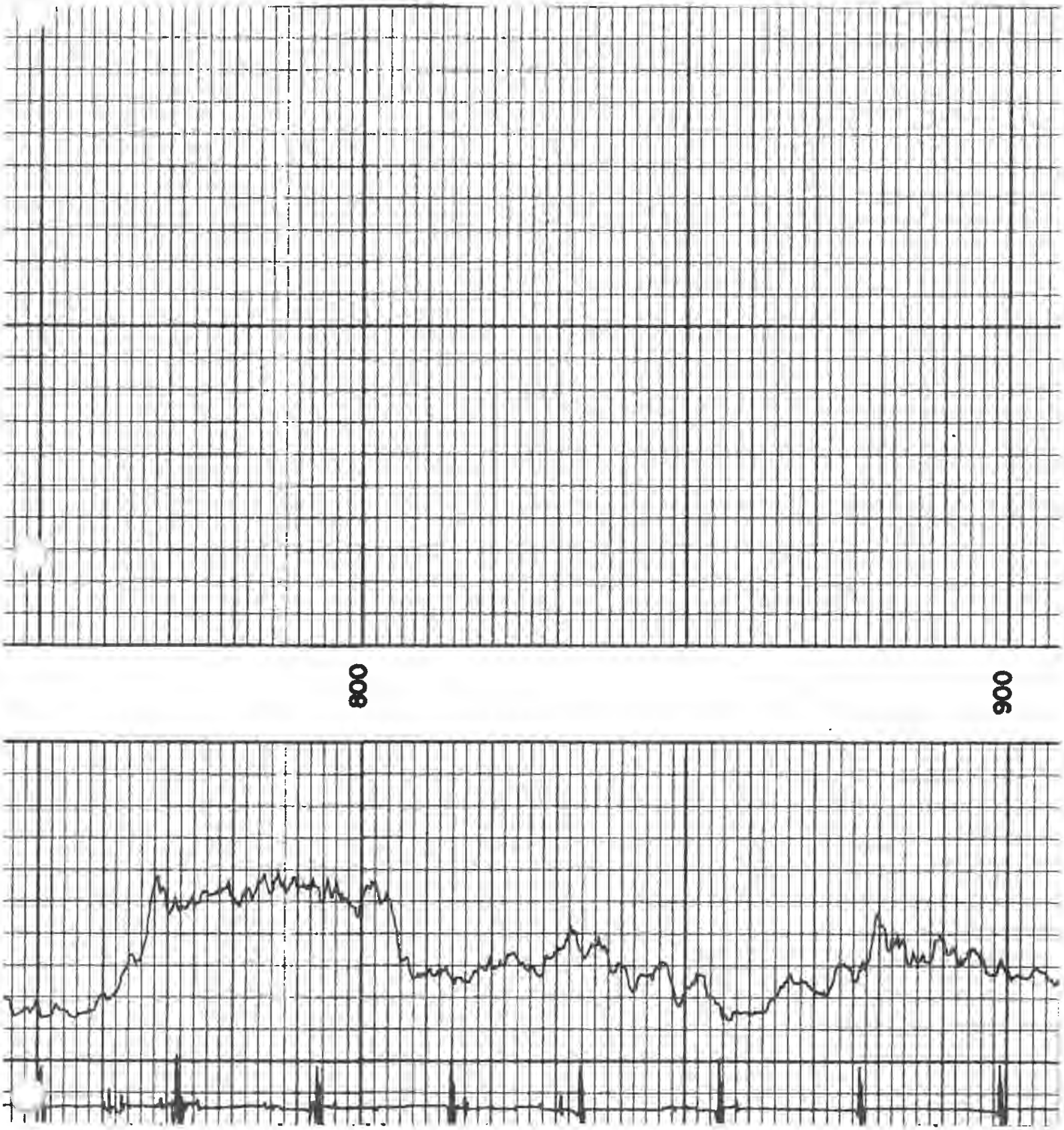
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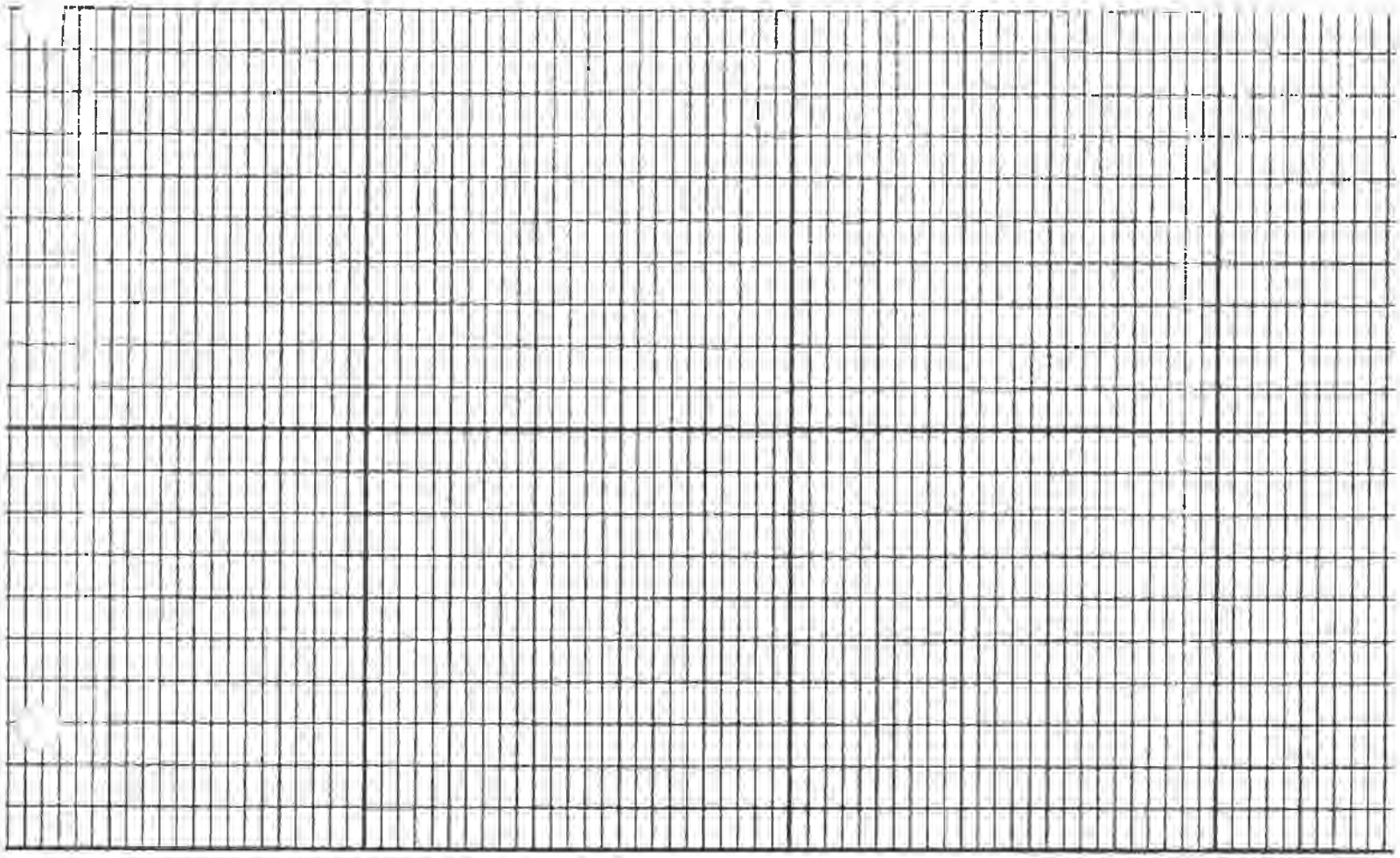

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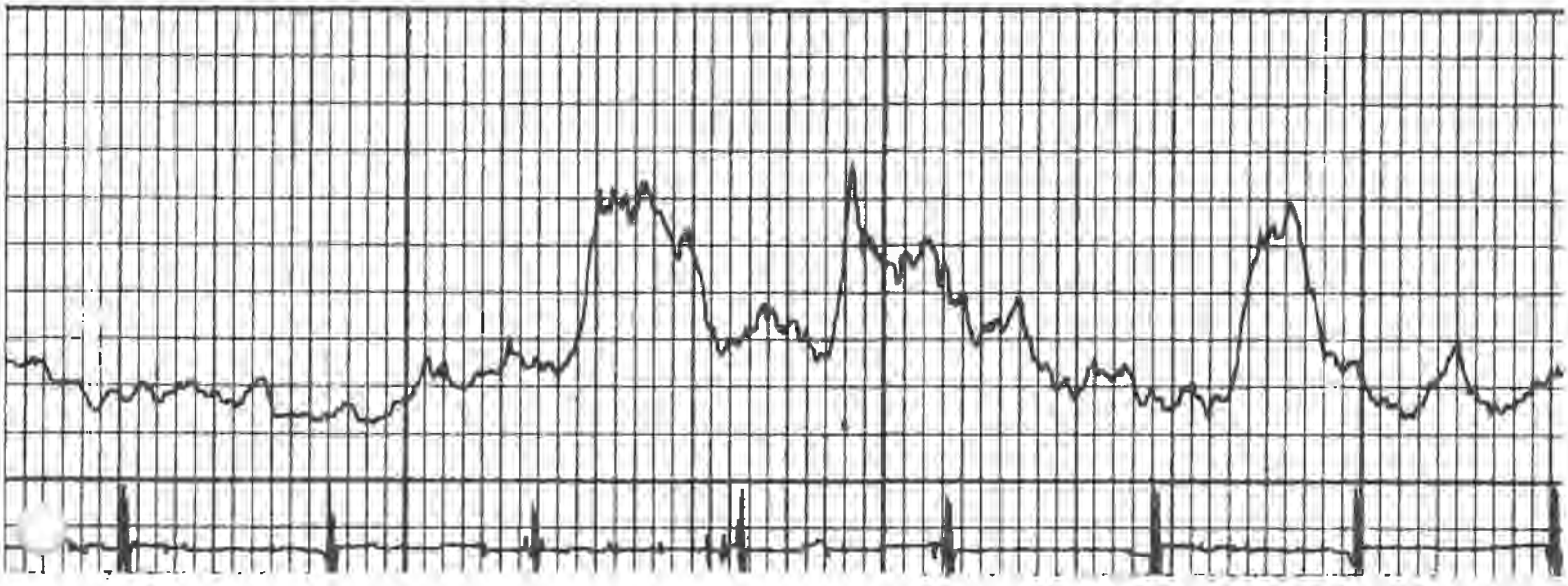

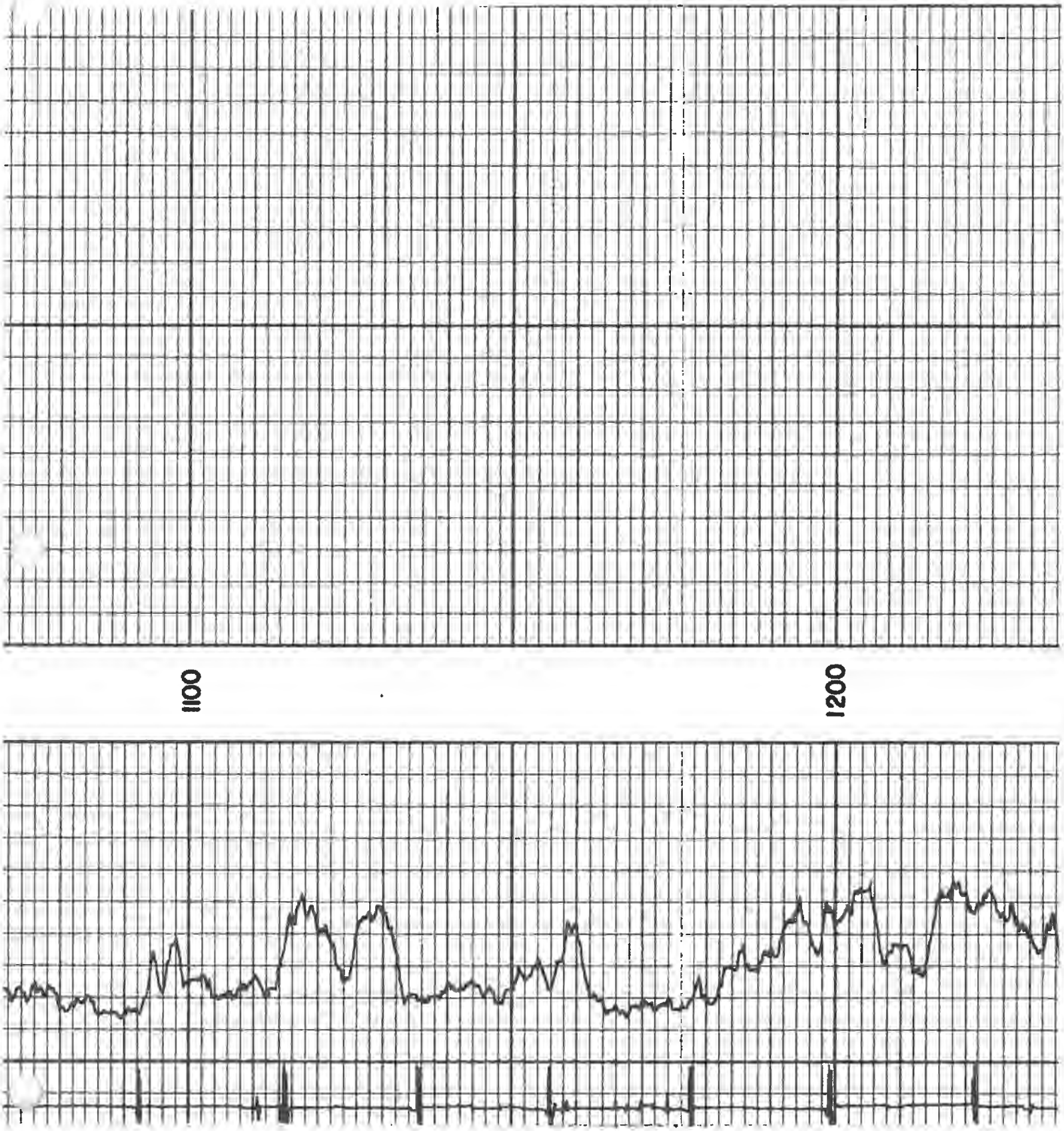
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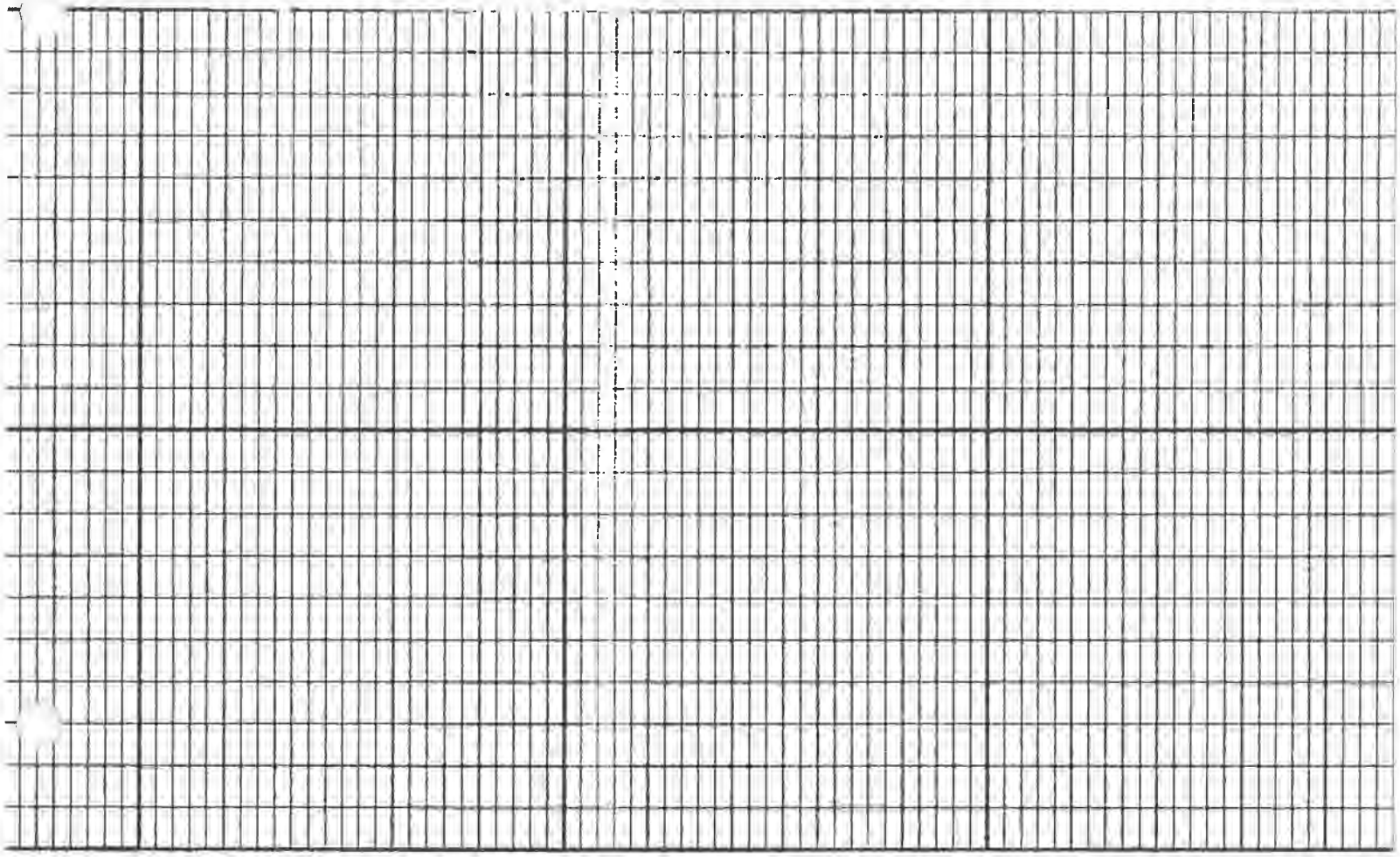

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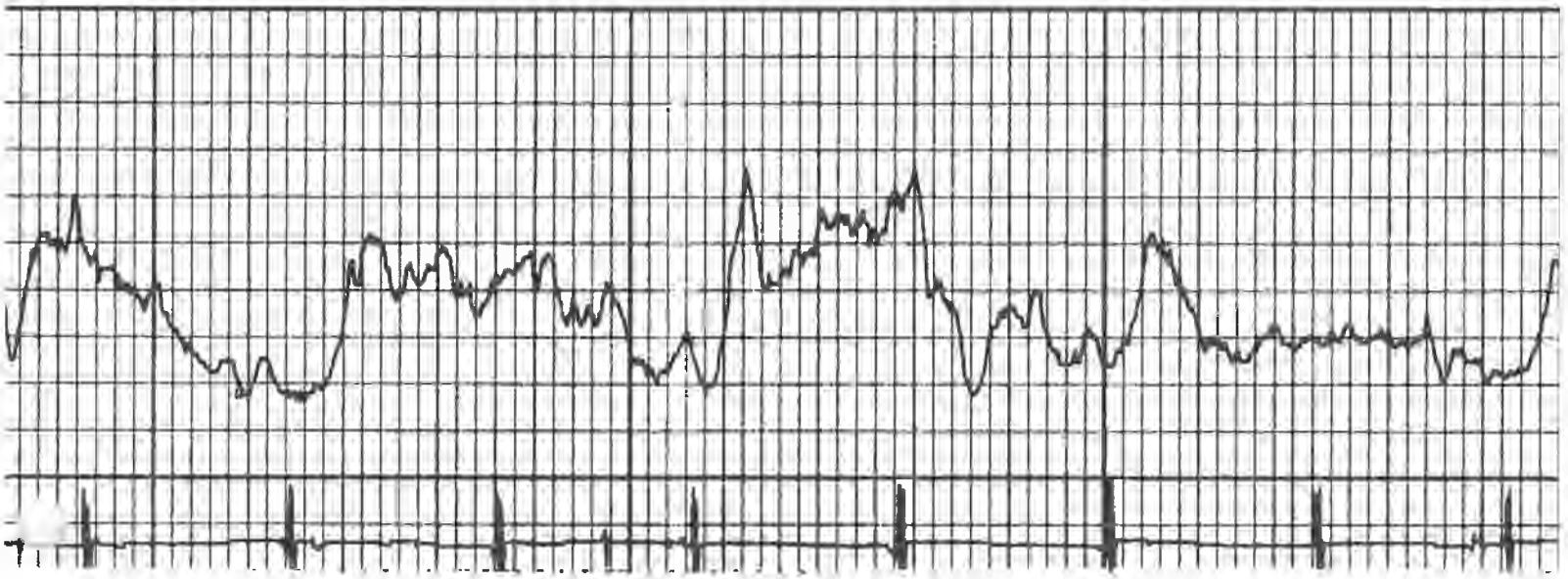

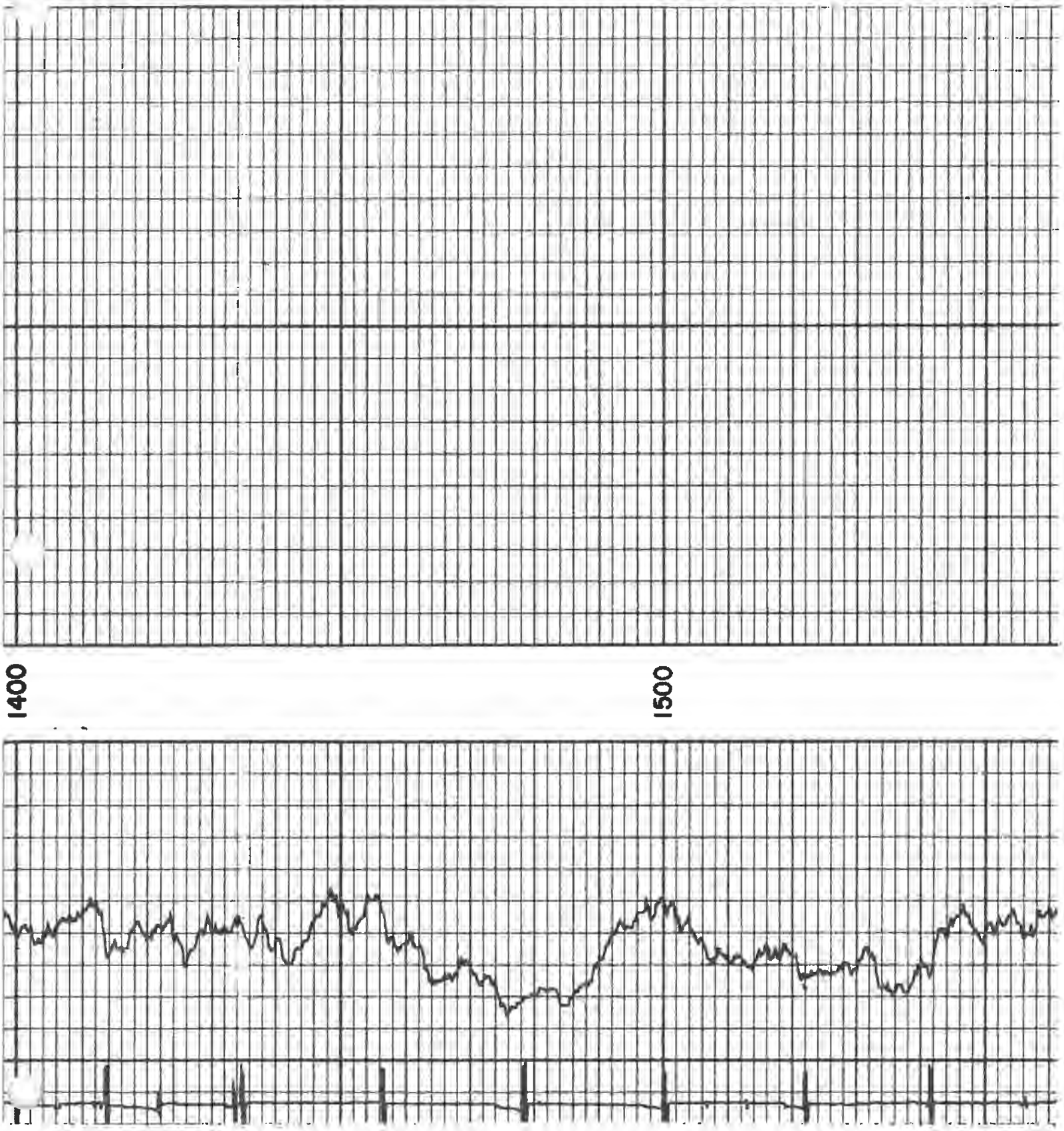
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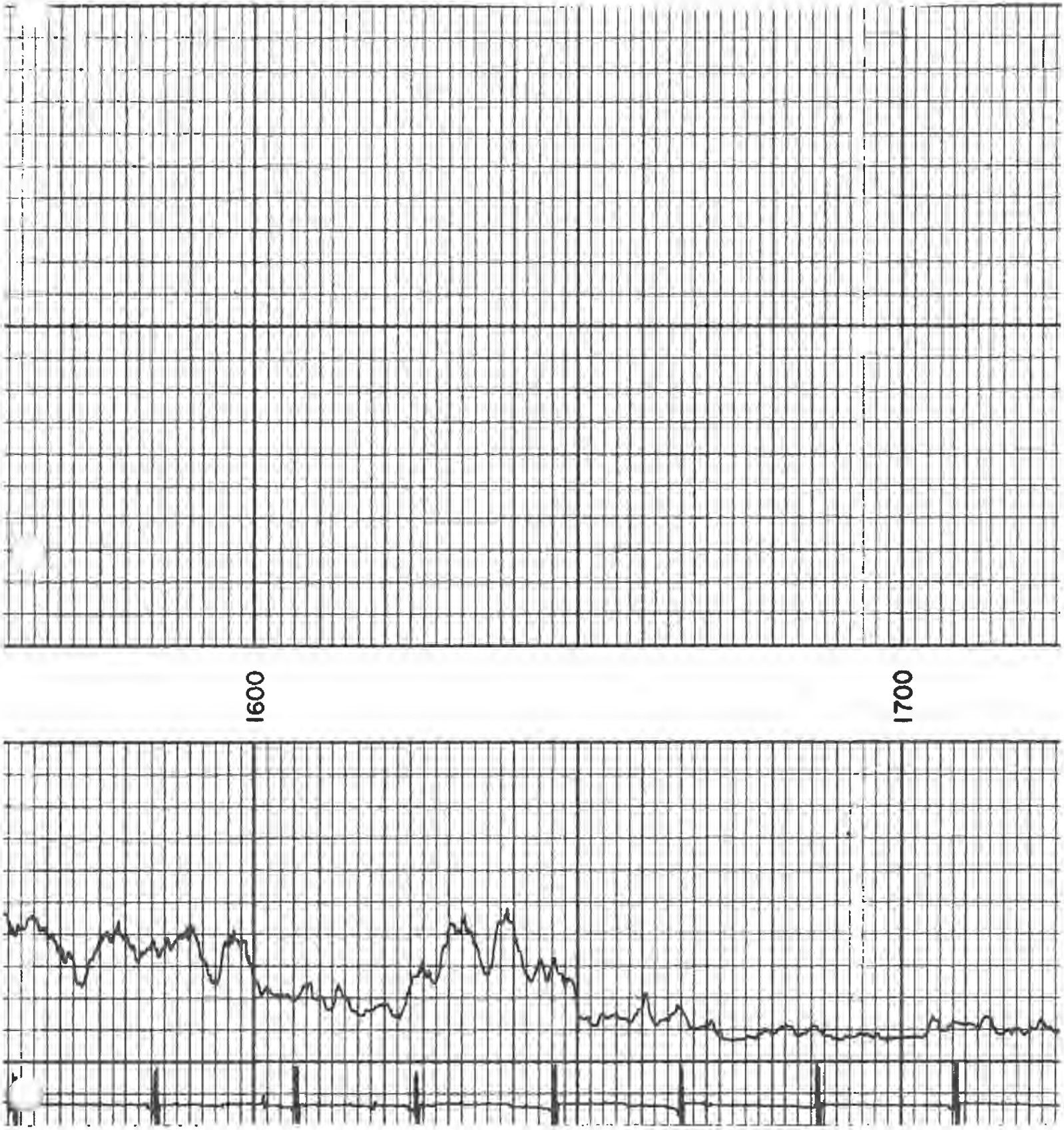
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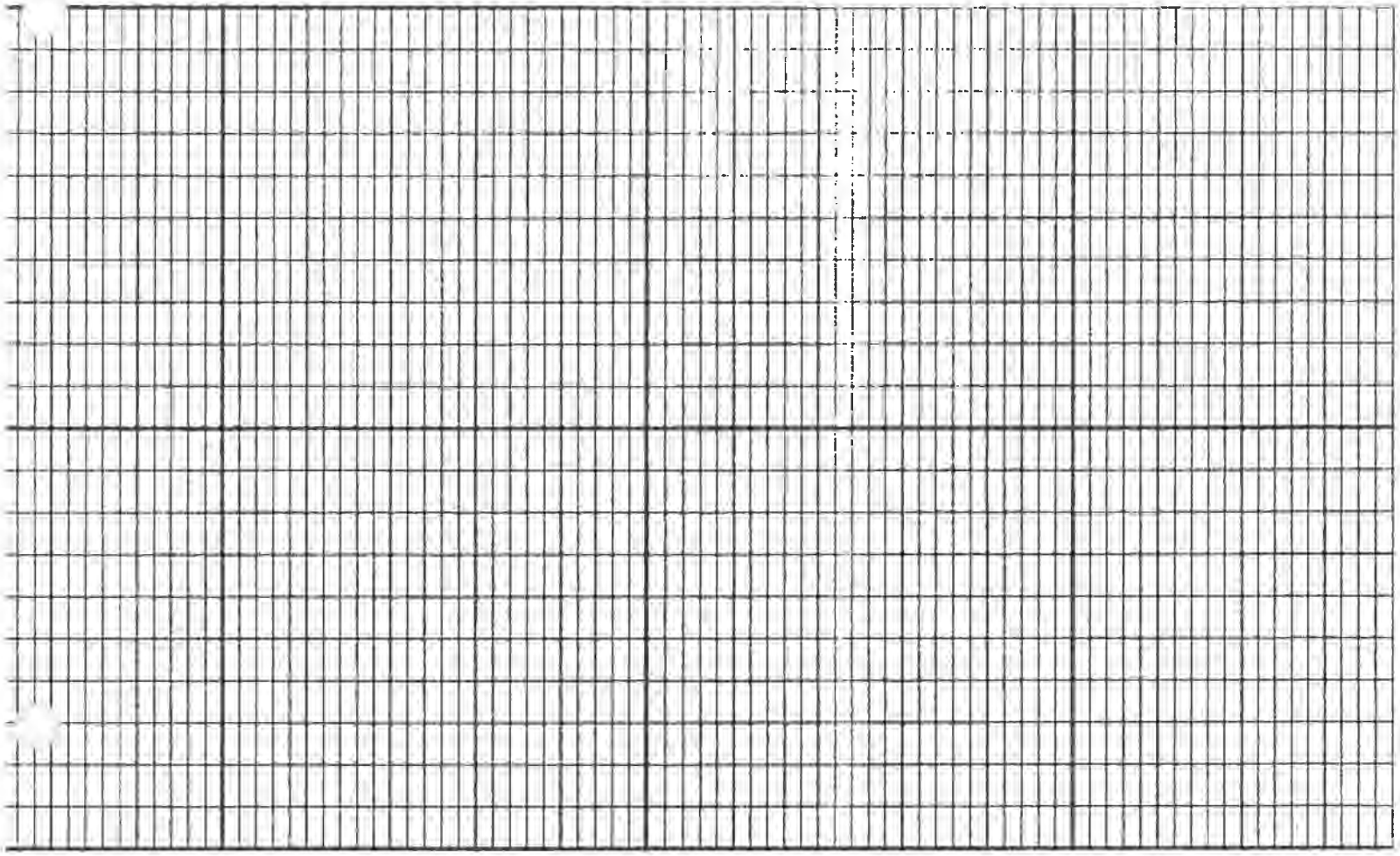

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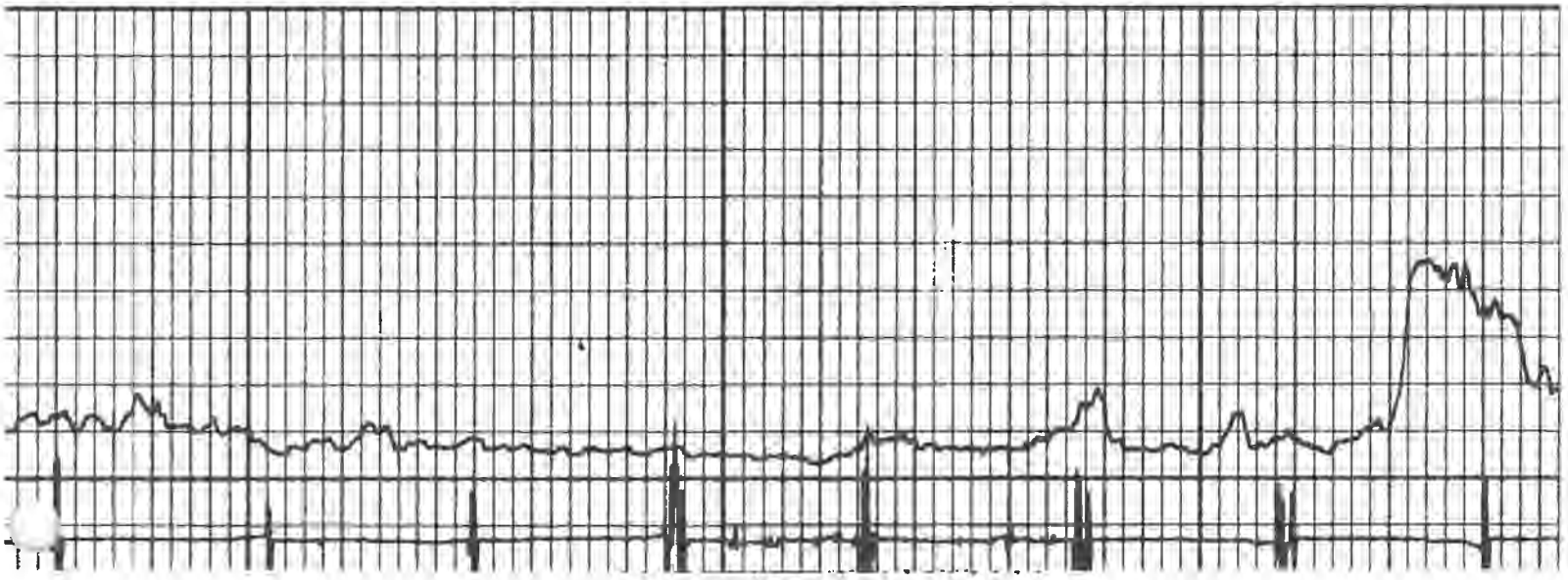

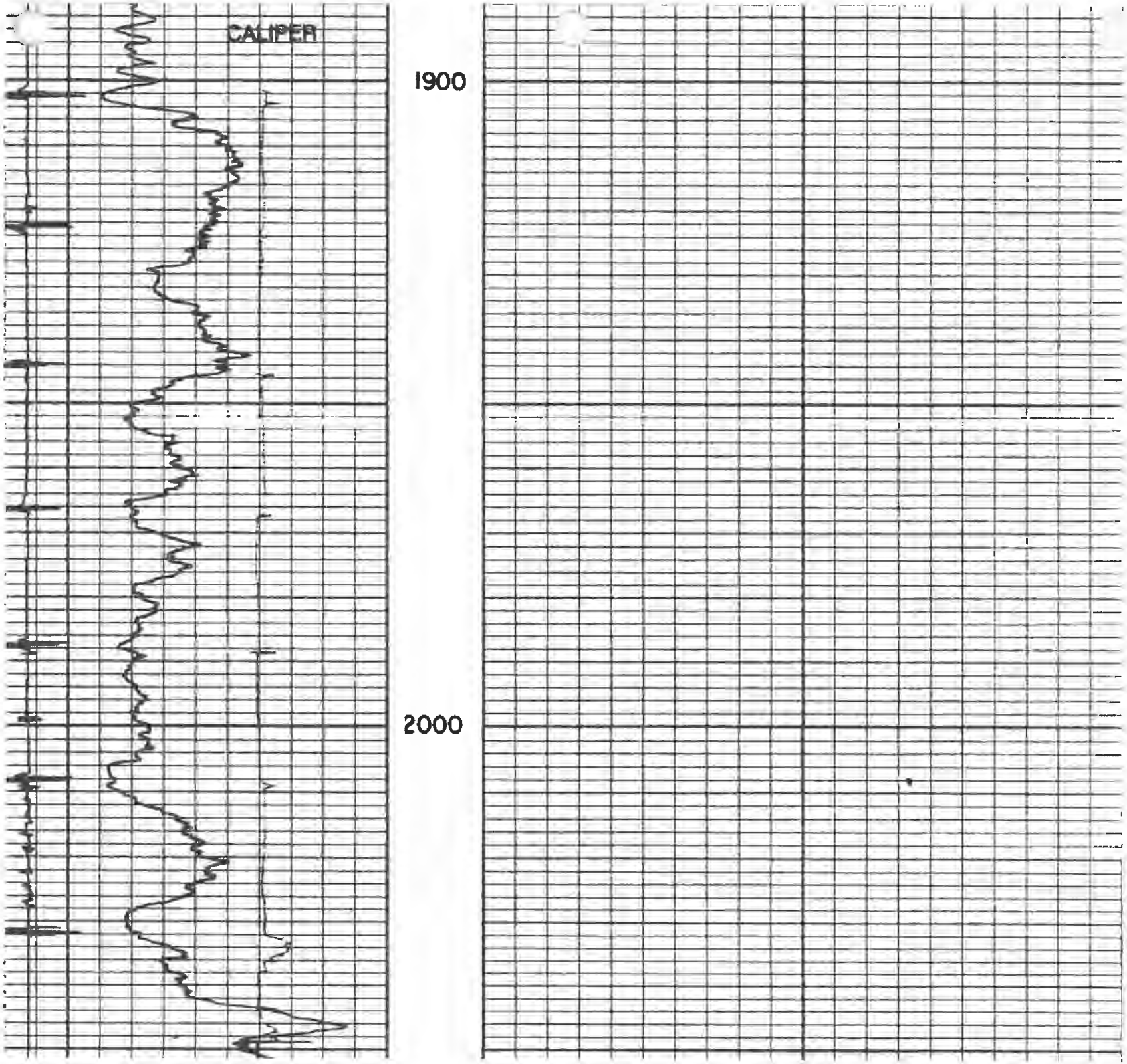
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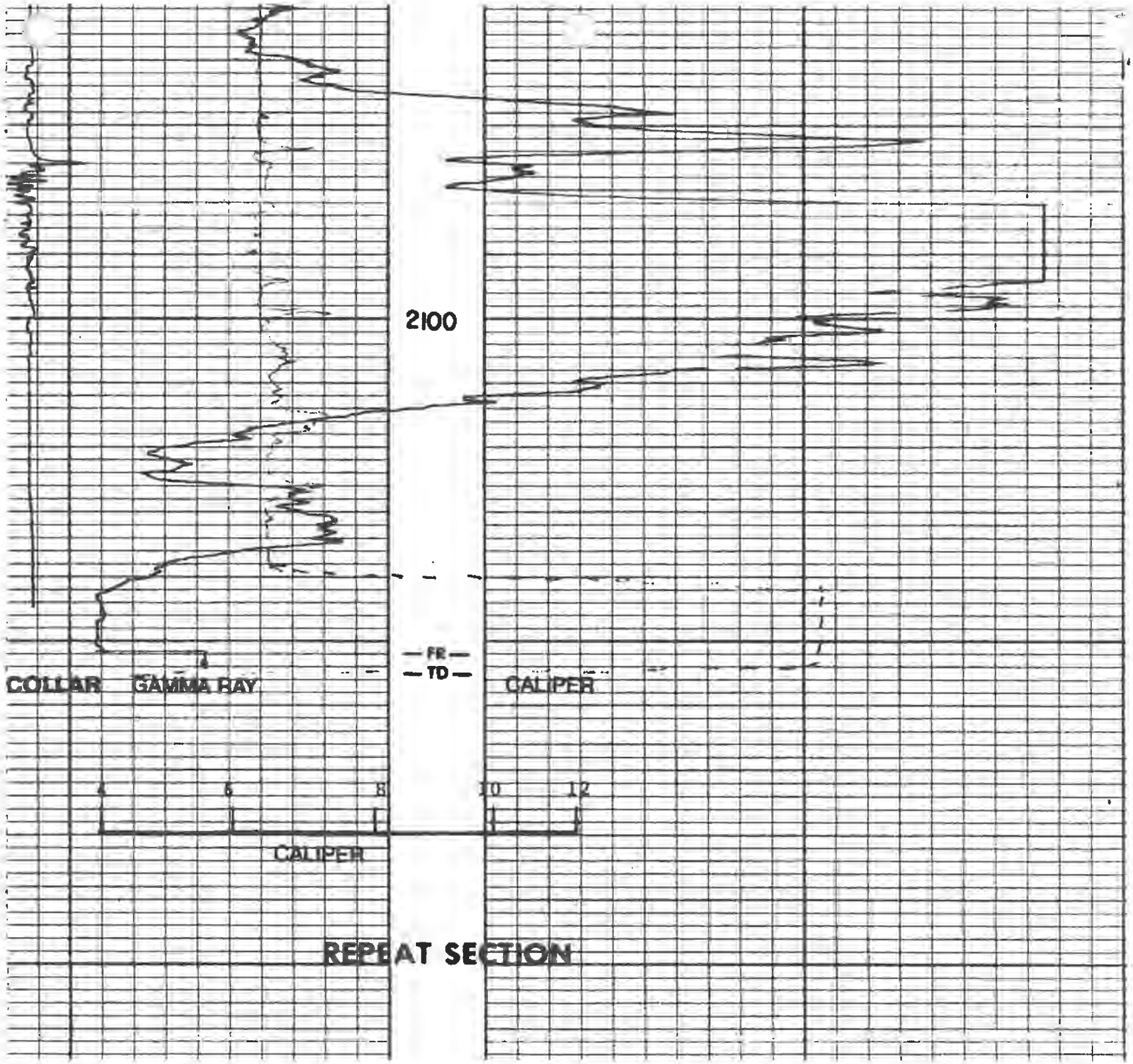
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FE
TD
COLLAR
GAMMA RAY
CALIPER
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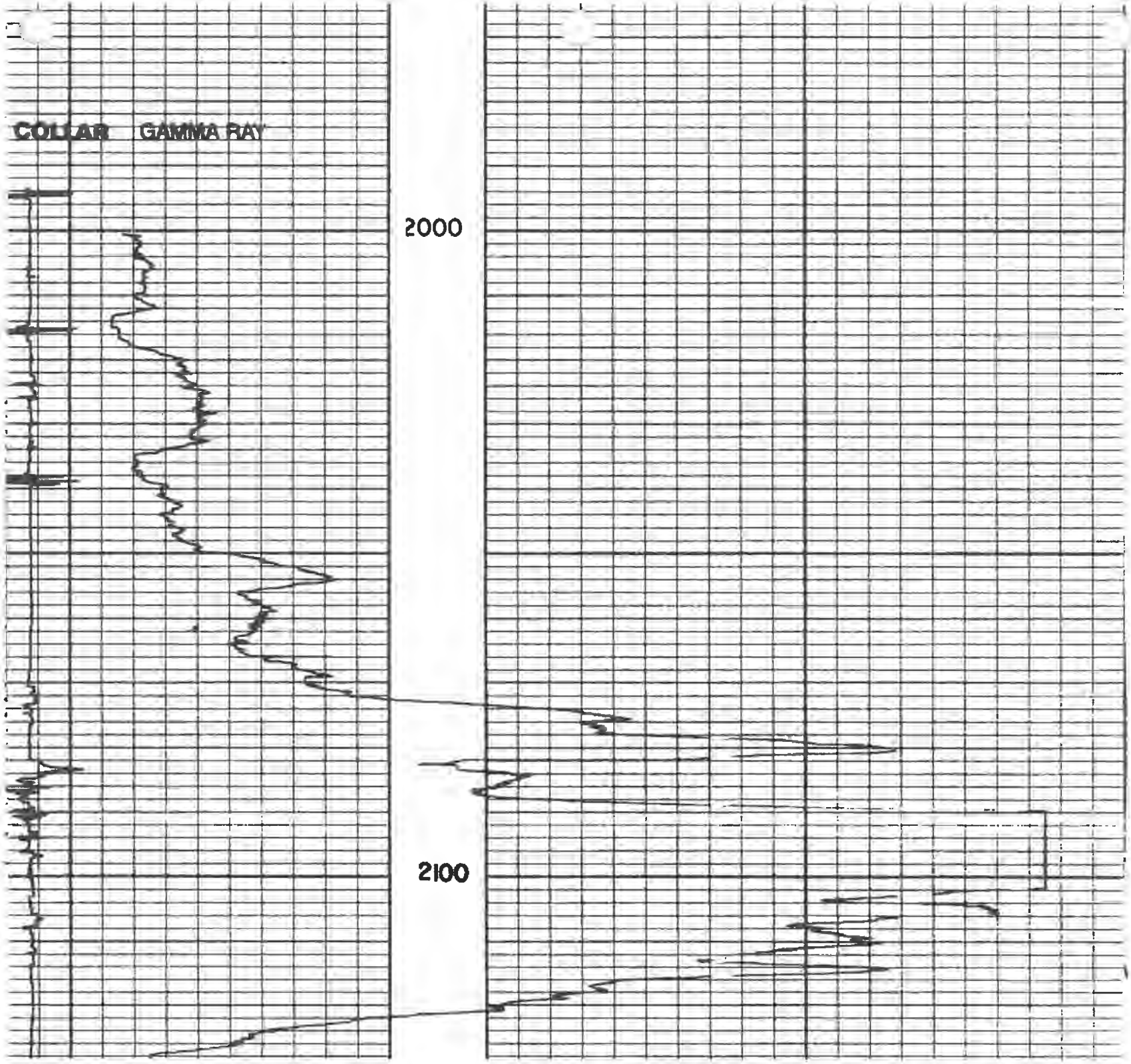
6
8
10
12
CALIPER
REPEAT SECTION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GAMMA RAY
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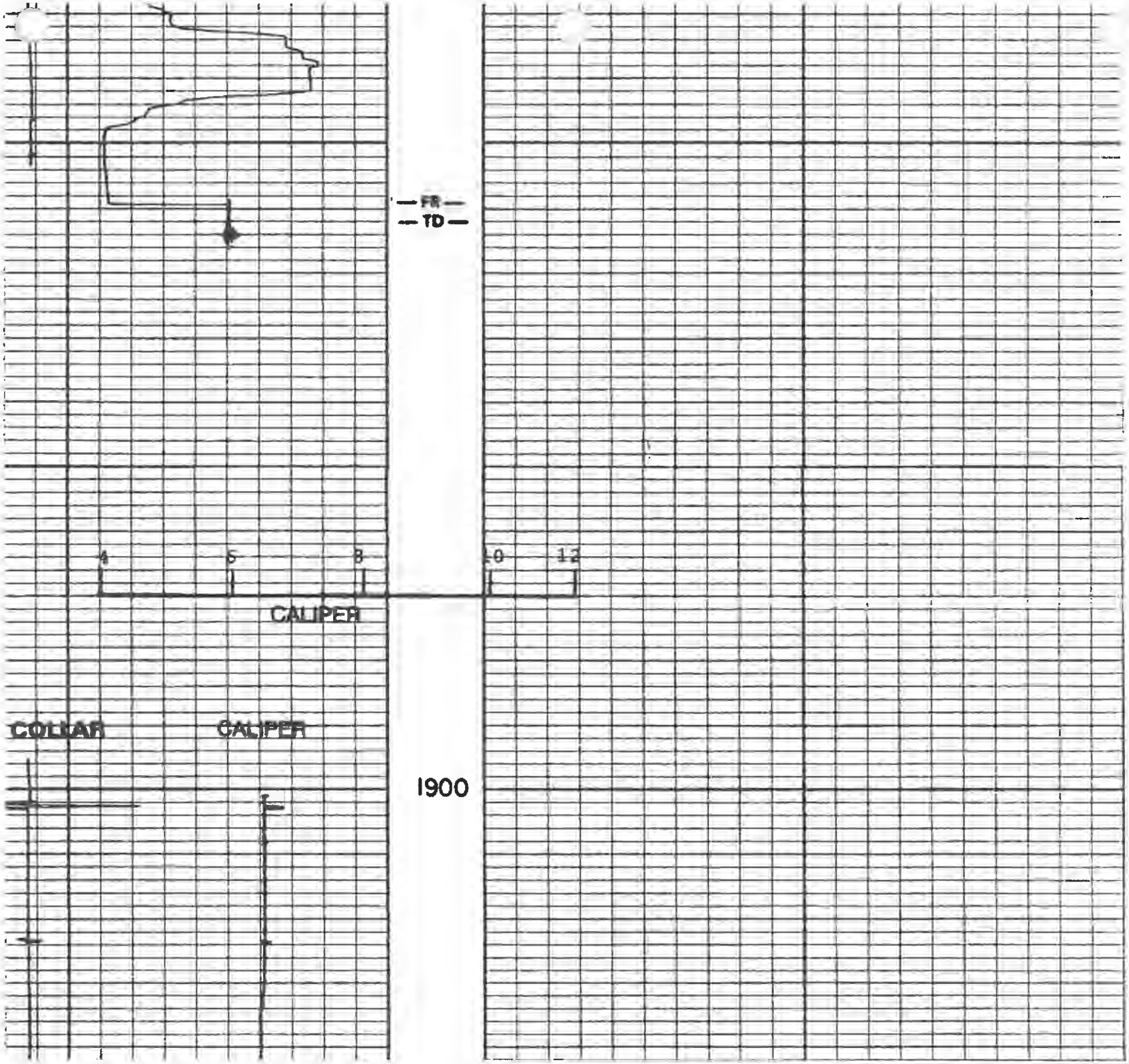
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CALIPER
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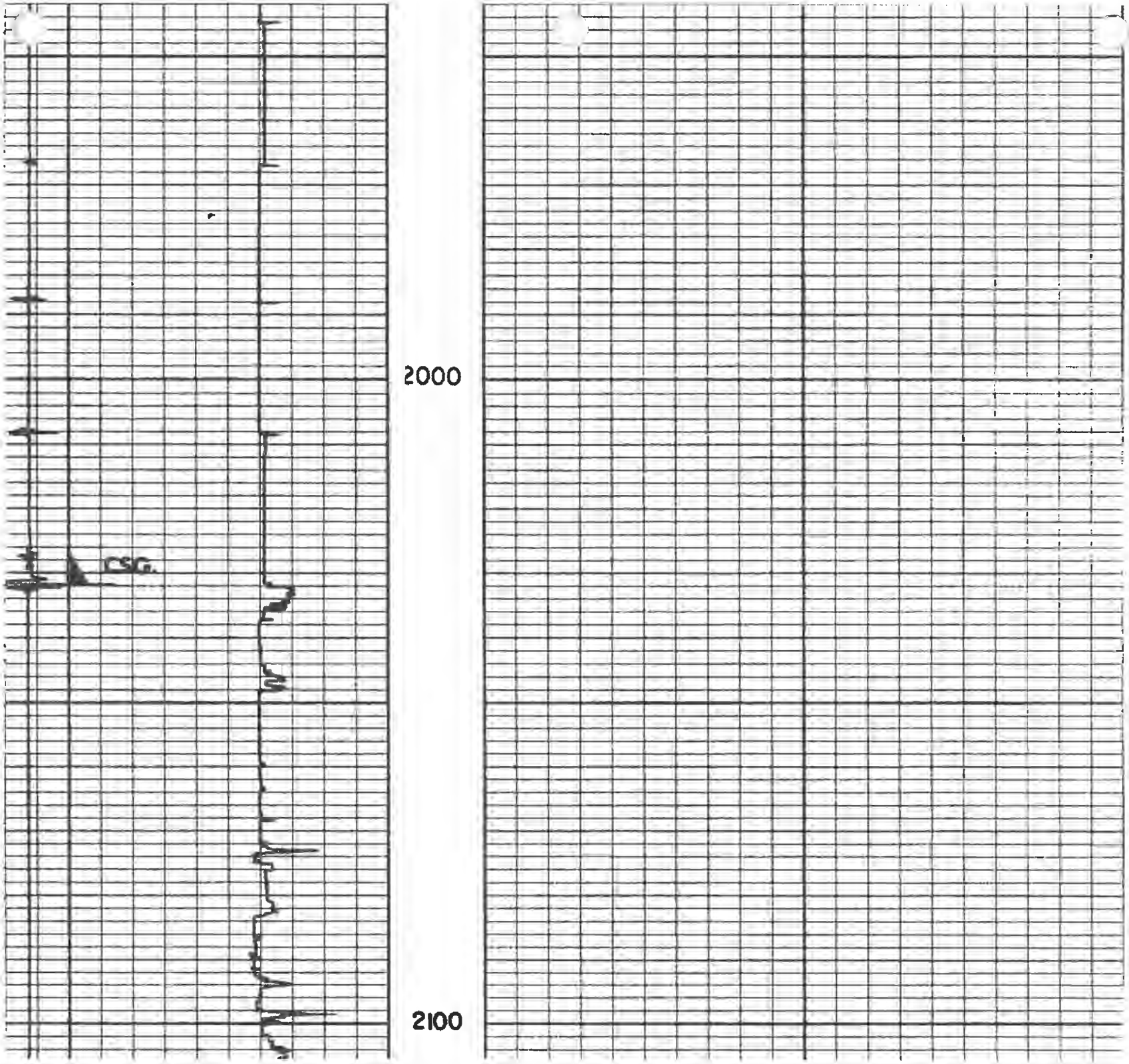
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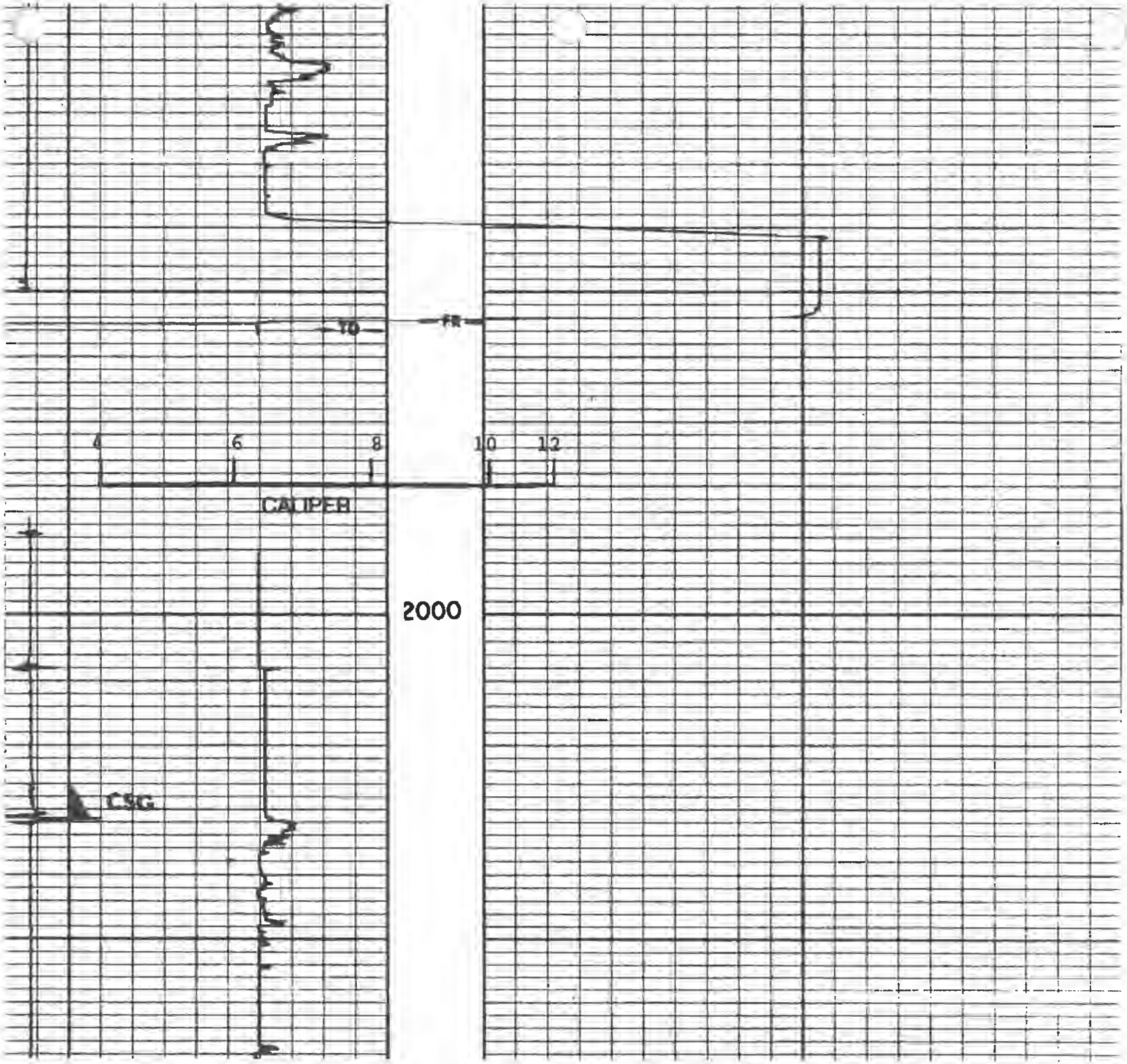
TO
FR
4
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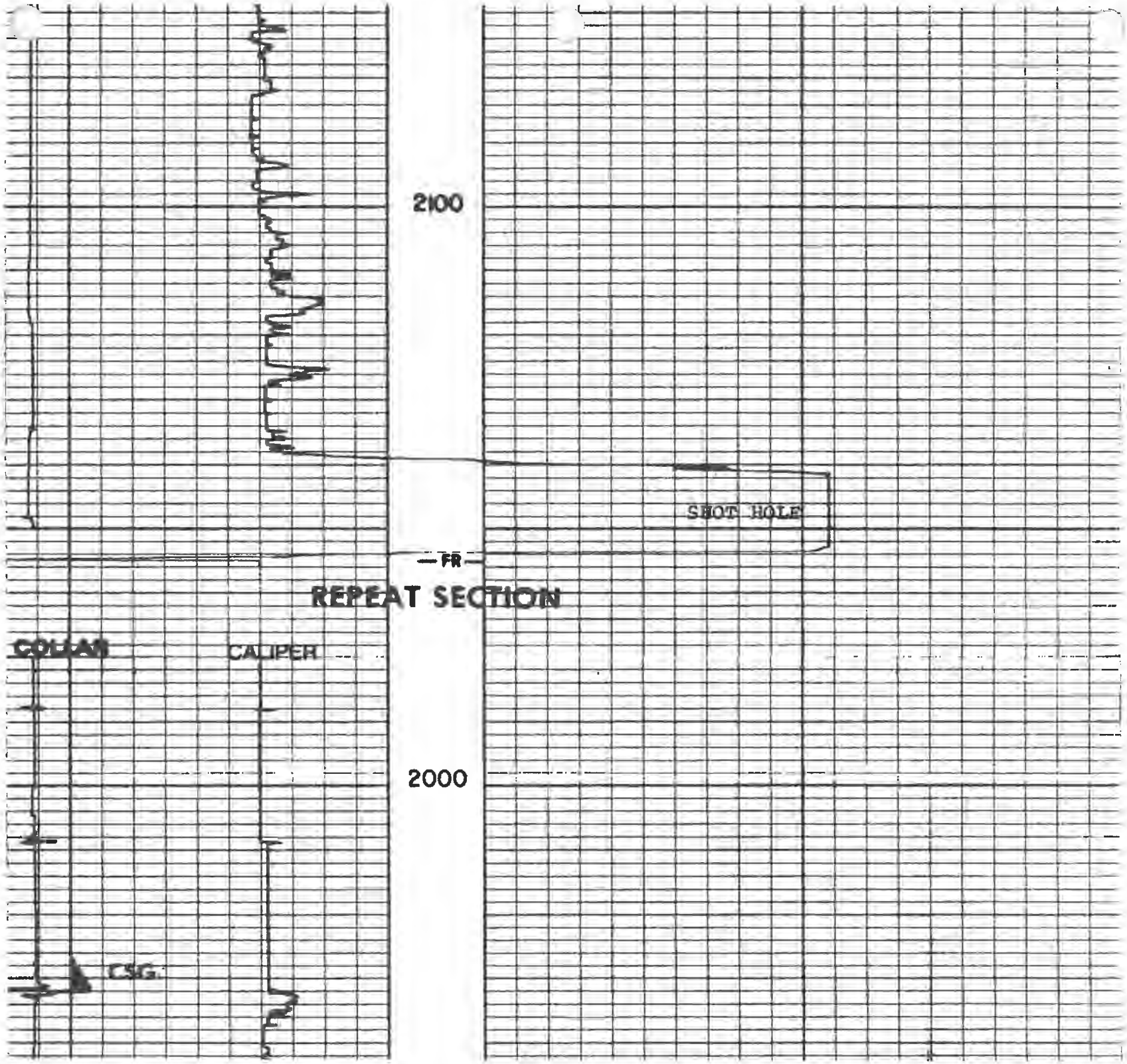
CALIPER
2000
CSG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REPEAT SECTION
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CALIPER
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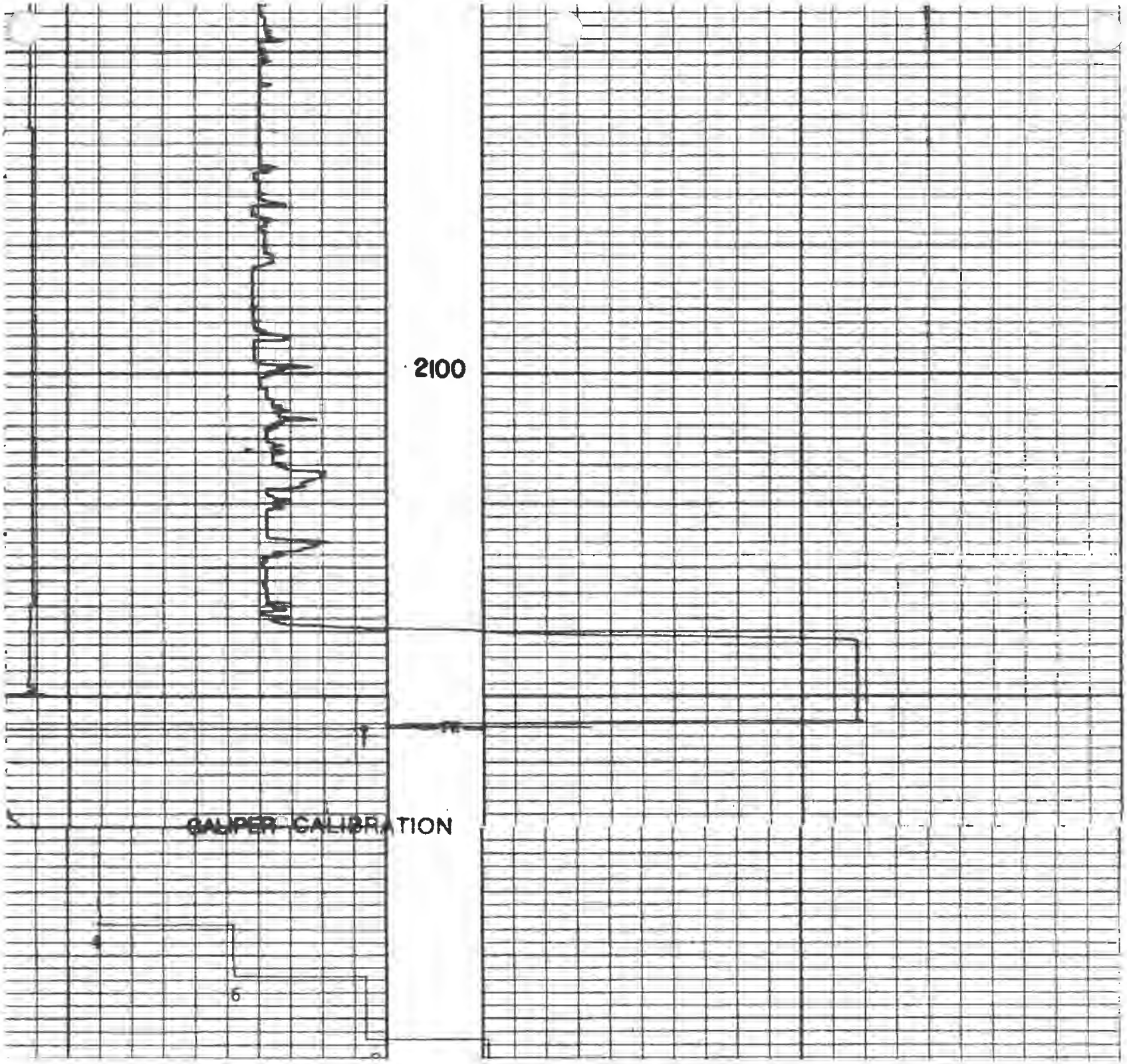
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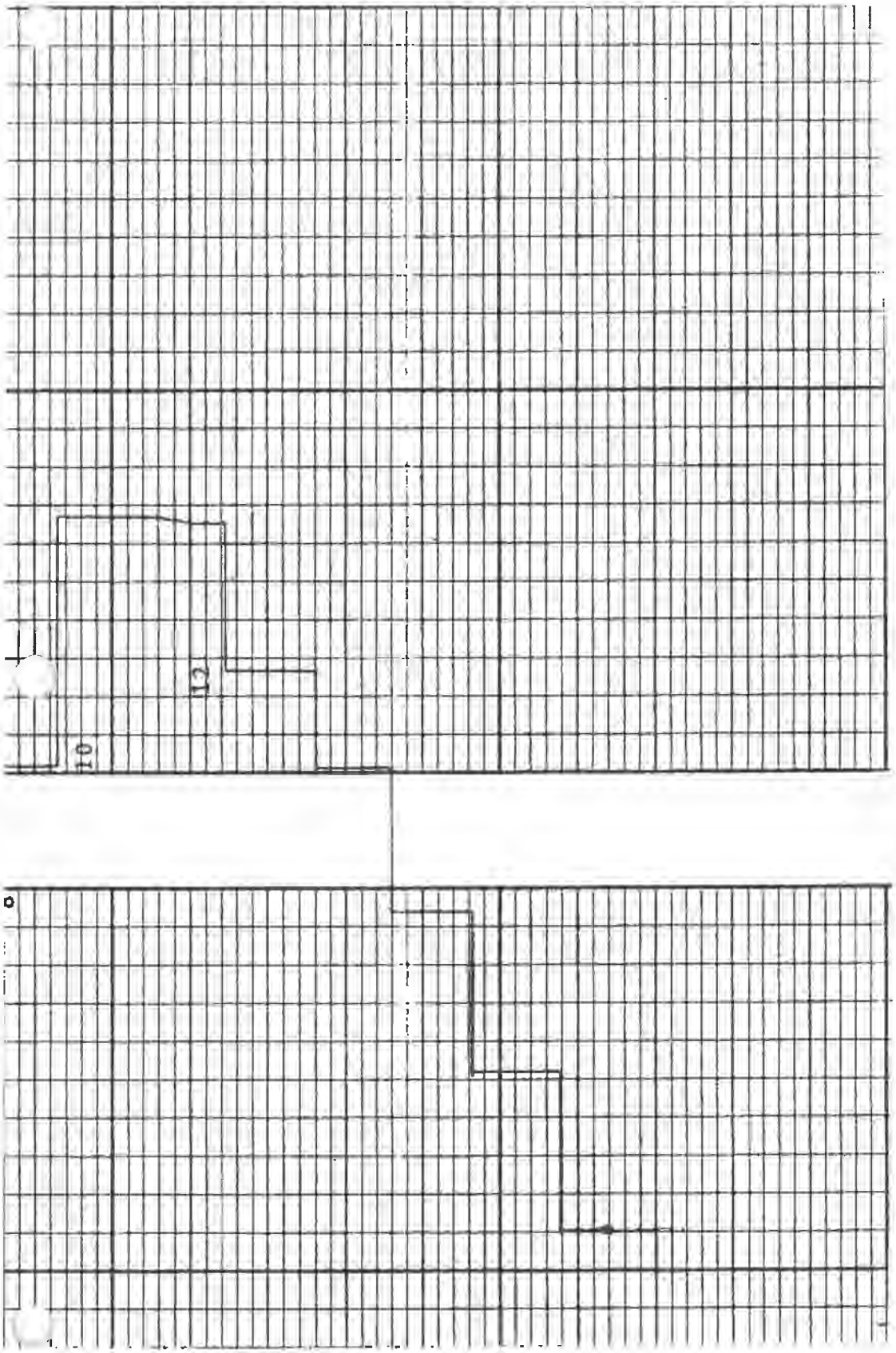
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WVGES GEOLOGY UNDERLIES IT ALL

"Pipeline"

Select County: (087) Roane

Enter Permit #: 2818

Get Data | Reset

Select datatypes: (Check All)

- Location
- Production
- Plugging
- Owner/Completion
- Stratigraphy
- Sample
- Pay/Show/Water
- Logs
- Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 2818

Report Time: Monday, May 18, 2020 12:10:39 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708702818	Roane	2818	Smithfield	Tariff	Otter	38.658928	-81.206457	482037	4278948.8

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708702818	7/1/1910	Original Loc	Completed	P A Tallman	1					Carter Oil			
4708702818	7/4/1913	Worked Over	Completed	P A Tallman	1					Carter Oil			
4708702818	9/1/1929	Worked Over	Completed	P A Tallman	1					South Penn Oil (S. Penn Nat. Gas)			
4708702818	2/4/1986	Worked Over	Completed	P A Tallman Ray Elmore	1				Anna Lee Collins	Pennzoil Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT
4708702818	7/1/1910	5/10/1910	1064	Ground Level	Tariff(Tlmn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	Cable Tool	Shot	2115		2115		0	0	0	25			0	0	0
4708702818	7/4/1913	-/-/-	1064	Ground Level	Tariff(Tlmn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil	unknown	Shot	2115		0		0	0	0	0			0	0	0
4708702818	9/1/1929	-/-/-	1064	Ground Level	Tariff(Tlmn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	unknown	Shot	2115		0		0	0	6	30			0	0	0
4708702818	2/4/1986	-/-/-	1064	Ground Level	Tariff(Tlmn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Development Well	Development Well	Oil	unknown	Acid+Frac	2115		0		0	0	0	24			0	0	0

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708702818	7/4/1913	Pay	Oil & Gas	Vertical			0	Big Injun (Price&eq)	0	0			
4708702818	7/1/1910	Pay	Oil	Vertical	2082	Big Injun (Price&eq)	0		0	25			
4708702818	9/1/1929	Pay	Oil	Vertical			0	Big Injun (Price&eq)	6	30			
4708702818	7/1/1910	Show	Gas	Vertical			2035	Big Lime	0	0			
4708702818	2/4/1986	Pay	Oil	Vertical	2059	Big Lime	2115	Undf PRICE blw INJN	0	24			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702818	Pennzoil Company	1981	1,118	0	0	0	0	0	0	0	0	0	0	0	0
4708702818	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708702818	Nicholson, Arthur & Kenneth	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708702818	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702818	Pennzoil Products Company	1989	733	62	55	95	60	56	63	0	72	108	73	0	89
4708702818	Pennzoil Products Company	1990	445	51	32	52	43	16	31	31	30	62	7	48	42
4708702818	Pennzoil Products Company	1991	435	36	34	41	34	43	35	45	43	38	31	30	25
4708702818	Pennzoil Products Company	1992	287	25	22	16	15	16	19	24	33	32	36	27	22
4708702818	Pennzoil Products Company	1993	267	25	22	25	19	36	23	24	17	16	27	27	6
4708702818	Pennzoil Products Company	1994	90	6	15	10	13	2	0	8	2	9	6	11	8
4708702818	Pennzoil Products Company	1995	122	5	25	3	5	3	2	3	9	17	20	16	14
4708702818	Pennzoil Products Company	1996	110	9	6	6	7	7	8	6	7	17	11	12	14
4708702818	Pennzoil Products Company	1997	41	5	5	6	6	6	10	3	0	0	0	0	0
4708702818	Pennzoil Products Company	1998	65	0	0	12	10	8	10	10	10	5	0	0	0
4708702818	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708702818	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708702818	Triad Resources, Inc.	2004	88	6	5	8	9	9	11	8	9	11	8	4	0
4708702818	Triad Resources, Inc.	2005	101	9	5	12	2	3	7	8	12	10	12	12	9
4708702818	Triad Resources, Inc.	2006	93	10	7	7	6	8	8	8	8	8	8	8	7
4708702818	Triad Resources, Inc.	2007	62	8	7	7	5	2	2	6	6	6	4	5	4
4708702818	Triad Resources, Inc.	2008	72	5	4	4	4	3	5	4	3	7	8	11	14
4708702818	Triad Resources, Inc.	2009	33	8	3	3	3	5	5	3	0	0	1	1	1
4708702818	Triad Hunter LLC	2010	39	6	2	3	3	3	5	5	4	3	3	2	0
4708702818	Triad Hunter LLC	2011	11	1	1	1	1	0	3	1	1	1	1	0	0
4708702818	Triad Hunter LLC	2012	15	1	1	1	2	2	2	1	2	2	1	0	0
4708702818	Triad Hunter LLC	2013	2,978	348	61	0	53	338	426	368	309	276	300	260	239
4708702818	Triad Hunter LLC	2014	8	1	1	1	0	1	0	1	0	1	1	1	0
4708702818	Triad Hunter LLC	2015	6	0	0	0	1	3	1	1	0	0	0	0	0
4708702818	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702818	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702818	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702818	Pennzoil Company	1981	509	0	0	0	0	0	0	0	0	0	0	0	0
4708702818	Pennzoil Company	1982	665	0	0	0	0	0	0	0	0	0	0	0	0
4708702818	Nicholson, Arthur & Kenneth	1983	630	0	0	0	0	0	0	0	0	0	0	0	0
4708702818	Pennzoil Company	1984	1,029	0	0	0	0	0	0	0	0	0	0	0	0
4708702818	Pennzoil Products Company	1989	2,505	276	217	222	199	195	195	235	216	208	197	178	167
4708702818	Pennzoil Products Company	1990	1,355	157	144	114	74	86	90	110	126	134	122	96	102
4708702818	Pennzoil Products Company	1991	1,270	124	114	120	91	125	118	105	91	100	85	89	108
4708702818	Pennzoil Products Company	1992	1,007	95	80	68	77	77	89	93	105	81	74	88	80
4708702818	Pennzoil Products Company	1993	748	87	62	117	65	67	54	55	69	84	18	18	52
4708702818	Pennzoil Products Company	1994	467	48	57	9	0	30	9	48	30	31	27	21	159
4708702818	Pennzoil Products Company	1995	898	47	38	36	30	48	62	117	118	85	115	90	112

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4708702818	Pennzoil Products Company	1996	1,272	110	121	124	116	108	91	94	101	95	114	101	97
4708702818	Pennzoil Products Company	1997	410	86	98	87	98	41	0	0	0	0	0	0	0
4708702818	Pennzoil Products Company	1998	586	82	96	111	94	84	78	41	0	0	0	0	0
4708702818	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708702818	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708702818	Triad Resources, Inc.	2004	329	31	31	31	31	30	30	22	28	24	23	21	27
4708702818	Triad Resources, Inc.	2005	136	12	8	9	11	9	14	11	11	12	16	13	10
4708702818	Triad Resources, Inc.	2006	140	8	11	12	14	8	9	12	11	15	11	13	16
4708702818	Triad Resources, Inc.	2007	162	13	16	10	18	13	15	13	14	12	13	12	13
4708702818	Triad Resources, Inc.	2008	166	13	17	9	16	11	8	14	14	19	17	11	17
4708702818	Triad Resources, Inc.	2009	108	4	0	10	15	13	10	9	9	8	12	10	8
4708702818	Triad Hunter LLC	2010	55	11	2	9	2	2	10	2	2	11	2	2	0
4708702818	Triad Hunter LLC	2011	109	8	11	9	8	9	9	9	9	9	10	11	7
4708702818	Triad Hunter LLC	2012	93	5	7	6	5	8	11	4	12	9	9	7	10
4708702818	Triad Hunter LLC	2013	996	106	33	86	114	39	108	125	82	78	81	75	69
4708702818	Triad Hunter LLC	2014	91	7	6	8	8	8	7	6	9	8	7	8	9
4708702818	Triad Hunter LLC	2015	75	8	5	3	8	6	8	6	3	7	5	11	5
4708702818	Triad Hunter LLC	2016	0												
4708702818	Ground Resources, LLC	2017	0												
4708702818	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702818	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702818	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702818	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702818	Triad Hunter LLC	2016	0												
4708702818	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702818	Triad Hunter LLC	2016	0												
4708702818	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708702818	Original Loc	Cow Run (undiff)	Well Record	640	Reasonable	85	Reasonable	1064	Ground Level
4708702818	Original Loc	Homewd Ss/2n Cow Run	Well Record	742	Reasonable	118	Reasonable	1064	Ground Level
4708702818	Original Loc	1st Salt Sand	Well Record	1478	Reasonable	17	Reasonable	1064	Ground Level
4708702818	Original Loc	2nd Salt Sand	Well Record	1555	Reasonable	8	Reasonable	1064	Ground Level
4708702818	Original Loc	3rd Salt Sand	Well Record	1618	Reasonable	255	Reasonable	1064	Ground Level
4708702818	Original Loc	Maxton	Well Record	1888	Reasonable	27	Reasonable	1064	Ground Level
4708702818	Original Loc	Little Lime	Well Record	1924	Reasonable	33	Reasonable	1064	Ground Level
4708702818	Original Loc	Big Lime	Well Record	1970	Reasonable	111	Reasonable	1064	Ground Level
4708702818	Original Loc	Big Injun (Price&eq)	Well Record	2081	Reasonable	31	Reasonable	1064	Ground Level
4708702818	Original Loc	Undf PRICE blw INJN	Well Record	2112	Reasonable	0	Reasonable	1064	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708702818	0	2114		G C *	Y	N	0	2114											0	2114	N	Y	N						

Comment: *logs: caliper, CCL

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708702818_co.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

28/18

WELL NO. [illegible]

VOLUME AND PRESSURE TESTS

Date Taken	Reading	Liquid	Opening	Pounds Pressure	1 Min.	5 Min.	10 Min.	30 Min.	60 Min.	Rock	Volume	Sand
11-27-1927								30 bbl. [illegible]				[illegible]

ANNUAL REPORT OF ROCK PRESSURE

Date	Time Shut In	Sand	Rock	Line Pressure	Shut In Pressure

REPAIRS TO WELL

Commenced	Completed	Drilled Deeper From (Ft.)	Drilled Deeper To (Ft.)	Shot	Production Before	Production After	Rock Pressure Before	Rock Pressure After
9-19-1927	Jan. 1927 11-27-1927	—	—	9-9-27	15 bbl. wk	36 bbl. wk		
					—	30 bbl. wk		

ABANDONMENT RECORD

Certificate No.

Filled With ____ From ____ To ____

Plug Size ____ Kind ____ Top Of Plug Set At ____

Filled With ____ From ____ To ____

Plug Size ____ Kind ____ Top Of Plug Set At ____

Filled With ____ From ____ To ____

Plug Size ____ Kind ____ Top Of Plug Set At ____

Filled With ____ From ____ To ____

Plug Size ____ Kind ____ Top Of Plug Set At ____

Filled With ____ From ____ To ____

2818

RECEIVED
NOV 29 1995
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

WELL NO. 1717 NAME Tallman R. A. LEASE NO. 5918 ACRES 2350 N. S. 54 E. W. 24 DISTRICT SPENCER ✓

District or Twp. Smithfield
County Roane
State W. Va.
Commenced 5/10/10
Completed 7/1/10
Contractor Devore & Cray $ 1.15 Per Foot
Purchased From Carter Oil Co.
Date Purchased 1-1-26
Date Connected
Sold To
Date Sold
Date Plugged
Date Abandoned

CASING AND TUBING

Size	Put in Well	Left in Well	Pulled
13 in. Casing			
10 in. Casing	293		293
8¼ in. Casing	742		742
6⅝ in. Casing	1972	1972	
6¼ in. Casing			
5⅝ in. Casing			
4⅞ in. Casing			
2 in. Tubing	2105	2105	2105
2 in. Tubing	2105		
in. Tubing			

SHOOTING

Date	Qts.	Sand	Depth	Test Before	Test After
7-5-10	10				
7-12-10	20				
7-11-13	40				
9-9-29	50	Injun		66 wx	66 wx

Initial Oil Production 25 bbls.

RECORD

Elevation at Mouth of Well

Formation	Top	Bottom	Thickness	Oil at	Gas at	Water at	Thickness of Pay
Pittsburgh Coal							
Red Rock Cave	317	450	133				
Cow Run (First)	640	725	85				
Cow Run (Second)	742	860	118				
Salt Sand (Upper)	1478	1495	17				
Salt Sand (Middle)	1555	1563	7				
Salt Sand (Lower)	1618	1873	255			1700	
Maxon	1888	1915	27				
Little Lime	1924	1957	33				
Pencil Cave							
Big Lime	1970	2081	111		2035	65'	
Keener Sand							
Injun Sand	2081	2112	31	2082			15
Squaw Sand							
Weir Sand							
Berea Sand							
Gantz Sand							
Fifty Foot Sand							
Thirty Foot Sand							
Gordon Stray							
Gordon Sand							
Fourth Sand							
Fifth Sand							
Corniferous Lime							
Niagara Lime							
Cave							
Clinton							
Medina Shale							
Trenton							
Total Depth	2115						

Remarks

PACKERS

Size	Make	Set at
2 x 8	[illegible]	[illegible]

2818

2818

RECEIVED

WR-35

APR 1 0 1986

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date April 9, 1986
Operator's
Well No. 1
Farm P. A. Tallman
API No. 47 - 087 - 2818-F

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil X / Gas ___ / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production ___ / Underground Storage ___ / Deep ___ / Shallow ___ /)

LOCATION: Elevation: 1064 Watershed Trace Fork
District: Smithfield County Roane Quadrangle Tariff 7.5'

COMPANY Pennzoil Company
ADDRESS P.O. Box 1588, Parkersburg, WV 26102
DESIGNATED AGENT James A. Crews
ADDRESS P.O. Box 1588, Parkersburg, WV 26102
SURFACE OWNER Ray Elmore
ADDRESS Newton, WV 25279
MINERAL RIGHTS OWNER Anna Lee Collins
ADDRESS 1009 Main Street, Point Pleasant, WV
OIL AND GAS INSPECTOR FOR THIS WORK Homer Dougherty ADDRESS Linden Rt., Box 3-A, Looneyville, WV
PERMIT ISSUED 12-27-85
DRILLING COMMENCED
DRILLING COMPLETED Frac: 2-4-86
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8			
7			
5 1/2			
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Big Injun Depth 2059 feet
Depth of completed well 2115 feet Rotary ___ / Cable Tools x
Water strata depth: Fresh n/a feet; Salt n/a feet
Coal seam depths: ___ Is coal being mined in the area? no

OPEN FLOW DATA
Producing formation Big Injun Pay zone depth 2072 feet
Gas: Initial open flow n/a Mcf/d Oil: Initial open flow 24 Bbl/d
Final open flow n/a Mcf/d Final open flow 24 Bbl/d
Time of open flow between initial and final tests 72 hours
Static rock pressure n/a psig (surface measurement) after ___ hours shut in
(If applicable due to multiple completion--)
Second producing formation ___ Pay zone depth ___ feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow ___ Mcf/d Oil: Final open flow ___ Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure ___ psig (surface measurement) after ___ hours shut in

ROANE 2818-FRAC

(Continue on reverse side)

2818

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Fractured: 2/4/86

Big Injun w/220 gls. acid, 89 bbls. 20# gelled water, 500# 20/40 sd

Open-Hole: 2059-2116

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all free and salt water, coal, oil and ga
See original well record previously submitted			

(Attach separate sheets as necessary)

Pennzoil Company
Well Operator

By: Curtis A. Lucas

Date: 4-9-86

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

2818

OGA 2818

McCullough

GAMMA RAY LOG

FILING NO.

PERMIT # 47-087- ~~9773~~ 2818

COMPANY PENNZOIL COMPANY

WELL P. A. TALLMAN # 1

FIELD TARIFF

COUNTY ROANE STATE WV

LOCATION: SYCAMORE

SEC. TWP. RGE.

OTHER SERVICES:

ELEVATIONS: KB 1098' DF 1097' GL 1090'

PERMANENT DATUM	GROUND LEVEL ELEV. 1090'
LOG MEASURED FROM	K.B. 10' ABOVE P.D.
DRILLING MEASURED FROM	K.B.
DATE	9-11-84
RUN NO.	ONE
TYPE LOG	GAMMA RAY/CALIPER
DEPTH-DRILLER	2220'
DEPTH-LOGGER	2116'
BOTTOM LOGGED INTERVAL	2116'
TOP LOGGED INTERVAL	SURF.
TYPE FLUID IN HOLE	WATER
SALINITY PPM CL.	-
DENSITY LB./GAL.	-
LEVEL	-
MAX. REC. TEMP. DEG. F.	-
OPR. RIG TIME	HRS.
RECORDED BY	D. WONG
WITNESSED BY	MR. McCRADY
DISTRICT	PARKERSBURG

BORE HOLE RECORD

RUN NO.	BIT	FROM	TO	SIZE	WGT.
ONE	5 1/4"	375'	T.D.	7"	

CASING RECORD

FROM	TO
SURF.	1972'

THIS HEADING AND LOG CONFORMS TO API RECOMMENDED STANDARD PRACTICE RP-33-G

FOLD HERE

EQUIPMENT DATA

GAMMA RAY

RUN NO.	ONE
TOOL MODEL NO.	5547
DIAM.	3 1/2"
DETECT. MODEL NO.	5547-D-[illegible]
TYPE	S[illegible]
LENGTH	
DIST. TO N. SOURCE	

NEUTRON

RUN NO.	
LOG TYPE	
TOOL MODEL NO.	
DIAM.	
DETECT. MODEL NO.	
TYPE	
LENGTH	
SOURCE MODEL NO.	
SERIAL NO.	
SPACING	
TYPE	
STRENGTH	

GENERAL

HOIST TRUCK NO.	84010
INST. TRUCK NO.	84010
TOOL SERIAL NO.	54918

LOGGING DATA

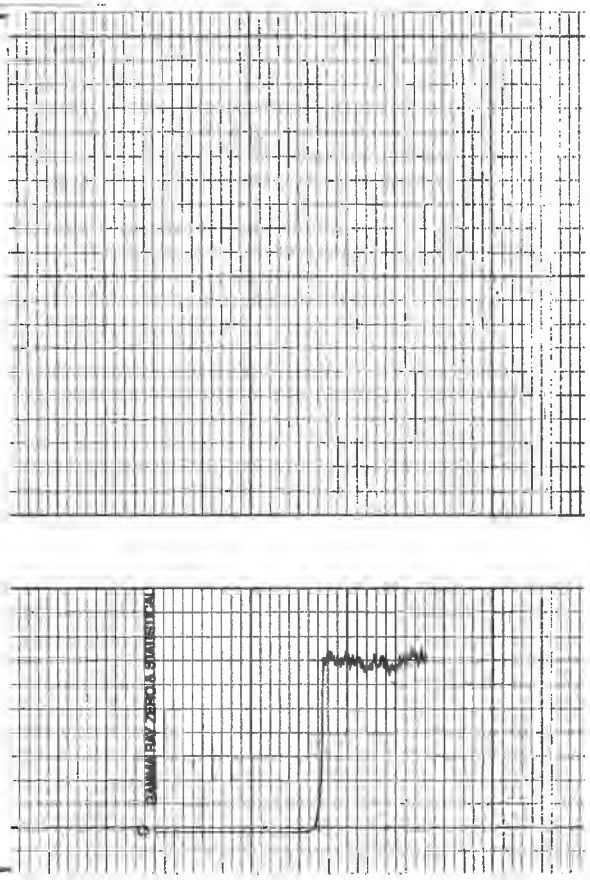
GAMMA RAY

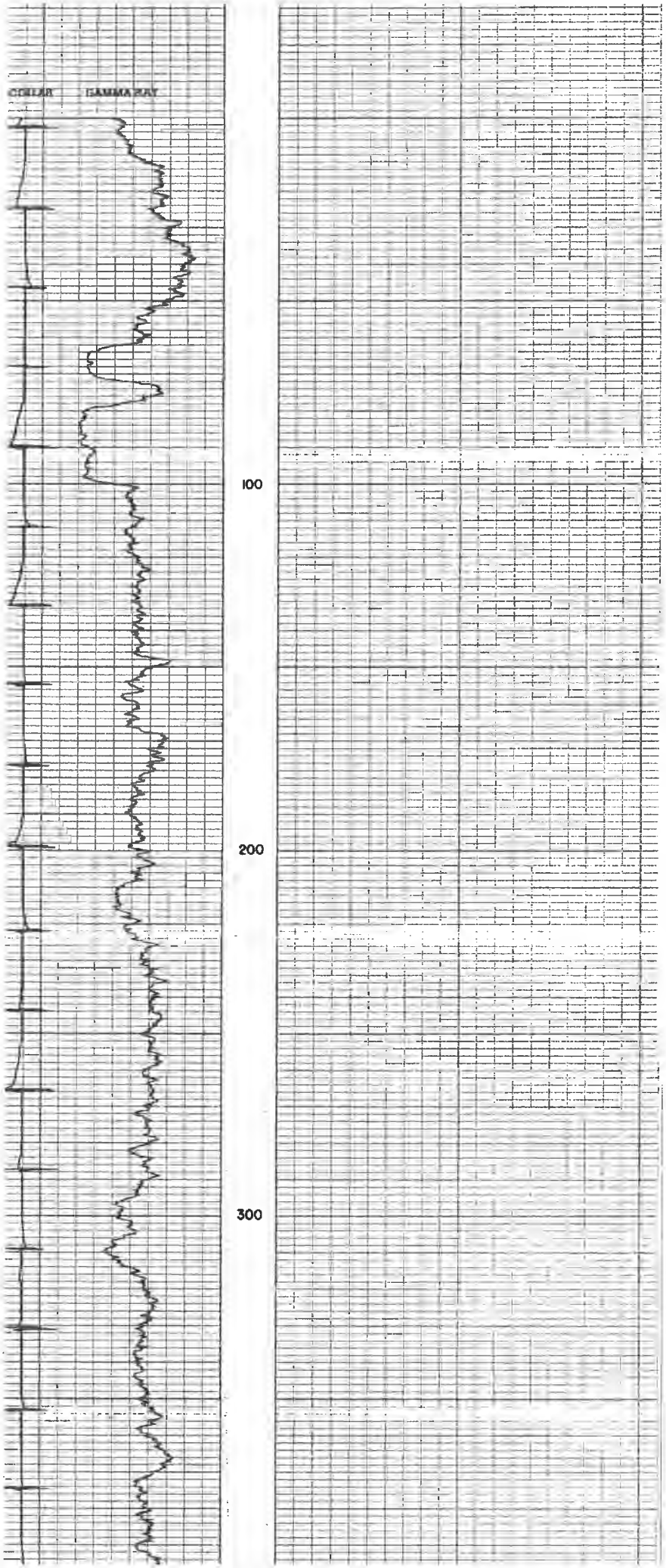
RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED FT./MIN.	T.C. SEC.	SENS SETTINGS	ZERO DIV. L. or R.	API GR UNITS PER LOG DIV.	T.C. SEC.	SENS SETTINGS	ZERO DIV. L. or R.	API N. UNITS PER LOG DIV.
ONE	2116'	SURF	30	2	D=300 U=[illegible]						

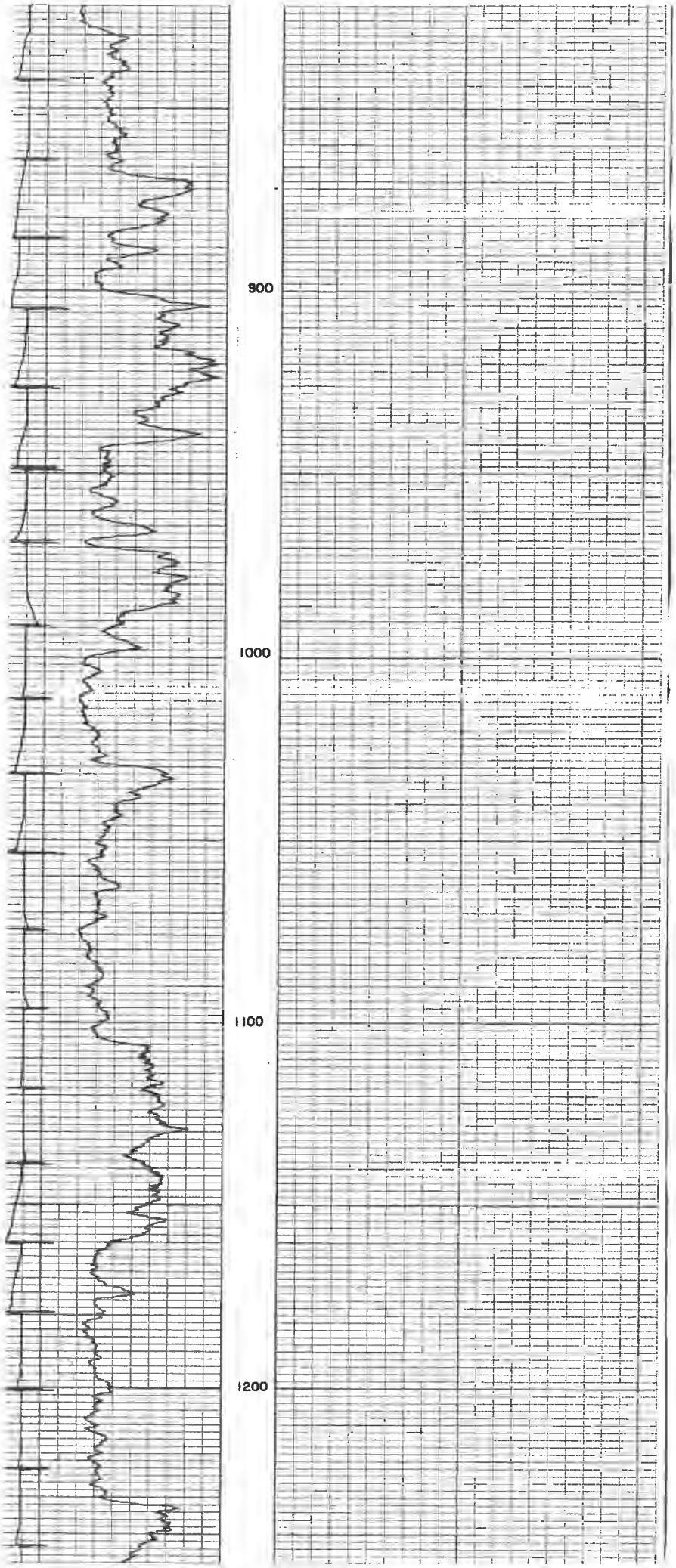
REFERENCE LITERATURE:

REMARKS:

FOLD HERE




CORLAR
GAMMA RAY
100
200
300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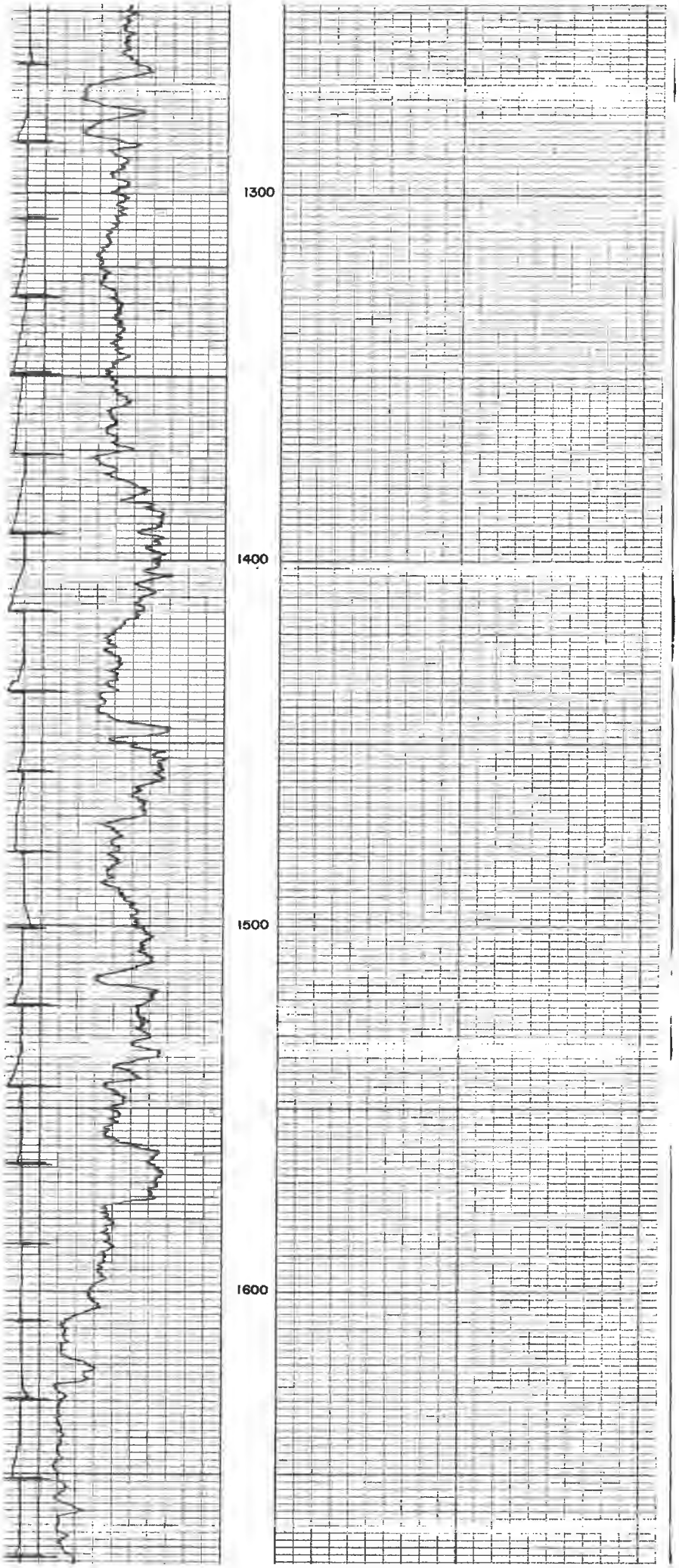
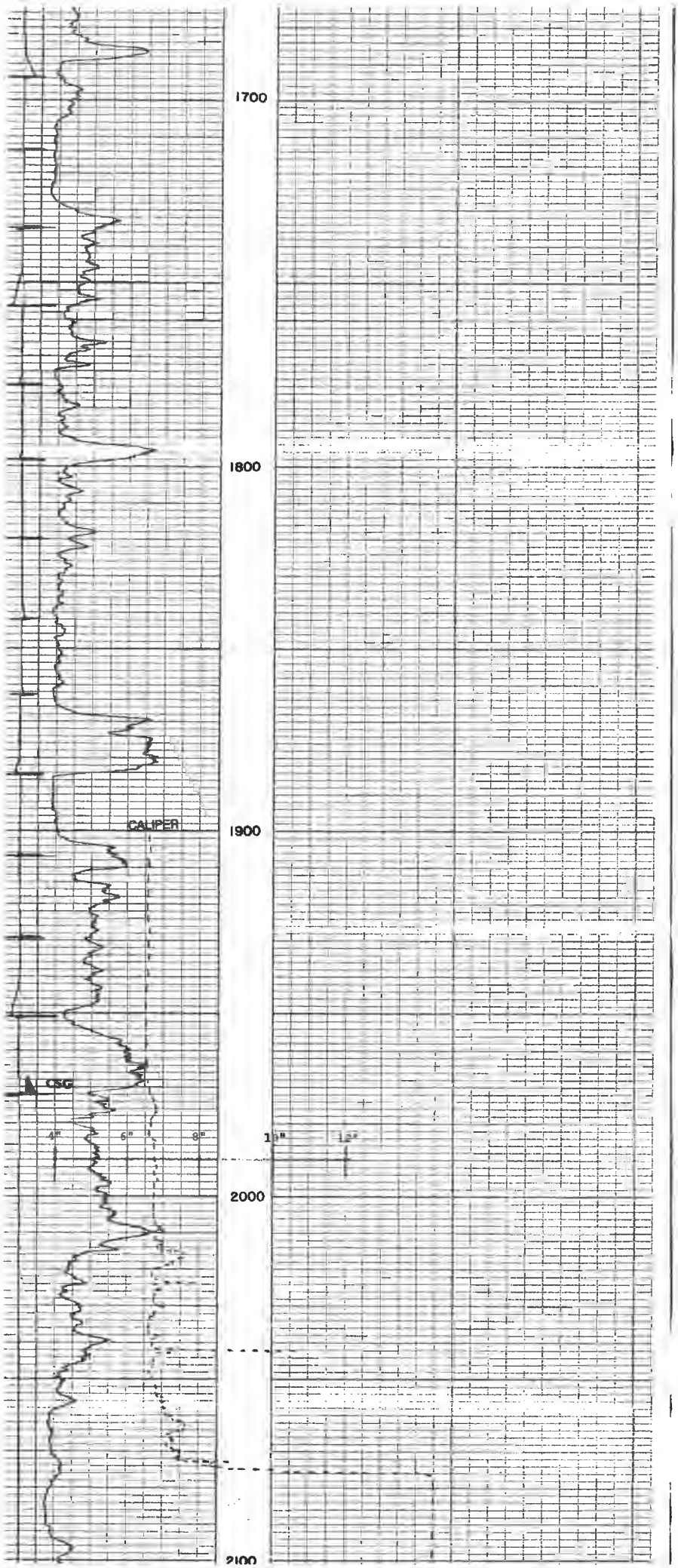
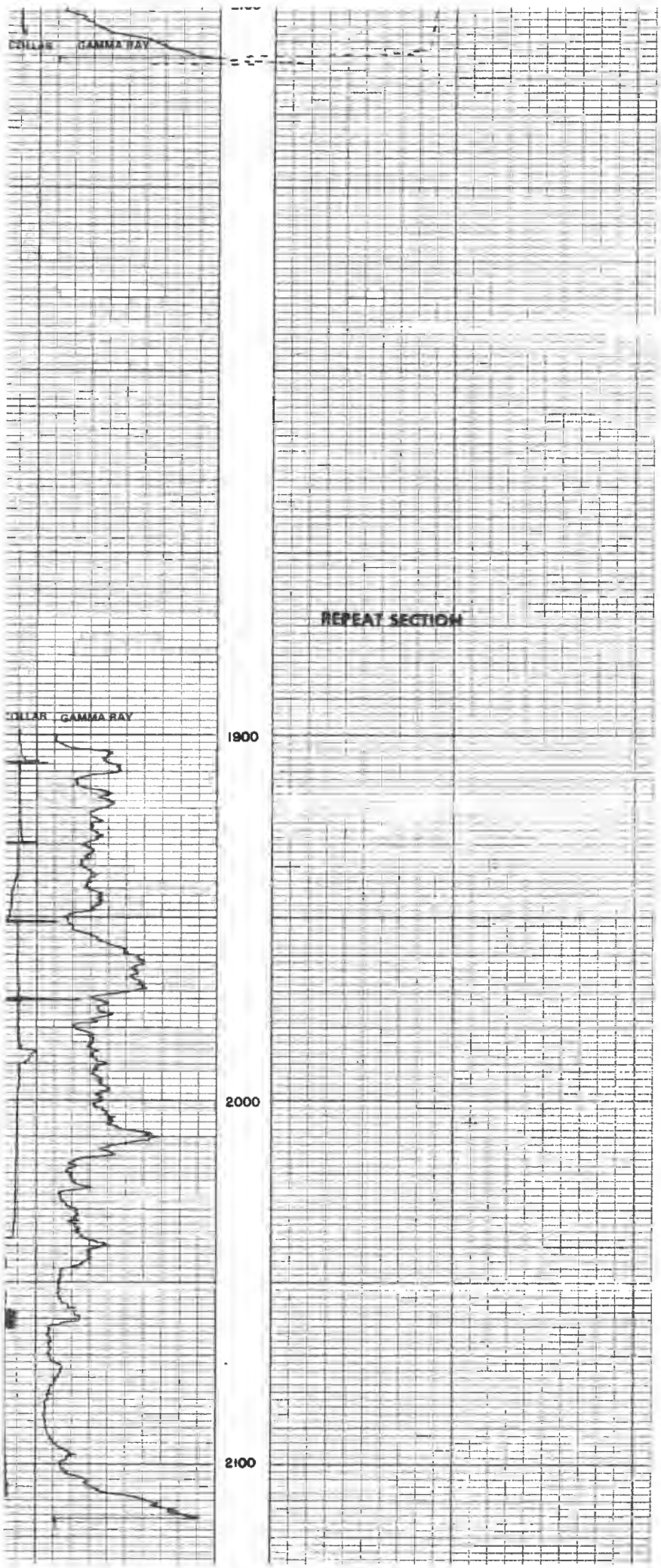
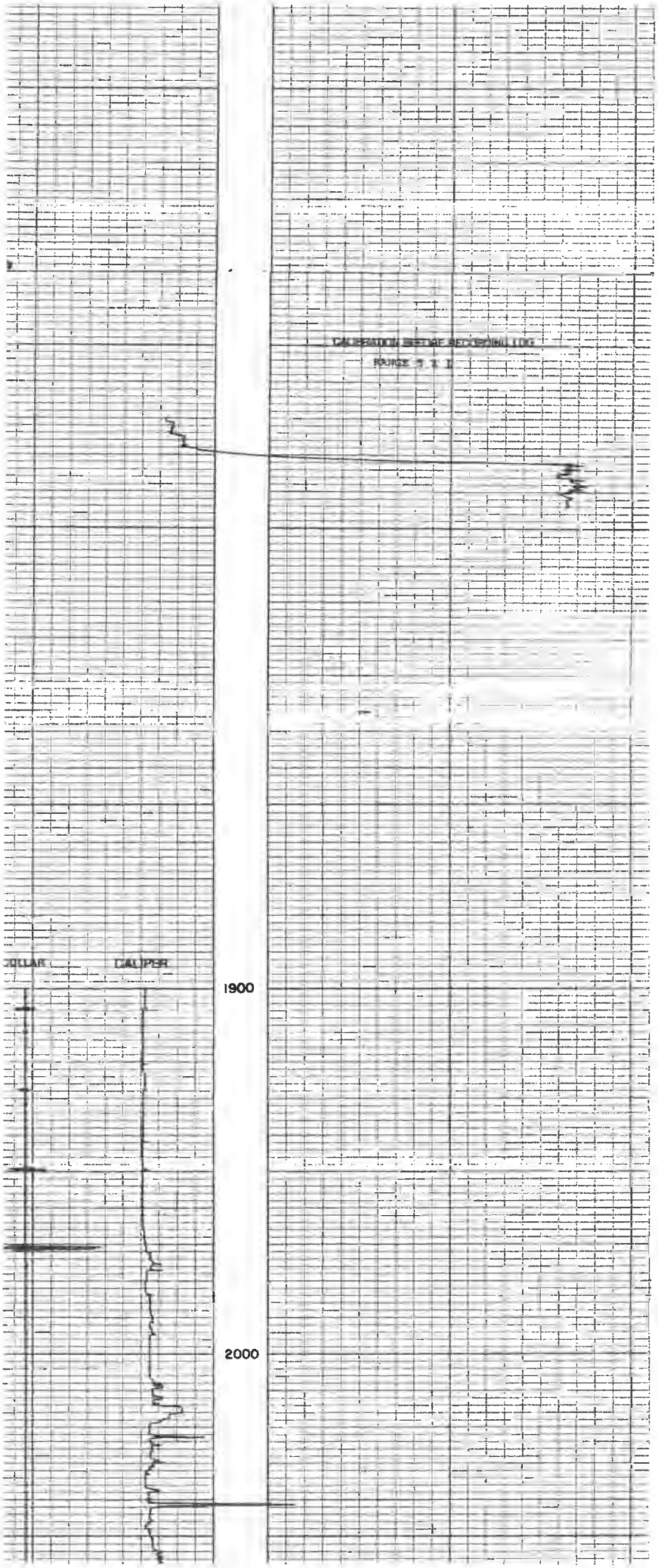
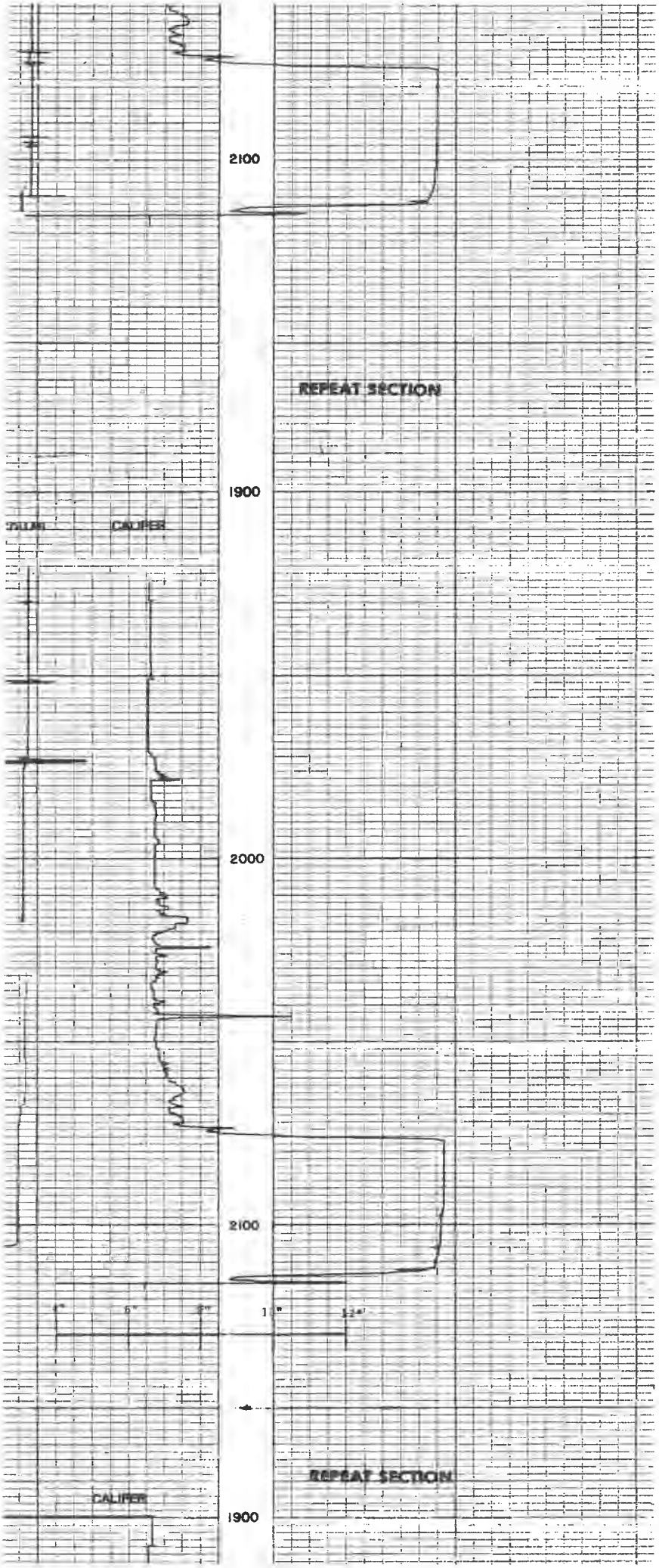
1000
1100
1200

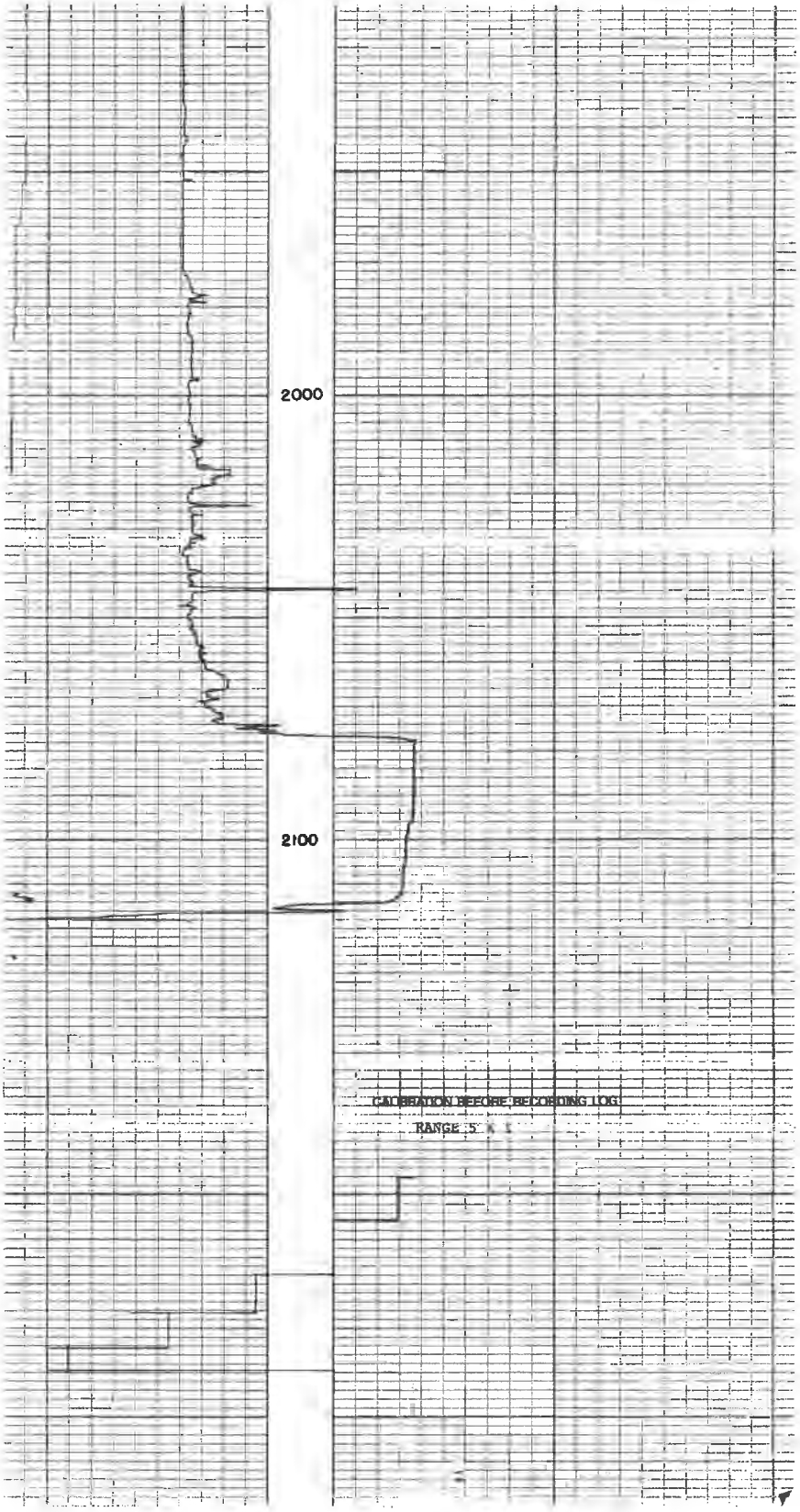

1300
1400
1500
1600


1700
1800
1900
2000
2100
CALIPER
CSG
4"
6"
8"
10"
12"


COLLAR
GAMMA RAY
REPEAT SECTION
COLLAR
GAMMA RAY
1900
2000
2100


CALIBRATION BEFORE RECORDING LOG
RANGE 3 X 1
COLLAR
CALIPER
1900
2000


2100
REPEAT SECTION
1900
CALIPER
2000
2100
REPEAT SECTION
CALIPER
1900


2000
2100
CALIBRATION BEFORE RECORDING LOG
RANGE 5 x 1

2820

NO ORIGINAL DRILL LOG

WVGES
OGY UNDERLIES IT ALL
"Pipeline"

Select County: (087) Roane
Enter Permit #: 2820
Get Data | Reset

Select datatypes: (Check All)
Location | Production | Plugging
Owner/Completion | Stratigraphy | Sample
Pay/Show/Water | Logs | Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 2820

Report Time: Monday, May 18, 2020 9:09:06 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_7	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708702820	Roane	2820	unknown	unknown	unknown				

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708702820	-/-/-	Original Loc	Completed	P A Tallman		3				Pennzoil Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	BH_P_BEF	BH_P_
4708702820	-/-/-	-/-/-			Unnamed			unclassified	unclassified	not available	unknown	unknown			0		0	0	0	0			0	0	0	0		

There is no Pay data for this well

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRO_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702820	Pennzoil Company	1981	1,118	0	0	0	0	0	0	0	0	0	0	0	0
4708702820	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708702820	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708702820	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702820	Pennzoil Products Company	1989	204	13	15	10	6	8	17	24	17	30	21	19	24
4708702820	Pennzoil Products Company	1990	227	19	11	23	12	11	24	22	17	44	3	23	18
4708702820	Pennzoil Products Company	1991	377	28	28	31	27	27	46	44	29	31	29	30	27
4708702820	Pennzoil Products Company	1992	339	24	22	17	16	24	26	34	40	31	38	35	32
4708702820	Pennzoil Products Company	1993	287	18	21	24	20	27	21	33	28	26	26	22	21
4708702820	Pennzoil Products Company	1994	182	27	16	10	14	8	11	18	18	10	12	22	16
4708702820	Pennzoil Products Company	1995	74	13	5	3	5	4	4	4	6	7	7	9	7
4708702820	Pennzoil Products Company	1996	45	4	3	2	3	3	4	2	3	6	3	6	6
4708702820	Pennzoil Products Company	1997	23	3	3	3	4	4	5	1	0	0	0	0	0
4708702820	Pennzoil Products Company	1998	38	0	0	5	3	2	4	4	5	5	10	0	0
4708702820	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702820	Triad Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702820	Triad Resources, Inc.	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702820	Triad Hunter LLC	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702820	Triad Hunter LLC	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702820	Triad Hunter LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702820	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702820	Triad Hunter LLC	2014	15	0	0	0	0	1	3	1	3	2	2	1	2
4708702820	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702820	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702820	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702820	Ground Resources, LLC	2018	8	0	0	0	0	0	0	0	0	0	0	0	8

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRO_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702820	Pennzoil Company	1981	509	0	0	0	0	0	0	0	0	0	0	0	0
4708702820	Pennzoil Company	1982	665	0	0	0	0	0	0	0	0	0	0	0	0
4708702820	Pennzoil Company	1983	630	0	0	0	0	0	0	0	0	0	0	0	0
4708702820	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702820	Pennzoil Products Company	1989	607	28	25	30	53	51	47	65	63	57	63	67	58
4708702820	Pennzoil Products Company	1990	763	70	41	82	55	63	53	78	51	65	51	73	81
4708702820	Pennzoil Products Company	1991	1,140	93	89	78	118	123	80	85	87	102	90	83	112
4708702820	Pennzoil Products Company	1992	1,156	101	86	99	103	107	108	92	111	104	104	63	78
4708702820	Pennzoil Products Company	1993	890	83	64	89	57	91	87	91	66	66	61	80	55
4708702820	Pennzoil Products Company	1994	641	48	61	41	41	63	71	51	58	64	56	54	33
4708702820	Pennzoil Products Company	1995	573	50	42	56	46	53	42	50	43	46	56	40	49
4708702820	Pennzoil Products Company	1996	542	39	43	47	57	39	35	31	32	44	48	71	56
4708702820	Pennzoil Products Company	1997	218	41	62	53	44	18	0	0	0	0	0	0	0
4708702820	Pennzoil Products Company	1998	319	32	23	28	42	29	36	41	47	41	0	0	0
4708702820	Triad Resources, Inc.	2002	12	1	1	1	1	1	1	1	1	1	1	1	1
4708702820	Triad Resources, Inc.	2008	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702820	Triad Resources, Inc.	2009	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702820	Triad Hunter LLC	2010	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702820	Triad Hunter LLC	2011	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702820	Triad Hunter LLC	2012	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702820	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702820	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702820	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702820	Triad Hunter LLC	2016	216					33	22	24	33	23	33	28	22
4708702820	Ground Resources, LLC	2017	329	33	17	31	31	25	28	30	22	26	36	28	22
4708702820	Ground Resources, LLC	2018	314	20	23	22	29	28	29	21	24	21	37	31	29

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

2820

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702820	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702820	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702820	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702820	Triad Hunter LLC	2016	0												
4708702820	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702820	Triad Hunter LLC	2016	0												
4708702820	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

There is no Stratigraphy data for this well

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708702820	1300	2072		G,*	Y	N	1300	2064											1300	2072	N	Y	N						

Comment: *Logs: Amplitude, sonic seismogram

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708702820go.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:

- d density (includes bulk density, compensated density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:

- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

2820

RDA 2820

NL McCulloug

BOND CEMENT AND OR SONIC SEISMOGR

FILING NO.

2820

COMPANY PENNZOIL

WELL P. A. TALLMAN #3

FIELD TARIFF

COUNTY ROANE STATE

LOCATION

SEC. TWP. RGE.

PERMANENT DATUM GROUND LEVEL ELEV.

LOG MEASURED FROM GROUND LEVEL

DRILLING MEASURED FROM

DATE	9/8/83
RUN NO.	ONE
TYPE LOG	GR/CEMENT BOND
DEPTH DRILLER	
DEPTH LOGGER	2076
BOTTOM LOGGED INTERVAL	2072
TOP LOGGED INTERVAL	1300
TYPE FLUID IN HOLE	WATER
SALINITY PPM CL.	
DENSITY LB /GAL.	
LEVEL	FULL
MAX. REC. TEMP. DEG. F.	
OPR. RIG TIME	
RECORDED BY	S. McDOWELL
WITNESSED BY	MR. PUTSCHER

RUN	BORE HOLE RECORD			CASING RE		
NO.	BIT	FROM	TO	SIZE	WGT.	FRO

CORD

TO

ELEVATIONS

KB

DF

GL

OTHER SERVICES

WV

h

AM LOG

FOLD HERE

THIS HEADING AND LOG CONFORMS TO API RECOMMENDED STANDARD PRACTICE RP 33

LOGGING AND EQUIPMENT DATA BOND CEMENT LOG

DATE RECORDED	9/8/83		TOOL MODEL NO	5537	
TIME STARTED			DIAMETER	1.75"	
TIME FINISHED			LENGTH	5'	
LOGGED INTERVAL					
LOGGED CEMENT TOP					

CEMENTING DATA

	1	2	SQUEEZE NO 1	SQUEEZE NO. 2	SQUEEZE NO. 3
DATE AND HOUR SET					
SETTING TIME (HRS.)					
TYPE CEMENT					
SACKS USED					
PRECEDING FLUID					
% ADDITIVE					
% RETARDER					
SLURRY WEIGHT					
BREAKDOWN PRESSURE					
SURFACE MAX. PRESS					
BOTTOM MAX. PRESS.					

GAMMA RAY

RUN NO.	ONE		
TOOL MODEL NO.	5537		
DIAM.	1.75"		
DETECT. MODEL NO.	5575-25		
TYPE	SCINT		
LENGTH	3"		
DIST. TO N. SOURCE			

NEUTRON

RUN NO			
LOG TYPE			
TOOL MODEL NO.			
DIAM.			
DETECT. MODEL NO.			
TYPE			
LENGTH			
SOURCE MODEL NO.			
SERIAL NO.			
SPACING			
TYPE			
STRENGTH			

GENERAL

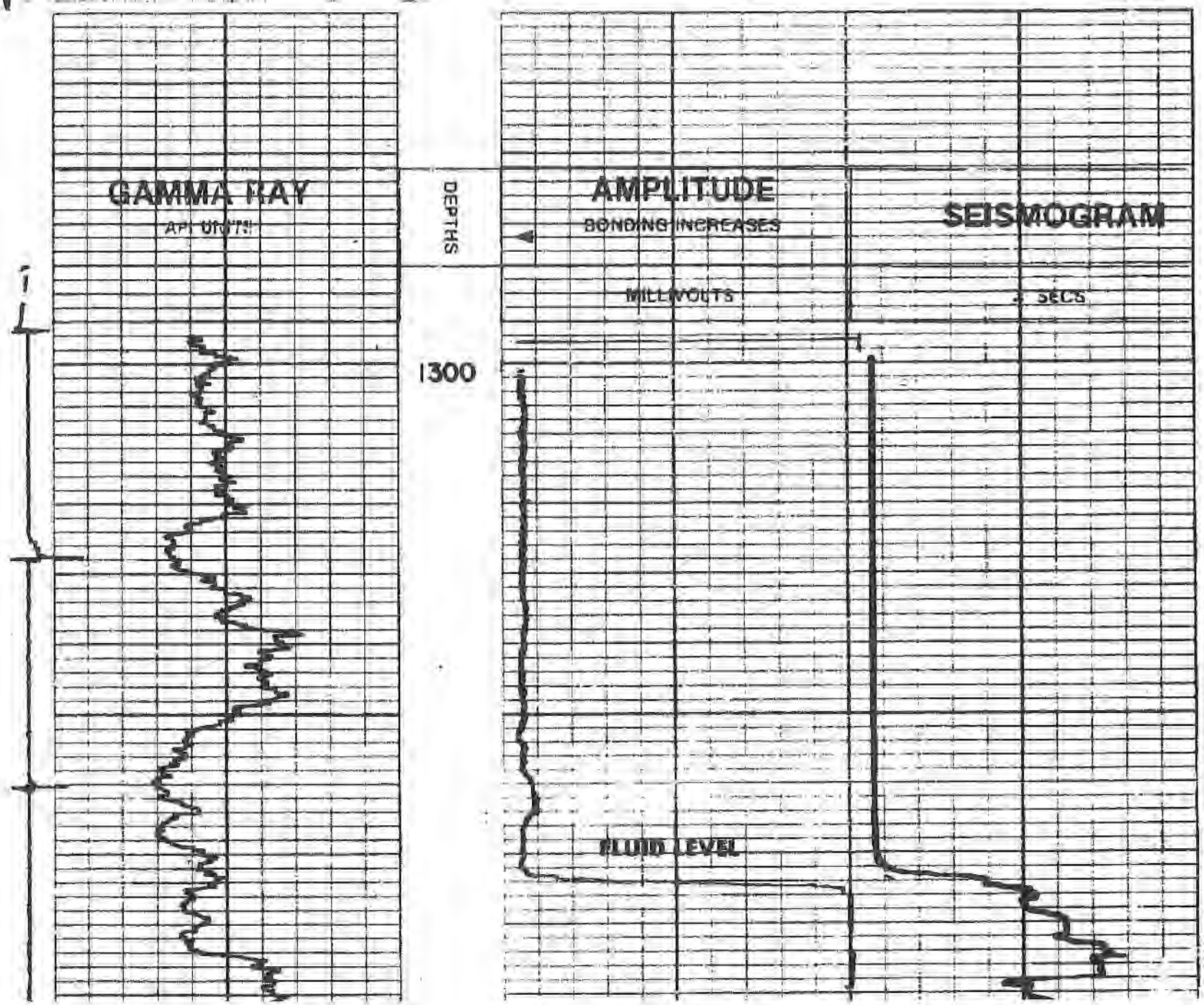
HOIST TRUCK NO.	1475		
INST TRUCK NO.	1475		
TOOL SERIAL NO.			
LOG TICKET NO.			

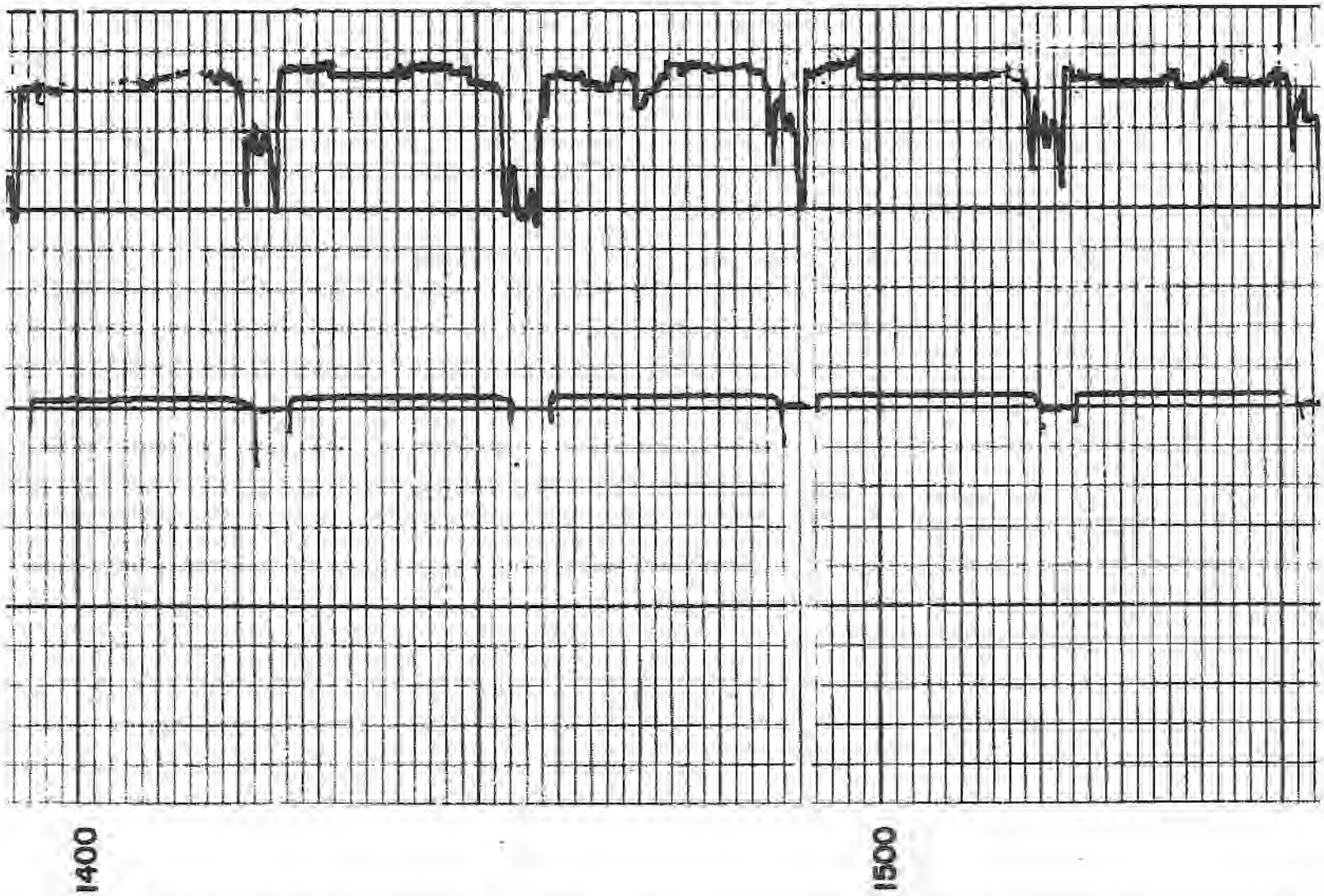
LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED FT./MIN.	T C SEC	SENS SETTINGS	ZERO DIV. L. OR R	API GR. UNITS PER LOG DIV	T C SEC	SENS. SETTINGS	ZERO DIV. L. OR R.	API N. UNITS PER LOG DIV
ONE	2071	1300	40	2	DISC. 200 R - 4						

G - 500

REMARKS:

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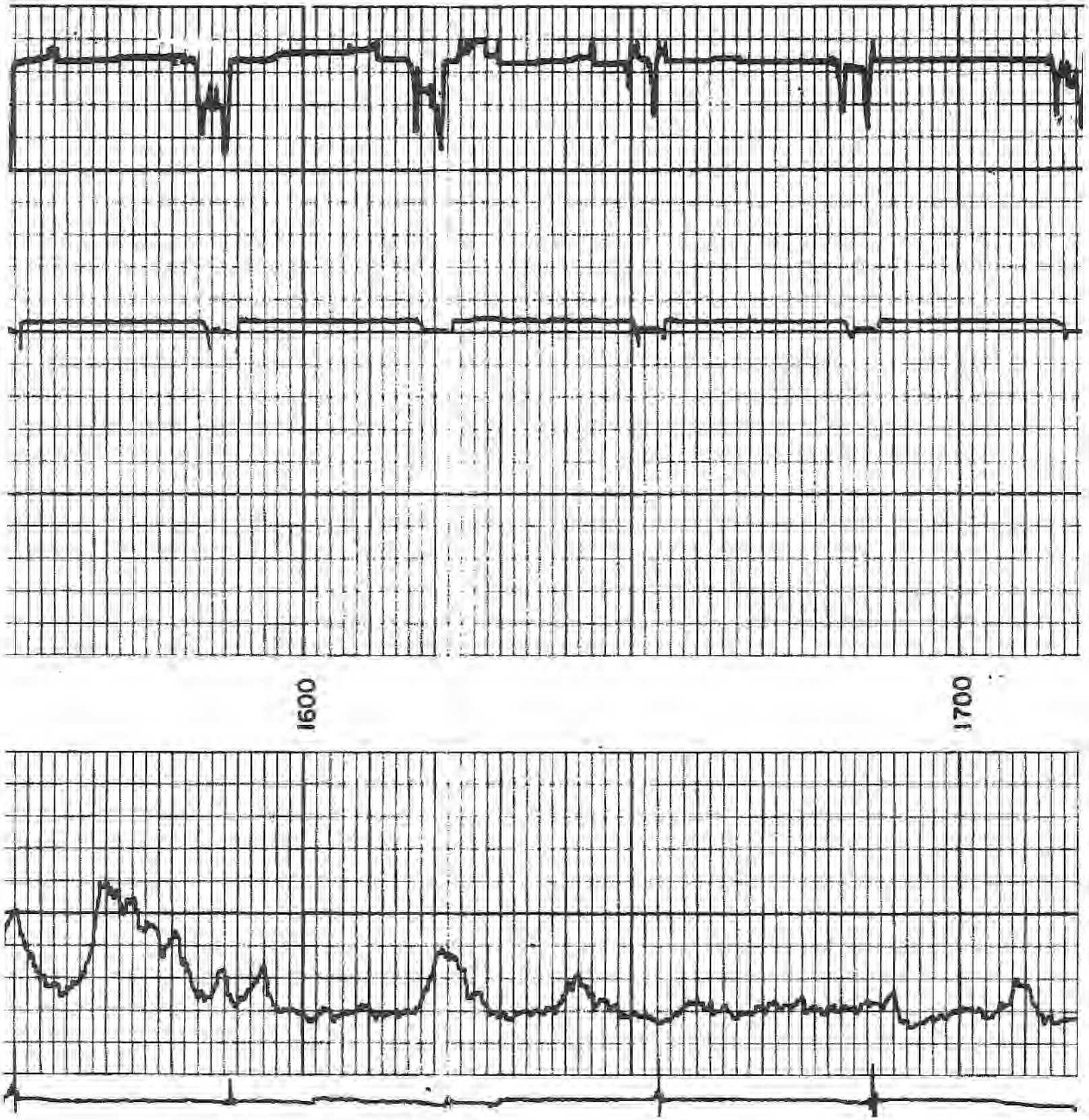
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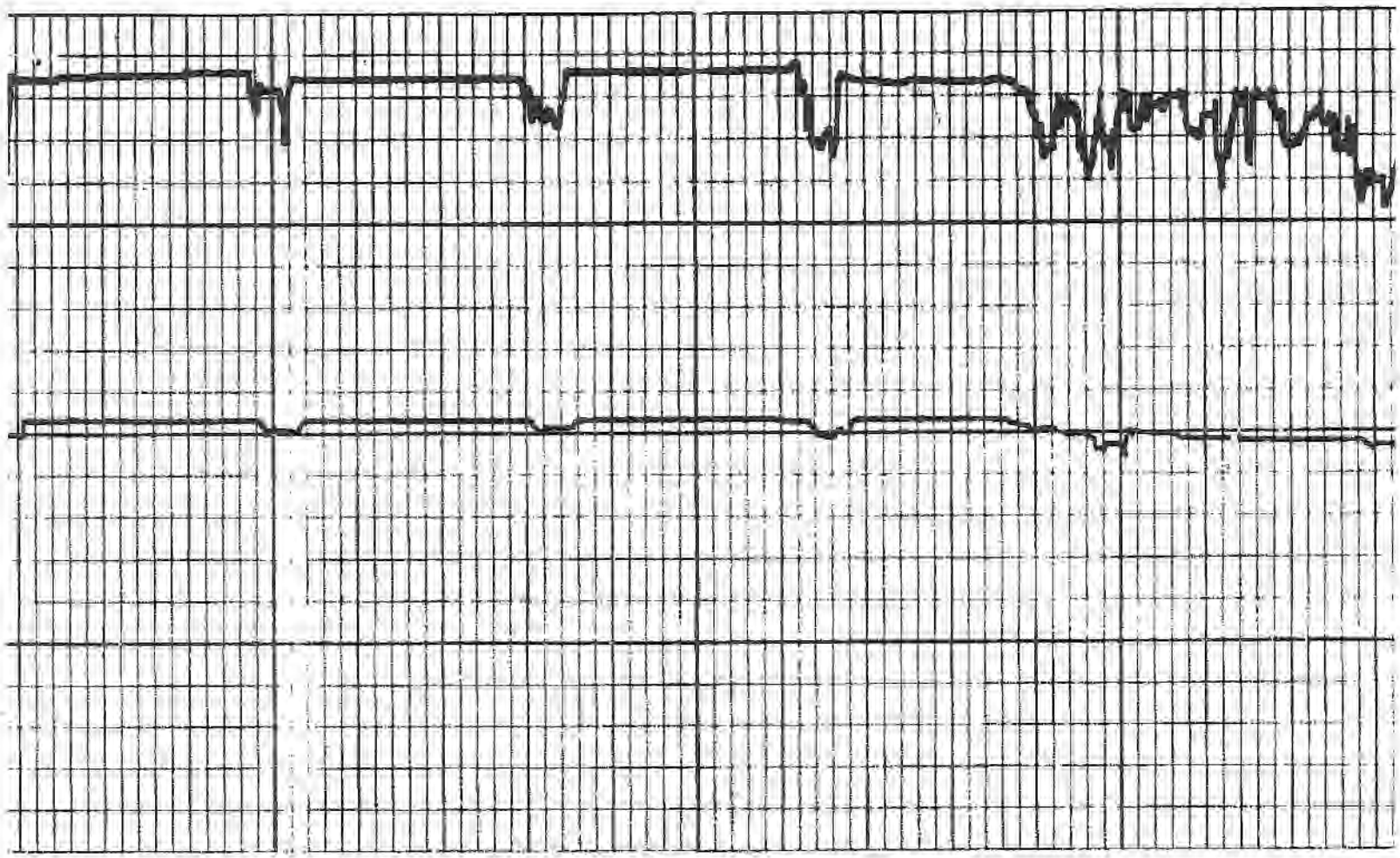

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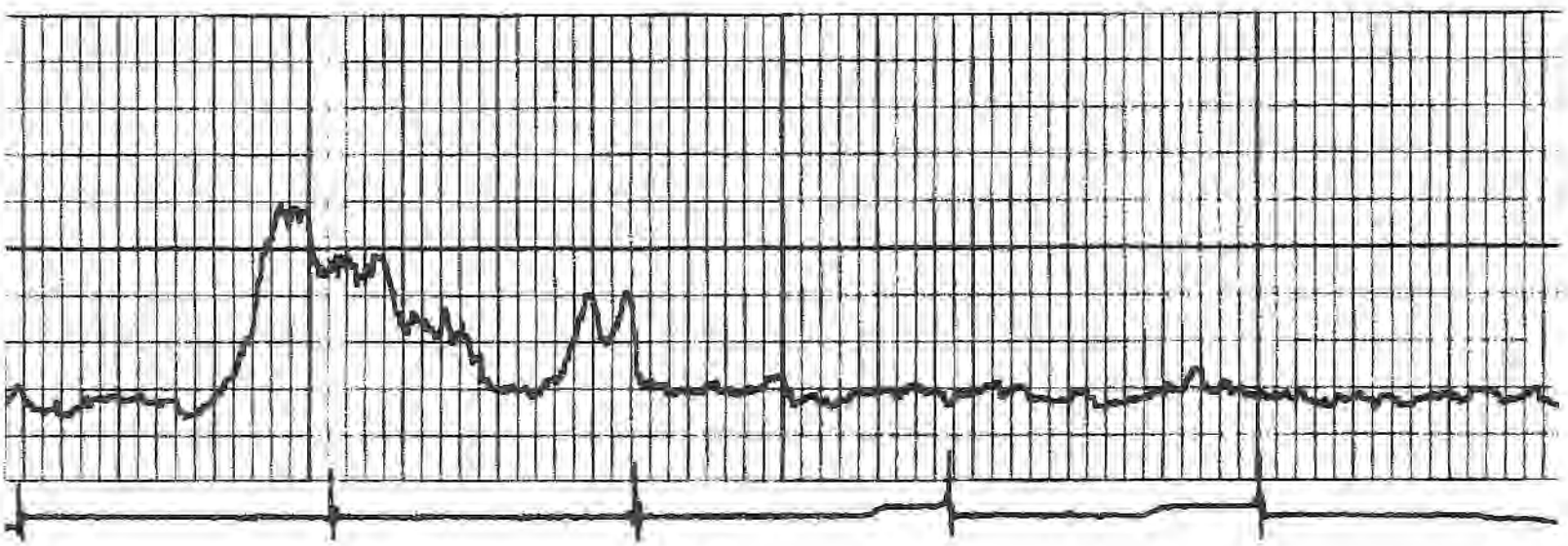

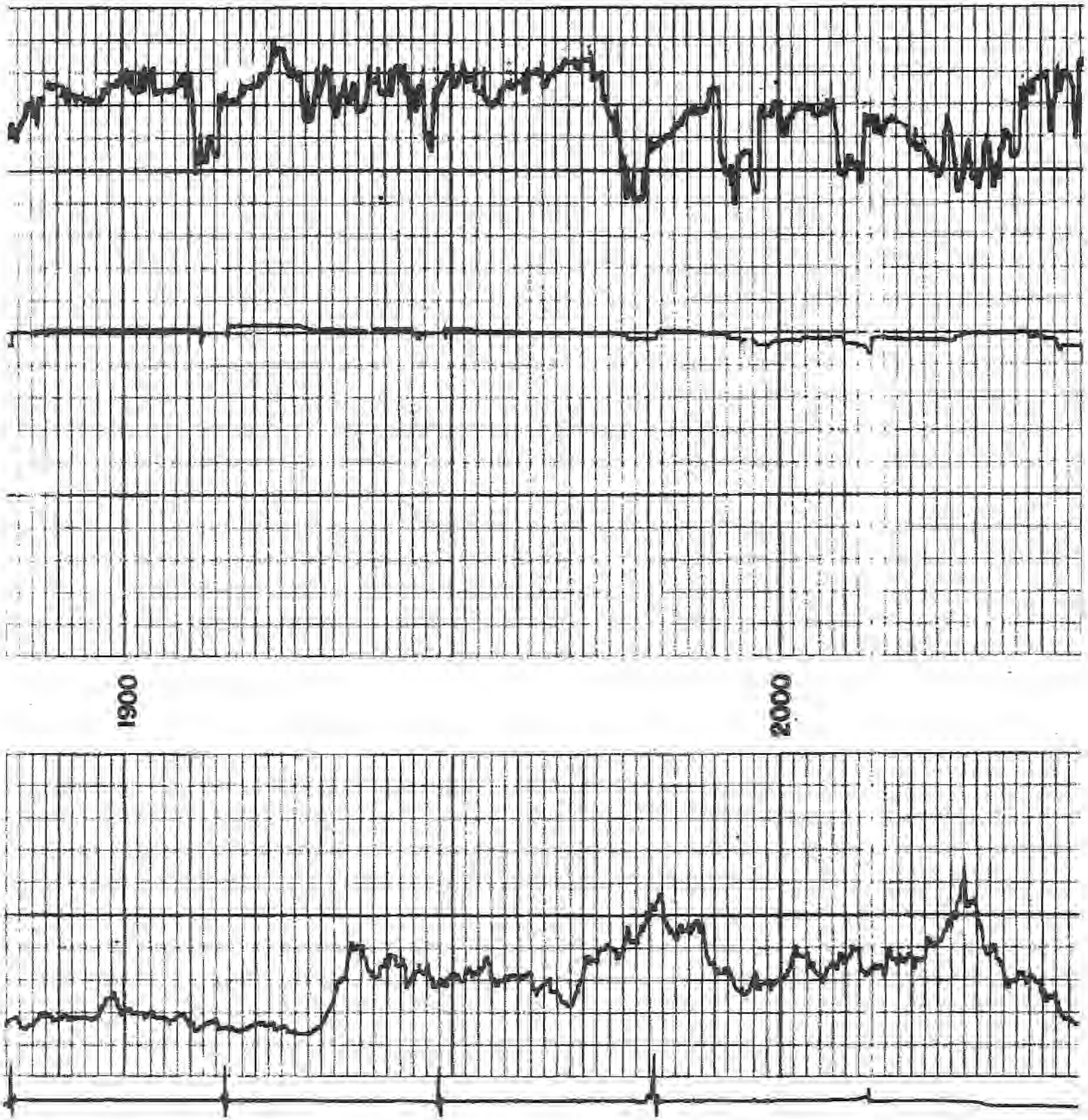
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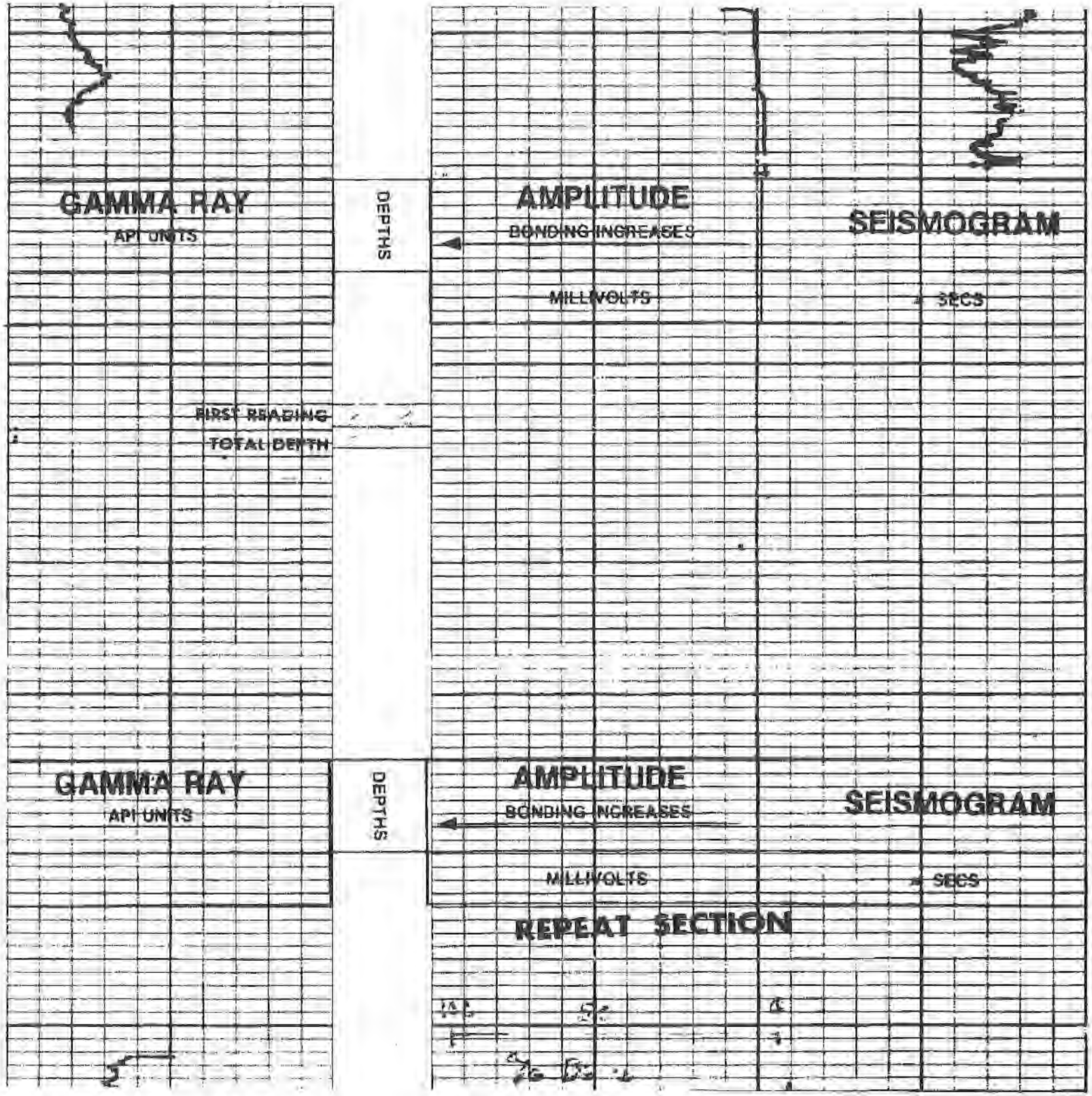
GAMMA RAY
API UNITS
DEPTHS
AMPLITUDE
BONDING INCREASES
MILLIVOLTS
SEISMOGRAM
SECS
FIRST READING
TOTAL DEPTH
GAMMA RAY
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DEPTHS
AMPLITUDE
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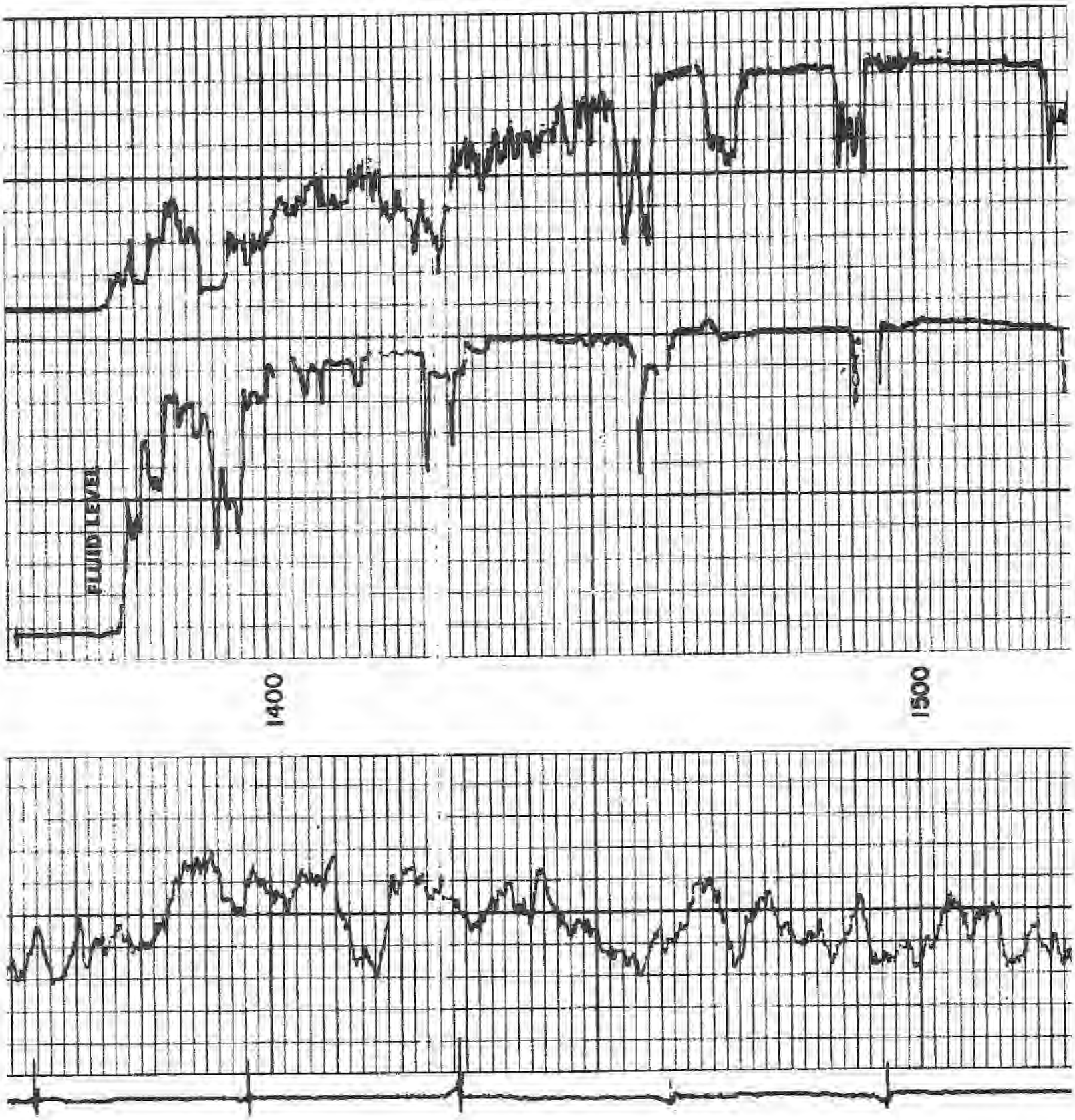
SEISMOGRAM
SECS
REPEAT SECTION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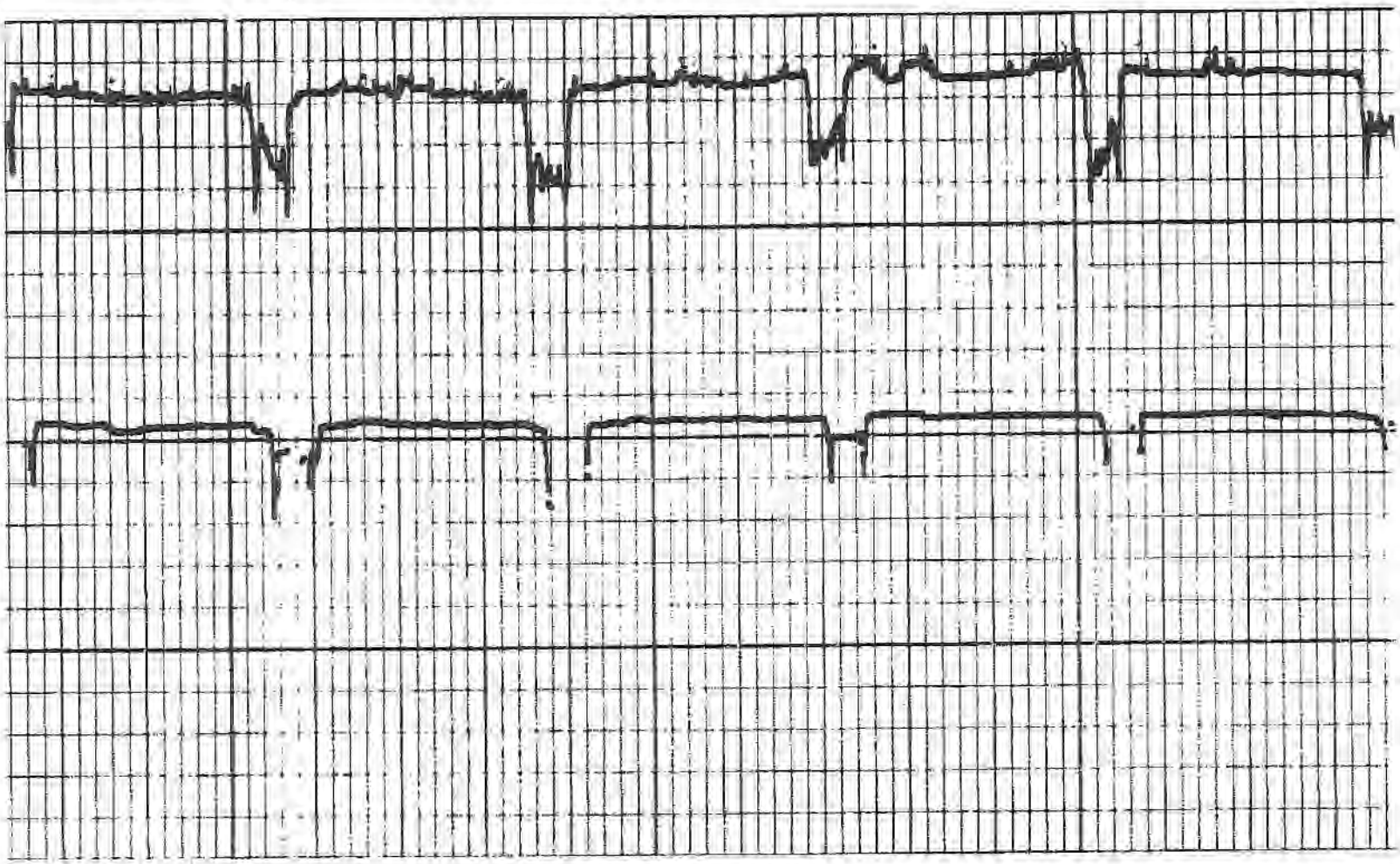

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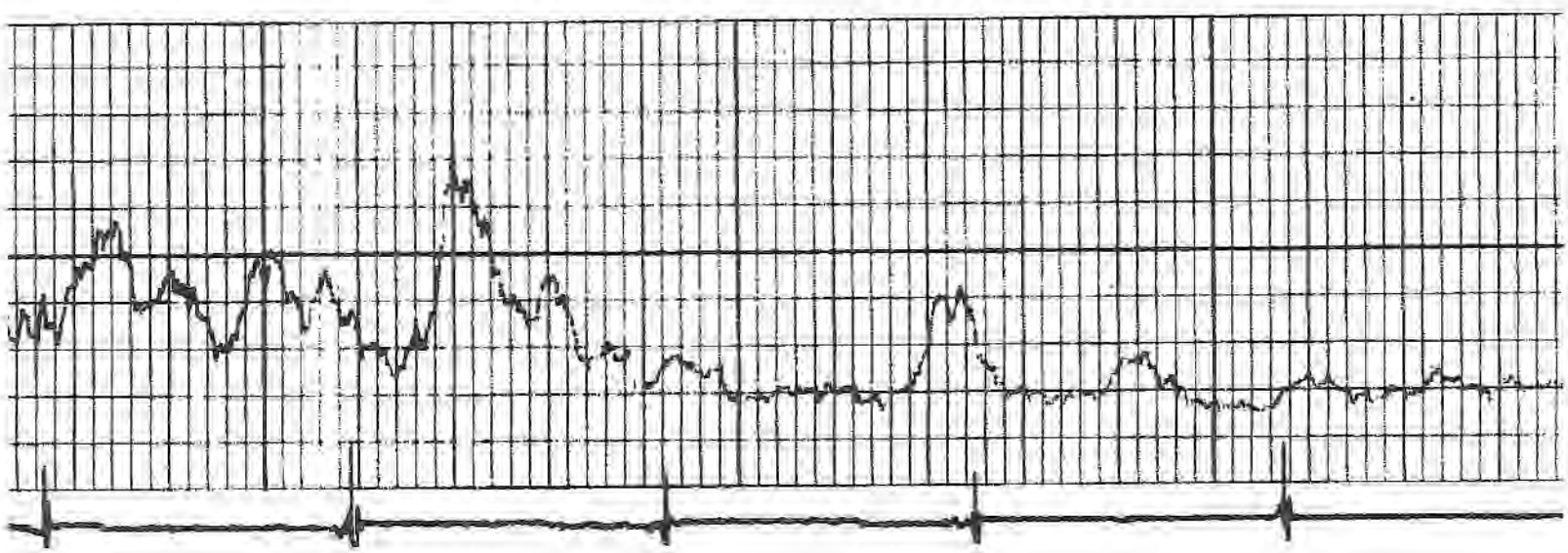

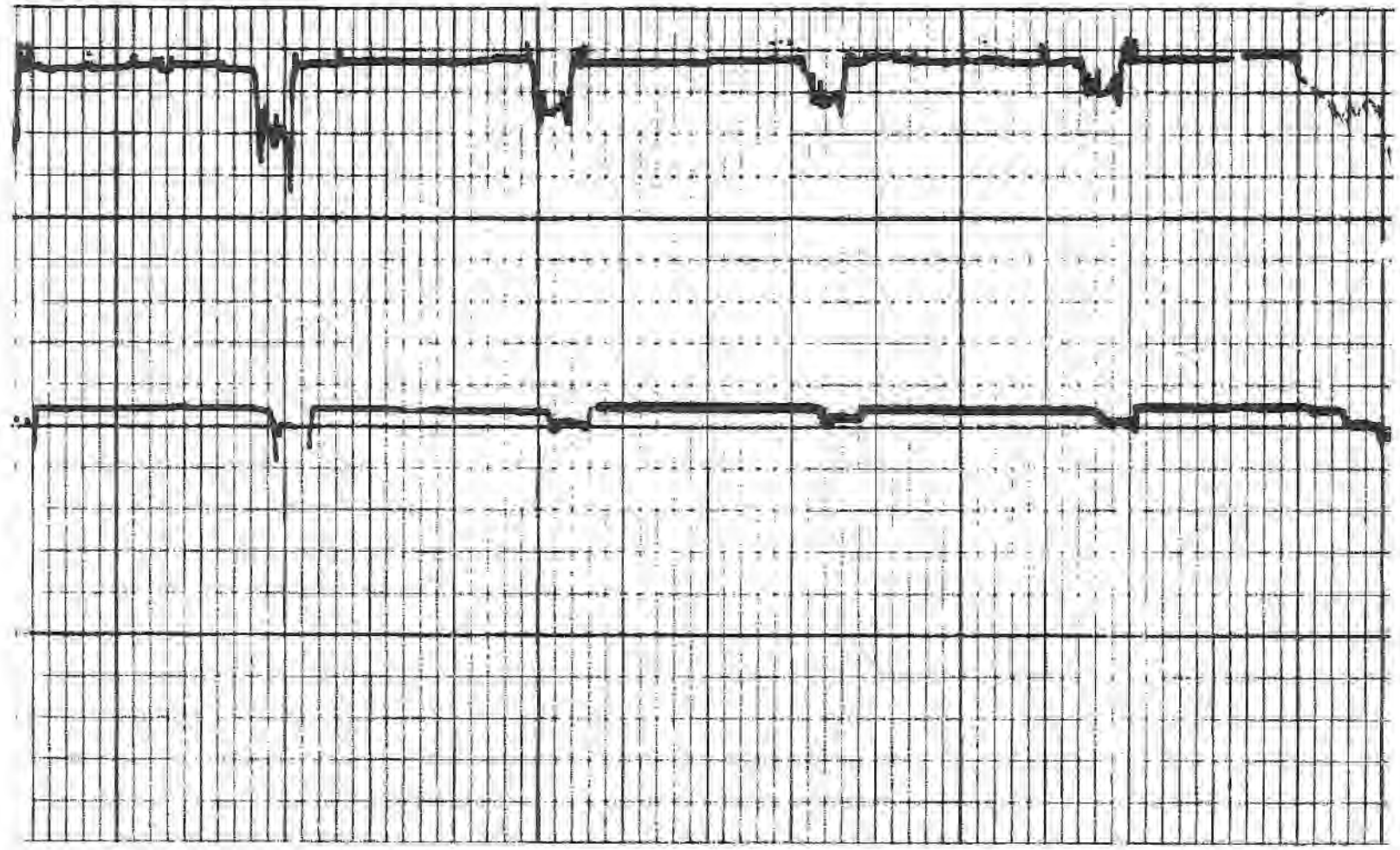

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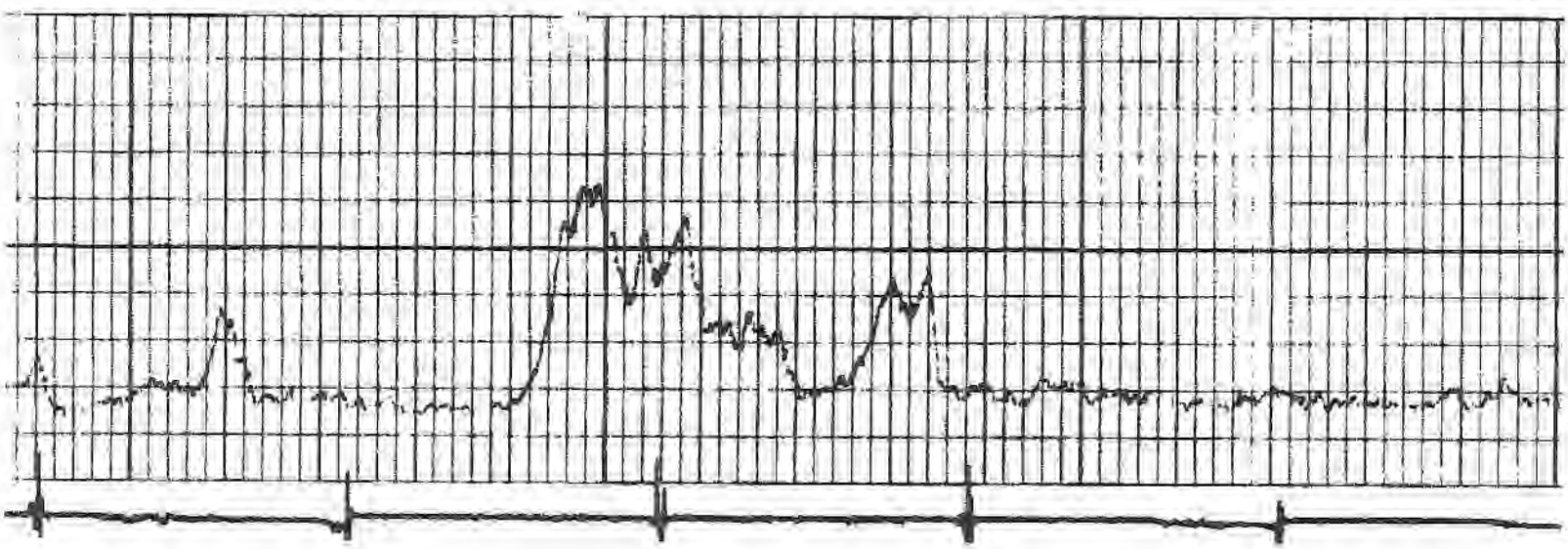

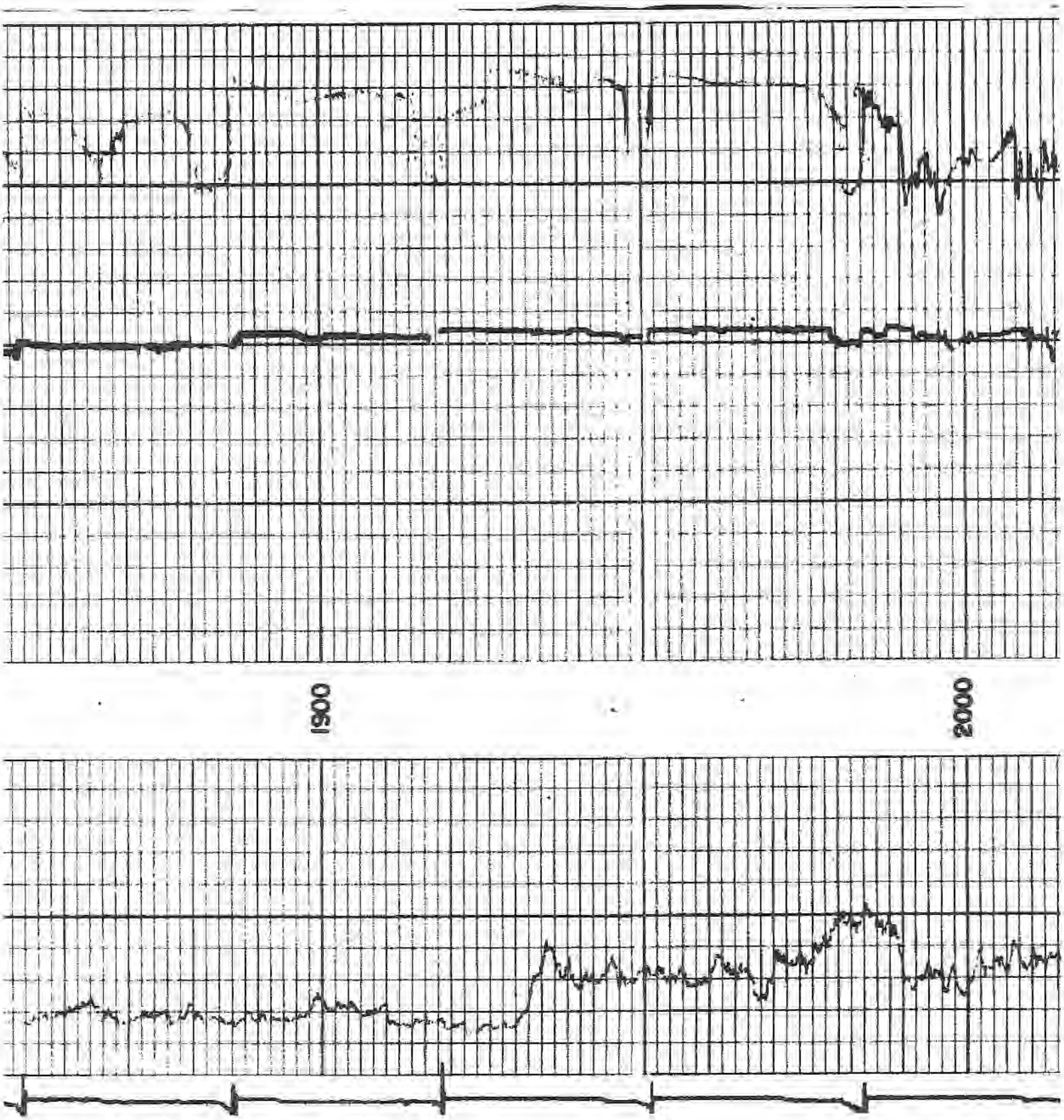
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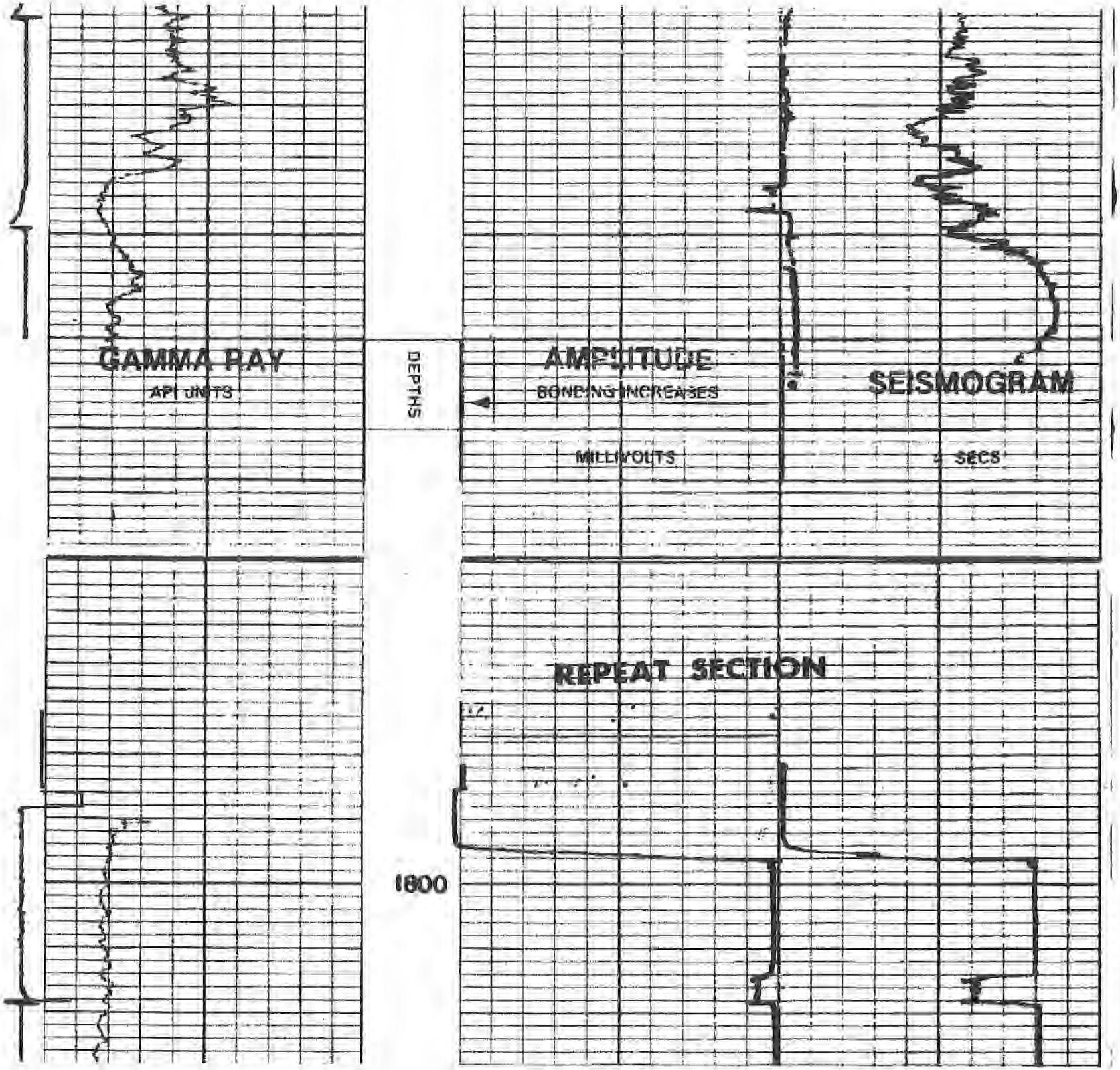
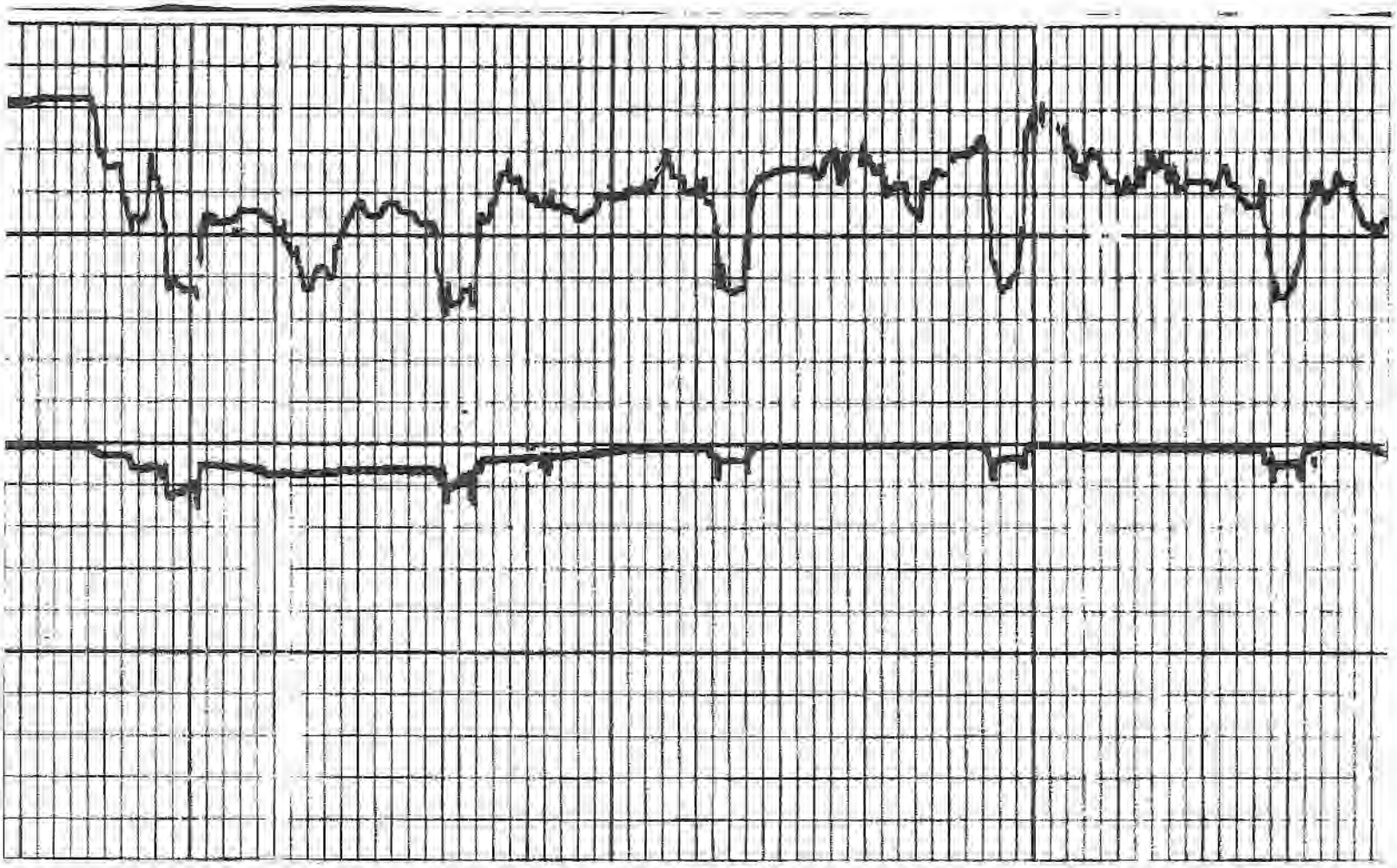

GAMMA RAY
API UNITS
DEPTHS
AMPLITUDE
BONDING INCREASES
MILLIVOLTS
SEISMOGRAM
SECS
REPEAT SECTION
1800



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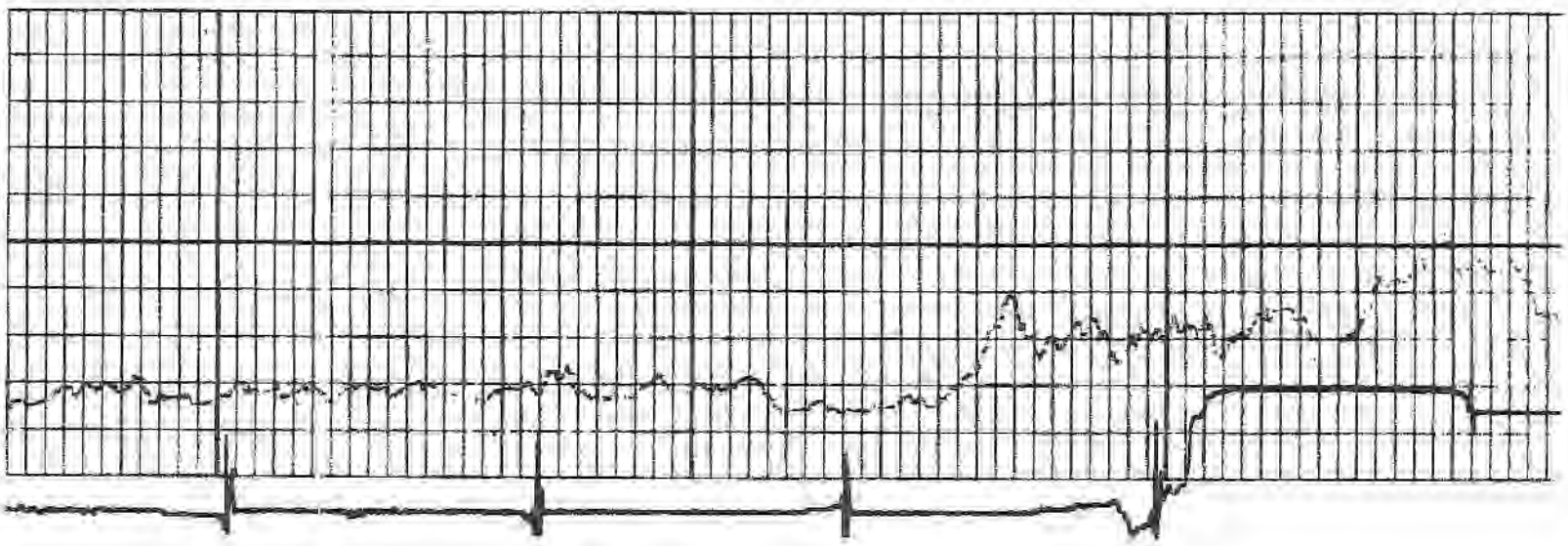

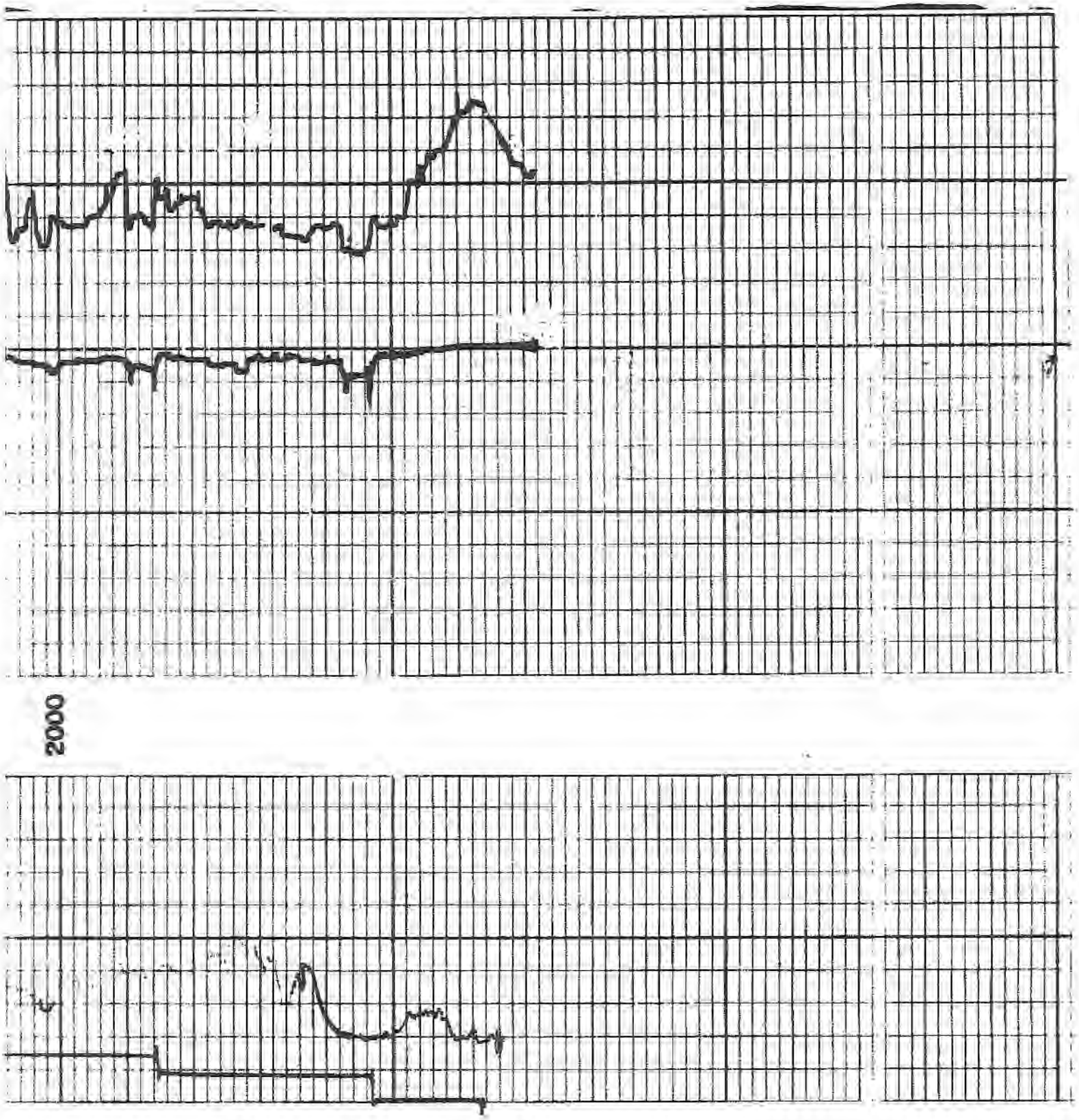
2000

WVGES
GEOLOGY UNDERLIES IT ALL
"Pipeline"

Select County: (087) Roane
Enter Permit #: 2821
Get Data | Reset

Select datatypes: (Check All)
☑ Location ☑ Production ☑ Plugging
☑ Owner/Completion ☑ Stratigraphy ☑ Sample
☑ Pay/Show/Water ☑ Logs ☑ Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 2821

Report Time: Monday, May 18, 2020 9:16:05 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708702821	Roane	2821	Smithfield	Tariff	Otter	38.657478	-81.207751	481924.1	4278788.1

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708702821	11/2/1910	Original Loc	Completed	P A Tallman	4					Carter Oil			
4708702821	8/16/1913	Worked Over	Completed	P A Tallman	4					Carter Oil			
4708702821	5/31/1927	Worked Over	Completed	P A Tallman	4					South Penn Oil (S. Penn Nat. Gas)			
4708702821	10/14/1936	Worked Over	Completed	P A Tallman	4					Pennzoil Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_A
4708702821	11/2/1910	9/6/1910	1060	Topo Estimation	Tariff(Tlmn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	Cable Tool	Shot	2139		2139		0	0	0	5			0	0	
4708702821	8/16/1913	-/-/-	1060	Topo Estimation	Tariff(Tlmn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	unknown	Shot	2139		0		0	0	0	0			0	0	
4708702821	5/31/1927	-/-/-	1060	Topo Estimation	Tariff(Tlmn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	unknown	Shot	2139		0		0	0	17	40			0	0	
4708702821	10/14/1936	-/-/-	1060	Topo Estimation	Tariff(Tlmn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	unknown	Shot	2139		0		0	0	15	38			0	0	

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_ONLY
4708702821	8/16/1913	Pay	Oil & Gas	Vertical			0	Big Injun (Price&eq)	0	0			
4708702821	5/31/1927	Pay	Oil	Vertical			0	Big Injun (Price&eq)	17	40			
4708702821	10/14/1936	Pay	Oil	Vertical			0	Big Injun (Price&eq)	15	38			
4708702821	11/2/1910	Show	Gas	Vertical			985		0	0			
4708702821	11/2/1910	Pay	Oil	Vertical	2111	Big Injun (Price&eq)	2125	Big Injun (Price&eq)	0	5			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702821	Pennzoil Company	1981	1,118	0	0	0	0	0	0	0	0	0	0	0	0
4708702821	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708702821	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708702821	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702821	Pennzoil Products Company	1989	520	50	45	55	34	42	41	0	69	69	54	0	61
4708702821	Pennzoil Products Company	1990	368	28	23	44	37	11	43	31	22	50	5	38	36
4708702821	Pennzoil Products Company	1991	329	21	30	29	23	28	28	32	29	32	27	26	24
4708702821	Pennzoil Products Company	1992	197	23	14	13	9	18	15	18	18	22	13	10	24
4708702821	Pennzoil Products Company	1993	220	14	16	19	14	29	38	10	9	10	15	27	19
4708702821	Pennzoil Products Company	1994	113	11	12	7	8	7	11	8	9	4	8	10	18
4708702821	Pennzoil Products Company	1995	31	5	1	1	1	1	2	2	0	4	2	9	3
4708702821	Pennzoil Products Company	1996	22	3	2	1	1	1	3	0	2	5	1	2	1
4708702821	Pennzoil Products Company	1997	13	0	1	2	2	3	4	1	0	0	0	0	0
4708702821	Pennzoil Products Company	1998	37	0	0	5	4	3	4	4	4	4	9	0	0
4708702821	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708702821	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708702821	Triad Resources, Inc.	2004	88	6	5	8	9	9	11	8	9	11	8	4	0
4708702821	Triad Resources, Inc.	2005	5	5	0	0	0	0	0	0	0	0	0	0	0
4708702821	Triad Resources, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702821	Triad Resources, Inc.	2007	5	0	0	0	0	0	0	0	0	0	0	0	5
4708702821	Triad Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702821	Triad Resources, Inc.	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702821	Triad Hunter LLC	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702821	Triad Hunter LLC	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702821	Triad Hunter LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702821	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702821	Triad Hunter LLC	2014	16	0	0	0	0	2	3	2	2	1	2	1	3
4708702821	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702821	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702821	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702821	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702821	Pennzoil Company	1981	509	0	0	0	0	0	0	0	0	0	0	0	0
4708702821	Pennzoil Company	1982	665	0	0	0	0	0	0	0	0	0	0	0	0
4708702821	Pennzoil Company	1983	630	0	0	0	0	0	0	0	0	0	0	0	0
4708702821	Pennzoil Company	1984	1,029	0	0	0	0	0	0	0	0	0	0	0	0
4708702821	Pennzoil Products Company	1989	1,730	159	131	167	132	143	187	151	160	143	141	98	118
4708702821	Pennzoil Products Company	1990	1,137	134	124	81	103	86	68	87	97	104	105	58	90
4708702821	Pennzoil Products Company	1991	977	88	76	79	72	91	80	89	82	86	82	80	72
4708702821	Pennzoil Products Company	1992	678	75	49	76	60	56	48	64	37	28	78	48	59
4708702821	Pennzoil Products Company	1993	646	64	45	94	105	28	28	34	37	82	54	32	43
4708702821	Pennzoil Products Company	1994	396	34	36	40	41	30	35	22	40	29	63	20	6
4708702821	Pennzoil Products Company	1995	264	19	6	20	22	37	0	30	11	46	20	27	26

2821

4708702821	Pennzoil Products Company	1996	203	21	10	15	43	0	30	26	11	12	8	0	27
4708702821	Pennzoil Products Company	1997	159	20	39	45	39	16	0	0	0	0	0	0	0
4708702821	Pennzoil Products Company	1998	376	33	38	44	37	33	33	37	42	37	42	0	0
4708702821	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708702821	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708702821	Triad Resources, Inc.	2004	329	31	31	31	31	30	30	22	28	24	23	21	27
4708702821	Triad Resources, Inc.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702821	Triad Resources, Inc.	2006	5	0	5	0	0	0	0	0	0	0	0	0	0
4708702821	Triad Resources, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702821	Triad Resources, Inc.	2008	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702821	Triad Resources, Inc.	2009	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702821	Triad Hunter LLC	2010	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702821	Triad Hunter LLC	2011	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702821	Triad Hunter LLC	2012	3	0	0	0	0	0	0	0	0	0	0	0	3
4708702821	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702821	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702821	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702821	Triad Hunter LLC	2016	0												
4708702821	Ground Resources, LLC	2017	0												
4708702821	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702821	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702821	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702821	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702821	Triad Hunter LLC	2016	0												
4708702821	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702821	Triad Hunter LLC	2016	0												
4708702821	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708702821	Original Loc	Cow Run (undiff)	Well Record	670	Reasonable	75	Reasonable	1060	Topo Estimation
4708702821	Original Loc	Homewd Ss/2n Cow Run	Well Record	745	Reasonable	105	Reasonable	1060	Topo Estimation
4708702821	Original Loc	1st Salt Sand	Well Record	1580	Reasonable	50	Reasonable	1060	Topo Estimation
4708702821	Original Loc	2nd Salt Sand	Well Record	1585	Reasonable	15	Reasonable	1060	Topo Estimation
4708702821	Original Loc	3rd Salt Sand	Well Record	1625	Reasonable	205	Reasonable	1060	Topo Estimation
4708702821	Original Loc	Maxton	Well Record	1830	Reasonable	73	Reasonable	1060	Topo Estimation
4708702821	Original Loc	Little Lime	Well Record	1955	Reasonable	35	Reasonable	1060	Topo Estimation
4708702821	Original Loc	Pencil Cave	Well Record	1990	Reasonable	28	Reasonable	1060	Topo Estimation
4708702821	Original Loc	Big Lime	Well Record	2018	Reasonable	92	Reasonable	1060	Topo Estimation
4708702821	Original Loc	Big Injun (Price&eq)	Well Record	2110	Reasonable	25	Reasonable	1060	Topo Estimation
4708702821	Original Loc	Undif PRICE btw INJN	Well Record	2135	Reasonable	0	Reasonable	1060	Topo Estimation

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708702821	1700	2128		G,C,*	Y	N	1700	2128											1700	2124	N	Y	N						

Comment: *logs: caliper, CCL

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
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Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

2821

1282

WELL NO. 4 NAME Tallman, P.A. LEASE NO. 5-409 ACRES 235 ON. S.5 E. W.3 DISTRICT SPENCER

District or Town Smithfield
County Pearce
State W. Va.
Commenced 9/6/10
Completed 11/2/10
Contractor Devore & Cody $1.15 Per Foot
Purchased From Carter Oil Co.
Date Purchased 1-1-26
Date Connected
Sold To
Date Sold
Date Plugged
Date Abandoned

CASING AND TUBING

Size	Put in Well	Left in Well	Pulled
13 in. Casing			
10 in. Casing	305		305
8¼ in. Casing	800		800
6⅝ in. Casing	2020	2020	
6¼ in. Casing			
5¼ in. Casing			
4⅞ in. Casing			
2 in. Tubing	2129	2129	2129
2 in. Tubing	2129		2129
2 in. Tubing	2133		

SHOOTING

Date	Qts.	Sand	Depth	Test Before	Test After
11-2-10	20				Good
5-16-13	20				
5-3-127	50	Injun		176 wk	406 wk
10-12-36	8			56 wk	386 wk

Initial Oil Production (5) bbls.

Initial Open Flow

RECORD

Elevation at Mouth of Well

Formation	Top	Bottom	Thickness	Oil at	Gas at	Water at	Thickness of Pay
Pittsburgh Coal							
Red Rock Cave	560	590	30				
Cow Run (First)	675	750	75				
Cow Run (Second)	795	900	105		965		
Salt Sand (Upper)	1500	1550	50			1016	
Salt Sand (Middle)	1585	1600	15				
Salt Sand (Lower)	1625	1830	205				
Maxon	1835	1908	73				
Little Lime	1955	1990	35				
Pencil Cave	1990	2018	28				
Big Lime	2018	2110	92				
Keener Sand							
Injun Sand	2110	2135	25	2111 2125			10 10
Squaw Sand							
Weir Sand							
Berea Sand							
Gantz Sand							
Fifty Foot Sand							
Thirty Foot Sand							
Gordon Stray							
Gordon Sand							
Fourth Sand							
Fifth Sand							
Corniferous Lime							
Niagara Lime							
Cave							
Clinton							
Medina Shale							
Trenton							
Total Depth	2139						

Remarks

PACKERS

Size	Make	Set at
2 x 1	L.B.	[illegible]

2822

WVGES
GEOLOGY UNDERLIES IT ALL
"Pipeline"

Select County: (087) Roane
Enter Permit #: 2822
Get Data | Reset

Select datatypes: (Check All)
☑ Location ☑ Production ☑ Plugging
☑ Owner/Completion ☑ Stratigraphy ☑ Sample
☑ Pay/Show/Water ☑ Logs ☑ Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 2822

Report Time: Monday, May 18, 2020 9:22:55 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708702822	Roane	2822	unknown	unknown	unknown				

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708702822	12/2/2003	Plugging	Completed	P A Tallman	5					Moore, D. R., & Son			
4708702822	-/-/-	Original Loc	Completed	P A Tallman	5					Pennzoil Company			

Completion Information:

API	CMP_DT	EPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	BH_P_BEF	BH_P
4708702822	12/2/2003	-/-/-																										
4708702822	-/-/-	-/-/-			Unnamed			unclassified	unclassified	not available	unknown	unknown			0		0	0	0	0			0	0	0	0		

There is no Pay data for this well

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702822	Pennzoil Company	1981	1,118	0	0	0	0	0	0	0	0	0	0	0	0
4708702822	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708702822	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708702822	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702822	Pennzoil Products Company	1989	188	18	9	20	13	6	8	12	35	23	17	12	15
4708702822	Pennzoil Products Company	1990	67	14	6	12	10	2	6	4	0	0	0	0	13
4708702822	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702822	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702822	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702822	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * [illegible] Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702822	Pennzoil Company	1981	509	0	0	0	0	0	0	0	0	0	0	0	0
4708702822	Pennzoil Company	1982	665	0	0	0	0	0	0	0	0	0	0	0	0
4708702822	Pennzoil Company	1983	630	0	0	0	0	0	0	0	0	0	0	0	0
4708702822	Pennzoil Company	1984	1,029	0	0	0	0	0	0	0	0	0	0	0	0
4708702822	Pennzoil Products Company	1989	483	59	36	25	25	26	94	51	51	35	0	48	33
4708702822	Pennzoil Products Company	1990	116	35	32	13	13	12	11	0	0	0	0	0	0
4708702822	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702822	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702822	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702822	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

There is no Stratigraphy data for this well

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708702822	0	1944		G C *	Y	[illegible]	0	1944											0	1944	N	Y	N						

Comment: *logs: CCL, caliper

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FILENAME
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Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:

2282

b cement bond
c caliper
o other[1]
p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708702822	12/2/2003	0

There is no Sample data for this well

2822

Lease No. | Acres 2350 | Farm Name P. A. Tallman | Well No. 5

N. S. 54 E. W. 34

Civil District Smithfield

County Roane

State W. Va.

GAS OIL Rights Owned By

Location Made

Rig Completed

Dr'g Commenced 7-27-10

Dr'g Completed 9-18-10

Dr'g Contractor Devore & Cody

Purchased From H.C.&R.

Date Purchased 3-1-43

Sold To

Date Sold

Date Abandoned

FORMATION

Kind	Top	Bottom	Steel Line Meas.	Tests
Red Rock Cave	170	225		
Cow Run 1st.	547	620		
Cow Run 2nd.	645	730		
Pitts. Coal	968	971		
1st. Salt	1115	1133		
2nd. Salt	1235	1300		
3rd. Salt	1423	1708		
Water	1525			
Maxon	1712	1745		
Little Lime	1769	1792		
Pencil Cave	1792	1996		
Big Lime	1796	1903		
Gas	1804	1885		
Big Injun	1903			
Oil	1907	1927		
Total Depth		1936		

NOTE: 6 5/8" Casing ripped at 1765 and 115 bags Green Bay Cement used to shut-off water by Halliburton Cementing Co. on 3-30-39

RECEIVED
Office of Oil & Gas
Permitting
OCT 23 2003
WV Department of
Environmental Protection

CASING RECORD

Size	Bottom Casing Steel Line	Put in Well Tally Meas.	Pulled Tally Meas.	Cemen
10"		155	155	Date
8-1/4"		650	650	Size Csg.
6-5/8"		1800		Top "
2"Tbgs.		1926		Bot. "

PACKERS AND SHOES

Kind	Size	Depth Set	Date S

TORPEDO RECORD

Date	No. Qts.	Size Shell	Top Shot	Bottom	Res
9-20-10	20				
8-6-30	30	3"	1907	1927	
4-25-39	90	5"	1907	1928	

10-31-52 Steam Co

DRILLING DEEPER

Commenced	Completed	Original Depth	Final Depth	Contra

ABANDONMENT RECORD

Filled With	From	To	PLUG Size	PLUG Kind

Initial Prod.	Sand	★ At Completion	★ 30 Days After	★
Oil	Injun	15-Bbls.		
Gas				

APPROVED

2822

Lease No. | Acres 2350 | Farm Name P. A. Tallman | H.No.1751 Well No. 5

N. S. 54 E. W. 34
Civil District Smithfield
County Roane
State W. Va.
GAS OIL Rights Owned By

Location Made
Rig Completed
Dr'g Commenced 7-27-10
Dr'g Completed 9-18-10
Dr'g Contractor Devore & Cody

Purchased From
Date Purchased
Sold To
Date Sold
Date Abandoned

FORMATION

Kind	Top	Bottom	Steel Line Meas.	Tests
Red Rock Cave	170	225		
Cow Run 1st.	547	620		
Cow Run 2nd.	645	730		
Pitts. Coal	968	971		
1st. Salt	1115	1133		
2nd. Salt	1235	1300		
3rd. Salt	1423	1708		
Water	1525			
Maxon	1712	1745		
Little Lime	1769	1792		
Pencil Cave	1792	1796		
Big Lime	1796	1903		
Gas	1804	1885		
Big Injun	1903			
Oil	1907	1927		
Total Depth		1936		

This well is being used as Intake well

CASING RECORD

Size	Bottom Casing Steel Line	Put in Well Tally Meas.	Pulled Tally Meas.	Cement
10"		155	155	Date
8-1/4"		650	650	Size Csg.
6-5/8" cemented		1800		Top "
2"Tbgs.		1926		Bot. "

PACKERS AND SHOES

Kind	Size	Depth Set	Date Se
H. Wall	6 3/8x2"	1895	11-4-[illegible]

Size of top of packer 3" 38' 2" an

TORPEDO RECORD

Date	No. Qts.	Size Shell	Top Shot	Bottom	Resu
9-20-10	20				
8-6-30	30				
4-25-39	90				time Bom

DRILLING DEEPER

Commenced	Completed	Original Depth	Final Depth	Contrac

ABANDONMENT RECORD

Filled With	From	To	PLUG Size	PLUG Kind	PLUG C

Initial Prod.	Sand	★ At Completion	★ 30 Days After	★
Oil	Injun	15-Bbls.		
Gas				

APPROVED

2822

Rev (5-01)
WR-38
DATE:

API #

RECEIVED
Office of Oil & Gas
Permitting
JAN 13 2004
WV Department of
Environmental Protection

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: P.A. TALLMAN #5 Operator Well No.: 47-087-2822

LOCATION: Elevation: 900' Quadrangle: TARIFF 7.5'
District: SMITHFIELD County: ROANE
Latitude: — Feet South of — Deg. — Min. — Sec.
Longitude: — Feet West of — Deg. — Min. — Sec.
UTM GPS NORTHING 4,277,970 (NAD 27) UTM GPS EASTING 482,063 (NAD 27)

Well Type: OIL X GAS ____

Company: DANIEL MOORE + SON, INC.
2206 RIPLEY RD.
SPENCER, WV 25276

Coal Operator or Owner: N/A

Coal Operator or Owner: N/A

Agent: RICHARD D. MOORE

Permit Issued Date: 10-23-2003

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of ROANE ss:

RICHARD D. MOORE and GROVER BUTLER being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well, and ED GAINER Oil and Gas Inspector representing the Secretary, say that said work was commenced on the 10TH day of NOVEMBER, 2003 and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
CEMENT	1850'	1650'		
CEMENT	1420'	1320'	1370' OF 4½" 9.5#	556' OF 4½"
CEMENT	1000'	900'	HOLES CUT IN 7" 1000'-900' EVERY 20'.	
CEMENT	460'	360'	420' OF 7"	1380' OF 7"
CEMENT	100'	0'		
GEL	6% IN	BETWEEN	ALL CEMENT	PLUGS

Description of monument: 7" CASING 3' AGS w/ API TAG and that the work of plugging and filling said well was completed on the 2ND day of DECEMBER, 2003.

And further deponents saith not. Richard D. Moore

Grover Butler

Sworn and subscribe before me this 4th day of December, 19 2003
My commission expires: Oct. 30, 2011

Rebecca S. Golden
Notary Public

Oil and Gas Inspector:

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
REBECCA S. GOLDEN
KEITH CRIHFIELD, CPA
P. O. BOX 987
SPENCER, WV 25276
My commission expires October 30, 2011

2823

No original drill log

WVGES
GEOLOGY UNDERLIES IT ALL
"Pipeline"

Select County: (087) Roane
Enter Permit #: 2823
Get Data | Reset

Select datatypes: (Check All)
☑ Location ☑ Production ☑ Plugging
☑ Owner/Completion ☑ Stratigraphy ☑ Sample
☑ Pay/Show/Water ☑ Logs ☑ Btm Hole Loc

Tab Descriptions
County Code Translation
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 2823

Report Time: Monday, May 18, 2020 9:41:46 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708702823	Roane	2823	unknown	unknown	unknown				

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708702823	-/-/-	Original Loc	Completed	P A Tallman	6					Pennzoil Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	BH_P_BEF	BH_P_
4708702823	-/-/-	-/-/-			Unnamed			unclassified	unclassified	not available	unknown	unknown			0		0	0	0	0			0	0	0	0		

There is no Pay data for this well

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702823	Pennzoil Company	1981	1,118	0	0	0	0	0	0	0	0	0	0	0	0
4708702823	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708702823	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708702823	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702823	Pennzoil Products Company	1989	1,186	45	33	63	40	59	94	187	147	199	108	93	120
4708702823	Pennzoil Products Company	1990	1,258	106	75	0	118	34	156	130	116	256	26	138	103
4708702823	Pennzoil Products Company	1991	1,263	128	110	122	91	123	119	117	97	107	85	92	72
4708702823	Pennzoil Products Company	1992	656	62	53	39	37	50	51	69	54	90	61	74	16
4708702823	Pennzoil Products Company	1993	792	65	70	62	63	80	69	55	35	60	105	69	59
4708702823	Pennzoil Products Company	1994	479	71	66	40	42	33	31	36	37	28	19	53	23
4708702823	Pennzoil Products Company	1995	78	6	9	1	6	4	4	2	6	6	11	12	11
4708702823	Pennzoil Products Company	1996	78	5	3	4	8	4	4	2	3	15	9	13	8
4708702823	Pennzoil Products Company	1997	32	2	1	7	2	0	3	1	0	3	5	6	2
4708702823	Pennzoil Products Company	1998	29	4	2	4	3	2	3	3	3	3	2	0	0
4708702823	Triad Resources, Inc.	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702823	Triad Hunter LLC	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702823	Triad Hunter LLC	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702823	Triad Hunter LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702823	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702823	Triad Hunter LLC	2014	15	0	0	0	0	3	2	1	1	3	3	1	1
4708702823	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702823	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702823	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702823	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702823	Pennzoil Company	1981	509	0	0	0	0	0	0	0	0	0	0	0	0
4708702823	Pennzoil Company	1982	665	0	0	0	0	0	0	0	0	0	0	0	0
4708702823	Pennzoil Company	1983	630	0	0	0	0	0	0	0	0	0	0	0	0
4708702823	Pennzoil Company	1984	1,029	0	0	0	0	0	0	0	0	0	0	0	0
4708702823	Pennzoil Products Company	1989	3,906	183	205	234	298	394	399	434	311	280	413	368	387
4708702823	Pennzoil Products Company	1990	4,354	360	396	249	373	366	357	451	459	381	297	339	326
4708702823	Pennzoil Products Company	1991	3,509	372	305	344	311	323	263	294	252	309	242	221	273
4708702823	Pennzoil Products Company	1992	2,414	235	201	210	206	221	145	261	179	219	52	227	258
4708702823	Pennzoil Products Company	1993	2,434	212	202	259	193	153	110	212	267	213	171	209	233
4708702823	Pennzoil Products Company	1994	1,503	189	187	179	117	130	143	149	91	152	83	27	56
4708702823	Pennzoil Products Company	1995	612	11	49	60	55	37	40	42	62	65	92	55	44
4708702823	Pennzoil Products Company	1996	828	85	148	72	55	40	34	83	83	101	65	38	24
4708702823	Pennzoil Products Company	1997	339	93	39	6	28	12	0	10	27	28	35	31	30
4708702823	Pennzoil Products Company	1998	199	24	28	33	27	25	24	27	11	0	0	0	0
4708702823	Triad Resources, Inc.	2009	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702823	Triad Hunter LLC	2010	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702823	Triad Hunter LLC	2011	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702823	Triad Hunter LLC	2012	1	0	0	0	0	0	0	0	0	0	0	0	1
4708702823	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702823	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702823	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702823	Triad Hunter LLC	2016	0												
4708702823	Ground Resources, LLC	2017	0												
4708702823	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702823	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702823	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702823	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0

4708702823	Triad Hunter LLC	2016	0											
4708702823	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708702823	Triad Hunter LLC	2016	0												
4708702823	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

There is no Stratigraphy data for this well

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708702823	0	2098		G *	Y	N	0	2098											0	2095	N	Y							

Comment: *logs: CCL

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
470[illegible]

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

ROA 2823

GEARHART

GR-CCL
Caliper

FILING NO	
2823	COMPANY Pennzoil
	WELL [illegible] #6
	FIELD Tank
	COUNTY [illegible] STATE W.V.
	LOCATION: [illegible] SEC. ____ TWP. ____ RGE. ____
	OTHER SERVICES: NA

PERMANENT DATUM: GL ELEV: 1.00
LOG MEASURED FROM [illegible] FT. ABOVE PERM. DATUM
DRILLING MEASURED FROM NA

ELEV.: K.B. NA
D.F. [illegible]
G.L. [illegible]

Date	3-17-83	5-17-83	
Run No.	[illegible]	[illegible]	
Type Log	[illegible]	[illegible]	
Depth-Driller	[illegible]	[illegible]	
Depth-Logger	[illegible]	[illegible]	
Bottom logged interval	[illegible]	[illegible]	
Top logged interval	[illegible]	[illegible]	
Type fluid in hole	[illegible]	[illegible]	
Max rec. temp., deg. F.	[illegible]	[illegible]	
Operating rig time	[illegible]	[illegible]	
Recorded by	[illegible]	[illegible]	
Witnessed by	[illegible]	[illegible]	

Bore-Hole Record				Tubing Record			
Run No.	Bit	From	To	Size	Wgt.	From	To
[illegible]				NA			

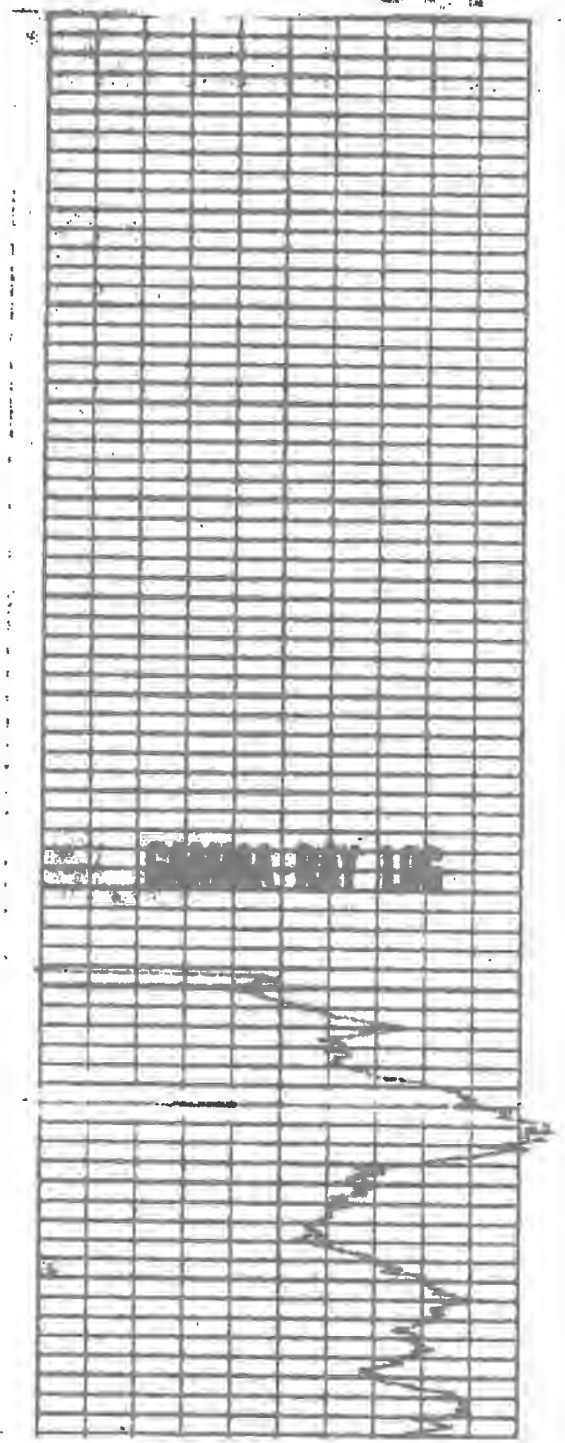
Casing Record				Liner			
Size	Wgt.	From	To	Size	Wgt.	From	To
[illegible]		[illegible]	[illegible]				
				NA			

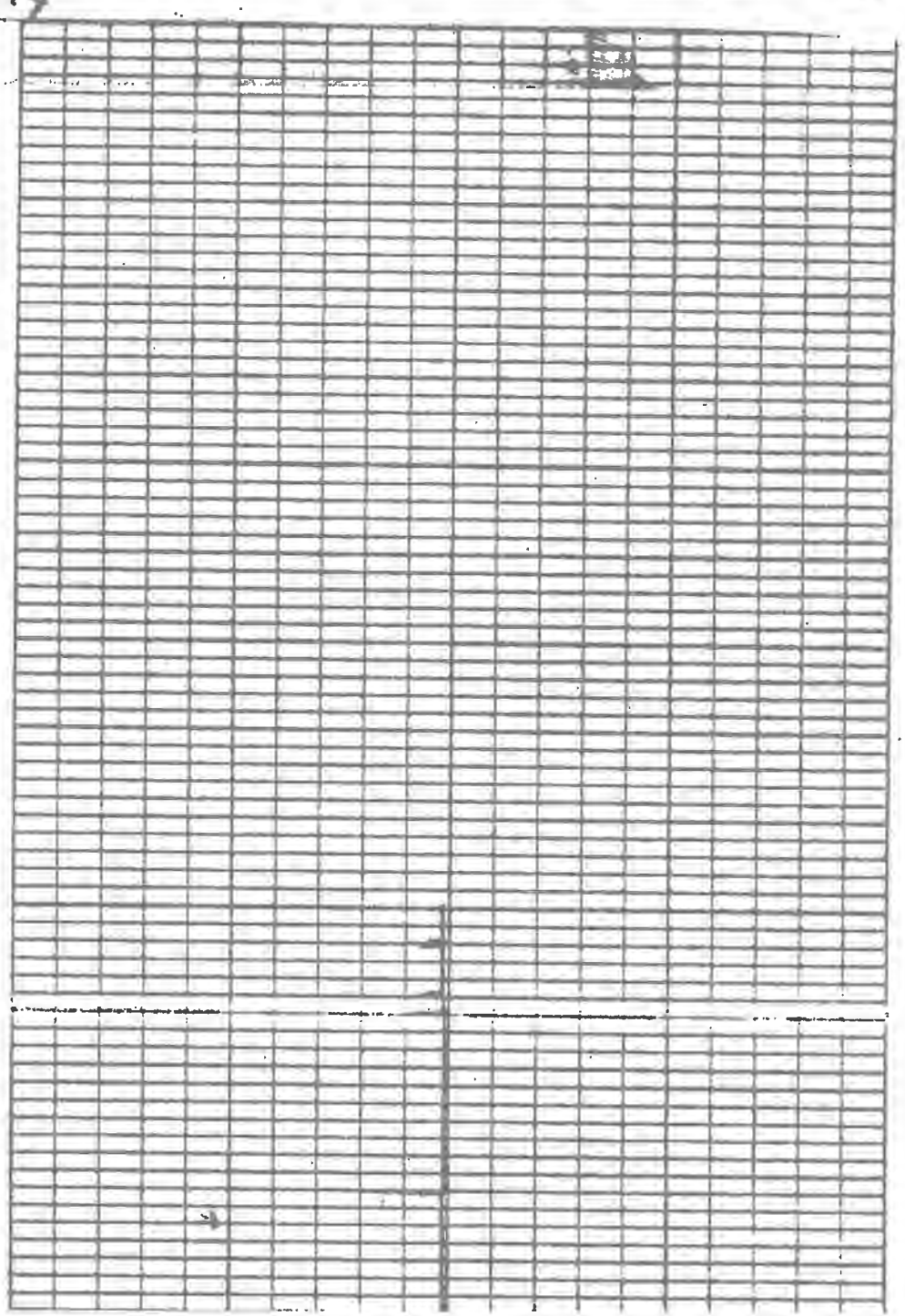
FORM 110-N

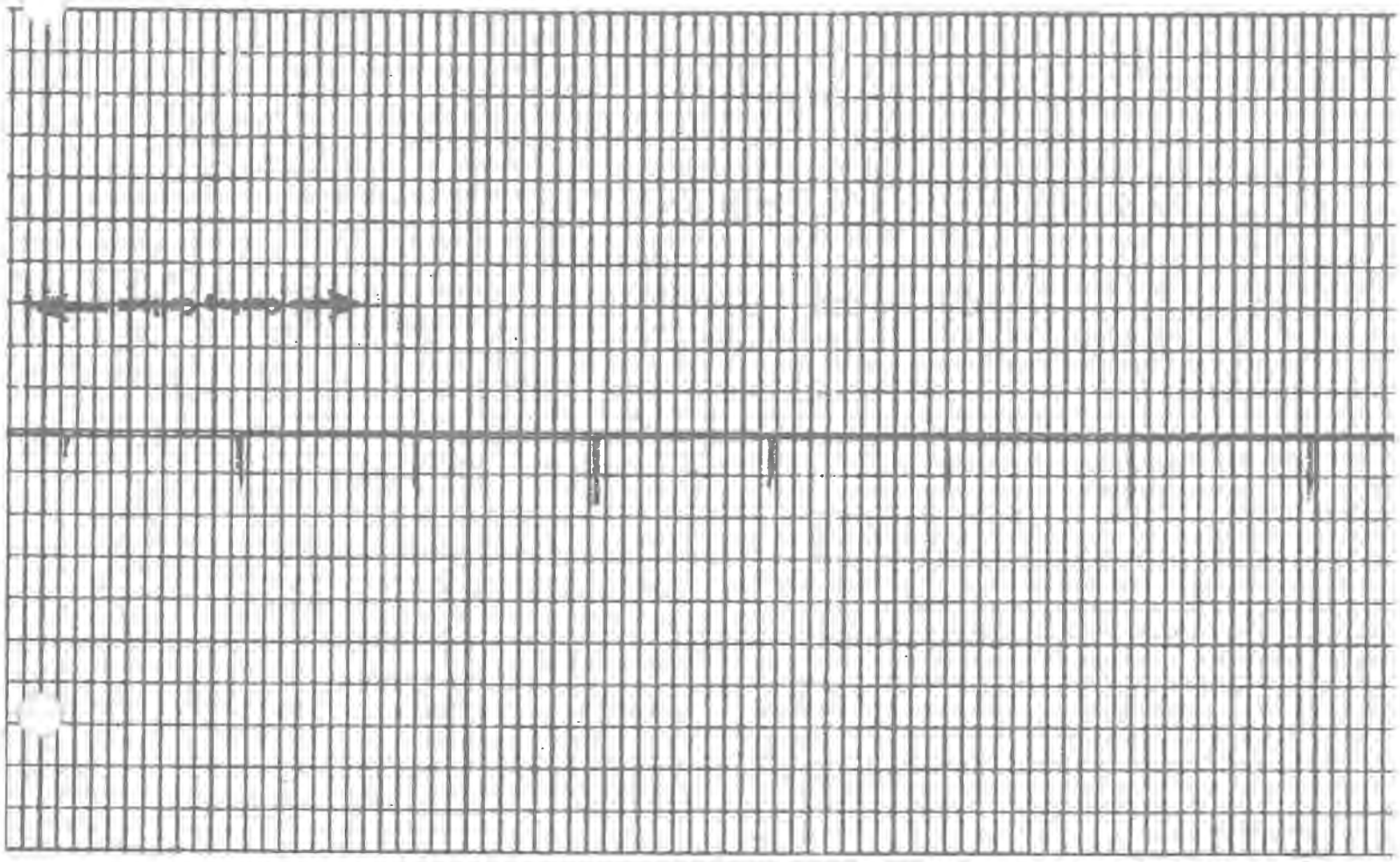
NOTICE. All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretation [illegible]

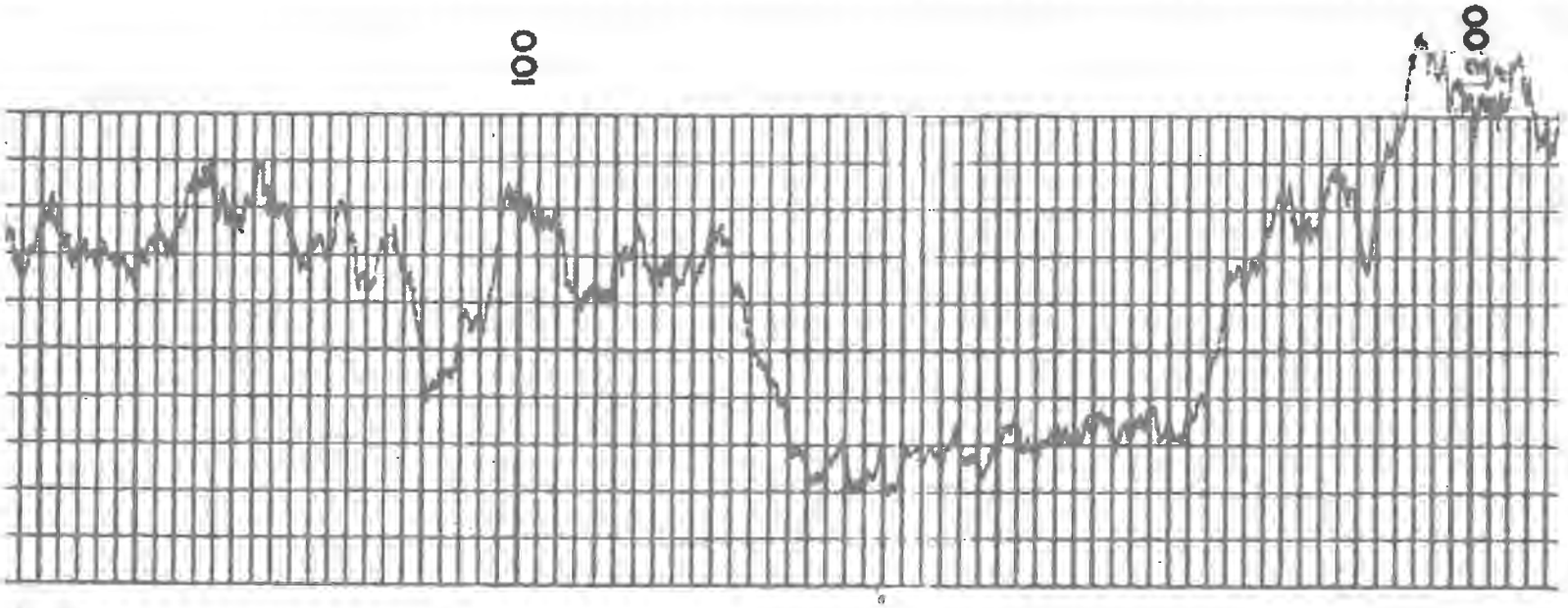
the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by one of our officers, agents or employees. These interpretations are also subject to our General Terms and Conditions as set out in our current Price Schedule.

GEARHART INDUSTRIES, INC.





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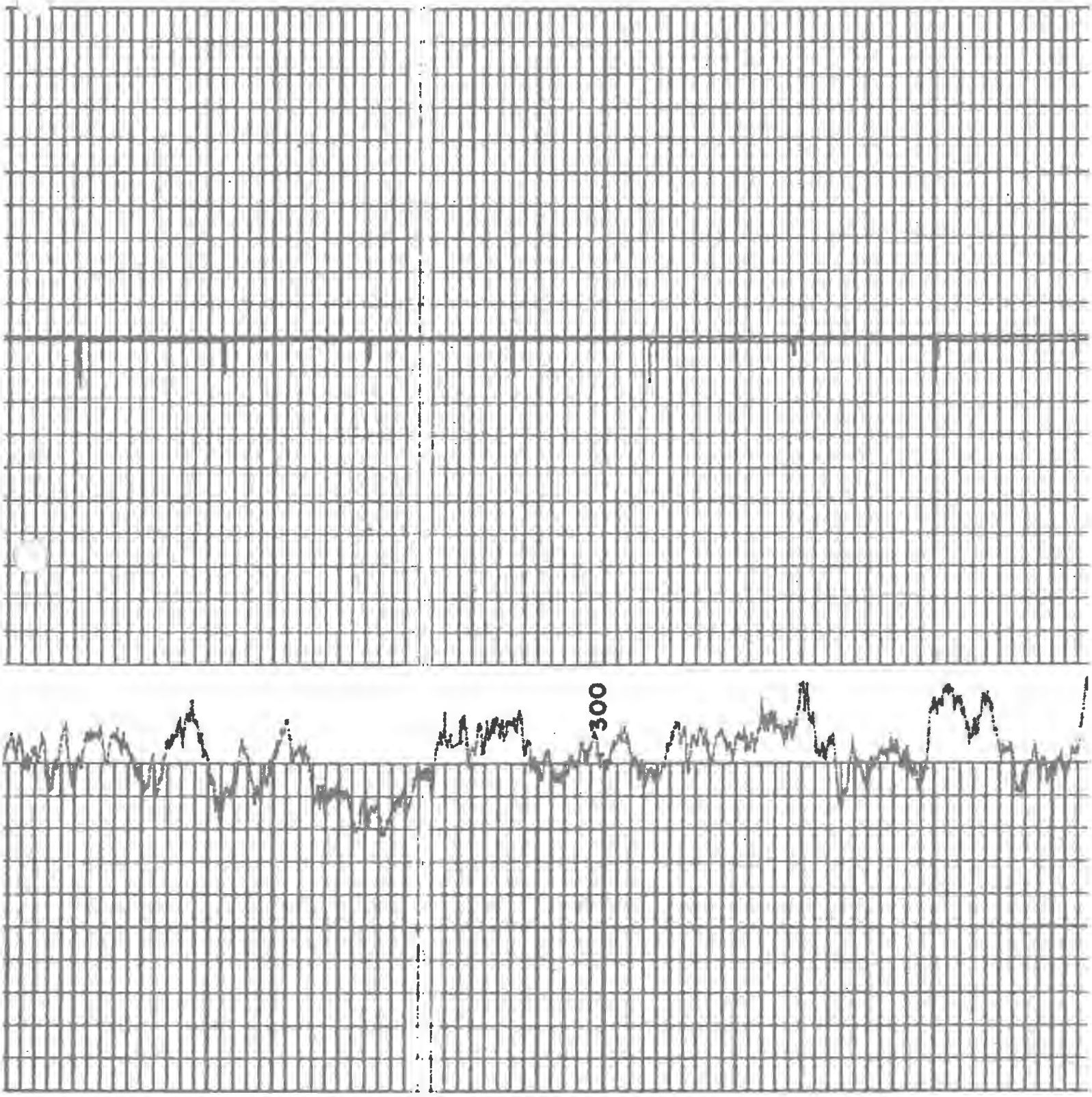
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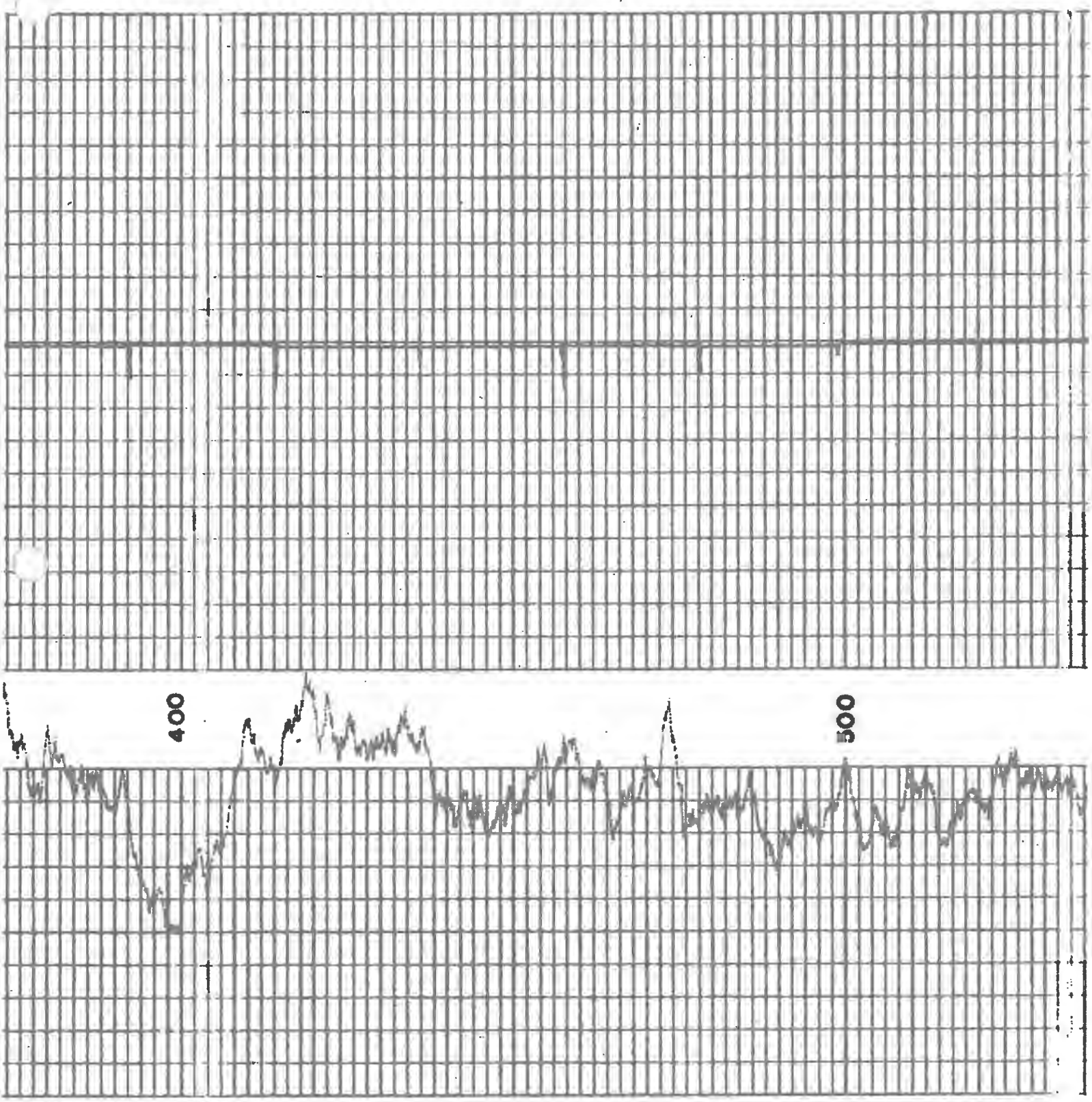
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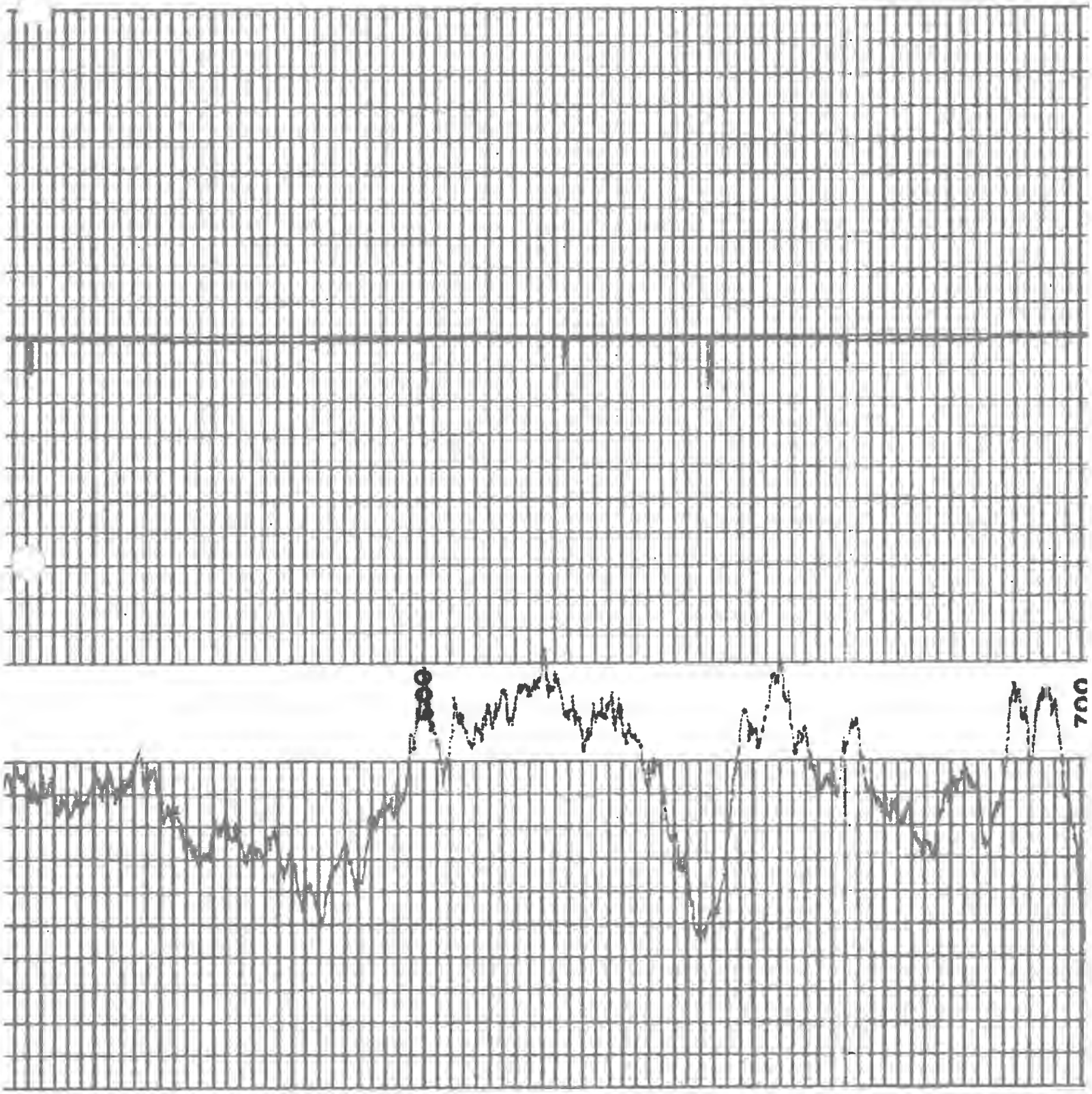
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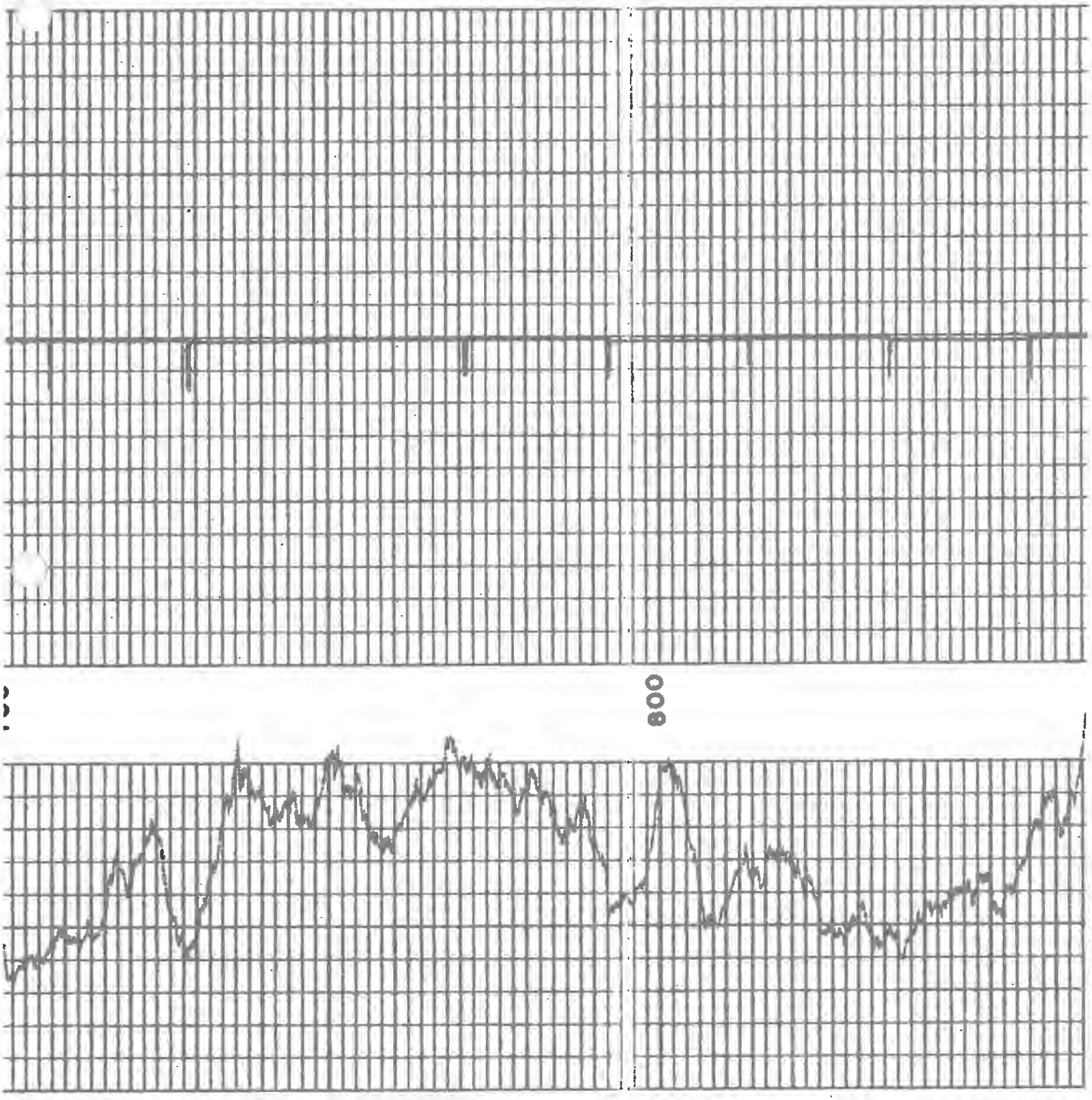
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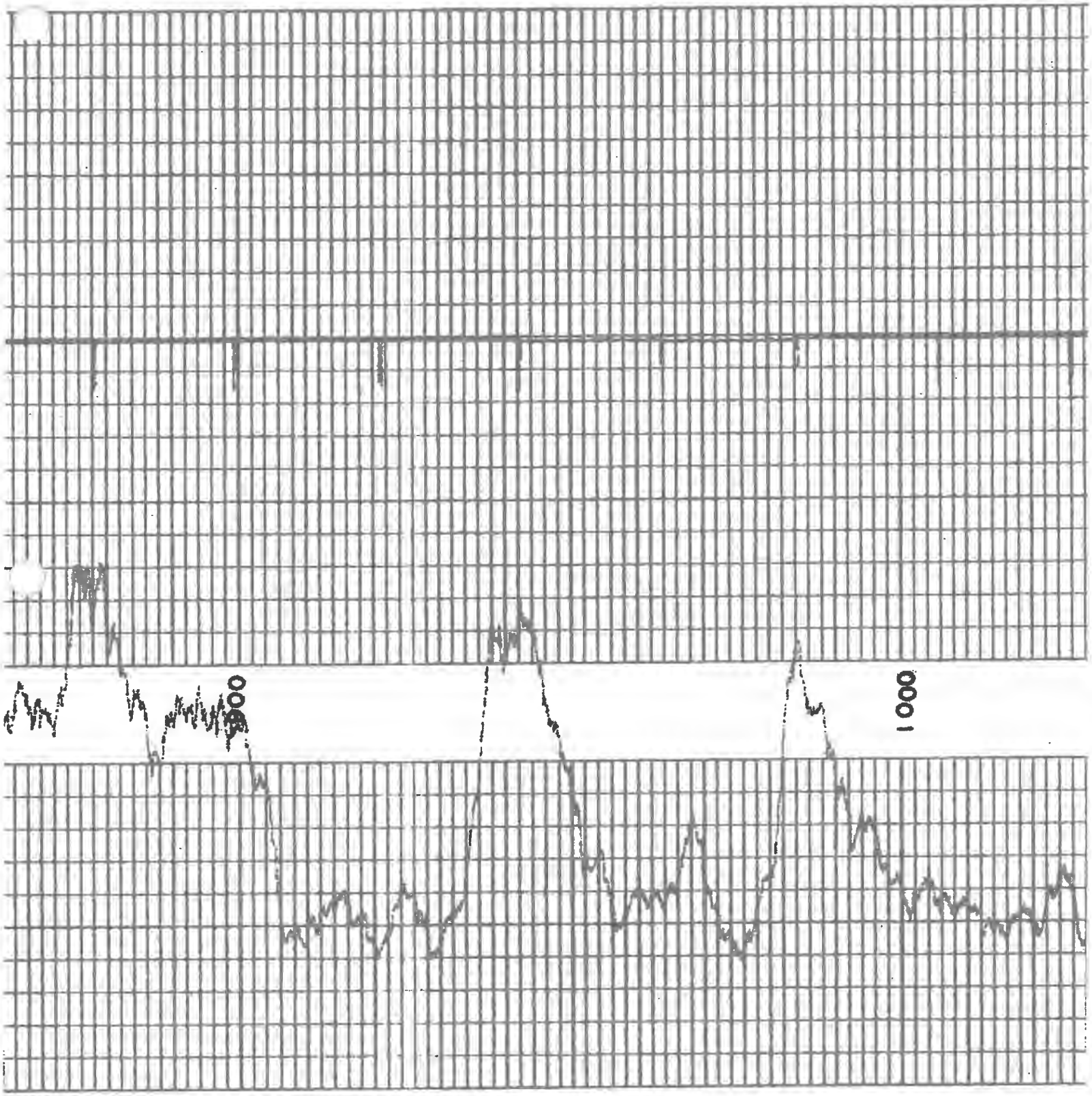
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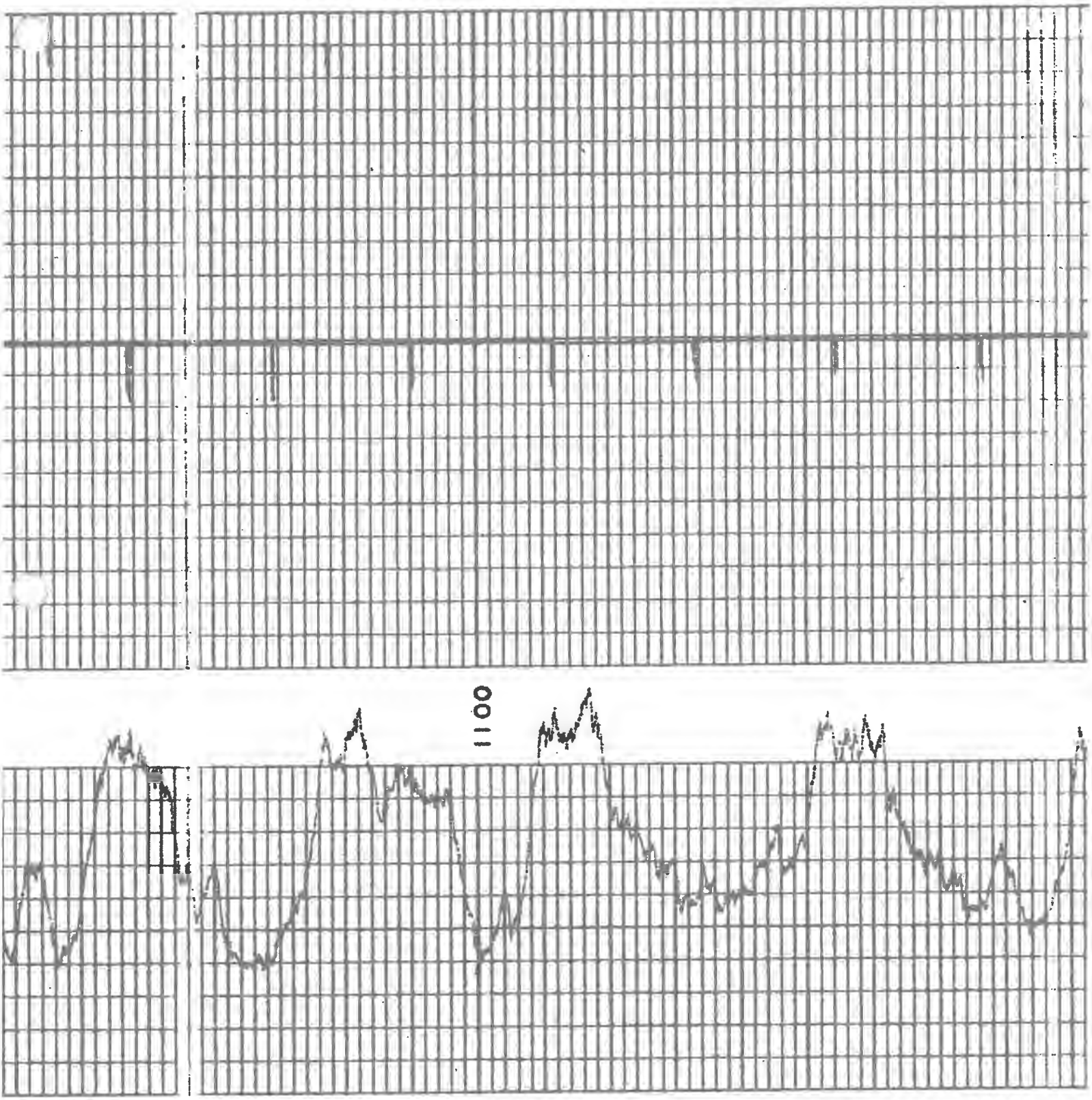
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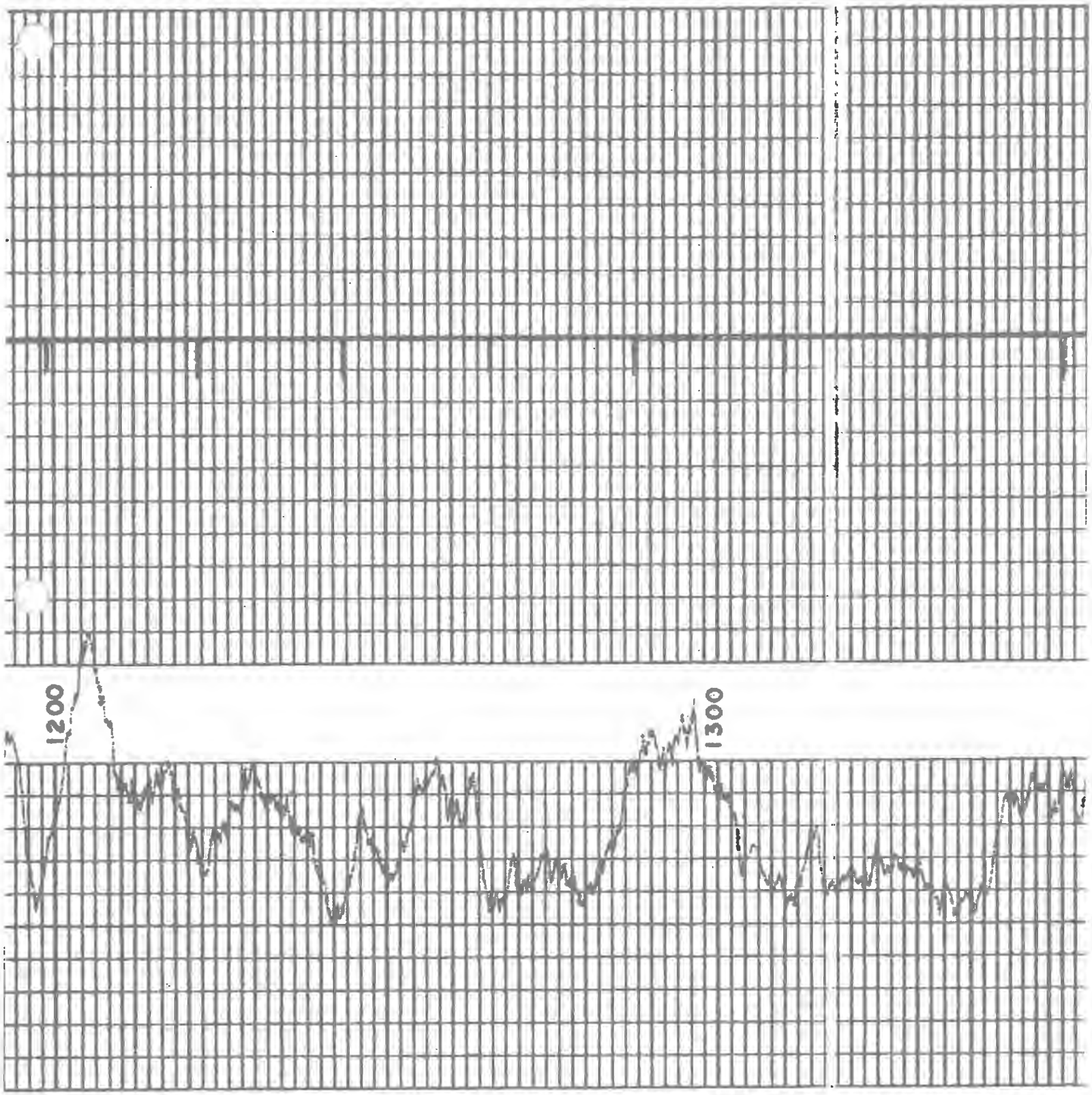
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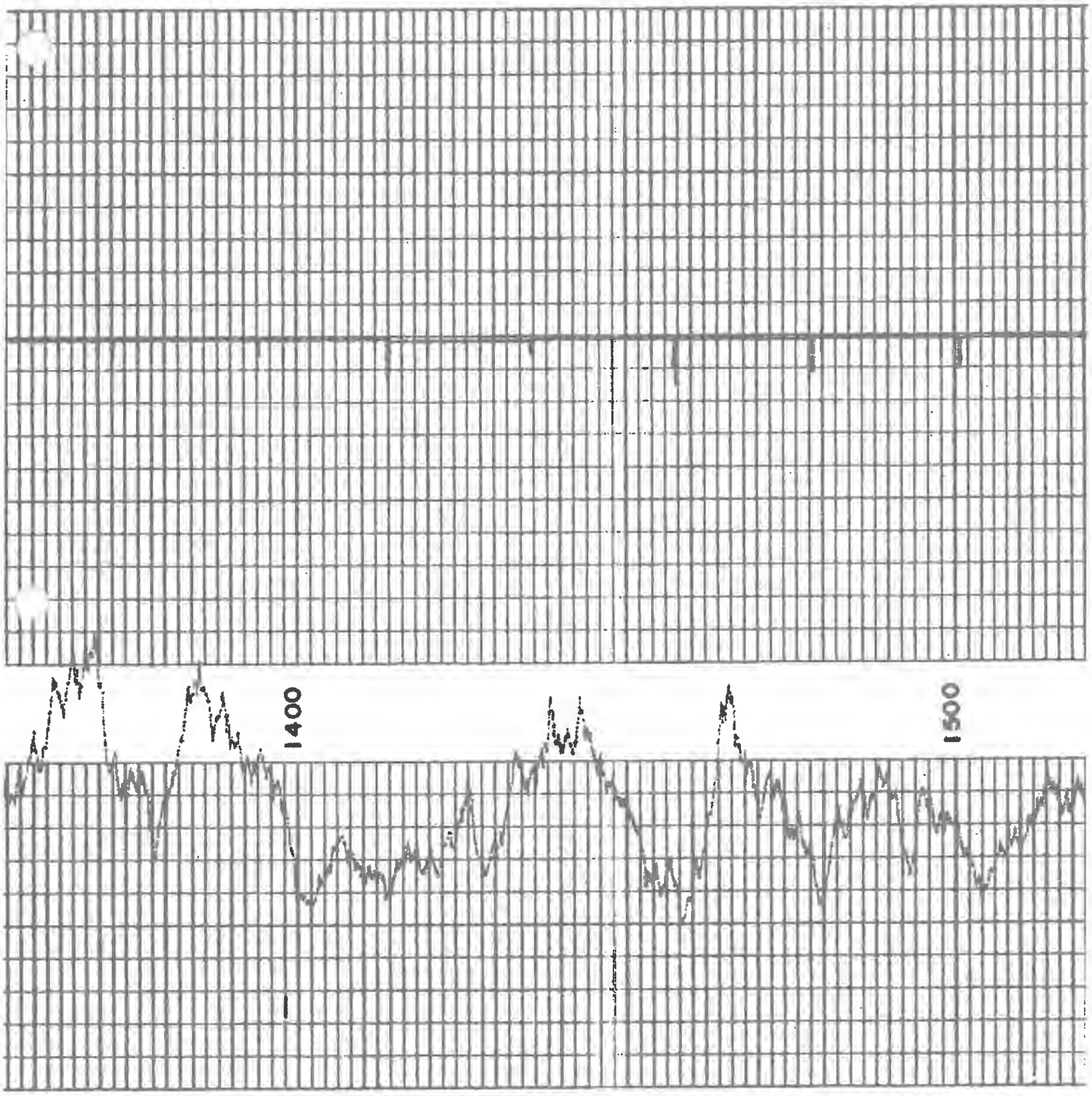
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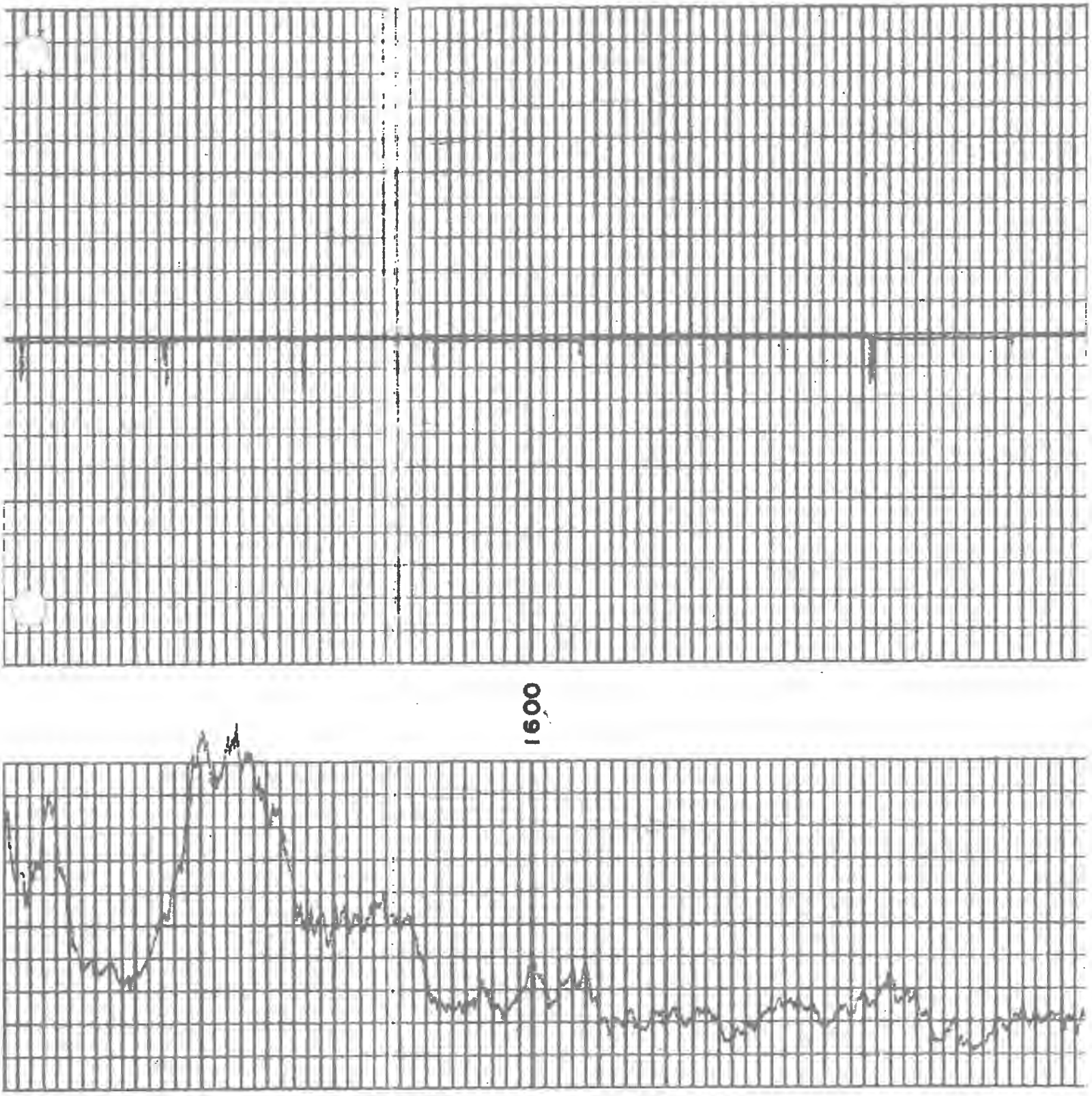
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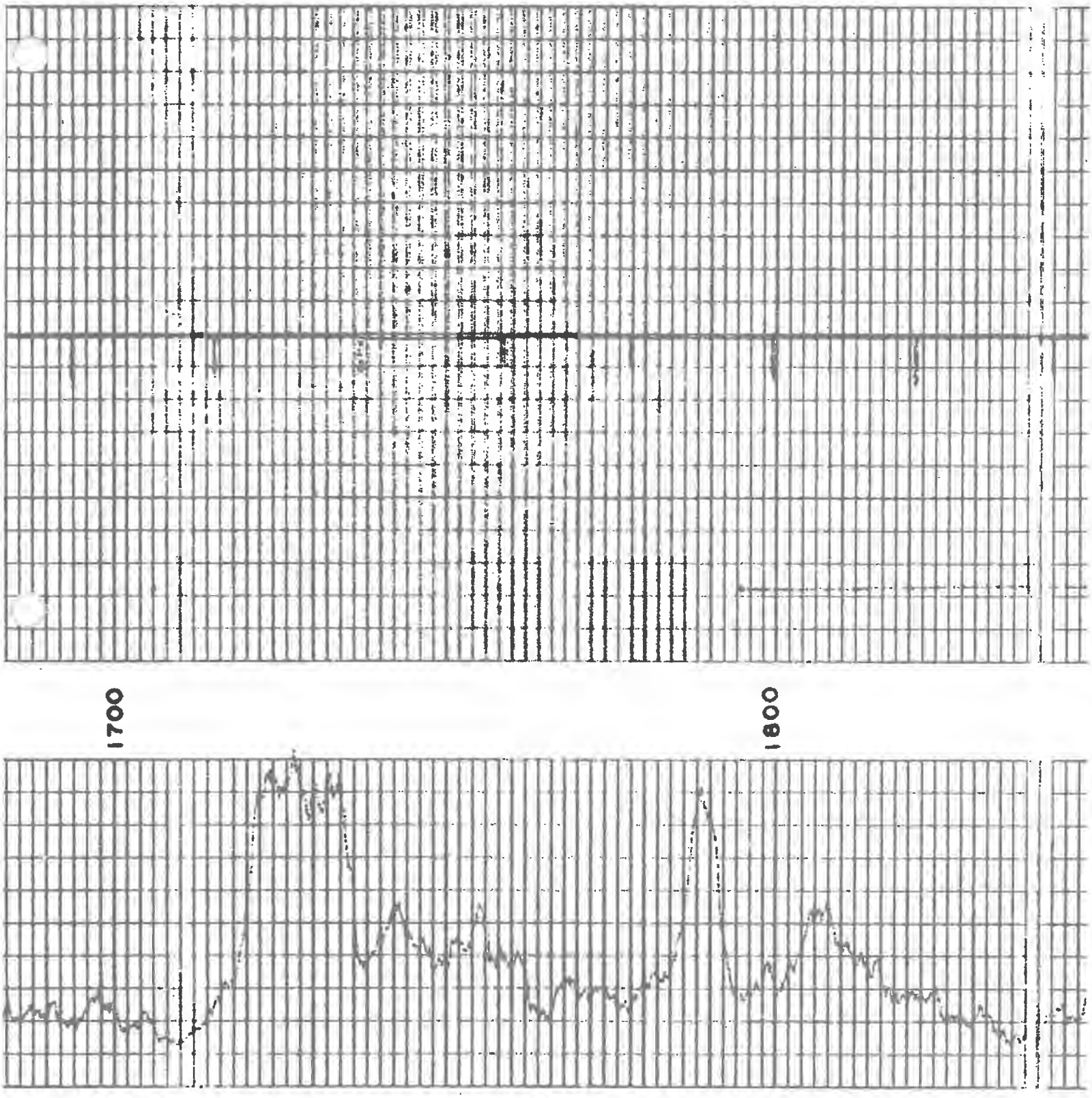
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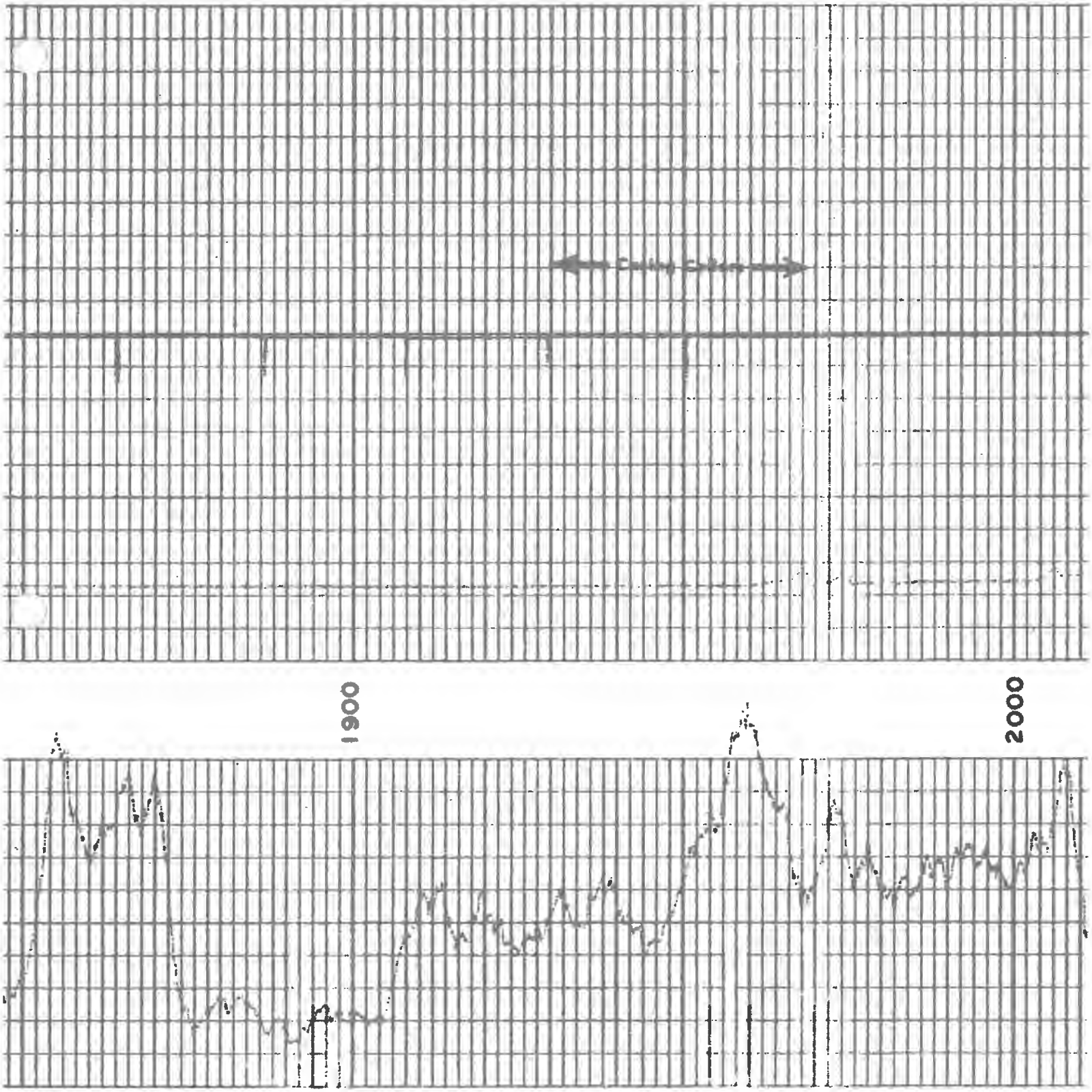
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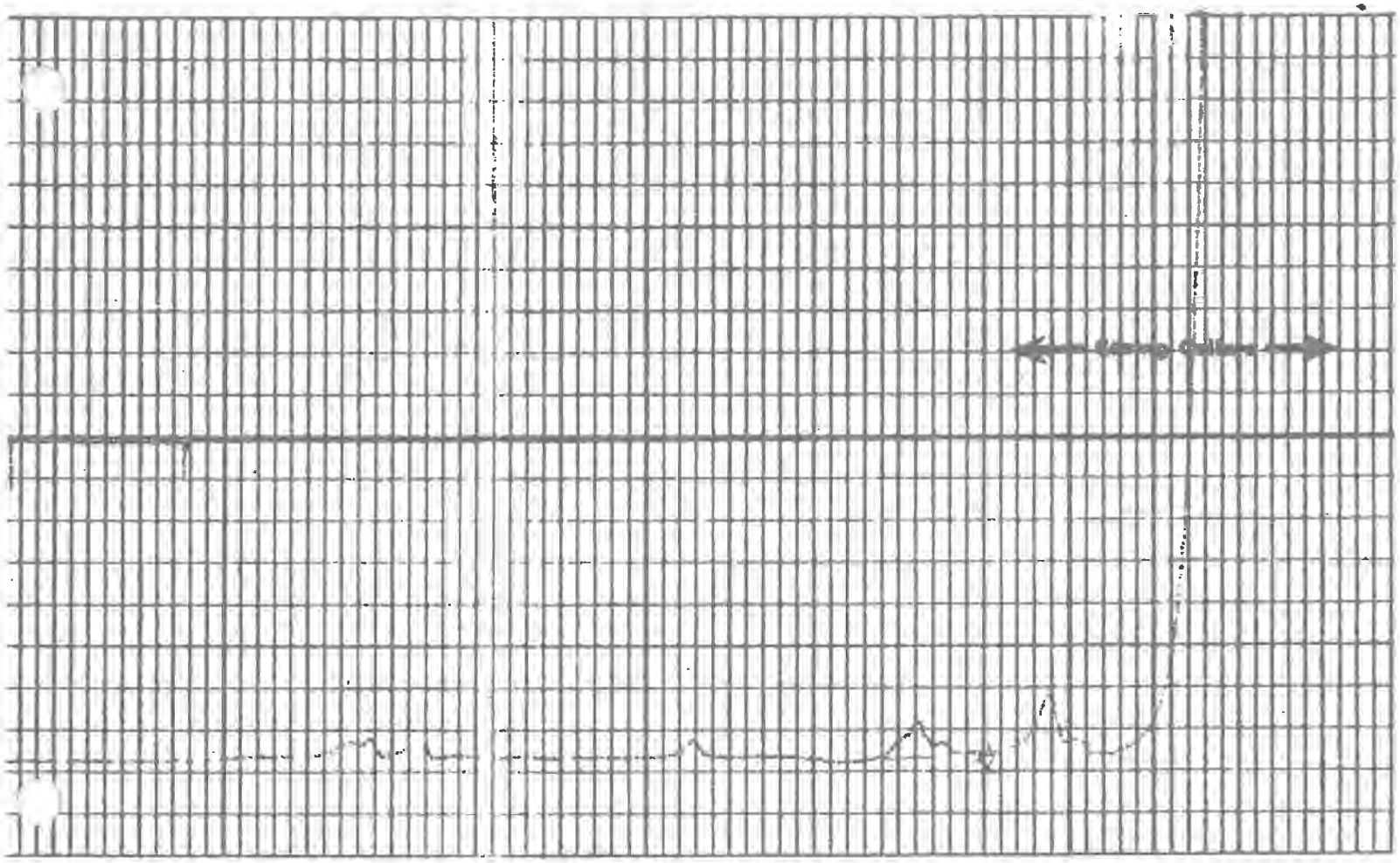
F.R.
1900



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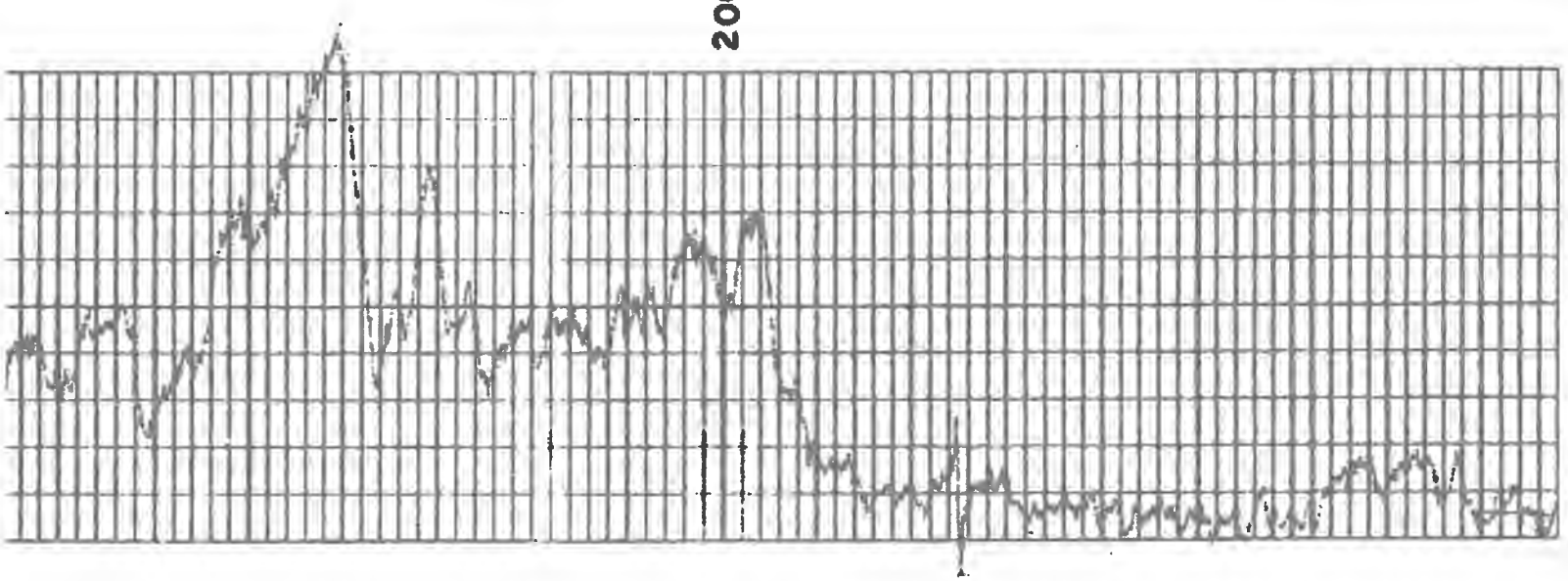
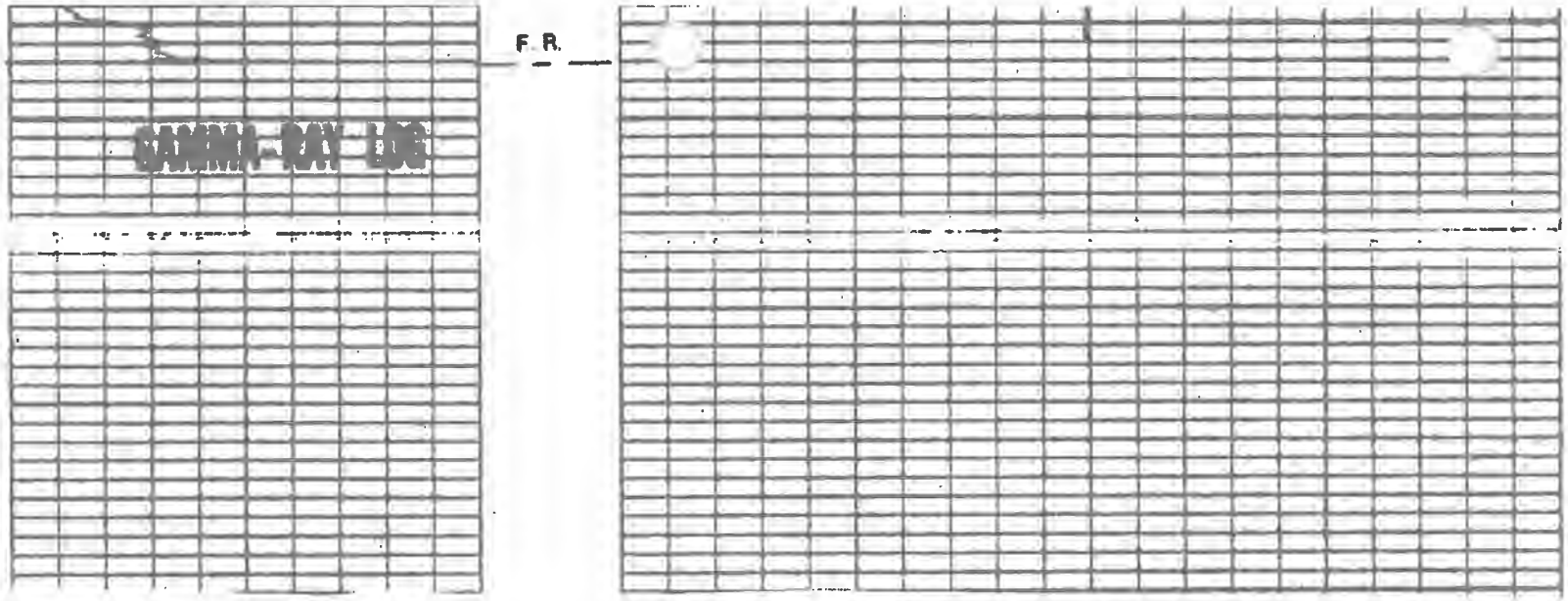



F. R.

"Pipeline"

Select County: (087) Roane

Select datatypes: (Check All)

Enter Permit #: 2824

Get Data | Reset

☑ Location ☑ Production ☑ Plugging
☑ Owner/Completion ☑ Stratigraphy ☑ Sample
☑ Pay/Show/Water ☑ Logs ☑ Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series

WV Geological & Economic Survey:

Well: County = 087 Permit = 2824

Report Time: Monday, May 18, 2020 9:53:23 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708702824	Roane	2824	unknown	unknown	unknown				

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TMD	FM	TFM_EST_PR
4708702824	-/-/-	Original Loc	Completed	P A Tallman						Pennzoil Company				

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	SH_B_BEF	SH_P_
4708702824	-/-/-	-/-/-						unclassified	unclassified	not available	unknown	unknown			0		0		0	0			0	0				

There is no Pay data for this well

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702824	Pennzoil Company	1981	1,118	0	0	0	0	0	0	0	0	0	0	0	0
4708702824	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708702824	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708702824	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702824	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702824	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702824	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708702824	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708702824	Triad Resources, Inc.	2004	10	0	0	0	10	0	0	0	0	0	0	0	0
4708702824	Triad Resources, Inc.	2005	5	5	0	0	0	0	0	0	0	0	0	0	0
4708702824	Triad Resources, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702824	Triad Resources, Inc.	2007	5	0	0	0	0	0	0	0	0	0	0	0	5
4708702824	Triad Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702824	Triad Resources, Inc.	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702824	Triad Hunter LLC	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702824	Triad Hunter LLC	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702824	Triad Hunter LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702824	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702824	Triad Hunter LLC	2014	17	0	0	0	0	3	1	2	2	2	3	2	2
4708702824	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702824	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702824	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702824	Ground Resources, LLC	2018	5	1	0	0	1	0	1	1	0	0	1	1	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DOM
4708702824	Pennzoil Company	1981	509	0	0	0	0	0	0	0	0	0	0	0	0
4708702824	Pennzoil Company	1982	665	0	0	0	0	0	0	0	0	0	0	0	0
4708702824	Pennzoil Company	1983	630	0	0	0	0	0	0	0	0	0	0	0	0
4708702824	Pennzoil Company	1984	1,029	0	0	0	0	0	0	0	0	0	0	0	0
4708702824	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702824	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702824	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708702824	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708702824	Triad Resources, Inc.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702824	Triad Resources, Inc.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702824	Triad Resources, Inc.	2006	5	0	5	0	0	0	0	0	0	0	0	0	0
4708702824	Triad Resources, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702824	Triad Resources, Inc.	2008	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702824	Triad Resources, Inc.	2009	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702824	Triad Hunter LLC	2010	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702824	Triad Hunter LLC	2011	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702824	Triad Hunter LLC	2012	3	0	0	0	0	0	0	0	0	0	0	0	3
4708702824	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702824	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702824	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702824	Triad Hunter LLC	2016	0												
4708702824	Ground Resources, LLC	2017	0												
4708702824	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702824	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702824	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702824	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702824	Triad Hunter LLC	2016	0												
4708702824	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

2824

Production Water Information: (Volumes in Gallons) [illegible] H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCB
4708702824	Triad Hunter LLC	2016	0												
4708702824	Ground Resources, LLC	2018	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

There is no Stratigraphy data for this well

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	REPORT_FILE	LOGS_AVAIL	SCAN	TRANSIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708702824	1090	2104		G *	Y	N	[illegible]	2100											1090	2104	N	Y	N						

Comment: *logs: CCL, cement bond, formation bond

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708702824gbo.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

2824

IR-6
1/9/95

RECEIVED 2824
OFFICE OF OIL AND GAS

FEB 22 1995

WV Division of
Environmental Protection

State of West Virginia
Division of Environmental Protection
Office of Oil and Gas

Complete Well Inspection Form

API NUMBER 087-2824 WELL OPERATOR Pennzoil Products Co.
FARM NAME P.A. Tallman WELL NUMBER 7
QUAD _____ DISTRICT Smithfield COUNTY Roane
Future Use well

	Yes	No
A. THE ACCESS ROAD MEETS ALL REQUIREMENTS? 22-6-30, 22-6-6, 38CSR-18-16		
1. All culverts are properly sized for drainage area?	✓	
2. All culverts are placed at the proper depth?	✓	
3. The culverts head walls or drop inlets are installed?		✓
4. The culverts discharge to stable ground/dissipating device?		✓
5. Are culverts and cross drains installed at proper spacing?	✓	
6. Are road side ditches installed?	✓	
7. Are road, road banks and slopes reclaimed and reseeded?	✓	
8. The stream crossings are adequately installed?	✓	
9. The road water run off is not getting into the county/state road nor into the waters of the state?		✓
10. Are drainage/sediment control structures maintained?	✓	
B. THE WELL IS PROPERLY EQUIPPED AND the LOCATION IS RECLAIMED? 22-6-30, 22-6-6, 38CSR-18-16	✓	
1. Does the well have stamped or attached the API number? 22-6-6 (f), 38CSR-18-5.5.1	✓	
2. Is the pit backfilled and reclaimed? GENERAL PERMIT	✓	
3. Is all water diverted from location and pit area?	✓	
4. Is the location properly reclaimed?	✓	
5. Are all associated disturbances (eg. work over pits, meter sites, tank batteries, etc.) properly reclaimed?	✓	
6. Are electric lines off the ground and safe? 22-6-3	✓	
7. Is the location free of Oil/gas/saltwater leaks?	✓	
8. Is this well being produced/operated?		
9. Is this well showing production on the computer? 22-6-19, 38CSR-11-7		✓
10. Is there a casing head or suitable device which prevents debris or fluids from entering the well, and which allows for the free passage of gas?	✓	
11. Is the annulus free from escaping gas or fluid?	✓	
12. Is the location free from oil field trash? 38CSR-16-7.3.1, 38CSR-16-7.4	✓	
13. Are all production lines buried/reclaimed? OR IV-75	✓	
C. DOES THE SPILL PREVENTION MEET ALL REQUIREMENTS? 22-6-7, 38CSR-11-7, 38CSR-18-11-TO 17	✓	
1. Is there a SPCC plan implemented?	✓	
2. Do the tanks have valves, vents, and equalizing lines?	✓	
3. Do the tanks have secondary containment structures?	✓	
4. Are the containment structures impervious?	✓	
5. Do the containment structures have a drain and valves which are closed and sealed except when draining rain water?	✓	
6. Are the containment structures free from water/oil?	✓	
7. Are the load lines equipped with valves and plugs?	✓	
8. Is salt water being properly disposed of?	✓	
9. Are the secondary containment structures adequate?	✓	

IR-6(b) 2824

Yes No

D. ENFORCEMENT ACTION AND GENERAL INFORMATION

1. Were you able to drive to this well? ( ) (✓)
2. Can you determine who actually operates this well? (✓) ( )
3. Can you determine the method of saltwater disposal? (✓) ( )
   (specify method and how determined) used in Secondary Recovery
4. Can you determine if the well produces any condensate or drip and how is it disposed? ( ) (✓)
   _____
5. Can you determine what size csg is in the well? also Mecs Bridge Plug set in 4½" Pipe (✓) ( )
   If so specify 7" Pipe + Head 4½" Swedge + Valve
6. How close is the nearest dwelling or water well? 1500 ft.
7. Was this inspection routine? Specify (complaint, random, etc.) _____ (✓) ( )
8. Is this well part of a secondary recovery field ? (✓) ( )
9. Was any enforcement action taken as a result of this inspection? ( ) (✓)
   (Specify-Violation?, Warning Letter?) _____
10. Is there previous violations on this well? ( ) (✓)
11. Did you take any pictures during this inspection? ( ) (✓)
12. Did you take any water sa[illegible]les during this inspection? ( ) (✓)
13. Did a company representative accompany you on this inspection? ( ) (✓)
14. Does the tank have a purchaser name and/or number? ( ) ( )
    (If so specify) _____

E. RECOMMENDATIONS AND COMMENTS

TIME REQUIRED TO COMPLETE THIS INSPECTION 1 min/hr's

Date 2/9/95 Inspector Hildi Dougherty

2824

RDA 2824

[illegible]

FILING NO. PERMIT #N/A

2824

THANKS

COMPANY PENNZOIL COMPANY

WELL P A TALLMAN #7

FIELD TARIFF

COUNTY ROANE STATE W. VA.

LOCATION TARRIFF WATERSHED FOR DIST. SMITHFIELD

OTHER SERV. NONE

SEC. TWP. RGE.

PERMANENT DATUM	GL	ELEV. N/A	ELEVATION KB N/A
LOG MEASURED FROM	GL		DF N/A
DRILLING MEASURED FROM	GL		GL N/A
DATE	9-6-84		
RUN NO.	ONE		
TYPE LOG	GAMMA RAY	CEMENT BOND	
DEPTH—DRILLER	2155		
DEPTH—LOGGER	2114		
BOTTOM LOGGED INTERVAL	2110		
TOP LOGGED INTERVAL	1100		
TYPE FLUID IN HOLE	WATER		
SALINITY PPM CL.	N/A		
DENSITY LB./GAL.	N/A		
LEVEL	FULL		
MAX. REC. TEMP. DEG. F.			
OPR. RIG TIME	2 HRS		
RECORDED BY	SAMSON NICHOLS		
WITNESSED BY	MR PUTSCHER		

RUN NO.	BORE HOLE RECORD BIT	FROM	TO	CASING RECORD SIZE	WGT.	FROM	TO
	N/A			7		SURFACE	502
				4½		SURFACE	2115

FOLD HERE

THIS READING AND LOG CONFORMS TO API RECOMMENDED STANDARD PRACTICE RP-33 (F)

LOGGING AND EQUIPMENT DATA (BOND CEMENT LOG)

DATE RECORDED	2-6-84		TOOL MODEL NO.	5568-10
TIME STARTED	8AM		DIAMETER	[illegible]
TIME FINISHED	10AM		LENGTH	[illegible]
LOGGED INTERVAL	2110-1100			
LOGGED CEMENT TOP	1460			

CEMENTING DATA

	1	2	SQUEEZE NO. 1	SQUEEZE NO. 2
DATE AND HOUR SET				
SETTING TIME (HRS.)				
TYPE CEMENT				
SACKS USED				
PRECEDING FLUID				
% ADDITIVE				
% RETARDER				
SLURRY WEIGHT				
BREAKDOWN PRESSURE				
SURFACE MAX. PRESS.				
BOTTOM MAX. PRESS.				

GAMMA RAY

RUN NO.	ONE		
TOOL MODEL NO.	[illegible]		
DIAM.	3[illegible]		
DETECT. MODEL NO.			
TYPE	SCINT		
LENGTH			
DIST. TO N. SOURCE			

NEUTRON

RUN NO.			
LOG TYPE			
TOOL MODEL NO.			
DIAM.			
DETECT. MODEL NO.			
TYPE			
LENGTH			
SOURCE MODEL NO.			
SERIAL NO.			
SPACING			
TYPE			
STRENGTH			

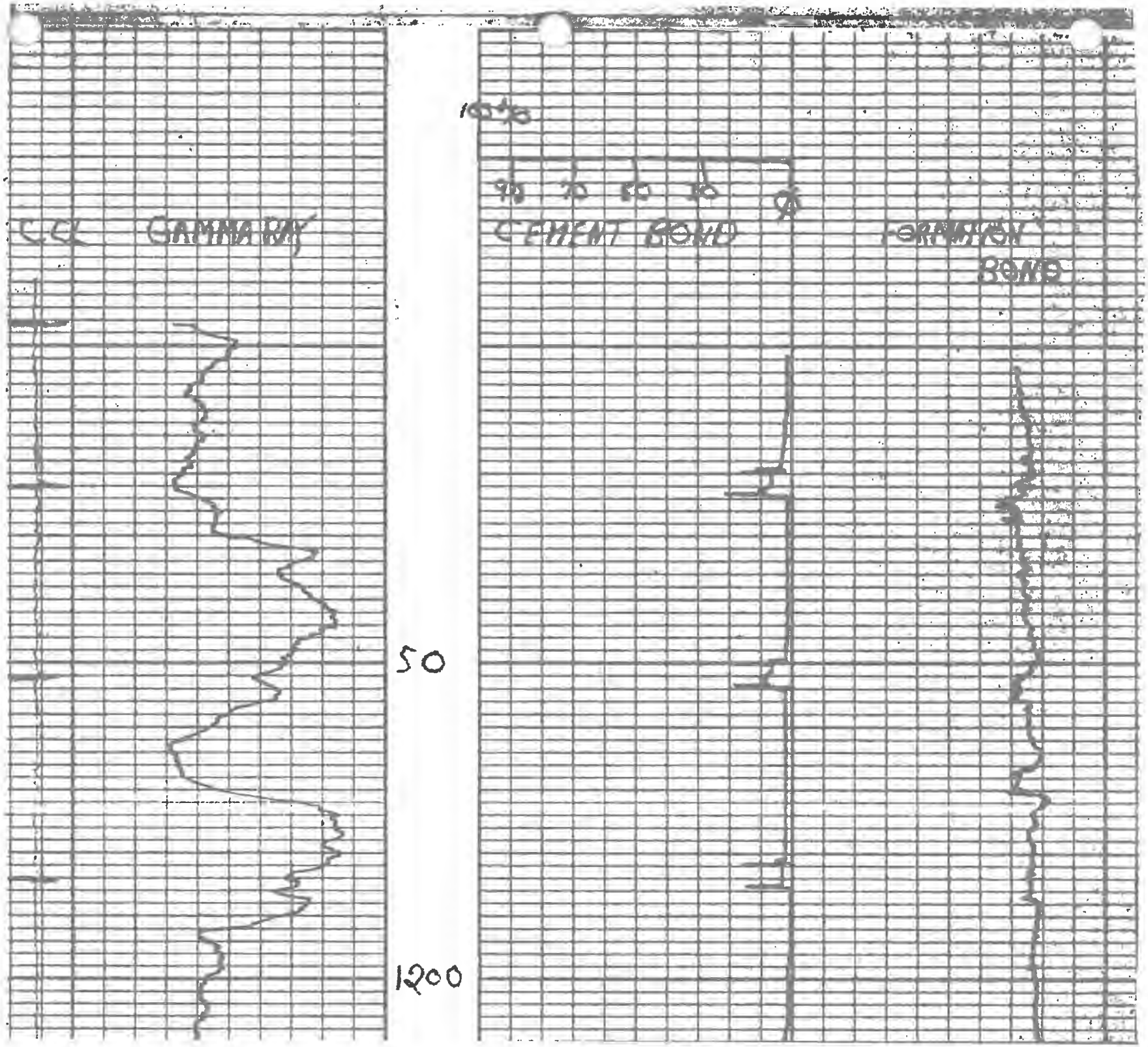
GENERAL

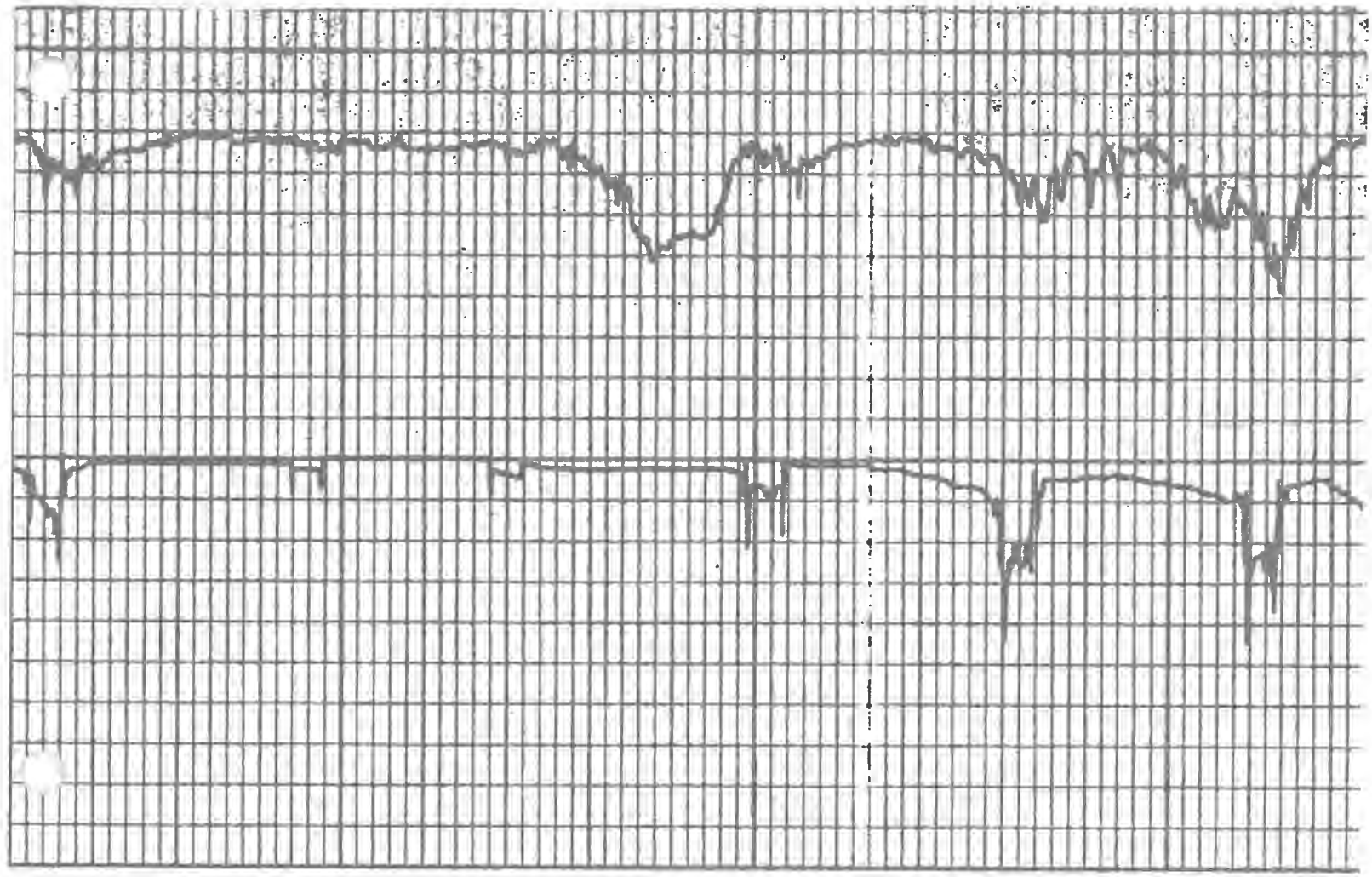
HOIST TRUCK NO.			
INST. TRUCK NO.	84025		
TOOL SERIAL NO.			
LOG TICKET NO.	179900		

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED FT./MIN.	T. C. SEC.	SENS. SETTINGS	ZERO DIV. L. or R.	API GAMMA RAY PER LOG DIV.	T. C. SEC.	SENS. SETTINGS	ZERO DIV. L. or R.	API GAMMA RAY PER LOG DIV.
ONE	2110	1100			R 6	Ø			BT 80	Ø	
					G 300				BG 75		
				3	Ø 200						

REMARKS: CORRALATED TO BIRDWELL OPEN HOLE LOG


CCL GAMMA RAY
CEMENT BOND
FORMATION BOND
100%
90 70 50 30 0
50
1200



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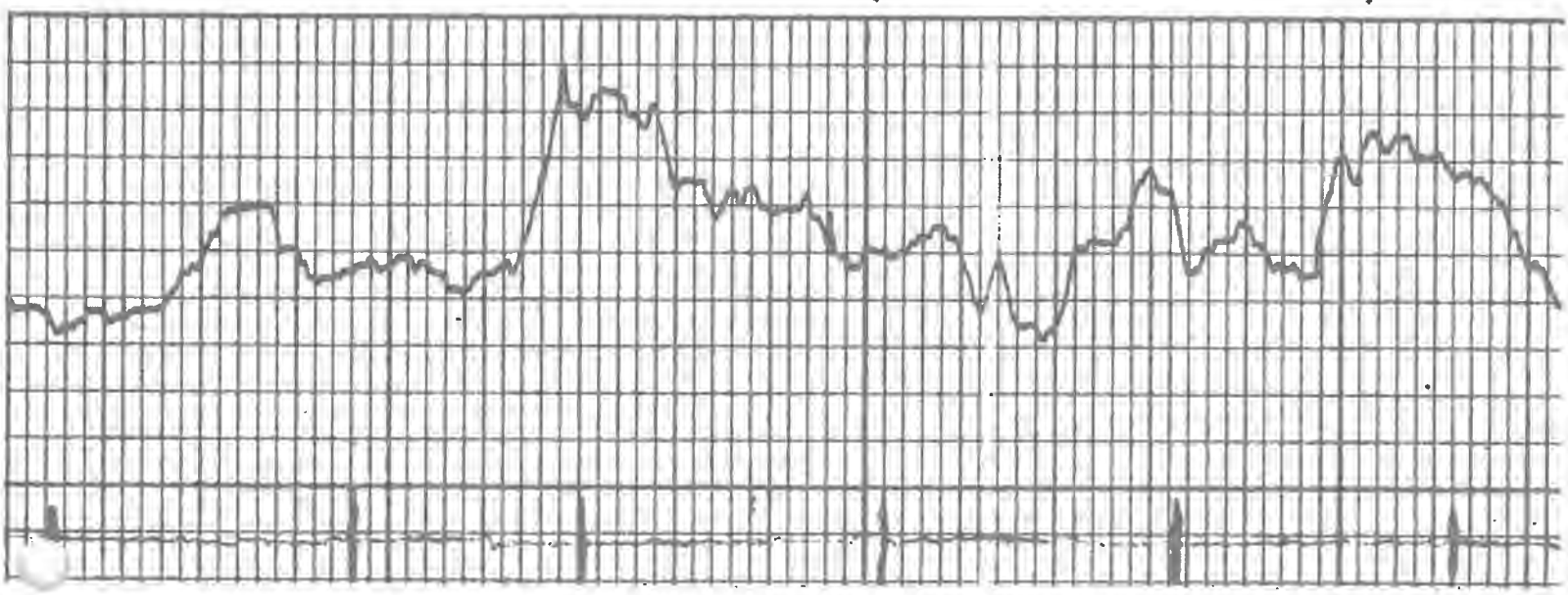

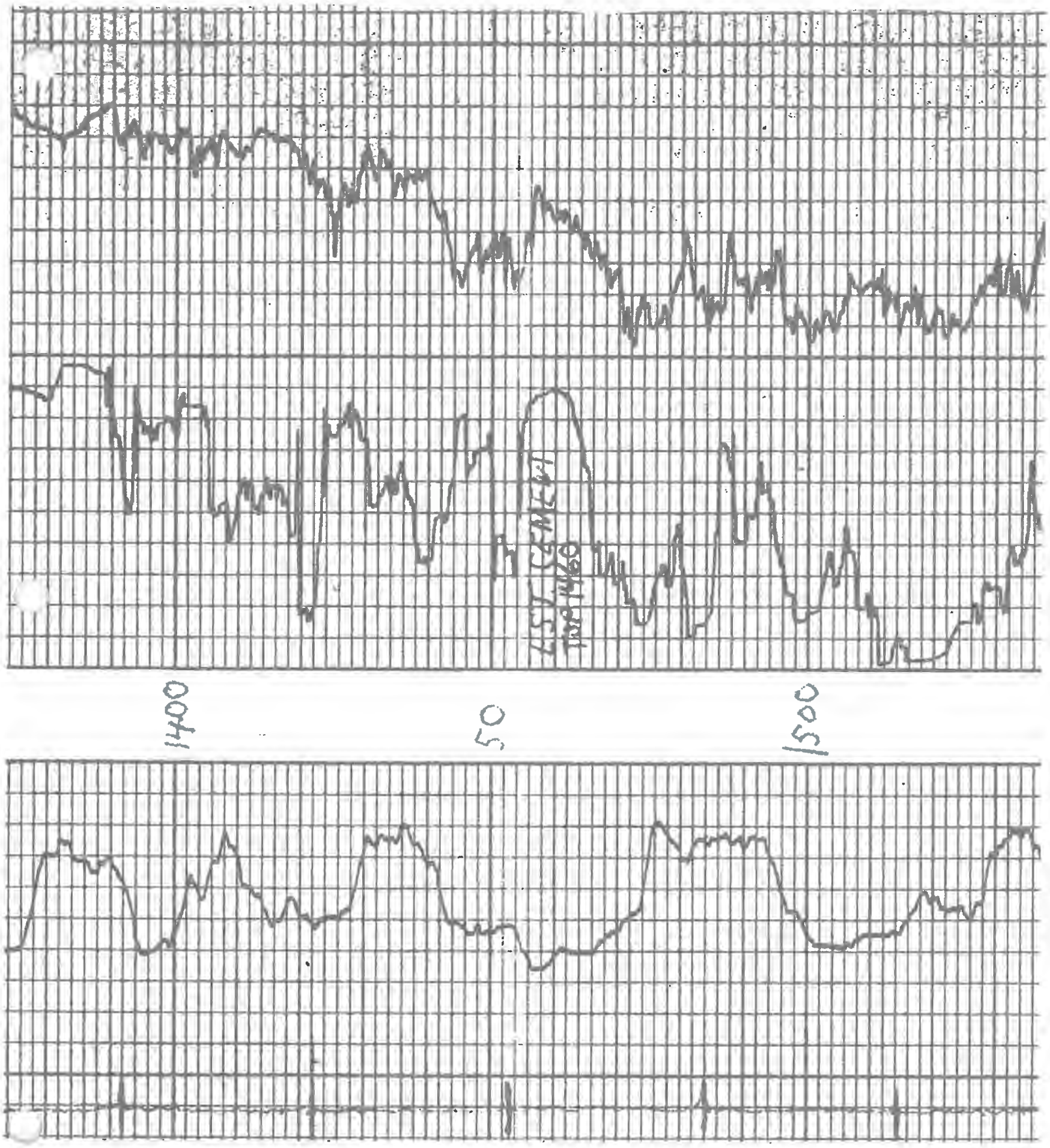
1400
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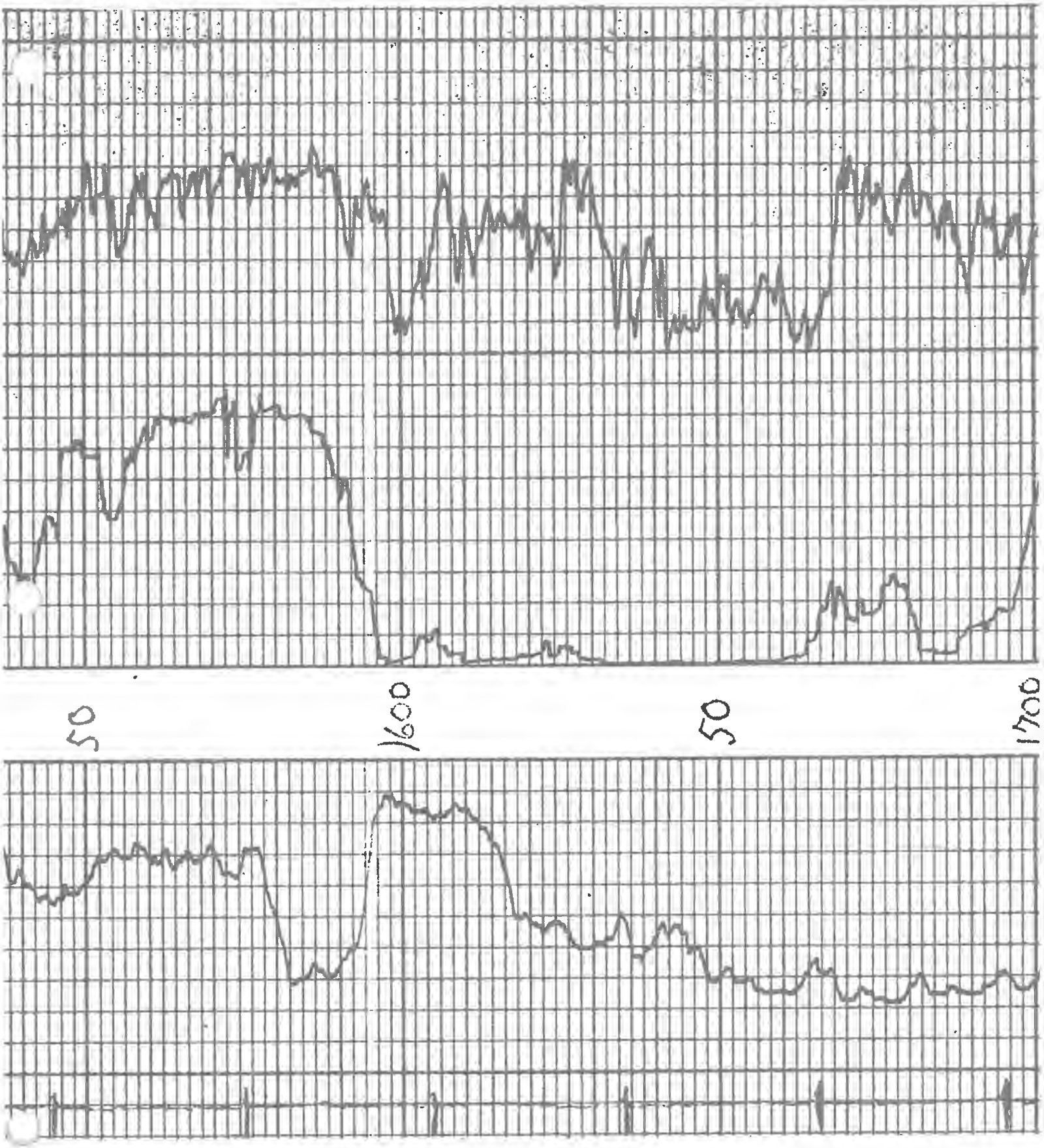
1500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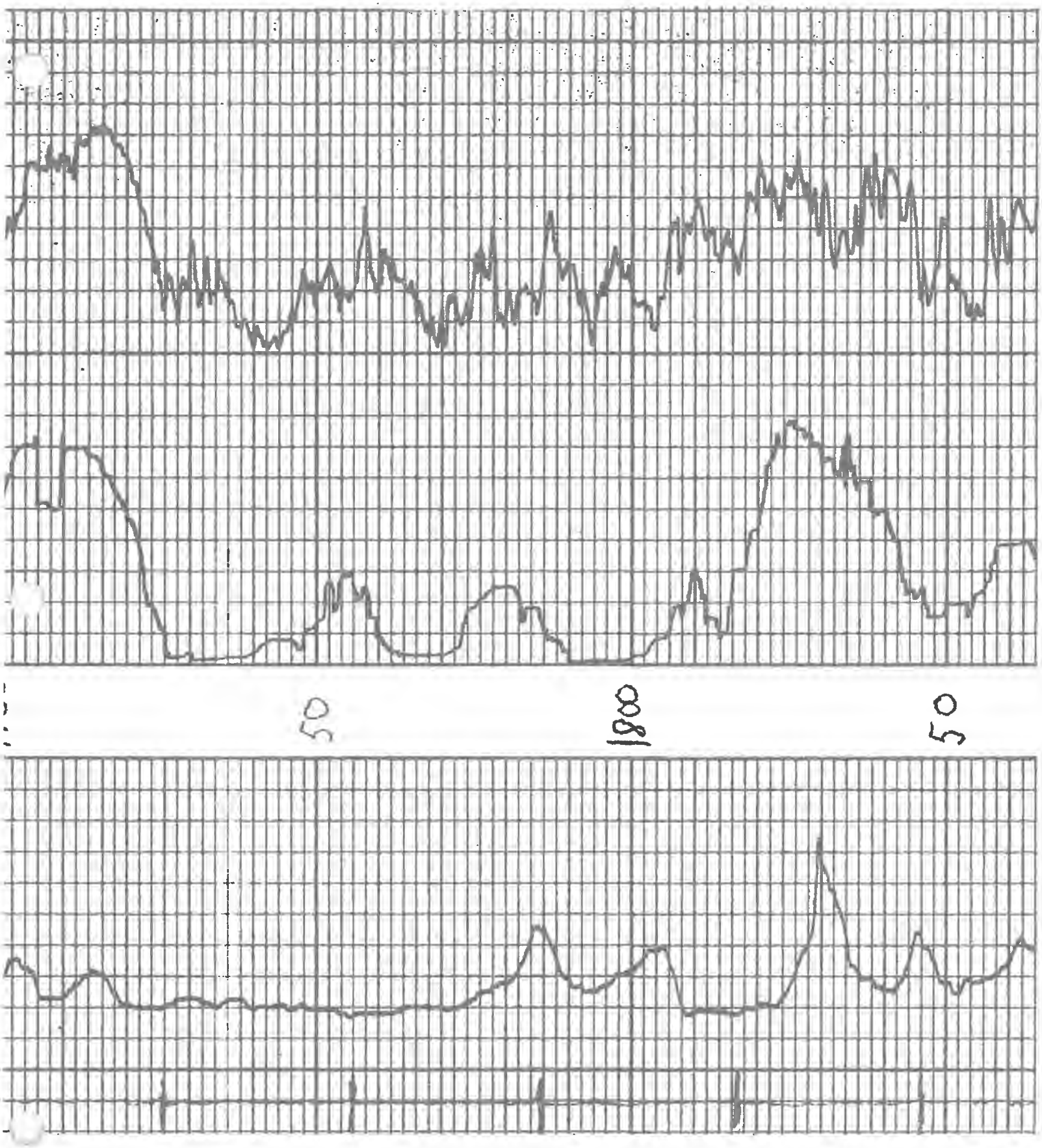
1700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180
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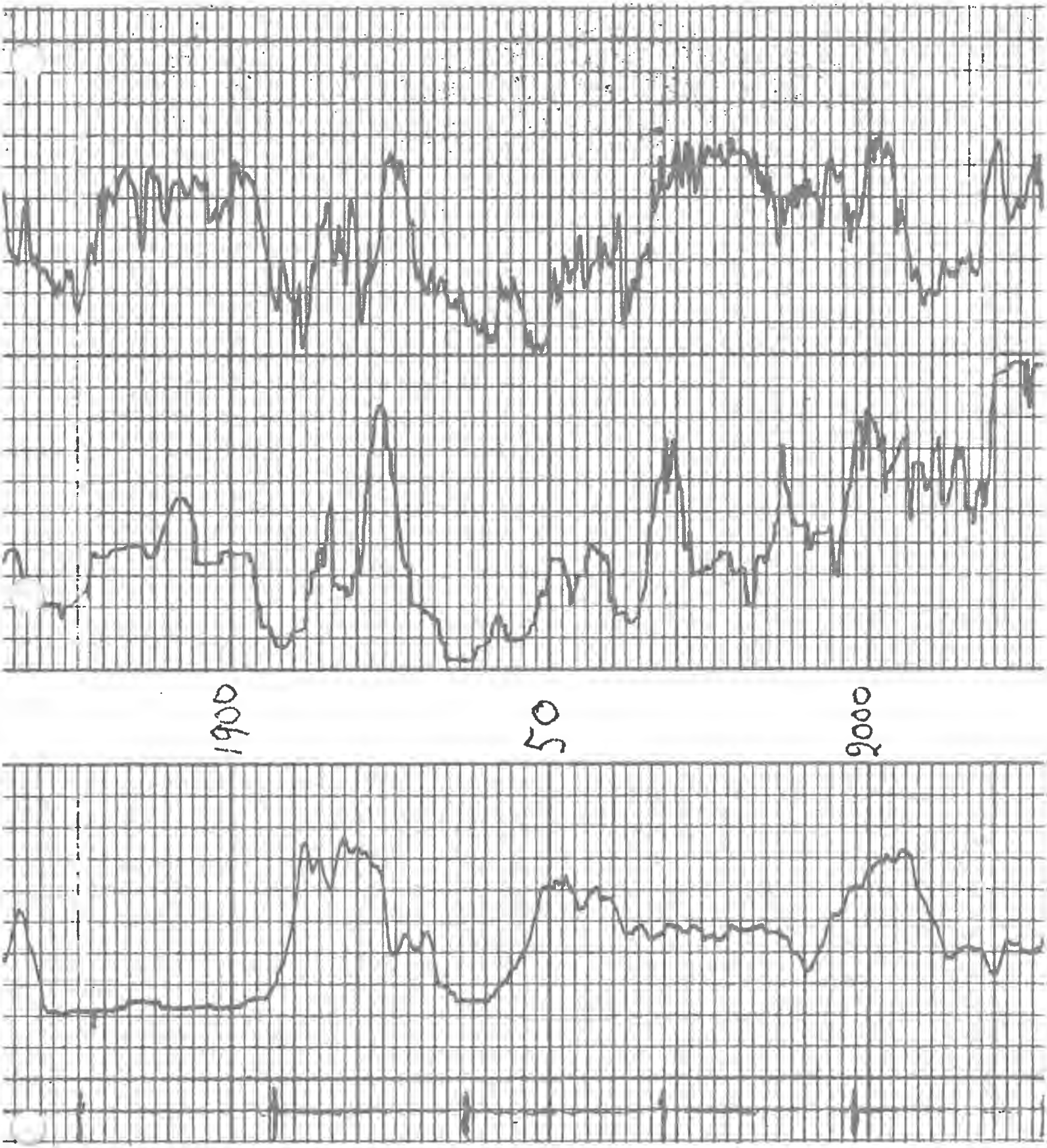
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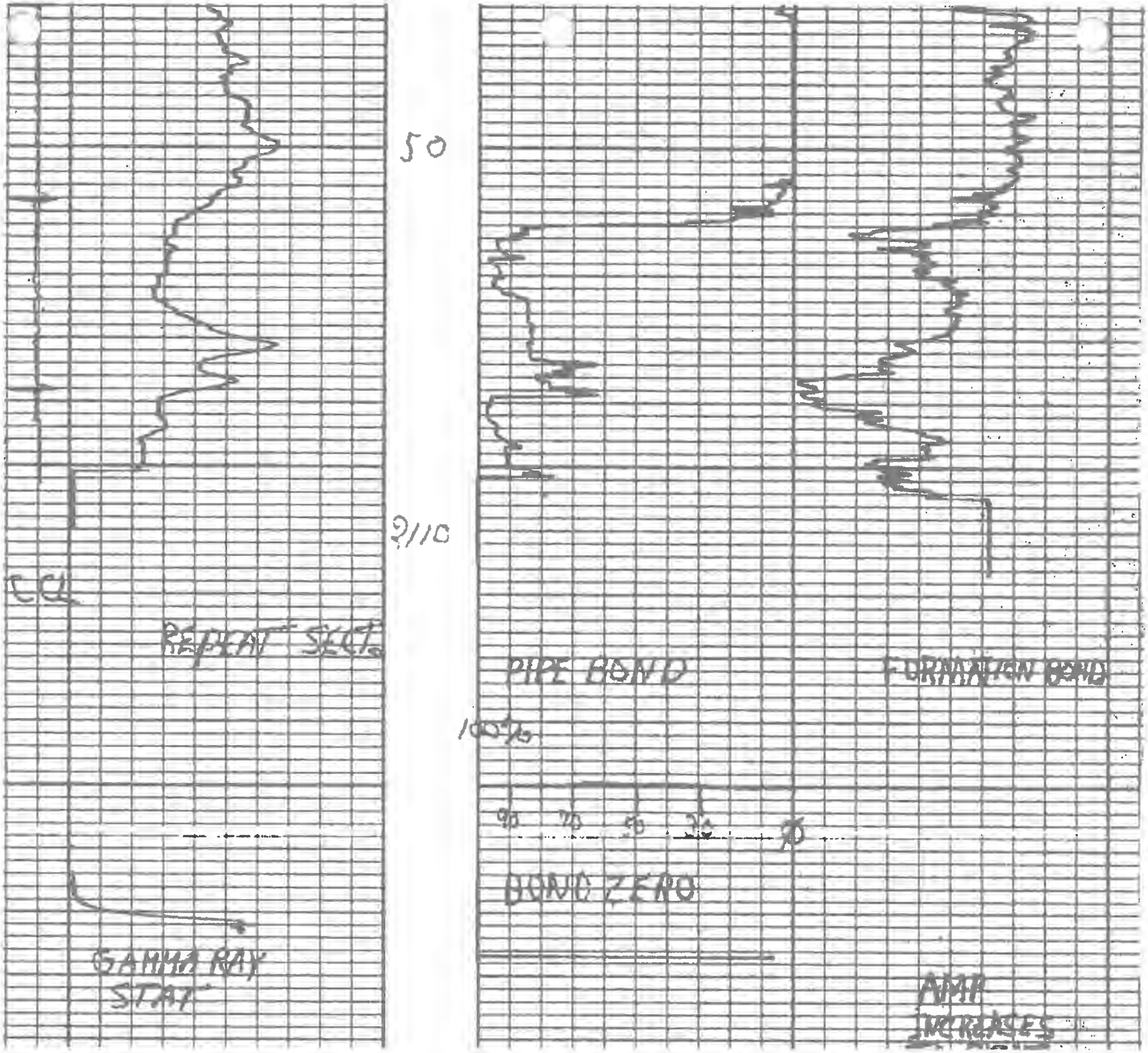
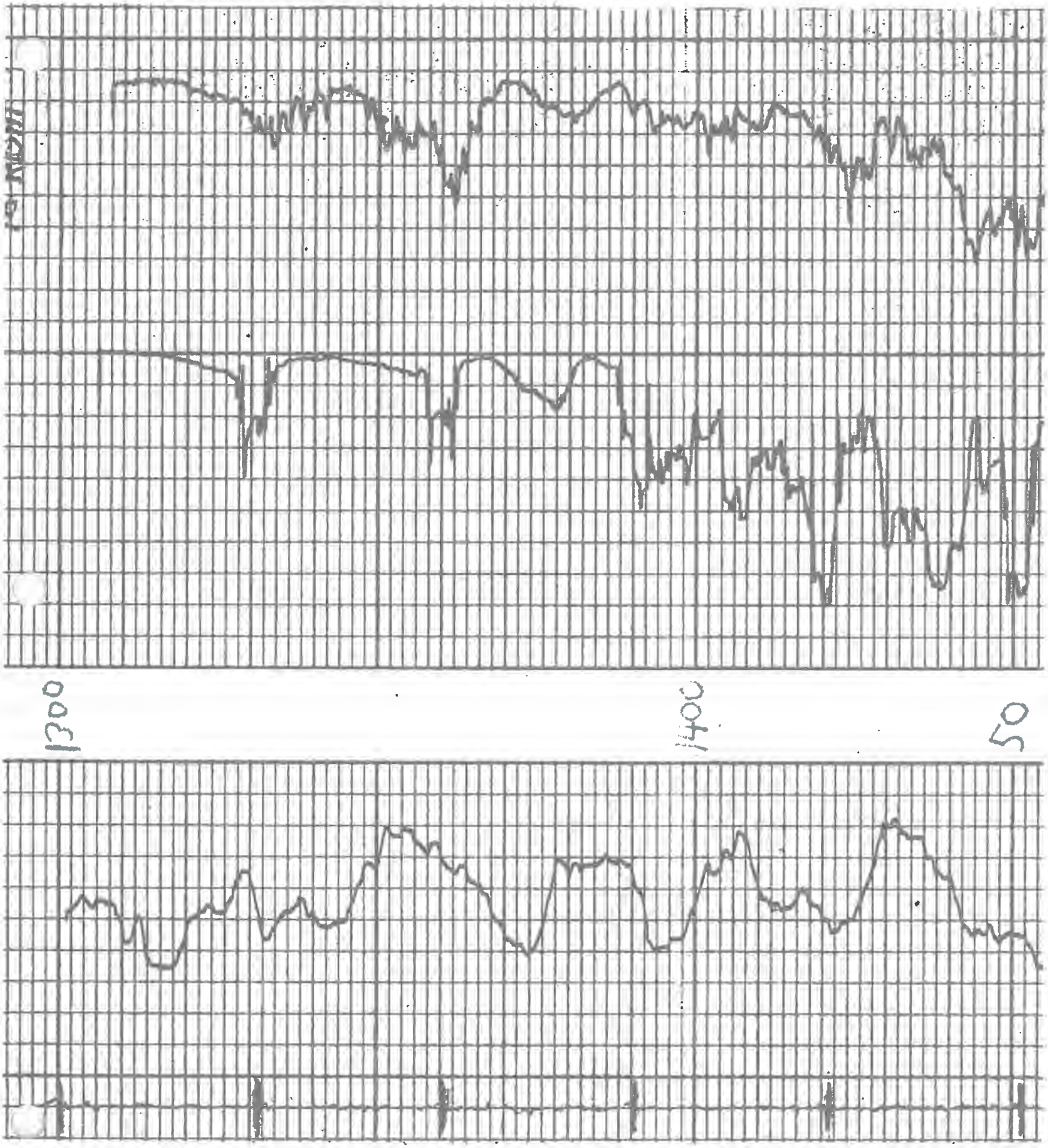
2000


50
2110
CCL
REPEAT SECT.
GAMMA RAY
START
PIPE BOND
FORMATION BOND
100%
90 70 50 30 10
BOND ZERO
AMP
INCREASES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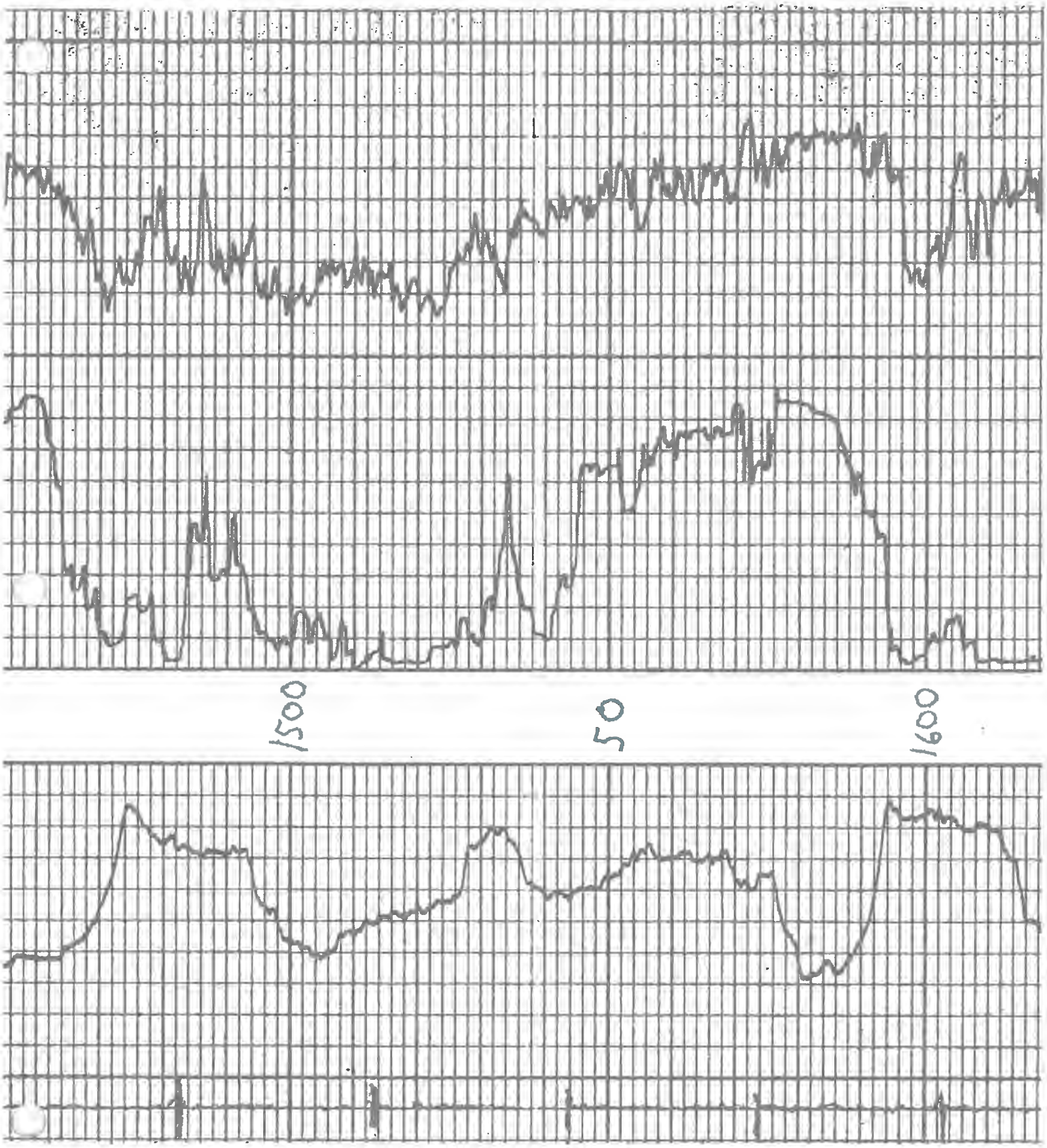
1400
50


1500
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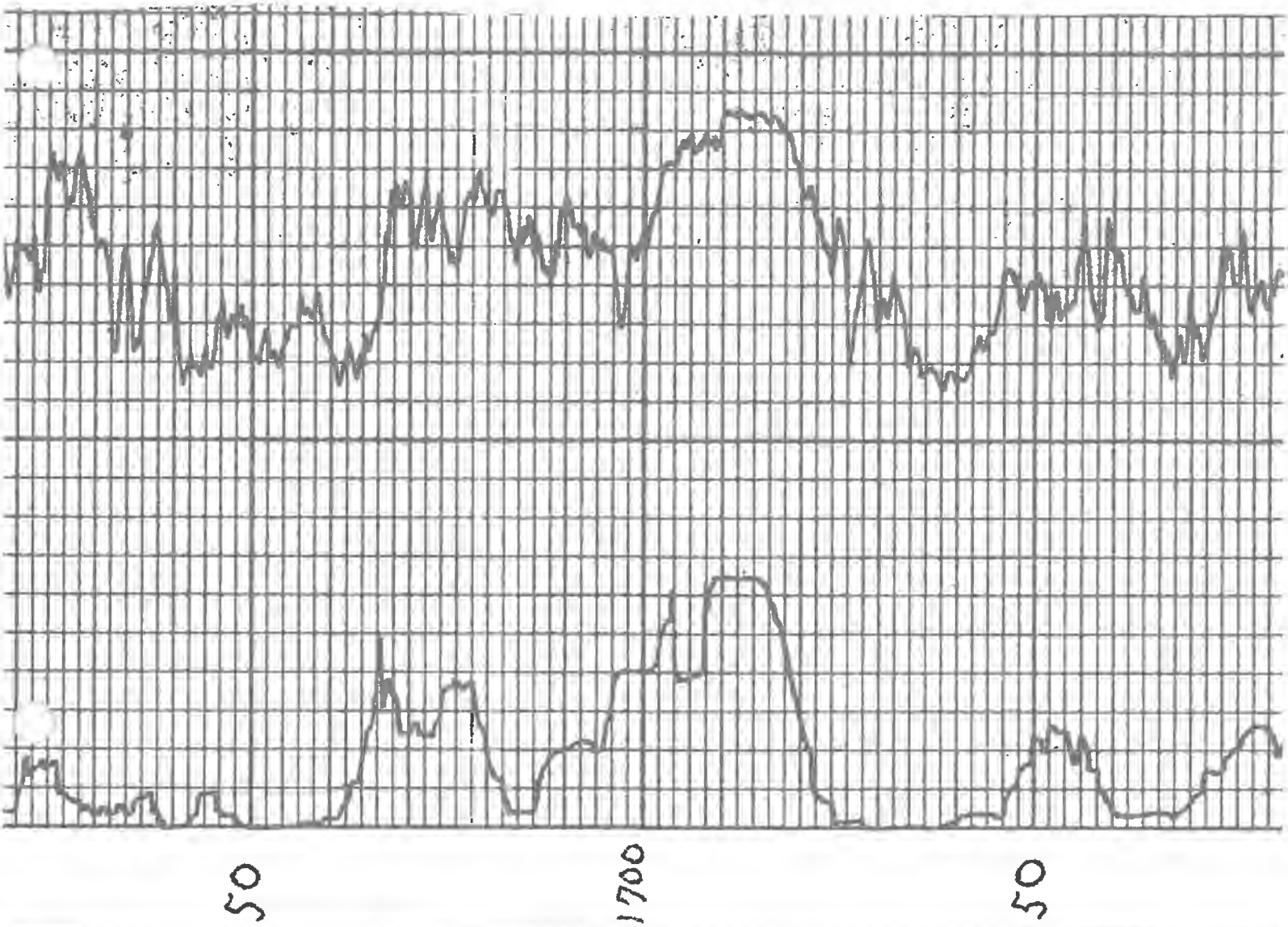
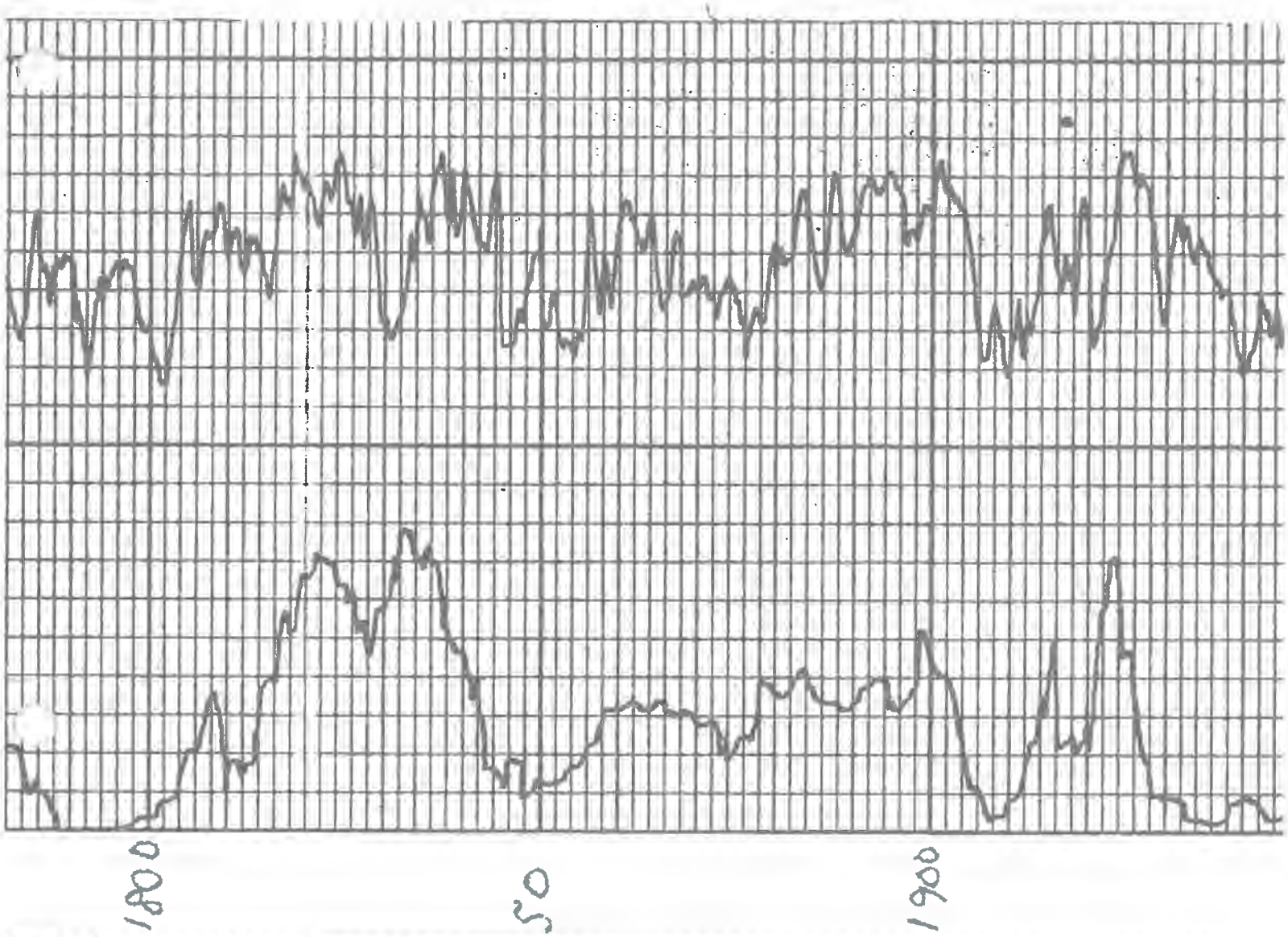
1600


50
1700
50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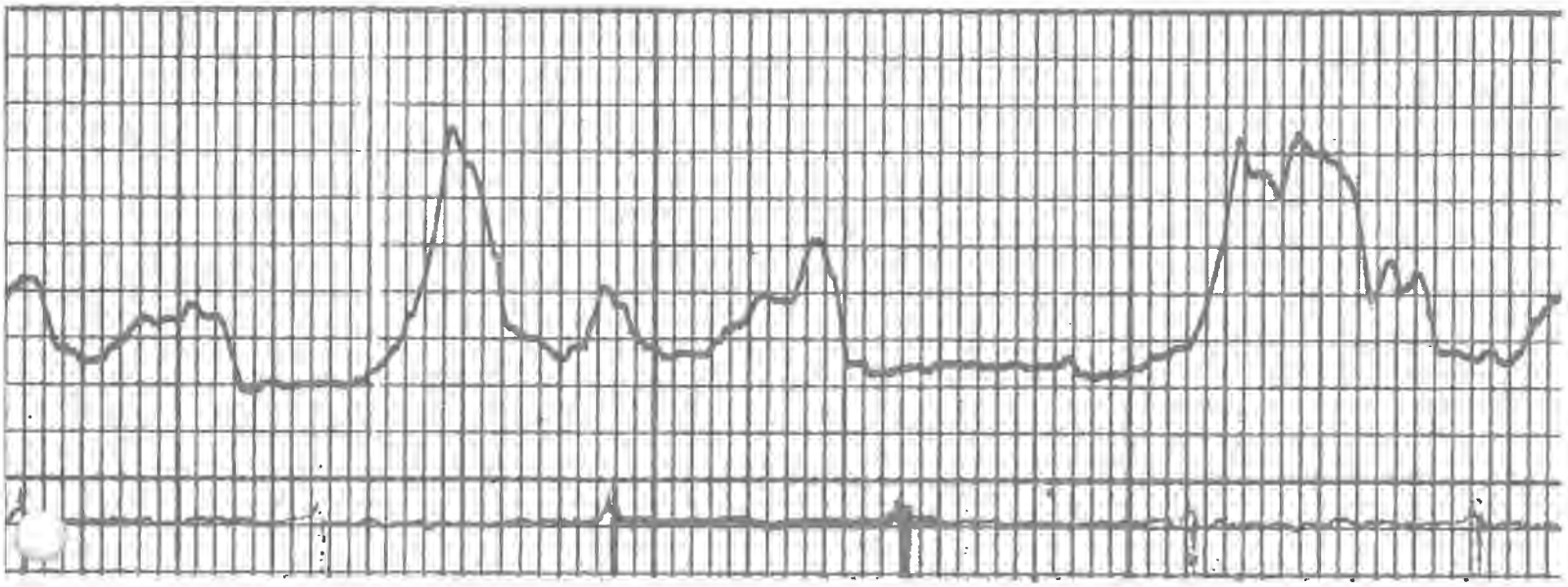

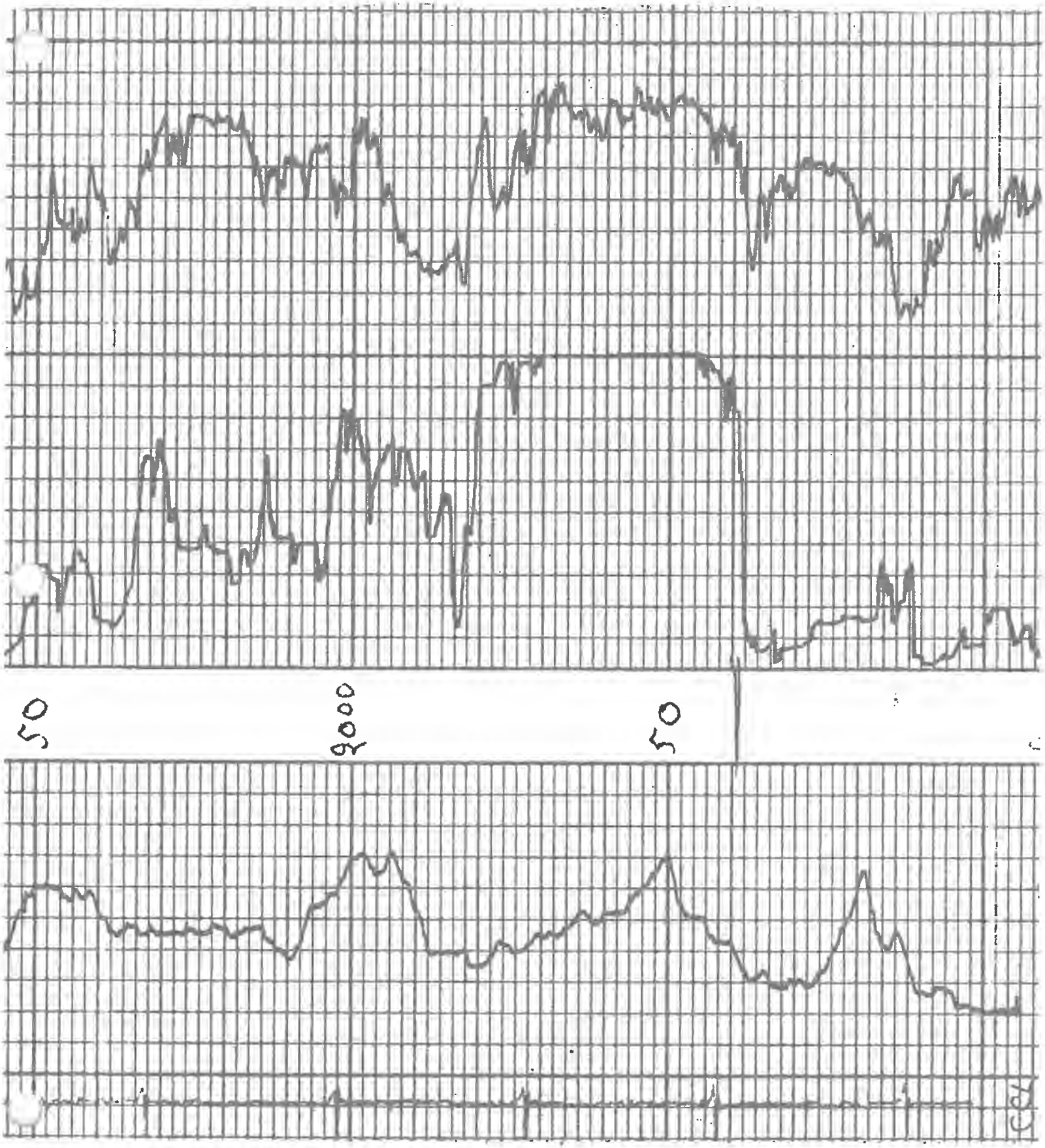
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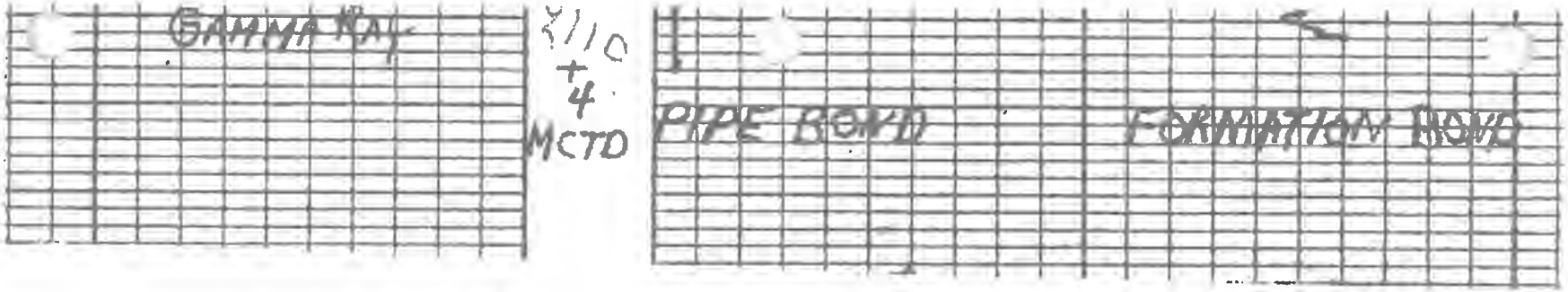

GAMMA RAY
X110
+
4
MCTD
PIPE BOND
FORMATION BOND

2825

"Pipeline"

Select County: (087) Roane

Enter Permit #: 2825

Get Data | Reset

Select datatypes: (Check All)

- Location
- Owner/Completion
- Pay/Show/Water
- Production
- Stratigraphy
- Logs
- Plugging
- Sample
- Btm Hole Loc

Table Descriptions
Common Code Translations
Permit-Number Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 87 Permit = 2825

Report Time: Monday, May 18, 2020 10:06:06 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_TF	QUAD_TR	LAT_DD	LON_DD	UTMN	UTME
4708702825	Roane	2825	Smithfield	Tariff	Otter	38.648051	-81.21261	481498.9	4277743

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_TD	FRM_TRGT_FM	TFM_EST_PR
4708702825	2/28/1911	Original Loc	Completed	P A Tallman	8					Carter Oil			
4708702825	6/5/1913	Worked Over	Completed	P A Tallman	8					Carter Oil			
47087[illegible]	-/-/1936	Worked Over	Completed	P A Tallman	8					Pennzoil C[illegible]			

Completion Information

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT
4708702825	2/28/1911	1/10/1911	1100	Topo Estimation	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	Cable Tool	Shot	2181	2181		0	0	0	0	5			0	0	0
4708702825	6/5/1913	-/-/-	1100	Topo Estimation	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	unknown	Shot	2181		0	0	0	0	0	0			0	0	0
4708702825	-/-/1936	-/-/-	1100	Topo Estimation	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Development Well	Development Well	Gas w/ Oil Show	unknown	Shot	2181		0	3348	4768	0	0				0	0	0

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	Q_BEF	Q_AFT	Q_BEF	Q_AFT	WATER_DRYT
4708702825	6/5/1913	Pay	Oil & Gas	Vertical			0	Big Injun (Price&eq)	0	0			
4708702825	-/-/1936	Pay	Gas	Vertical			0	Big Injun (Price&eq)	3348	4736			
4708702825	2/28/1911	Pay	Oil	Vertical	2156	Big Injun (Price&eq)	0		0	5			
4708702825	2/28/1911	Show	Gas	Vertical			2115	Big Lime	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708702825	Pennzoil Company	1981	1,116	0	0	0	0	0	0	0	0	0	0	0	0
4708702825	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708702825	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708702825	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702825	Pennzoil Products Company	1989	1,162	104	74	134	85	82	115	0	128	167	124	0	149
4708702825	Pennzoil Products Company	1990	1,346	117	73	123	118	54	145	122	105	230	20	116	122
4708702825	Pennzoil Products Company	1991	1,546	112	118	120	116	165	148	167	135	137	124	108	96
4708702825	Pennzoil Products Company	1992	920	66	83	49	53	77	80	102	104	91	83	84	68
4708702825	Pennzoil Products Company	1993	664	61	41	65	54	53	63	59	58	51	65	45	49
4708702825	Pennzoil Products Company	1994	324	38	48	11	30	24	33	33	25	16	18	23	25
4708702825	Pennzoil Products Company	1995	93	18	9	7	7	3	4	3	6	6	9	8	13
4708702825	Pennzoil Products Company	1996	52	4	3	1	4	5	2	3	3	6	4	5	12
4708702825	Pennzoil Products Company	1997	39	0	1	2	2	4	5	1	0	4	8	9	3
4708702825	Pennzoil Products Company	1998	49	6	3	6	5	3	5	4	5	8	4	0	0
4708702825	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708702825	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708702825	Triad Resources, Inc.	2004	88	6	5	8	9	9	11	8	9	11	8	4	0
4708702825	Triad Resources, Inc.	2005	101	9	5	12	2	3	7	8	12	10	12	12	9
4708702825	Triad Resources, Inc.	2006	93	10	7	7	6	8	8	8	8	8	8	8	7
4708702825	Triad Resources, Inc.	2007	62	8	7	7	5	2	2	6	6	6	4	5	4
4708702825	Triad Resources, Inc.	2008	72	5	4	4	4	3	5	4	3	7	8	11	14
4708702825	Triad Resources, Inc.	2009	33	8	3	3	3	5	5	3	0	0	1	1	1
4708702825	Triad Hunter LLC	2010	39	6	2	3	3	3	5	5	4	3	3	2	0
4708702825	Triad Hunter LLC	2011	11	1	1	1	1	0	3	1	1	1	1	0	0
4708702825	Triad Hunter LLC	2012	15	1	1	1	2	2	2	1	2	2	1	0	0
4708702825	Triad Hunter LLC	2013	12	1	1	1	1	1	1	1	1	1	1	1	1
4708702825	Triad Hunter LLC	2014	8	1	1	1	0	1	0	1	0	1	1	1	0
4708702825	Triad Hunter LLC	2015	6	0	0	0	1	3	1	1	0	0	0	0	0
4708702825	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702825	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702825	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708702825	Pennzoil Company	1981	509	0	0	0	0	0	0	0	0	0	0	0	0
4708702825	Pennzoil Company	1982	665	0	0	0	0	0	0	0	0	0	0	0	0
4708702825	Pennzoil Company	1983	630	0	0	0	0	0	0	0	0	0	0	0	0
4708702825	Pennzoil Company	1984	1,029	0	0	0	0	0	0	0	0	0	0	0	0
4708702825	Pennzoil Products Company	1989	4,375	392	323	328	367	398	348	363	364	347	367	405	375
4708702825	Pennzoil Products Company	1990	4,257	373	394	396	346	342	323	406	361	320	352	295	349
4708702825	Pennzoil Products Company	1991	4,513	363	390	461	388	460	366	378	368	363	328	325	323
4708702825	Pennzoil Products Company	1992	3,168	292	287	322	318	327	278	266	244	247	225	211	151
4708702825	Pennzoil Products Company	1993	2,000	222	175	171	176	165	183	181	166	139	143	111	169
4708702825	Pennzoil Products Company	1994	1,120	51	132	129	125	120	95	86	85	87	91	78	61
4708702825	Pennzoil Products Company	1995	686	103	55	44	54	41	36	44	51	42	107	39	50
4708702825	Pennzoil Products Company	1996	520	27	64	81	32	55	36	35	40	42	99	0	9
4708702825	Pennzoil Products Company	1997	442	26	39	57	46	18	0	17	43	45	55	46	48
4708702825	Pennzoil Products Company	1998	294	39	45	37	46	34	36	0	19	0	39	0	0

2825

4708702825	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708702825	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708702825	Triad Resources, Inc.	2004	329	31	31	31	31	30	30	22	28	24	23	21	27
4708702825	Triad Resources, Inc.	2005	136	12	8	9	11	8	14	11	11	12	16	13	10
4708702825	Triad Resources, Inc.	2006	140	8	11	12	14	8	9	12	11	15	11	13	16
4708702825	Triad Resources, Inc.	2007	162	13	16	10	18	13	15	13	14	12	13	12	13
4708702825	Triad Resources, Inc.	2008	166	13	17	9	16	11	8	14	14	19	17	11	17
4708702825	Triad Resources, Inc.	2009	108	4	0	10	15	13	10	9	9	8	12	10	8
4708702825	Triad Hunter LLC	2010	55	11	2	9	2	2	10	2	2	11	2	2	0
4708702825	Triad Hunter LLC	2011	109	8	11	9	8	9	9	9	9	9	10	11	7
4708702825	Triad Hunter LLC	2012	93	5	7	6	5	8	11	4	12	9	9	7	10
4708702825	Triad Hunter LLC	2013	97	9	9	11	7	9	10	5	8	6	6	8	9
4708702825	Triad Hunter LLC	2014	91	7	6	8	8	8	7	6	9	8	7	8	9
4708702825	Triad Hunter LLC	2015	75	8	5	3	8	6	8	6	3	7	5	11	5
4708702825	Triad Hunter LLC	2016	0												
4708702825	Ground Resources, LLC	2017	0												
4708702825	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702825	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702825	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702825	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702825	Triad Hunter LLC	2016	0												
4708702825	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702825	Triad Hunter LLC	2016	0												
4708702825	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708702825	Original Loc	Cow Run (undiff)	Well Record	818	Reasonable	30	Reasonable	1100	Topo Estimation
4708702825	Original Loc	Homewd Sa/Zn Cow Run	Well Record	857	Reasonable	83	Reasonable	1100	Topo Estimation
4708702825	Original Loc	1st Salt Sand	Well Record	1390	Reasonable	70	Reasonable	1100	Topo Estimation
4708702825	Original Loc	2nd Salt Sand	Well Record	1480	Reasonable	20	Reasonable	1100	Topo Estimation
4708702825	Original Loc	3rd Salt Sand	Well Record	1640	Reasonable	345	Reasonable	1100	Topo Estimation
4708702825	Original Loc	Little Lime	Well Record	1990	Reasonable	30	Reasonable	1100	Topo Estimation
4708702825	Original Loc	Pencil Cave	Well Record	2020	Reasonable	30	Reasonable	1100	Topo Estimation
4708702825	Original Loc	Big Lime	Well Record	2050	Reasonable	98	Reasonable	1100	Topo Estimation
4708702825	Original Loc	Big Injun (Price&up)	Well Record	2148	Reasonable	0	Reasonable	1100	Topo Estimation

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH8	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708702825	0	2190		G*	Y	N	0	2190											0	2190	N	Y	N						

Comment: *logs: CCL

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708702825go.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

2825

WELL NO. 8751 NAME Tallman P A LEASE NO. 5918 ACRES 235 N. S. 55 E. W. 35 DISTRICT SPENCER

District or Twp. Smithfield
County Roane
State W. Va.
Commenced 1/10/11
Completed 2/28/11
Contractor Devore & Cody $ 1.15 Per Foot
Purchased From Carter Oil Co.
Date Purchased 1-1-26
Date Connected
Sold To
Date Sold
Date Plugged
Date Abandoned

CASING AND TUBING

Size	Put in Well	Left in Well	Pulled
13 in. Casing			
10 in. Casing	370		370
8¼ in. Casing	885		885
6¾ in. Casing	2054	2054	
6¼ in. Casing			
5¼ in. Casing			
4½ in. Casing			
3 in. Tubing	2171	2171	2171
2 in. Tubing	2184		
in. Tubing			

SHOOTING

Date	Qts.	Sand	Depth	Test Before	Test After
[illegible]	50				
[illegible]	[illegible]				
[illegible]	60	[illegible]		[illegible]	[illegible]

Initial Oil Production 5.0 bbls.

[illegible] Flow

RECORD

Elevation at Mouth of Well

Formation	Top	Bottom	Thickness	Oil at	Gas at	Water at	Thickness of Pay
Pittsburgh Coal							
Red Rock Cave	480	590	110				
Cow Run (First)	818	848	30				
Cow Run (Second)	857	940	83				
Salt Sand (Upper)	1390	1460	70				
Salt Sand (Middle)	1480	1500	20				
Salt Sand (Lower)	1640	1985	345			1760 1780	
Maxon							
Little Lime	1990	2020	30				
Pencil Cave	2020	2050	30				
Big Lime	2050	2148	98		2115	65	
Keener Sand							
Injun Sand	2148	2181	33	2158			23
Squaw Sand							
Weir Sand							
Berea Sand							
Gantz Sand							
Fifty Foot Sand							
Thirty Foot Sand							
Gordon Stray							
Gordon Sand							
Fourth Sand							
Fifth Sand							
Corniferous Lime							
Niagara Lime							
Cave							
Clinton							
Medina Shale							
Trenton							
Total Depth	2181						

Remarks

PACKERS

Size	Make	Set at

"Pipeline"

Select County: (087) Roane

Select datatypes: (Check All)

Enter Permit #: 2826

Get Data | Reset

☑ Location ☑ Production ☑ Plugging
☑ Owner/Completion ☑ Stratigraphy ☑ Sample
☑ Pay/Show/Water ☑ Logs ☑ Btm Hole Loc

Table Descri tio
Coun Code Translations
Permit-Numberi Se e
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 2826

Report Time: Monday, May 18, 2020 10:11:02 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708702826	Roane	2826	Smithfield	Tariff	Otter	38.653707	-81.207194	451971.6	4278369.6

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	TYP	ACC	OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETIO	PROP_VD	PROP_TRGT_FM	TTM_EST_PR
4 08702 6	-/-	Orig c	Co d	P A	Tariff		9					Pennzoil			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	PBTD	EST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	BH_F_BEF	BH_
4708	-/-/-	-/-/-			Tariff(Town)				unclassified				unkn			0			0	0	0			0	0	0	0		

There is no Pay data for this well

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708702826	Pennzoil Company	1981	1,118	0	0	0	0	0	0	0	0	0	0	0	0
4708702826	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708702826	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708702826	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702826	Pennzoil Products Company	1989	205	29	15	21	13	12	17	0	8	8	17	0	65
4708702826	Pennzoil Products Company	1990	61	7	5	9	7	4	0	0	0	17	2	5	5
4708702826	Pennzoil Products Company	1991	104	5	9	9	6	10	10	11	9	10	9	8	8
4708702826	Pennzoil Products Company	1992	128	7	5	5	12	17	19	18	10	9	9	9	8
4708702826	Pennzoil Products Company	1993	63	6	6	6	8	4	9	10	5	8	1	0	0
4708702826	Pennzoil Products Company	1994	61	0	26	15	0	1	3	3	3	0	10	0	0
4708702826	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702826	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702826	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708702826	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708702826	Triad Resources, Inc.	2004	88	6	5	8	9	9	11	8	9	11	8	4	0
4708702826	Triad Resources, Inc.	2005	101	9	5	12	2	3	7	8	12	10	12	12	9
4708702826	Triad Resources, Inc.	2006	93	10	7	7	6	8	8	8	8	8	8	8	7
4708702826	Triad Resources, Inc.	2007	62	8	7	7	5	2	2	6	6	6	4	5	4
4708702826	Triad Resources, Inc.	2008	72	5	4	4	4	3	5	4	3	7	8	11	14
4708702826	Triad Resources, Inc.	2009	33	8	3	3	3	5	5	3	0	0	1	1	1
4708702826	Triad Hunter LLC	2010	32	8	3	3	3	5	5	3	0	0	1	1	0
4708702826	Triad Hunter LLC	2011	11	1	1	1	1	0	3	1	1	1	1	0	0
4708702826	Triad Hunter LLC	2012	15	1	1	1	2	2	2	1	2	2	1	0	0
4708702826	Triad Hunter LLC	2013	12	1	1	1	1	1	1	1	1	1	1	1	1
4708702826	Triad Hunter LLC	2014	8	1	1	1	0	1	0	1	0	1	1	1	0
4708702826	Triad Hunter LLC	2015	6	0	0	0	1	3	1	1	0	0	0	0	0
4708702826	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702826	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702826	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708702826	Pennzoil Company	1981	509	0	0	0	0	0	0	0	0	0	0	0	0
4708702826	Pennzoil Company	1982	685	0	0	0	0	0	0	0	0	0	0	0	0
4708702826	Pennzoil Company	1983	630	0	0	0	0	0	0	0	0	0	0	0	0
4708702826	Pennzoil Company	1984	1,029	0	0	0	0	0	0	0	0	0	0	0	0
4708702826	Pennzoil Products Company	1989	586	62	57	46	53	26	23	17	51	152	49	25	25
4708702826	Pennzoil Products Company	1990	198	27	24	26	0	0	0	29	27	13	13	12	27
4708702826	Pennzoil Products Company	1991	315	26	23	28	26	30	24	26	28	28	27	25	24
4708702826	Pennzoil Products Company	1992	468	25	65	73	77	55	27	25	26	26	26	21	22
4708702826	Pennzoil Products Company	1993	251	21	25	13	26	28	14	30	2	0	0	0	92
4708702826	Pennzoil Products Company	1994	162	73	0	7	10	10	13	0	49	0	0	0	0
4708702826	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702826	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702826	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708702826	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708702826	Triad Resources, Inc.	2004	329	31	31	31	31	30	30	22	28	24	23	21	27
4708702826	Triad Resources, Inc.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702826	Triad Resources, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702826	Triad Resources, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702826	Triad Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702826	Triad Resources, Inc.	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702826	Triad Hunter LLC	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702826	Triad Hunter LLC	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702826	Triad Hunter LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702826	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702826	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0

2826

4708702826	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702826	Triad Hunter LLC	2016	0												
4708702826	Ground Resources, LLC	2017	0												
4708702[illegible]	[illegible]nd R[illegible]ces LLC	[illegible]18	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some o[illegible] have [illegible] NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	[illegible]ODUC[illegible]	[illegible]_YEA[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]N	JUL	AUG	SEP	OCT	NOV	DCM
4708702826	Triad Hunter LLC	2013	0	0	[illegible]	[illegible]	0	0	0	0	0	0	0	0	0
4708702826	Triad Hunter LLC	2014	0	0	[illegible]	[illegible]	0	0	0	0	0	0	0	0	0
4708702826	Triad Hunter LLC	2015	0	0	[illegible]	[illegible]	0	0	0	0	0	0	0	0	0
4708702826	Triad Hunter LLC	2016	0												
4708702826	Ground Resources LLC	2018	0	0	[illegible]	[illegible]	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * [illegible] H6A wells onl[illegible]. Other wells are incom[illegible]lete at this time.

API	[illegible]	[illegible]_YEAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4708702826	Triad Hunter LLC	2016	0												
4708702826	Ground R[illegible] LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

There is no Stratigraphy data for this well

There is no Wireline (E-Log) data for this well

There is no Plugging data for this well

There is no Sample data for this well

2826

2826

WR-35

RECEIVED
MAY 13 1987
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date May 12, 1987
Operator's
Well No. 9
Farm P. A. Tallman
API No. 47 - 087 - 2826W

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil X / Gas / Liquid Injection / Waste Disposal /
(If "Gas," Production / Underground Storage / Deep / Shallow /)

LOCATION: Elevation: 1031.96 Watershed Sycamore Fork
District: Smithfield County Roane Quadrangle Tariff 7.5'

COMPANY Pennzoil Company
ADDRESS PO Box 1588, Parkersburg, WV 26102
DESIGNATED AGENT J. A. Crews
ADDRESS PO Box 1588, Parkersburg, WV 26102
SURFACE OWNER Doyle Jones
ADDRESS
MINERAL RIGHTS OWNER Florence S. Tallman
ADDRESS Fairfax, WV
OIL AND GAS INSPECTOR FOR THIS WORK Homer Dougherty ADDRESS Looneyville, WV 25259
PERMIT ISSUED 4-15-81
DRILLING COMMENCED
W.O.
DRXXXXXX COMPLETED 4-17-81
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8			
7			
5 1/2			
4 1/2	2030'	2030'	on packer
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Big Injun Depth 2070 feet
Depth of completed well _____ feet Rotary / Cable Tools _____
Water strata depth: Fresh _____ feet; Salt _____ feet
Coal seam depths: _____ Is coal being mined in the area? ____

OPEN FLOW DATA
Producing formation Big Injun Pay zone depth 2040-2070 feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure _____ psig (surface measurement) after _____ hours shut in
(If applicable due to multiple completion--)
Second producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure _____ psig (surface measurement) after _____ hours shut in

ROANE 2826 W

(Continue on reverse side)

2826

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) Hank Pence

Address _____

GEOLOGICAL TARGET FORMATION, Big Injun

Estimated depth of completed well, 2070' feet Rotary ____/ Cable tools X /

Approximate water strata depths: Fresh, ____ feet; salt, ____ feet.

Approximate coal seam depths: _____ Is coal being mined in the area? Yes ____/ No ____/

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS Size	Grade	Weight per ft	New	Used	FOOTAGE INTERVALS For drilling	Left in well	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
Conductor									Kinds
Fresh water	7"	H40	20				1938'		che
Coal									Sizes
Intermediate									
Production	4 1/2	J55	9.5			2040'	2040'	~~tension pkr~~	Depths set
Tubing								cement	
Liners								thru salt	Perforations:
								sand	Top Bottom

NOTE: *Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-8, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 22, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-4a from the owner of any water well or dwelling within 250 feet of the proposed well.*

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for reconditioning. This permit shall expire if operations have not commenced by 12-15-81

Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code § 22-4-12, if the permit is to be issued within fifteen (15) days of receipt thereof:

WAIVER

The undersigned coal operator ____/ owner ____/ lessee ____/ of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date _____, 19____

_____

By _____

Its _____

2826

Lease No. | Acres 2350 | Farm Name P. A. Tallmon | Well No. 9

N. S. 54 E. W. 34

Civil District Smithfield
County Roane
State W. Va.
Oil & Gas Rights Owned By

Location Made
Rig Completed
Dr'g Commenced 2-13-11
Dr'g Completed 3-21-11
Dr'g Contractor Cody & Miller

Purchased From H.C.&R.
Date Purchased 3-1-43
Sold To
Date Sold
Date Abandoned

FORMATION

Kind	Top	Bottom	Steel Line Meas.	Tests
Red Rock Cave	335	465		
Cow Run 1st.	638	655		
Cow Run 2nd.	686	820		
Pitts. Coal	965	968		
1st. Salt	1350	1415		
2nd. Salt	1475	1500		
3rd. Salt	1525	1813		
Inter	1575			
Maxon	1835	1863		
Little Lime	1870	1904		
Pencil Cave	1904	1934		
Big Lime	1934	2040		
Gas	1950			
Big Injun	2040	2070		
Oil	2043	2065		
Total Depth		2070		

CASING RECORD

Size	Bottom Casing Steel Line	Put in Well Tally Meas.	Pulled Tally Meas.	Cemented
10"		270	270	Date
8-1/4"		748	748	Size Cag.
6-5/8"		1938		Top "
2"Tbg.		2060		Bot. "

PACKERS AND SHOES

Kind	Size	Depth Set	Date Set

TORPEDO RECORD

Date	No. Qts.	Size Shell	Top Shot	Bottom	Result
Mar. '11	20				
7-8-12	40				
4-7-37	60	4½"	2045	2065	
6-10-53	60	3½"x30'	2040	2070	Com.

DRILLING DEEPER

Commenced	Completed	Original Depth	Final Depth	Contractor

ABANDONMENT RECORD

Filled With	From	To	Plug Size	Plug Kind	Plug Dep

Roa-2826

Initial Prod.	Sand	★ At Completion	★ 30 Days After	★
Oil	Injun	10-Bbl.		
Gas				

APPROVED

Well Operator

By: Curtis A. Lucas

Date: May 12, 1987

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

9057

2827

"Pipeline"

Select County: (087) Roane

Enter Permit #: 2827

Get Data | Reset

Select datatypes: (Check All)

- Location
- Owner/Completion
- Pay/Show/Water
- Production
- Stratigraphy
- Logs
- Plugging
- Sample
- Btm Hole Loc

Table Descriptions
County Code Translations
Usage Notes
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 2827

Report Time: Monday, May 18, 2020 10:18:14 PM

Location Information: View Map

API	County	Permit	T/A District	Quad_7.5	Quad_15	LAT_DD	LON_DD	UTMX	UTMY
4708702827	Roane	2827	Smithfield	Tariff	Otter	38.657188	-81.204606	482197.6	4278755.3

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_A	COMPLETION	PROF_TD	PROP_TRG	_FM	TVD	EST_PR
4708702827	7/21/1911	Original Loc	Completed	P A Tallman	10					Carter Oil						
4708702827	7/28/1913	Worked Over	Completed	P A Tallman	10					Carter Oil						
4708702827	-/-/1932	Worked Over	Completed	P A Tallman	10					South Penn Oil (S. Penn Nat. Gas)						
4708702827	6/23/1942	Worked Over	Completed	P A Tallman	0					Pennzoil Co						

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	TOOL	CMP_MTHD	TVD	TMD	NEW_FTG	KOP	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT
4708702827	7/21/1911	6/1/1911	895	Topo Estimation	Tariff(Timn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil	Cable Tool	Shot	1949		1949		0	0	0	15			0	0	0	0
4708702827	7/28/1913	-/-/-	895	Topo Estimation	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Development Well	Development Well	Oil	unknown	Shot	1949		0		0	0	0	0			0	0	0	0
4708702827	-/-/1932	-/-/-	895	Topo Estimation	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Development Well	Development Well	Oil	unknown	Shot	1949		0		0	0	38	20			0	0	0	0
4708702827	6/23/1942	-/-/-	895	Topo Estimation	Tariff(Timn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Devel[illegible]	Development Well	Oil	unknown	Shot	1949		0		0	0	7	10			0	0	0	0

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	O_BEF	O_AFT	G_BEF	G_AFT	WATER_QNTY
4708702827	7/21/1911	Pay	Oil	Vertical	1920	Big Injun (Price&eq)	0				0	15	
4708702827	7/28/1913	Pay	Oil	Vertical			0	Big Injun (Price&eq)			0	0	
4708702827	-/-/1932	Pay	Oil	Vertical			0	Big Injun (Price&eq)			38	20	
4708702827	6/23/1942	Pay	Oil	Vertical	1920	Big Injun (Price&eq)	1940	Big Injun (Price&eq)			7	10	

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATION	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708702827	Pennzoil Company	1981	1,118	0	0	0	0	0	0	0	0	0	0	0	0
4708702827	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708702827	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708702827	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702827	Pennzoil Products Company	1989	49	5	6	7	5	3	6	0	2	2	5	0	8
4708702827	Pennzoil Products Company	1990	63	5	5	9	6	4	8	5	1	6	1	7	6
4708702827	Pennzoil Products Company	1991	81	5	3	2	4	8	8	11	10	8	8	6	8
4708702827	Pennzoil Products Company	1992	82	7	5	5	6	5	7	8	10	4	6	11	8
4708702827	Pennzoil Products Company	1993	80	9	7	8	3	6	5	3	5	11	15	2	6
4708702827	Pennzoil Products Company	1994	52	6	8	6	3	1	5	4	3	2	3	10	1
4708702827	Pennzoil Products Company	1995	9	4	1	3	1	0	0	0	0	0	0	0	0
4708702827	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702827	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708702827	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708702827	Triad Resources, Inc.	2004	88	6	5	8	9	9	11	8	9	11	8	4	0
4708702827	Triad Resources, Inc.	2005	101	9	5	12	2	3	7	8	12	10	12	12	9
4708702827	Triad Resources, Inc.	2006	93	10	7	7	6	8	8	8	8	8	8	8	7
4708702827	Triad Resources, Inc.	2007	62	8	7	7	5	2	2	6	6	6	4	5	4
4708702827	Triad Resources, Inc.	2008	71	5	4	4	4	3	5	3	3	7	8	11	14
4708702827	Triad Resources, Inc.	2009	33	8	3	3	3	5	5	3	0	0	1	1	1
4708702827	Triad Hunter LLC	2010	39	6	2	3	3	3	5	5	4	3	3	2	0
4708702827	Triad Hunter LLC	2011	11	1	1	1	1	0	3	1	1	1	1	0	0
4708702827	Triad Hunter LLC	2012	15	1	1	1	2	2	2	1	2	2	1	0	0
4708702827	Triad Hunter LLC	2013	12	1	1	1	1	1	1	1	1	1	1	1	1
4708702827	Triad Hunter LLC	2014	8	1	1	1	0	1	0	1	0	1	1	1	0
4708702827	Triad Hunter LLC	2015	6	0	0	0	1	3	1	1	0	0	0	0	0
4708702827	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702827	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702827	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATION	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708702827	Pennzoil Company	1981	509	0	0	0	0	0	0	0	0	0	0	0	0
4708702827	Pennzoil Company	1982	685	0	0	0	0	0	0	0	0	0	0	0	0
4708702827	Pennzoil Company	1983	630	0	0	0	0	0	0	0	0	0	0	0	0
4708702827	Pennzoil Company	1984	1,029	0	0	0	0	0	0	0	0	0	0	0	0
4708702827	Pennzoil Products Company	1989	195	21	13	12	16	23	5	5	16	19	22	16	25
4708702827	Pennzoil Products Company	1990	194	26	20	26	19	15	3	10	13	22	16	13	9
4708702827	Pennzoil Products Company	1991	261	7	11	23	19	30	26	22	26	20	27	26	24
4708702827	Pennzoil Products Company	1992	307	32	30	25	25	27	26	10	19	31	26	31	25
4708702827	Pennzoil Products Company	1993	241	26	10	16	14	9	16	40	37	6	16	19	29
4708702827	Pennzoil Products Company	1994	171	27	13	3	17	15	13	12	14	29	4	16	9
4708702827	Pennzoil Products Company	1995	51	39	7	0	0	5	0	0	0	0	0	0	0
4708702827	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702827	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708702827	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	26	28	30	38	50	45

2827

4708702827	Triad Resources, Inc.	2004	329	31	31	31	31	30	30	22	28	24	23	21	27
4708702827	Triad Resources, Inc.	2005	136	12	8	9	11	9	14	11	11	12	16	13	10
4708702827	Triad Resources, Inc.	2006	140	8	11	12	14	8	9	12	11	15	11	13	16
4708702827	Triad Resources, Inc.	2007	162	13	16	10	18	13	15	13	14	12	13	12	13
4708702827	Triad Resources, Inc.	2008	166	13	17	9	16	11	8	14	14	19	17	11	17
4708702827	Triad Resources, Inc.	2009	108	4	0	10	15	13	10	9	9	8	12	10	8
4708702827	Triad Hunter LLC	2010	55	11	2	9	2	2	10	2	2	11	2	2	0
4708702827	Triad Hunter LLC	2011	109	8	11	9	8	9	9	9	9	9	10	11	7
4708702827	Triad Hunter LLC	2012	93	5	7	6	5	8	11	4	12	9	9	7	10
4708702827	Triad Hunter LLC	2013	97	9	9	11	7	9	10	5	8	6	6	8	9
4708702827	Triad Hunter LLC	2014	91	7	6	8	8	8	7	6	9	8	7	8	9
4708702827	Triad Hunter LLC	2015	75	8	5	3	8	6	8	6	3	7	5	11	5
4708702827	Triad Hunter LLC	2016	0												
4708702827	Ground Resources, LLC	2017	0												
4708702827	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCER_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702827	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702827	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702827	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702827	Triad Hunter LLC	2016	0												
4708702827	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCER_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702827	Triad Hunter LLC	2016	0												
4708702827	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708702827	Original Loc	Cow Run (undiff)	Well Record	520	Reasonable	25	Reasonable	895	Topo Estimation
4708702827	Original Loc	Homewd Se/2n Cow Run	Well Record	575	Reasonable	169	Reasonable	895	Topo Estimation
4708702827	Original Loc	1st Salt Sand	Well Record	1220	Reasonable	115	Reasonable	895	Topo Estimation
4708702827	Original Loc	2nd Salt Sand	Well Record	1390	Reasonable	10	Reasonable	895	Topo Estimation
4708702827	Original Loc	3rd Salt Sand	Well Record	1468	Reasonable	242	Reasonable	895	Topo Estimation
4708702827	Original Loc	Maxton	Well Record	1718	Reasonable	20	Reasonable	895	Topo Estimation
4708702827	Original Loc	Little Lime	Well Record	1740	Reasonable	42	Reasonable	895	Topo Estimation
4708702827	Original Loc	Pencil Cave	Well Record	1782	Reasonable	16	Reasonable	895	Topo Estimation
4708702827	Original Loc	Big Lime	Well Record	1800	Reasonable	118	Reasonable	895	Topo Estimation
4708702827	Original Loc	Big Injun (Price&eq)	Well Record	1918	Reasonable	29	Reasonable	895	Topo Estimation
4708702827	Original Loc	Undif PRICE btw INJN	Well Record	1947	Reasonable	0	Reasonable	895	Topo Estimation

There is no Wireline (E-Log) data for this well

There is no Plugging data for this well

There is no Sample data for this well

WELL NO. 1756 NAME Tallman P. A. LEASE NO. 5911 ACRES 2350 N. S. 51 E. W. 34 DISTRICT SPENCER

District or Town Smithfield
County Roane
State W. Va.
Commenced 6/1/11
Completed 7/21/11
Contractor Cody & Miller $1.15 Per Foot
Purchased From Carter Oil Co.
Date Purchased 1-1-26
Date Connected
Sold To
Date Sold
Date Plugged
Date Abandoned

CASING AND TUBING

Size	Put in Well	Left in Well	Pulled
15 in. Casing			
10 in. Casing	130		130
8¼ in. Casing	660		660
6⅝ in. Casing	1812	1813	
6¼ in. Casing			
5⅛ in. Casing			
4⅝ in. Casing			
2 in. Tubing	1939	1939	1939
2 in. Tubing	1939		1939
2 in. Tubing	1932	1932	

SHOOTING

Date	Qts.	Sand	Depth	Test Before	Test After
7-11-11	20				
7-28-13	40				
10-3-34	60	Injun	1920	38 bbl mixed	20.00 bbl [illegible]
6-23-42	100	"	1940	6.11 bbl [illegible]	10.20 bbl [illegible]

Initial Oil Production 15 bbls.

Initial Open Flow

RECORD

Elevation at Mouth of Well

Formation	Top	Bottom	Thickness	Oil at	Gas at	Water at	Thickness of Pay
Pittsburgh Coal						fresh 40	
Red Rock Cave	170	285	115				
Cow Run (First)	520	545	25				
Cow Run (Second)	575	744	169				
Salt Sand (Upper)	1220	1335	115				
Salt Sand (Middle)	1390	1400	10				
Salt Sand (Lower)	1468	1710	242			salt 1510	
Maxon	1718	1738	20				
Little Lime	1740	1782	40				
Pencil Cave	1782	1792	10				
Big Lime	1800	1918	118				
Keener Sand							
Injun Sand	1918	1947	29	1920			20
Squaw Sand							
Weir Sand							
Berea Sand							
Gantz Sand							
Fifty Foot Sand							
Thirty Foot Sand							
Gordon Stray							
Gordon Sand							
Fourth Sand							
Fifth Sand							
Corniferous Lime							
Niagara Lime							
Cave							
Clinton							
Medina Shale							
Trenton							
Total Depth	1949						

Remarks

PACKERS

Size	Make	Set at
2 & 8	M.B.	1919

1787

DEP DATA 2828

"Pipeline"

Select County: (087) Roane

Enter Permit #: 2828

Get Data | Reset

Select datatypes: (Check All)

- Location
- Owner/Completion
- Pay/Show/Water
- Production
- Stratigraphy
- Logs
- Plugging
- Sample
- Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

Geological & Economic Survey:

Well: County = 087 Permit = 2828

Report Time: Wednesday, May 02, 2018 9:48:28 AM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708702828	Roane	2828	Smithfield	Tariff	Otter	38.651967	-81.207748	481923	4278176.6

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708702828	6/19/1911	Original Loc	Completed	P A Tallman	13					Carter Oil			
4708702828	1/9/1934	Worked Over	Completed	P A Tallman	13					Pennzoil Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	G_BEF	G_AFT	O_BEF	O
4708702828	6/19/1911	3/-/1911	950	Topo Estimation	Tariff(Tlmn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	Cable Tool	Shot	1994		1994	0	0	0	
4708702828	1/9/1934	-/-/-	950	Topo Estimation	Tariff(Tlmn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Gas	unknown	Shot	1994		0	2594	3668	0	

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708702828	1/9/1934	Pay	Gas	Vertical			0	Big Injun (Price&eq)	2594	3668			
4708702828	6/19/1911	Show	Gas	Vertical			1847	Big Lime	0	0			
4708702828	6/19/1911	Pay	Oil	Vertical			1963	Big Injun (Price&eq)	0	25			

Production Gas Information: (Volumes in Mcf)

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702828	Pennzoil Company	1981	1,118	0	0	0	0	0	0	0	0	0	0	0	0
4708702828	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708702828	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708702828	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702828	Pennzoil Products Company	1989	594	47	42	74	47	31	43	70	51	62	38	39	50
4708702828	Pennzoil Products Company	1990	365	30	23	42	35	17	38	33	40	47	7	26	27
4708702828	Pennzoil Products Company	1991	300	26	29	31	14	18	19	26	25	34	31	23	24
4708702828	Pennzoil Products Company	1992	199	23	14	13	13	15	15	22	26	12	15	17	14
4708702828	Pennzoil Products Company	1993	173	13	15	16	12	14	12	20	12	14	22	12	11
4708702828	Pennzoil Products Company	1994	117	18	15	10	11	8	9	8	6	7	8	8	9
4708702828	Pennzoil Products Company	1995	43	7	5	3	3	2	3	2	2	2	3	3	8
4708702828	Pennzoil Products Company	1996	34	3	3	3	2	2	2	2	3	4	4	3	3
4708702828	Pennzoil Products Company	1997	6	0	2	2	0	1	1	0	0	0	0	0	0
4708702828	Pennzoil Products Company	1998	8	0	0	1	1	1	1	1	1	1	1	0	0
4708702828	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708702828	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708702828	Triad Resources, Inc.	2004	88	6	5	8	9	9	11	8	9	11	8	4	0
4708702828	Triad Resources, Inc.	2005	101	9	5	12	2	3	7	8	12	10	12	12	9
4708702828	Triad Resources, Inc.	2006	93	10	7	7	6	8	8	8	8	8	8	8	7
4708702828	Triad Resources, Inc.	2007	62	8	7	7	5	2	2	6	6	6	4	5	4
4708702828	Triad Resources, Inc.	2008	72	5	4	4	4	3	5	4	3	7	8	11	14
4708702828	Triad Resources, Inc.	2009	33	8	3	3	3	5	5	3	0	0	1	1	1
4708702828	Triad Hunter LLC	2010	39	6	2	3	3	3	5	5	4	3	3	2	0
4708702828	Triad Hunter LLC	2011	11	1	1	1	1	0	3	1	1	1	1	0	0
4708702828	Triad Hunter LLC	2012	15	1	1	1	2	2	2	1	2	2	1	0	0
4708702828	Triad Hunter LLC	2013	12	1	1	1	1	1	1	1	1	1	1	1	1
4708702828	Triad Hunter LLC	2014	8	1	1	1	0	1	0	1	0	1	1	1	0
4708702828	Triad Hunter LLC	2015	6	0	0	0	1	3	1	1	0	0	0	0	0
4708702828	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702828	Pennzoil Company	1981	509	0	0	0	0	0	0	0	0	0	0	0	0
4708702828	Pennzoil Company	1982	665	0	0	0	0	0	0	0	0	0	0	0	0
4708702828	Pennzoil Company	1983	629	0	0	0	0	0	0	0	0	0	0	0	0
4708702828	Pennzoil Company	1984	1,029	0	0	0	0	0	0	0	0	0	0	0	0
4708702828	Pennzoil Products Company	1989	1,613	216	135	125	137	147	137	136	113	116	131	103	117
4708702828	Pennzoil Products Company	1990	1,175	126	116	122	90	93	122	83	118	70	78	71	86
4708702828	Pennzoil Products Company	1991	877	93	45	51	49	72	67	95	92	78	82	81	72
4708702828	Pennzoil Products Company	1992	683	75	70	63	60	70	70	35	45	51	45	44	55
4708702828	Pennzoil Products Company	1993	543	55	39	44	32	57	39	49	57	37	31	52	51
4708702828	Pennzoil Products Company	1994	420	46	47	44	33	30	25	39	38	23	32	30	33
4708702828	Pennzoil Products Company	1995	380	38	24	34	33	37	15	14	15	17	65	34	54
4708702828	Pennzoil Products Company	1996	345	51	37	30	29	31	31	23	34	23	27	0	29
4708702828	Pennzoil Products Company	1997	38	22	0	8	6	2	0	0	0	0	0	0	0
4708702828	Pennzoil Products Company	1998	61	5	7	7	6	5	5	6	7	6	7	0	0
4708702828	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708702828	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708702828	Triad Resources, Inc.	2004	329	31	31	31	31	30	30	22	28	24	23	21	27
4708702828	Triad Resources, Inc.	2005	136	12	8	9	11	9	14	11	11	12	16	13	10
4708702828	Triad Resources, Inc.	2006	140	8	11	12	14	8	9	12	11	15	11	13	16
4708702828	Triad Resources, Inc.	2007	162	13	16	10	18	13	15	13	14	12	13	12	13
4708702828	Triad Resources, Inc.	2008	166	13	17	9	16	11	8	14	14	19	17	11	17
4708702828	Triad Resources, Inc.	2009	108	4	0	10	15	13	10	9	9	8	12	10	8
4708702828	Triad Hunter LLC	2010	55	11	2	9	2	2	10	2	2	11	2	2	0
4708702828	Triad Hunter LLC	2011	109	8	11	9	8	9	9	9	9	9	10	11	7
4708702828	Triad Hunter LLC	2012	93	5	7	6	5	8	11	4	12	9	9	7	10
4708702828	Triad Hunter LLC	2013	97	9	9	11	7	9	10	5	8	6	6	8	9
4708702828	Triad Hunter LLC	2014	91	7	6	8	8	8	7	6	9	8	7	8	9
4708702828	Triad Hunter LLC	2015	75	8	5	3	8	6	8	6	3	7	5	11	5
4708702828	Triad Hunter LLC	2016	0												

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702828	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702828	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702828	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702828	Triad Hunter LLC	2016	0												

Production Water Information: (Volumes in Gallons)

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702828	Triad Hunter LLC	2016	0												

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708702828	Original Loc	Cow Run (undiff)	Well Record	560	Reasonable	100	Reasonable	950	Topo Estimation
4708702828	Original Loc	Homewd Ss/2n Cow Run	Well Record	664	Reasonable	96	Reasonable	950	Topo Estimation
4708702828	Original Loc	1st Salt Sand	Well Record	1280	Reasonable	70	Reasonable	950	Topo Estimation
4708702828	Original Loc	2nd Salt Sand	Well Record	1310	Reasonable	80	Reasonable	950	Topo Estimation
4708702828	Original Loc	3rd Salt Sand	Well Record	1455	Reasonable	265	Reasonable	950	Topo Estimation
4708702828	Original Loc	Maxton	Well Record	1730	Reasonable	52	Reasonable	950	Topo Estimation
4708702828	Original Loc	Little Lime	Well Record	1786	Reasonable	32	Reasonable	950	Topo Estimation
4708702828	Original Loc	Pencil Cave	Well Record	1818	Reasonable	22	Reasonable	950	Topo Estimation
4708702828	Original Loc	Big Lime	Well Record	1840	Reasonable	112	Reasonable	950	Topo Estimation
4708702828	Original Loc	Big Injun (Price&eq)	Well Record	1952	Reasonable	29	Reasonable	950	Topo Estimation
4708702828	Original Loc	Undf PRICE blw INJN	Well Record	1981	Reasonable	0	Reasonable	950	Topo Estimation

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	L
4708702828	0	2000		G *	Y	N	4	2000											0	1992	N	Y	N		

Comment: *logs: CCL

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save

option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708702828go.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron–SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

2828

There is no Plugging data for this well

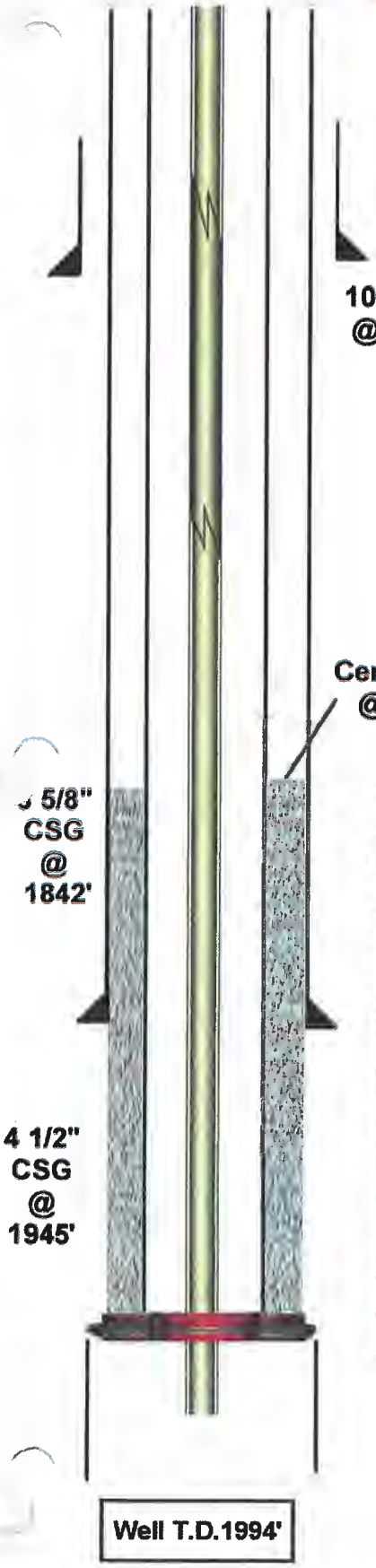
There is no Sample data for this well

☐ Proposed

☒ As is

P.A.TALLMAN # 13- 47-087- 2828
SMITHFIELD DIST., ROANE CO., W.V.
FIELD : TARIFF.

	Size	Wt.	Grde	Thrd	Depth	Sks/Cmt
CONDUCTOR	10"	N/A	N/A	N/A	185'	PULLED 164'
SURFACE	8 1/4"	N/A	N/A	N/A	700'	PULLED
INTERMEDIATE	6 5/8"	N/A	N/A	N/A	1842'	
PRODUCTION						
PRODUCTION	4 1/2"	9.5 #	K-55	8 RD	1945'	50 sks
TUBING	2 3/8"	4.6 #		10 RD	1988'	



Perforation Information
BIG INJUN : Shotholes from 1963' to 1981'.

Casing and Tubing Information
10" CSG set @ 185', PULLED 164.
8 1/4" CSG set @ 700', PULLED.
6 5/8" CSG set @ 1842'.
4 1/2" CSG set @ 1945' on a HOWCO FPS. Cemented with 50 sks
50/50 poz . Cement top @ 1316'.
2 3/8" TBG set @ 1988'.

Date	Work-Over Information
June/1911	The Big Injun formation was shot with 20 qts.
1/9/34	The Big Injun formation was shot with 40 qts from 1963' -1981'.
4/30/53	The Big Injun formation was shot with 60 qts from 1973' -1981'.
9/27/83	Pulled 2" TBG completely.
9/28/83	P.O.H with rods and pumps.
10/25/83	Finished pulling 5 1/2" CSG.
10/26/83	Ran 63 jts 4 1/2" CSG w/ Arrow packer shoe set @ 1948'.
10/28/83	P.O.H w/ 4 1/2" CSG and formation packer shoe. Ran 64 jts 4 1/2", 9.5 #,
	K-55, 8 RD CSG w/ S.T.& C. and HOWCO formation packer set @ 1945'.
10/29/83	Cemented 4 1/2" CSG w/ 50 sks 50/50 poz w/ 2% C.C and 1/8 # flocele/ sack
11/3/83	Ran 78 jts 2 3/8", 4.6 #, 10 RD TBG @ 1988'.
	Ran 1 1/2 "x 8' x2" THD BHP and 5/8 " rods.

Shotholes from 1963' - 1981'.

PREPARED BY:Babaji Chitturi

DATE: 08/08/2002

2828

WELL NO. 1759 13 NAME Gallman, P. A. LEASE NO. 3918 ACRES 2350 N. S. 54 E. W. 34 DISTRICT Spencer

District Smithfield
County Roane
State W. Va.
Commenced 3/30/11
Completed 6/19/11
Contractor Cody & Willet $ 1.15 Per Foot
Purchased From Carter Oil Co.
Date Purchased 12-26
Date Connected
Sold To
Date Sold
Date Plugged
Date Abandoned

CASING AND TUBING

Size	Put in Well	Left in Well	Pulled
13 in. Casing			
10 in. Casing	185	21 9/12	163 9/12
8¼ in. Casing	700		700
6⅝ in. Casing	1842		
5½ in. Casing			
5⅛ in. Casing			
4½ in. Casing			
2 in. Tubing	1984		1984
2 in. Tubing	1984		
in. Tubing			

SHOOTING

Date	Qts.	Sand	Depth	Tops Before	Tops After
June 1911	20				
1-9-34	20	[illegible]		2594	3668

Initial Oil Production 25 bbls.

Initial Open Flow

Initial Rock Pressure

RECORD

Elevation at Mouth of Well

Formation	Top	Bottom	Thickness	Oil at	Gas at	Water at	Thickness of Pay
Pittsburgh Coal							
Red Rock Cave	330	440	110				
Cow Run (First)	560	660	100				
Cow Run (Second)	664	760	96				
Salt Sand (Upper)	1280	1350	70				
Salt Sand (Middle)	1370	1390	20				
Salt Sand (Lower)	1455	1720	265			1493 salt	
Maxon	1730	1782	52				
Little Lime	1786	1818	32				
Pencil Cave	1818	1840	22				
Big Lime	1840	1952	112		show 1847	7	
Keener Sand							
Injun Sand	1952	1981	29	1963			18
Squaw Sand							
Weir Sand							
Berea Sand							
Gantz Sand							
Fifty Foot Sand							
Thirty Foot Sand							
Gordon Stray							
Gordon Sand							
Fourth Sand							
Fifth Sand							
Corniferous Lime							
Niagara Lime							
Cave							
Clinton							
Medina Shale							
Trenton							
Total Depth	1994						

Remarks

PACKERS

Size	Made	Set at

"Pipeline"

Select County: (087) Roane

Enter Permit #: 2831

Get Data | Reset

Select datatypes: (Check All)

- Location
- Production
- Plugging
- Owner/Completion
- Stratigraphy
- Sample
- Pay/Show/Water
- Logs
- Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 2831

Report Time: Monday, May 18, 2020 10:33:30 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_7K	QUAD_7.5	LAT_DD	LON_DD	UTME	UTMN
4708702831	Roane	2831	Smithfield	Tariff	Otter	38.648168	-81.210945	481643.2	4277533.5

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	FIRST_VI	FIRST_TRGT_M	TFM_EST_PR
4708702831	10/26/1911	Original Loc	Completed	P A Tallman	19					South Penn Oil (S. Penn Nat. Gas)			
4708702831	7/19/1934	Worked Over	Completed	P A Tallman	19					Pennzoil Company			
4708702831	9/12/1934	Worked Over	Completed	P A Tallman	19					Pennzoil Company			
4708702831	8/31/1937	Worked Over	Completed	P A Tallman	19					Pennzoil Company			
4708702831	9/20/1985	Worked Over	Completed	P A Tallman/L Combs	19				Anna Lee Collins	Pennzoil Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT
4708702831	10/26/1911	9/4/1911	1106	Ground Level	Tariff(Tlmn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil	Cable Tool	Shot	2135	2135			0	0	0	30				0	0
4708702831	7/19/1934	-/-/-	1106	Ground Level	Tariff(Tlmn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil	unknown	Shot	2135		0	0	0	0	0	0				0	0
4708702831	9/12/1934	-/-/-	1106	Ground Level	Tariff(Tlmn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil	Cable Tool	Shot	2135		0	0	0	0	0	0				0	0
4708702831	8/31/1937	-/-/-	1106	Ground Level	Tariff(Tlmn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil	unknown	Shot	2135		0	0	0	0	0	0				0	0
4708702831	9/20/1985	-/-/-	1106	Ground Level	Tariff(Tlmn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	Cable Tool	Fractured	2135		0	0	17	0	9				0	0	940

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_CNTY
4708702831	7/19/1934	Pay	Oil & Gas	Vertical	2110	Big Injun (Price&eq)	2115	Big Injun (Price&eq)	0	0			
4708702831	9/12/1934	Pay	Oil & Gas	Vertical	2115	Big Injun (Price&eq)	2129	Big Injun (Price&eq)	0	0			
4708702831	8/31/1937	Pay	Oil & Gas	Vertical	2109	Big Injun (Price&eq)	2129	Big Injun (Price&eq)	0	0			
4708702831	10/26/1911	Pay	Oil	Vertical	2109	Big Injun (Price&eq)	2129	Big Injun (Price&eq)	0	30			
4708702831	9/20/1985	Pay	Oil	Vertical	2059	Big Injun (Price&eq)	2135	Undf PRICE blw INJN	0	9			
4708702831	9/20/1985	Show	Gas	Vertical	2059	Big Injun (Price&eq)	2135	Undf PRICE blw INJN	0	17			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708702831	Pennzoil Company	1981	1,118	0	0	0	0	0	0	0	0	0	0	0	0
4708702831	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708702831	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708702831	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702831	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702831	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702831	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702831	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702831	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702831	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702831	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708702831	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708702831	Triad Resources, Inc.	2004	10	0	0	0	10	0	0	0	0	0	0	0	0
4708702831	Triad Resources, Inc.	2005	5	5	0	0	0	0	0	0	0	0	0	0	0
4708702831	Triad Resources, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702831	Triad Resources, Inc.	2007	5	0	0	0	0	0	0	0	0	0	0	0	5
4708702831	Triad Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702831	Triad Resources, Inc.	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702831	Triad Hunter LLC	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702831	Triad Hunter LLC	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702831	Triad Hunter LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702831	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702831	Triad Hunter LLC	2014	16	0	0	0	0	2	2	3	1	1	2	2	3
4708702831	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702831	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702831	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702831	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708702831	Pennzoil Company	1981	509	0	0	0	0	0	0	0	0	0	0	0	0
4708702831	Pennzoil Company	1982	665	0	0	0	0	0	0	0	0	0	0	0	0
4708702831	Pennzoil Company	1983	629	0	0	0	0	0	0	0	0	0	0	0	0
4708702831	Pennzoil Company	1984	1,029	0	0	0	0	0	0	0	0	0	0	0	0
4708702831	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702831	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702831	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702831	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702831	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702831	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702831	Triad Resources, Inc.	2002	50	0	0	0	0	11	10	12	4	12	14	5	12
4708702831	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45

2831

4708702831	Triad Resources, Inc.	2004	0	0	0	0	0	0	0	0	0	0	0	0
4708702831	Triad Resources, Inc.	2005	0	0	0	0	0	0	0	0	0	0	0	0
4708702831	Triad Resources, Inc.	2006	5	0	5	0	0	0	0	0	0	0	0	0
4708702831	Triad Resources, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0
4708702831	Triad Resources, Inc.	2008	2	0	0	0	0	0	0	0	0	0	0	2
4708702831	Triad Resources, Inc.	2009	2	0	0	0	0	0	0	0	0	0	0	2
4708702831	Triad Hunter LLC	2010	2	0	0	0	0	0	0	0	0	0	0	2
4708702831	Triad Hunter LLC	2011	2	0	0	0	0	0	0	0	0	0	0	2
4708702831	Triad Hunter LLC	2012	1	0	0	0	0	0	0	0	0	0	0	1
4708702831	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0
4708702831	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0
4708702831	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0
4708702831	Triad Hunter LLC	2016	0											
4708702831	Ground Resources, LLC	2017	0											
4708702831	Ground Resources, LLC	2018	[illegible]	0	[illegible]	[illegible]	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708702831	Triad Hunter LLC	2013	0	0	0	[illegible]	0	0	0	0	0	0	0	0	0
4708702831	Triad Hunter LLC	2014	0	0	0	[illegible]	0	0	0	0	0	0	0	0	0
4708702831	Triad Hunter LLC	2015	0	0	0	[illegible]	0	0	0	0	0	0	0	0	0
4708702831	Triad Hunter LLC	2016	0												
4708702831	Ground Resources, LLC	2018	0	0	0	[illegible]	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708702831	Triad Hunter LLC	2016	0												
4708702831	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708702831	Original Loc	Cow Run (undiff)	Well Record	660	Reasonable	17	Reasonable	1106	Ground Level
4708702831	Original Loc	Homewd Sa/2n Cow Run	Well Record	725	Reasonable	175	Reasonable	1106	Ground Level
4708702831	Original Loc	1st Salt Sand	Well Record	1310	Reasonable	80	Reasonable	1106	Ground Level
4708702831	Original Loc	2nd Salt Sand	Well Record	1540	Reasonable	18	Reasonable	1106	Ground Level
4708702831	Original Loc	3rd Salt Sand	Well Record	1588	Reasonable	305	Reasonable	1106	Ground Level
4708702831	Original Loc	Maxton	Well Record	1891	Reasonable	59	Reasonable	1106	Ground Level
4708702831	Original Loc	Little Lime	Well Record	1950	Reasonable	32	Reasonable	1106	Ground Level
4708702831	Original Loc	Pencil Cave	Well Record	1990	Reasonable	9	Reasonable	1106	Ground Level
4708702831	Original Loc	Big Lime	Well Record	2001	Reasonable	98	Reasonable	1106	Ground Level
4708702831	Original Loc	Big Injun (Price&eq)	Well Record	2099	Reasonable	30	Reasonable	1106	Ground Level
4708702831	Original Loc	Undf PRICE blw INJN	Well Record	2132	Reasonable	0	Reasonable	1106	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	SERPERT_FML	LOGE_AVAIL	SCAN	[illegible]ZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708702831	0	2136		G[illegible]*	Y	N		0	2136										0	2136	Y	Y	N						

Comment: *logs: caliper, CCL

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708702831gc.tif
4708702831gco.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

2851

2831

H. C. & R.

Lease No. | Acres 2350 | Farm Name P. A. Tallmon | Well No. 19

L.	S. 55 E. W. 35	Location Made		Purchased From	H.C.&R.
District	Smithfield	Rig Completed		Date Purchased	3-1-43
County	Roane	Dr'g Commenced	9-4-11	Sold To	
State	W. Va.	Dr'g Completed	10-26-11	Date Sold	
Gas Rights Owned By		Dr'g Contractor	Cody & Miller	Date Abandoned	

FORMATION

Kind	Top	Bottom	Steel Line Meas.	Tests
ed Rock Cove	310	395		
ow Run 1st.	660	677		
ow Run 2nd.	725	900		
st. Salt	1310	1390		
nd. Salt	1540	1558		
rd. Salt	1586	1891		
alt Water	1650			
axon	1891	1950		
ittle Lime	1950	1982		
encil Cove	1990	1999		
ig Lime	2001	2099		
ig Injun	2099	2132		
il	2109	2129		
otal Depth		2135		

NOTE: The 6 5/8" csg. was ripped at 959 and 1130 and cemented with 365 bags ement by Halliburton Cementing Co.

Initial Prod.	Sand	★ At Completion	★ 30 Days After	★
Oil	Injun	30-Bbl.		
Gas				

CASING RECORD

Size	Bottom Casing Steel Line	Put in Well Tally Meas.	Pulled Tally Meas.	Cemented
10"		185	185	Date
8-1/4"		800	800	Size Csg.
6-5/8"		2001		Top "
2"Tbg.		2125		Bot. "

PACKERS AND SHOES

Kind	Size	Depth Set	Date Set

TORPEDO RECORD

Date	No. Qts.	Size Shell	Top Shot	Bottom	Results
10-19-11	20				
7-19-34	20	5"	2110	2115	
9-12-34	40	4"	2115	2129	
8-31-37	120	5"	2109	2129	Bomb
3-7-12	[illegible]				
7-18-50	"				
8-4-45	"				

DRILLING DEEPER

Commenced	Completed	Original Depth	Final Depth	Contractor

ABANDONMENT RECORD

Filled With	From	To	PLUG Size	PLUG Kind	PLUG Dr'g

APPROVED

RECEIVED JUL 8 1995 OIL & GAS DIVISION DEPT. OF MINES

2831

WR-35

Date November 5, 1985
Operator's
Well No. 19-F
Farm P. A. Tallman
API No. 47 - 087 - 2831-F

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil X / Gas ___ / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production ___ / Underground Storage ___ / Deep ___ / Shallow ___ /)

LOCATION: Elevation: 1106 Watershed Sycamore Fork
District: Smithfield County Roane Quadrangle Tariff 7.5'

COMPANY Pennzoil Company
ADDRESS P.O. Box 1588, Parkersburg, WV 26102
DESIGNATED AGENT James A. Crews
ADDRESS P.O. Box 1588, Parkersburg, WV
SURFACE OWNER Larry Combs
ADDRESS Left Hand, West Virginia 25251
MINERAL RIGHTS OWNER Anna Lee Collins
ADDRESS 1009 Main Street, Pt. Pleasant, WV
OIL AND GAS INSPECTOR FOR THIS WORK Homer H. Dougherty ADDRESS Linden Rt. Box 3-A Looneyville, WV
PERMIT ISSUED 7-30-85
DRILLING COMMENCED
DRILLING COMPLETED Frac: 9-20-85
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8			
7			
5 1/2			
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Big Injun Depth 2132 feet
Depth of completed well 2132 feet Rotary ___ / Cable Tools X
Water strata depth: Fresh n/a feet; Salt 1675 feet
Coal seam depths: ___ Is coal being mined in the area? no

OPEN FLOW DATA
Producing formation Big Injun Pay zone depth 2132 feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow 17 Mcf/d Final open flow 9 Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure 940 psig (surface measurement) after ___ hours shut in
(If applicable due to multiple completion--)
Second producing formation ___ Pay zone depth ___ feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow ___ Mcf/d Oil: Final open flow ___ Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure ___ psig (surface measurement) after ___ hours shut in

ROANE 2831-FRAC

(Continue on reverse side)

2831

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Fractured: 9-20-85 Big Injun
w/500# 20/40 sd, 65 Bbls. 20# gelled water

Perforated: Open Hole 2059-2135

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
See previously submitted well record			

(Attach separate sheets as necessary)

Pennzoil Company
Well Operator

By: Gustav A. Lewis

Date: 11-6-85

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

HALLIBURTON
A Division of Halliburton Company
DUNCAN, OKLAHOMA 73536

WORK ORDER CONTRACT AND PRE-TREATMENT DATA

FORM 1908 R-2

ATTACH TO INVOICE & TICKET NO. 815005

DISTRICT Elkhorn WU DATE 5/12/89

HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO: Pennzoil Company (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. #19 LEASE P.A. Tallman SEC. TWP. RANGE

FIELD Tariff COUNTY Roane STATE W.V. OWNED BY Pennzoil Company

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME TYPE

FORMATION THICKNESS FROM TO

PACKER: TYPE Baker Ret. Slip SET AT 2059

TOTAL DEPTH 2135 MUD WEIGHT

BORE HOLE

INITIAL PROD: OIL BPD, H_2O BPD, GAS MCF

PRESENT PROD: OIL BPD, H_2O BPD, GAS MCF

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING	NW	9.5	4½	GL	2059	2000
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

PREVIOUS TREATMENT: DATE TYPE MATERIALS

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ☐ ANNULUS ☐ CASING ☒ TUBING/ANNULUS ☐ HYDRAULIC HORSEPOWER ORDERED

Test lines to 2000 PSI. Break Circulation Drop Ball Set Packer w/ Break Circulation Cement w/ wash out lines & Displace with 3rd BBL Slow down & Flush Hole

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED

(a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists.

(b) Halliburton shall not be responsible for and Customer shall secure Halliburton against any liability for damage to property of Customer and of the well owner (if different from Customer), unless caused by the willful misconduct or gross negligence of Halliburton, this provision applying to but not limited to subsurface damage and surface damage arising from subsurface damage.

(c) Customer shall be responsible for and secure Halliburton against any liability for reservoir loss or damage, or property damage resulting from subsurface [illegible], losing control of the well and/or a well blowout, unless such loss or damage is caused by the willful misconduct or gross negligence of Halliburton.

(d) Customer shall be responsible for and secure Halliburton against any and all liability of whatsoever nature for damages as a result of subsurface trespass, or an action in the nature thereof, arising from a service operation performed by Halliburton hereunder.

(e) Customer shall be responsible for and secure Halliburton against any liability for injury to or death of persons, other than employees of Halliburton, or damage to property (including, but not limited to, injury to the well), or any damages whatsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well hole, unless such damage shall be caused by the willful misconduct or gross negligence of Halliburton.

(f) Halliburton makes no guarantee of the effectiveness of the products, supplies or materials, nor of the results of any treatment or service.

(g) Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.

(h) Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be responsible for any damages arising from the use of such information except where due to Halliburton's gross negligence or willful misconduct in the preparation or furnishing of it.

(i) Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.

(j) Invoices payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable but never to exceed 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.

(k) This contract shall be governed by the law of the state where services are performed or equipment or materials are furnished.

(l) Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

I HAVE READ AND UNDERSTOOD THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.

SIGNED [signature] CUSTOMER

DATE

We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.

TIME 1:30 A.M. P.M.

CUSTOMER

SERVICES SUMMARY

DIVISION

HALLIBURTON LOCATION: Rifle, CO

FILLED ON TICKET NO. 815005

WELL DATA

FORMATION NAME ____ TYPE ____

FORMATION THICKNESS ____ FROM ____ TO ____

INITIAL PROD: OIL ____ BPD, WATER ____ BPD, GAS ____ MCFD

PRESENT PROD: OIL ____ BPD, WATER ____ BPD, GAS ____ MCFD

COMPLETION DATE ____ MUD TYPE ____ MUD WT. ____

PACKER TYPE ____ SET AT ____

BOTTOM HOLE TEMP. ____ PRESSURE ____

MISC. DATA ____ TOTAL DEPTH 2135

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	New	9.5#	4 1/2	Grade	2058	2000
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 5-18-84	DATE 5-18-84	DATE 5-18-84	DATE 5-18-84
TIME 04:30	TIME 07:30	TIME 09:30	TIME 09:30

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG 5 1/2 Alu	1 EA	Halco
HEAD P/C 4 1/2	1 EA	Halco
PACKER Formation Test 6	1 EA	Halco
OTHER		

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
T. Beale	Equipt 3122	
D. Douglas	150 3636	
R. Ashley	Equipt 1452	

MATERIALS

TREAT. FLUID ____ DENSITY ____ LB/GAL API

DISPL. FLUID ____ DENSITY ____ LB/GAL API

PROP. TYPE ____ SIZE ____ LB. ____

PROP. TYPE ____ SIZE ____ LB. ____

ACID TYPE ____ GAL. ____

ACID TYPE ____ GAL. ____

SURFACTANT TYPE ____ GAL. ____ IN

NE AGENT TYPE ____ GAL. ____

FLUID LOSS ADD. TYPE ____ GAL-LB. ____ IN

GELLING AGENT TYPE ____ GAL-LB. ____ IN

FRIC. RED. AGENT TYPE ____ GAL-LB. ____ IN

BREAKER TYPE ____ GAL-LB. ____ IN

BLOCKING AGENT TYPE ____ GAL-LB. ____

PERFPAC BALLS TYPE ____ QTY. ____

OTHER ____

OTHER ____

DEPARTMENT Cement

DESCRIPTION OF JOB Cement 4 1/2

JOB DONE THRU: TUBING ☐ CASING ☒ ANNULUS ☐ TBG./ANN. ☐

CUSTOMER REPRESENTATIVE X [signature]

HALLIBURTON OPERATOR [signature]

COPIES REQUESTED 1

CEMENT DATA

STAGE	NUMBER OF SACKS	TYPE	API CLASS	BRAND	BULK SACKED	ADDITIVES	WATER GAL./SK	YIELD CU.FT./SK	MIXED LBS./GAL.
1	50	Poz	A		Bulk	2% Gel	6 Gal Flo	1.26	14.15

PRESSURES IN PSI

CIRCULATING ____ DISPLACEMENT ____

BREAKDOWN ____ MAXIMUM ____

AVERAGE ____ FRACTURE GRADIENT ____

SHUT-IN: INSTANT ____ 5-MIN. ____ 15-MIN. ____

HYDRAULIC HORSEPOWER

ORDERED ____ AVAILABLE ____ USED ____

AVERAGE RATES IN BPM

TREATING ____ DISPLACEMENT ____ OVERALL ____

CEMENT LEFT IN PIPE

FEET ____ REASON ____

SUMMARY VOLUMES

PRESLUSH: BBL-GAL. 50 TYPE H2O

LOAD & BKDN: BBL-GAL. ____ PAD: BBL-GAL. ____

TREATMENT: BBL-GAL. ____ DISPL.: BBL-GAL. 34

CEMENT SLURRY: BBL-GAL. 11

TOTAL VOLUME: BBL-GAL. ____

REMARKS

Plug down & Float Held

CUSTOMER

2832

"Pipeline"

Select County: (087) Roane

Enter Permit #: 2832

Get Data | Reset

Select datatypes: (Check All)

- Location
- Owner/Completion
- Pay/ShowWater
- Production
- Stratigraphy
- Logs
- Plugging
- Sample
- Btm Hole Loc

Table Descriptions
Common Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 2832

Report Time: Monday, May 18, 2020 10:44:15 PM

Location Information:

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708702832	Roane	2832	Smithfield	Tariff	Otter	38.646021	-81.214089	481369.6	4277518

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_FM
4708702832	10/31/1911	Original Loc	Completed	P A Tallman	20					Carter Oil			
4708702832	12/18/1934	Worked Over	Completed	P A Tallman	20					[illegible]			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AF
4708702832	10/31/1911	9/20/1911	1000	Topo Estimation	Tariff(Timn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil	Cable Tool	Shot	2076	2076		0	0	0	0	10			0	0	0	
4708702832	12/18/1934	-/-/-	1000	Topo Estimation	Tariff(Timn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Gas	unknown	Shot	2076	0	2118	23187	0	0					0	0	0	

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708702832	12/18/1934	Pay	Gas	Vertical			0	Big Injun (Price&eq)	2118	23187			
4708702832	10/31/1911	Pay	Oil	Vertical			2051	Big Injun (Price&eq)	0	10			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATION	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708702832	Pennzoil Company	1981	1,118	0	0	0	0	0	0	0	0	0	0	0	0
4708702832	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708702832	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708702832	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702832	Pennzoil Products Company	1989	938	54	50	78	49	92	109	0	117	167	108	0	114
4708702832	Pennzoil Products Company	1990	998	73	26	72	61	45	103	110	109	198	19	102	80
4708702832	Pennzoil Products Company	1991	1,084	98	98	82	66	102	101	110	93	100	91	70	73
4708702832	Pennzoil Products Company	1992	686	58	36	33	33	46	40	61	89	72	87	71	57
4708702832	Pennzoil Products Company	1993	622	62	62	65	44	67	83	60	38	38	35	36	34
4708702832	Pennzoil Products Company	1994	311	45	27	17	26	16	34	23	21	14	32	38	18
4708702832	Pennzoil Products Company	1995	108	12	11	5	7	4	6	6	10	11	12	14	10
4708702832	Pennzoil Products Company	1996	77	5	3	4	4	4	5	5	7	16	8	9	7
4708702832	Pennzoil Products Company	1997	80	3	4	4	6	5	9	3	0	8	15	17	6
4708702832	Pennzoil Products Company	1998	96	11	5	11	9	5	9	8	9	10	19	0	0
4708702832	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708702832	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708702832	Triad Resources, Inc.	2004	88	6	5	8	9	9	11	8	9	11	8	4	0
4708702832	Triad Resources, Inc.	2005	101	9	5	12	2	3	7	8	12	10	12	12	9
4708702832	Triad Resources, Inc.	2006	93	10	7	7	6	8	8	8	8	8	8	8	7
4708702832	Triad Resources, Inc.	2007	62	8	7	7	5	2	2	6	6	6	4	5	4
4708702832	Triad Resources, Inc.	2008	72	5	4	4	4	3	5	4	3	7	8	11	14
4708702832	Triad Resources, Inc.	2009	33	8	3	3	3	5	5	3	0	0	1	1	1
4708702832	Triad Hunter LLC	2010	39	6	2	3	3	3	5	5	4	3	3	2	0
4708702832	Triad Hunter LLC	2011	11	1	1	1	1	0	3	1	1	1	1	0	0
4708702832	Triad Hunter LLC	2012	15	1	1	1	2	2	2	1	2	2	1	0	0
4708702832	Triad Hunter LLC	2013	12	1	1	1	1	1	1	1	1	1	1	1	1
4708702832	Triad Hunter LLC	2014	8	1	1	1	0	1	0	1	0	1	1	1	0
4708702832	Triad Hunter LLC	2015	6	0	0	0	1	3	1	1	0	0	0	0	0
4708702832	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702832	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702832	Ground Resources, LLC	2018	8	0	0	0	0	0	0	0	0	0	0	0	8

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708702832	Pennzoil Company	1981	509	0	0	0	0	0	0	0	0	0	0	0	0
4708702832	Pennzoil Company	1982	665	0	0	0	0	0	0	0	0	0	0	0	0
4708702832	Pennzoil Company	1983	629	0	0	0	0	0	0	0	0	0	0	0	0
4708702832	Pennzoil Company	1984	1,029	0	0	0	0	0	0	0	0	0	0	0	0
4708702832	Pennzoil Products Company	1989	3,377	226	192	366	347	321	318	363	317	265	274	252	136
4708702832	Pennzoil Products Company	1990	3,380	219	204	328	244	308	335	349	336	262	229	258	288
4708702832	Pennzoil Products Company	1991	2,997	248	220	288	264	304	252	277	270	236	247	205	186
4708702832	Pennzoil Products Company	1992	2,478	197	175	202	161	195	239	210	257	209	188	216	229
4708702832	Pennzoil Products Company	1993	1,759	222	143	219	232	167	121	129	88	111	97	134	96
4708702832	Pennzoil Products Company	1994	1,099	81	116	87	127	84	82	74	153	108	83	51	73
4708702832	Pennzoil Products Company	1995	819	77	59	50	79	90	64	72	88	75	79	53	53
4708702832	Pennzoil Products Company	1996	893	71	70	66	71	88	89	89	74	69	55	65	88
4708702832	Pennzoil Products Company	1997	836	53	101	78	86	36	0	31	80	84	106	91	90
4708702832	Pennzoil Products Company	1998	798	73	84	70	83	85	74	81	93	82	93	0	0
4708702832	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708702832	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708702832	Triad Resources, Inc.	2004	329	31	31	31	31	30	30	22	28	24	23	21	27
4708702832	Triad Resources, Inc.	2005	406	36	24	27	32	27	41	32	32	37	48	39	31

2832

4708702832	Triad Resources, Inc.	2006	412	23	33	35	42	22	28	35	32	45	32	39	46
4708702832	Triad Resources, Inc.	2007	483	39	46	31	53	38	45	39	42	35	39	36	40
4708702832	Triad Resources, Inc.	2008	498	38	52	26	47	34	23	41	42	58	52	33	52
4708702832	Triad Resources, Inc.	2009	306	13	0	30	45	19	31	28	27	23	35	31	24
4708702832	Triad Hunter LLC	2010	160	34	5	26	5	5	30	5	5	33	5	7	0
4708702832	Triad Hunter LLC	2011	325	24	32	27	23	28	27	26	27	28	30	32	21
4708702832	Triad Hunter LLC	2012	278	18	21	18	13	23	34	12	36	26	28	22	29
4708702832	Triad Hunter LLC	2013	291	27	28	32	22	27	31	16	23	17	19	23	26
4708702832	Triad Hunter LLC	2014	270	20	18	23	23	24	21	19	28	24	20	24	26
4708702832	Triad Hunter LLC	2015	226	25	14	10	24	19	25	19	9	20	14	33	14
4708702832	Triad Hunter LLC	2016	216					33	22	24	33	23	33	26	22
4708702832	Ground Resources, LLC	2017	331	33	17	32	32	26	28	30	21	26	36	28	22
4708702832	Ground Resources, LLC	2018	311	19	23	22	28	[illegible]	[illegible]	21	[illegible]	[illegible]	[illegible]	[illegible]	20

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702832	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702832	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702832	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702832	Triad Hunter LLC	2016	0												
4708702832	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702832	Triad Hunter LLC	2016	0												
4708702832	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SRFTYP	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708702832	Original Loc	Cow Run (undiff)	Well Record	608	Reasonable	8	Reasonable	1000	Topo Estimation
4708702832	Original Loc	Homewd Sa/2n Cow Run	Well Record	680	Reasonable	150	Reasonable	1000	Topo Estimation
4708702832	Original Loc	1st Salt Sand	Well Record	1385	Reasonable	25	Reasonable	1000	Topo Estimation
4708702832	Original Loc	unidentified coal	Well Record	1440	Reasonable	3	Reasonable	1000	Topo Estimation
4708702832	Original Loc	2nd Salt Sand	Well Record	1465	Reasonable	31	Reasonable	1000	Topo Estimation
4708702832	Original Loc	3rd Salt Sand	Well Record	1515	Reasonable	260	Reasonable	1000	Topo Estimation
4708702832	Original Loc	Maxton	Well Record	1777	Reasonable	94	Reasonable	1000	Topo Estimation
4708702832	Original Loc	Little Lime	Well Record	1872	Reasonable	26	Reasonable	1000	Topo Estimation
4708702832	Original Loc	Pencil Cave	Well Record	1907	Reasonable	17	Reasonable	1000	Topo Estimation
4708702832	Original Loc	Big Lime	Well Record	1924	Reasonable	98	Reasonable	1000	Topo Estimation
4708702832	Original Loc	Big Injun (Price&eq)	Well Record	2042	Reasonable	33	Reasonable	1000	Topo Estimation
4708702832	Original Loc	Undif PRICE btw INJN	Well Record	2075	Reasonable	0	Reasonable	1000	Topo Estimation

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708[illegible]	[illegible]	[illegible]	[illegible]	[illegible]*	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Comment: *logs: caliper, CCL

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708702832geo.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

WELL NO. 28765 NAME Gilmer P.C. LEASE NO. 5709 ACRES 235 N. 8.54 E. W. 33 DISTRICT SPENCER

District	Smithfield
County	Gilmer
State	W. Va.
Commenced	9/20/11
Completed	10/31/11
Contractor	Cody Miller
Purchased From	Carter Oil Co. $1.15 Per Foot
Date Purchased	1-1-26
Date Connected	
Sold To	
Date Sold	
Date Plugged	
Date Abandoned	

CASING AND TUBING

Size	Put in Well	Left in Well	Pulled
13 in. Casing			
10 in. Casing	125		125
8 5/8 in. Casing	770		770
6 5/8 in. Casing	1928	1928	
6 1/4 in. Casing			
5 3/16 in. Casing			
4 1/2 in. Casing			
2 in. Tubing	2066	2066	2066
1 in. Tubing	2066		
in. Tubing			

SHOOTING

Date	Qts.	Sand	Depth	Test Before	Test After
10-31-11	20				
12-18-24	60	Lagun		2118	2117

Initial Oil Production 12 bbl.

Initial Open Flow

RECORD

Elevation at Mouth of Well

Formation	Top	Bottom	Thickness	Oil at	Gas at	Water at	Thickness of Pay
Pittsburgh Coal	1440	1443	3				
Red Rock Cave	240	355	115				
Cow Run (First)	608	616	8				
Cow Run (Second)	680	830	150				
Salt Sand (Upper)	1385	1410	25				
Salt Sand (Middle)	1465	1496	31			1478 salt	
Salt Sand (Lower)	1515	1770	260			1570	
Maxon	1777	~~1850~~	73				
Little Lime	1872	1900	28				
Pencil Cave	1907	1924	17				
Big Lime	1924	2022	98				
Keener Sand							
Injun Sand	2042	2075	33	2051			20
Squaw Sand							
Weir Sand							
Berea Sand							
Gantz Sand							
Fifty Feet Sand							
Thirty Feet Sand							
Gordon Stray							
Gordon Sand							
Fourth Sand							
Fifth Sand							
Corniferous Lime							
Niagara Lime							
Cave							
Clinton							
Medina Shale							
Trenton							
Total Depth	2076						

Remarks

PACKERS

Size	Make	Set at

2832

WVGES GEOLOGY ... LIES IT ALL
"Pipeline"

Select County: (087) Roane
Enter Permit #: 2833
Get Data | Reset

Select datatypes: (Check All)
Location | Production | Plugging
Owner/Completion | Stratigraphy | Sample
Pay/Show/Water | Logs | Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 2833

Report Time: Monday, May 18, 2020 10:56:38 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX DISTRICT	QUAD_7.5	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708702833	Roane	2833	Smithfield	Tariff	Otter	38.646021	-81.216309	481176.5	4277518.5

There is no Bottom Hole Location data for this well

Owner Information:

API	COMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TD	GT_FM	TFM_EST_PR
4708702833	11/15/1911	Original Loc	Completed	P A Tallman	21					Pennzoil Company				
[illegible]	[illegible]	Water Over	Completed	P A Tallman						Pennzoil Company				

Completion Information:

API	COMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_A
4708702833	11/15/1911	10/23/1911	1025	Ground Level	Tariff(Tlmn)	Big Injun (Price&eq)	Big Injun (Price&eq)	unclassified	unclassified	Oil w/ Gas Show	unknown	Shot	2057		2057		0	0	0	10			0	0	0	
4708702833	11/1/1984	-/-/-	1025	Ground Level	Tariff(Tlmn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Development Well	Unsuccessful	Dry w/ Gas Show	unknown	Acid+Frac	2017		0		0	0	0	0				0	0	

Pay/Show/Water Information:

API	COMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_SALTY
4708702833	11/15/1911	Show	Gas	Vertical			2015	Big Injun (Price&eq)	0	0			
4708702833	11/15/1911	Pay	Oil	Vertical			2021	Big Injun (Price&eq)	0	10			
4708702833	11/1/1984	Show	Gas	Vertical	2015	Big Injun (Price&eq)	2052	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708702833	Pennzoil Company	1981	1,118	0	0	0	0	0	0	0	0	0	0	0	0
4708702833	Pennzoil Company	1982	1,365	0	0	0	0	0	0	0	0	0	0	0	0
4708702833	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708702833	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702833	Pennzoil Products Company	1989	811	52	82	71	45	59	124	0	79	92	153	0	54
4708702833	Pennzoil Products Company	1990	578	52	31	68	60	26	70	50	45	78	10	44	44
4708702833	Pennzoil Products Company	1991	703	63	38	55	78	47	66	63	74	65	50	63	41
4708702833	Pennzoil Products Company	1992	450	40	31	21	15	32	30	45	59	42	36	58	41
4708702833	Pennzoil Products Company	1993	542	31	51	51	35	52	38	51	37	42	29	76	49
4708702833	Pennzoil Products Company	1994	392	41	34	19	22	15	48	67	25	19	48	35	21
4708702833	Pennzoil Products Company	1995	248	28	29	14	21	17	9	7	22	14	28	36	23
4708702833	Pennzoil Products Company	1996	304	16	3	1	8	14	24	25	31	55	31	41	55
4708702833	Pennzoil Products Company	1997	388	17	23	17	17	23	42	12	0	37	72	80	28
4708702833	Pennzoil Products Company	1998	437	53	22	44	43	23	41	35	43	44	89	0	0
4708702833	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708702833	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708702833	Triad Resources, Inc.	2004	85	6	5	8	9	9	11	6	9	11	8	4	0
4708702833	Triad Resources, Inc.	2005	101	9	5	12	2	3	7	8	12	10	12	12	9
4708702833	Triad Resources, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702833	Triad Resources, Inc.	2007	62	8	7	7	5	2	2	6	6	6	4	5	4
4708702833	Triad Resources, Inc.	2008	72	5	4	4	4	3	5	4	3	7	8	11	14
4708702833	Triad Resources, Inc.	2009	33	8	3	3	3	5	5	3	0	0	1	1	1
4708702833	Triad Hunter LLC	2010	39	6	2	3	3	3	5	5	4	3	3	2	0
4708702833	Triad Hunter LLC	2011	11	1	1	1	1	0	3	1	1	1	1	0	0
4708702833	Triad Hunter LLC	2012	15	1	1	1	2	2	2	1	2	2	1	0	0
4708702833	Triad Hunter LLC	2013	12	1	1	1	1	1	1	1	1	1	1	1	1
4708702833	Triad Hunter LLC	2014	8	1	1	1	0	1	0	1	0	1	1	1	0
4708702833	Triad Hunter LLC	2015	6	0	0	0	1	3	1	1	0	0	0	0	0
4708702833	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702833	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702833	Ground Resources LLC	2018	6	0	0	0	0	0	0	0	0	0	0	0	6

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708702833	Pennzoil Company	1981	509	0	0	0	0	0	0	0	0	0	0	0	0
4708702833	Pennzoil Company	1982	665	0	0	0	0	0	0	0	0	0	0	0	0
4708702833	Pennzoil Company	1983	629	0	0	0	0	0	0	0	0	0	0	0	0
4708702833	Pennzoil Company	1984	1,029	0	0	0	0	0	0	0	0	0	0	0	0
4708702833	Pennzoil Products Company	1989	2,574	207	346	234	394	217	213	201	156	126	142	180	159
4708702833	Pennzoil Products Company	1990	1,877	207	201	190	165	140	140	137	171	123	125	166	112
4708702833	Pennzoil Products Company	1991	2,081	168	262	130	171	174	199	181	148	211	138	142	157
4708702833	Pennzoil Products Company	1992	1,596	126	82	132	121	145	158	123	106	171	135	109	186
4708702833	Pennzoil Products Company	1993	1,655	175	113	169	105	143	116	148	73	232	141	120	120
4708702833	Pennzoil Products Company	1994	1,594	90	96	83	160	240	97	98	224	102	74	121	187
4708702833	Pennzoil Products Company	1995	1,871	210	169	247	120	114	146	96	164	180	168	168	59
4708702833	Pennzoil Products Company	1996	3,760	27	133	227	370	440	381	300	298	322	444	375	443
4708702833	Pennzoil Products Company	1997	3,730	231	305	340	406	170	0	149	380	399	488	438	424
4708702833	Pennzoil Products Company	1998	3,895	290	402	331	393	285	349	373	441	389	442	0	0
4708702833	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708702833	Triad Resources, Inc.	2003	377	25	24	25	28	28	30	28	28	30	38	50	45
4708702833	Triad Resources, Inc.	2004	329	31	31	31	31	30	30	22	28	24	23	21	27

2833

4708702833	Triad Resources, Inc.	2005	406	36	24	27	32	27	41	32	32	37	48	39	31
4708702833	Triad Resources, Inc.	2006	5	0	5	0	0	0	0	0	0	0	0	0	0
4708702833	Triad Resources, Inc.	2007	483	39	46	31	53	36	45	39	42	35	39	36	40
4708702833	Triad Resources, Inc.	2008	498	38	52	26	47	34	23	41	42	58	52	33	52
4708702833	Triad Resources, Inc.	2009	326	13	0	30	45	39	31	28	27	23	35	31	24
4708702833	Triad Hunter LLC	2010	180	34	5	26	5	5	30	5	5	33	5	7	0
4708702833	Triad Hunter LLC	2011	325	24	32	27	23	28	27	26	27	28	30	32	21
4708702833	Triad Hunter LLC	2012	278	16	21	18	13	23	34	12	36	26	28	22	29
4708702833	Triad Hunter LLC	2013	291	27	28	32	22	27	31	16	23	17	19	23	26
4708702833	Triad Hunter LLC	2014	270	20	18	23	23	24	21	19	28	24	20	24	26
4708702833	Triad Hunter LLC	2015	226	25	14	10	24	19	25	19	9	20	14	33	14
4708702833	Triad Hunter LLC	2016	216					33	22	24	33	23	33	26	22
4708702833	Ground Resources, LLC	2017	329	33	17	32	31	25	28	30	21	26	36	28	22
4708702833	Ground Resources LLC	2018	311	19	23	22	28	27	29	21	24	21	37	31	29

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702833	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702833	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702833	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702833	Triad Hunter LLC	2016	0												
4708702833	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702833	Triad Hunter LLC	2016	0												
4708702833	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphic Information:

API	SUPPLY	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708702833	Original Loc	Maxton	Well Record	1600	Reasonable	50	Reasonable	1025	Ground Level
4708702833	Original Loc	Little Lime	Well Record	1850	Reasonable	38	Reasonable	1025	Ground Level
4708702833	Original Loc	Pencil Cave	Well Record	1897	Reasonable	17	Reasonable	1025	Ground Level
4708702833	Original Loc	Big Lime	Well Record	1914	Reasonable	101	Reasonable	1025	Ground Level
4708702833	Original Loc	Big Injun (Weir)	Well Record	2015	Reasonable	3	Reasonable	1025	Ground Level

There is no Wireline (E-Log) data for this well

There is no Plugging data for this well

There is no Sample data for this well

2833

087-2833

2833

NAME [illegible] LEASE NO. [illegible] ACRES 2350 N. S. 54 E. W. 35 DISTRICT SPENCER

RECORD

Formation	Top	Bottom	Thickness	Oil at	Gas at	Water at	Size of Pipe
Pittsburgh Coal							
Big Dunkard Coal							
Coal Rock (Pyrite)							
Coal Rock (Sandstone)							
Salt Sand (Upper)							
Salt Sand (Middle)							
Salt Sand (Lower)							
Sandstone							
Big Lime							
Shell Sand							
Big Lime							
Weir Sand							
Berea Sand							
Gordon Sand							
Fifth Sand							
Fifth Sand							
Fourth Sand							
Third Sand							
Fourth Sand							
Fourth Sand							
Fifth Sand							
Carbonaceous Lime							
Maxton Lime							
Clinton							
Medina Shale							
Trenton							
Total Depth							

CASING AND TUBING

Size	Put in Well	Left in Well	Pulled
10 in. Casing			
8 in. Casing			
6 in. Casing			
5 in. Casing			
4 in. Casing			
3 in. Casing			
2 in. Casing			
1 in. Casing			
1 in. Tubing			
1 in. Tubing			
1 in. Tubing			

SHOOTING

Date	Qts.	Sand	Depth	Before	After
11-7-11	[illegible]				
12-14-32	40	[illegible]	2040	[illegible]	[illegible]

Initial Oil Production [illegible]

Initial Open Flow

Remarks

2833

WR-35

RECEIVED
MAY 13 1987
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date May 12, 1987
Operator's
Well No. 21
Farm P. A. Tallman
API No. 47 - 087 - 2833F

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil X / Gas ___ / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production ___ / Underground Storage ___ / Deep ___ / Shallow ___ /)

LOCATION: Elevation: 1025.94 Watershed Trace Fork
District: Smithfield County Roane Quadrangle Tariff 7.5'

COMPANY Pennzoil Company
ADDRESS PO Box 1588, Parkersburg, WV 26102
DESIGNATED AGENT J. A. Crews
ADDRESS PO Box 1588, Parkersburg, WV 26102
SURFACE OWNER Pennzoil Company
ADDRESS PO Box 1588, Parkersburg, WV 26102
MINERAL RIGHTS OWNER Anna Lee Collins
ADDRESS Pt. Pleasant, WV
OIL AND GAS INSPECTOR FOR THIS WORK Homer Dougherty ADDRESS Looneyville, WV 25259
PERMIT ISSUED 10-30-84
DRILLING COMMENCED
Frac ~~DRILLING~~ COMPLETED 11/1/84
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing or Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8			
7			
5 1/2			
4 1/2	1977'	1977'	50 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Big Injun Depth 2057 feet
Depth of completed well ___ feet Rotary ___ / Cable Tools ___
Water strata depth: Fresh ___ feet; Salt ___ feet
Coal seam depths: ___ Is coal being mined in the area? ___

OPEN FLOW DATA
Producing formation Big Injun Pay zone depth 2015-2052 feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow ___ Mcf/d Final open flow ___ Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure ___ psig (surface measurement) after ___ hours shut in
(If applicable due to multiple completion--)
Second producing formation ___ Pay zone depth ___ feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow ___ Mcf/d Oil: Final open flow ___ Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure ___ psig (surface measurement) after ___ hours shut in

ROANE 2833-F

(Continue on reverse side)

2833

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Frac 11-1-84 w/250 gal. acid, 165 Bbls. water and 2000# 20/40 sand.

RECEIVED
MAY 13 1987
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all free and salt water, coal, oil and ga
SEE ORIGINAL WELL RECORD.			

(Attach separate sheets as necessary)

PENNZOIL COMPANY
Well Operator

By: Curtis A. Lucas
Curtis A. Lucas

Date: May 12, 1987

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

2603

2835

"Pipeline"

Select County: (087) Roane

Enter Permit #: 2835

Get Data | Reset

Select datatypes: (Check All)

- Location
- Production
- Plugging
- Owner/Completion
- Stratigraphy
- Sample
- Pay/Show/Water
- Logs
- Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

Geological & Economic Survey:

Well: County = 087 Permit = 2835

Report Time: Wednesday, May 02, 2018 10:31:00 AM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708702835	Roane	2835	Smithfield	Tariff	Otter	38.650081	-81.207192	481970.9	4277967.3

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708702835	12/31/1911	Original Loc	Completed	P A Tallman	23					Carter Oil			
4708702835	6/17/1937	Worked Over	Completed	P A Tallman	23					Pennzoil Company			
4708702835	1/31/1940	Worked Over	Completed	P A Tallman	23					Pennzoil Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	G_BEF	G_AFT	O_BEF	O_A
4708702835	12/31/1911	10/25/1911	920	Topo Estimation	Tariff(Tlmn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil	Cable Tool	Shot	1957		1957	0	0	0	
4708702835	6/17/1937	-/-/-	920	Topo Estimation	Tariff(Tlmn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil and Gas	Cable Tool	Shot	1957		0	0	0	0	
4708702835	1/31/1940	-/-/-	920	Topo Estimation	Tariff(Tlmn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil and Gas	unknown	Shot	1957		0	0	0	0	

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708702835	6/17/1937	Pay	Oil & Gas	Vertical			0	Big Injun (Price&eq)	0	0			
4708702835	12/31/1911	Pay	Oil	Vertical	1925	Big Injun (Price&eq)	1947	Big Injun (Price&eq)	0	15			
4708702835	1/31/1940	Pay	Oil & Gas	Vertical	1925	Big Injun (Price&eq)	1947	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf)

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702835	Pennzoil Company	1981	1,118	0	0	0	0	0	0	0	0	0	0	0	0
4708702835	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708702835	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708702835	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702835	Pennzoil Products Company	1989	871	83	58	94	59	65	66	99	64	94	67	53	69
4708702835	Pennzoil Products Company	1990	431	47	31	46	29	38	84	33	22	46	5	27	23
4708702835	Pennzoil Products Company	1991	175	24	5	4	29	36	10	10	14	14	13	8	8
4708702835	Pennzoil Products Company	1992	111	20	5	4	4	5	15	15	10	7	9	9	8
4708702835	Pennzoil Products Company	1993	68	6	7	8	8	8	0	8	9	6	2	1	5
4708702835	Pennzoil Products Company	1994	45	5	5	3	3	3	4	4	3	3	3	5	4
4708702835	Pennzoil Products Company	1995	25	4	9	5	7	0	0	0	0	0	0	0	0
4708702835	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702835	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708702835	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708702835	Triad Resources, Inc.	2004	10	0	0	0	10	0	0	0	0	0	0	0	0
4708702835	Triad Resources, Inc.	2005	5	5	0	0	0	0	0	0	0	0	0	0	0
4708702835	Triad Resources, Inc.	2006	93	10	7	7	6	8	8	8	8	8	8	8	7
4708702835	Triad Resources, Inc.	2007	5	0	0	0	0	0	0	0	0	0	0	0	5
4708702835	Triad Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702835	Triad Resources, Inc.	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702835	Triad Hunter LLC	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702835	Triad Hunter LLC	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702835	Triad Hunter LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702835	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702835	Triad Hunter LLC	2014	16	0	0	0	0	3	1	2	3	1	2	2	2
4708702835	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702835	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702835	Pennzoil Company	1981	509	0	0	0	0	0	0	0	0	0	0	0	0
4708702835	Pennzoil Company	1982	665	0	0	0	0	0	0	0	0	0	0	0	0
4708702835	Pennzoil Company	1983	829	0	0	0	0	0	0	0	0	0	0	0	0
4708702835	Pennzoil Company	1984	1,029	0	0	0	0	0	0	0	0	0	0	0	0
4708702835	Pennzoil Products Company	1989	2,408	273	245	261	210	208	174	205	196	160	151	163	162
4708702835	Pennzoil Products Company	1990	1,252	140	97	278	200	93	68	81	84	75	66	64	16
4708702835	Pennzoil Products Company	1991	528	10	99	103	25	28	38	38	39	26	27	71	24
4708702835	Pennzoil Products Company	1992	351	24	23	25	62	48	26	19	27	25	26	22	24
4708702835	Pennzoil Products Company	1993	203	27	24	25	0	23	27	20	6	4	15	16	16
4708702835	Pennzoil Products Company	1994	215	13	15	15	15	14	13	14	14	14	15	15	58
4708702835	Pennzoil Products Company	1995	123	68	55	0	0	0	0	0	0	0	0	0	0
4708702835	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702835	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708702835	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708702835	Triad Resources, Inc.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702835	Triad Resources, Inc.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702835	Triad Resources, Inc.	2006	412	23	33	35	42	22	28	35	32	45	32	39	46
4708702835	Triad Resources, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702835	Triad Resources, Inc.	2008	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702835	Triad Resources, Inc.	2009	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702835	Triad Hunter LLC	2010	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702835	Triad Hunter LLC	2011	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702835	Triad Hunter LLC	2012	3	0	0	0	0	0	0	0	0	0	0	0	3
4708702835	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702835	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702835	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702835	Triad Hunter LLC	2016	0												

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702835	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702835	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702835	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702835	Triad Hunter LLC	2016	0												

Production Water Information: (Volumes in Gallons)

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702835	Triad Hunter LLC	2016	0												

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708702835	Original Loc	Cow Run (undiff)	Well Record	500	Reasonable	8	Reasonable	920	Topo Estimation
4708702835	Original Loc	Homewd Ss/2n Cow Run	Well Record	565	Reasonable	137	Reasonable	920	Topo Estimation
4708702835	Original Loc	1st Salt Sand	Well Record	1224	Reasonable	80	Reasonable	920	Topo Estimation
4708702835	Original Loc	2nd Salt Sand	Well Record	1310	Reasonable	80	Reasonable	920	Topo Estimation
4708702835	Original Loc	3rd Salt Sand	Well Record	1415	Reasonable	275	Reasonable	920	Topo Estimation
4708702835	Original Loc	Maxton	Well Record	1719	Reasonable	26	Reasonable	920	Topo Estimation
4708702835	Original Loc	Little Lime	Well Record	1745	Reasonable	35	Reasonable	920	Topo Estimation
4708702835	Original Loc	Pencil Cave	Well Record	1785	Reasonable	33	Reasonable	920	Topo Estimation
4708702835	Original Loc	Big Lime	Well Record	1818	Reasonable	105	Reasonable	920	Topo Estimation
4708702835	Original Loc	Big Injun (Price&eq)	Well Record	1923	Reasonable	30	Reasonable	920	Topo Estimation
4708702835	Original Loc	Undf PRICE blw INJN	Well Record	1953	Reasonable	0	Reasonable	920	Topo Estimation

There is no Wireline (E-Log) data for this well

There is no Plugging data for this well

There is no Sample data for this well

☐ Proposed

☒ As is

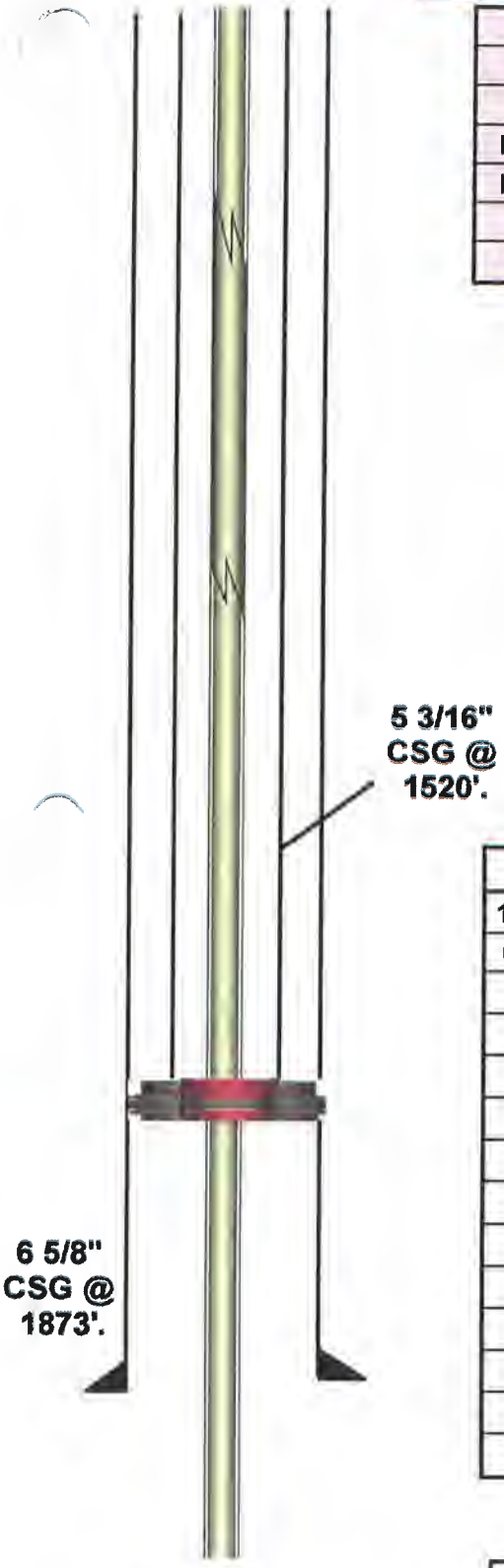
P.A.TALLMAN # 23- 47- 087 - 2835
SMITHFIELD DIST., ROANE CO., W.V.
FIELD : TARIFF.

	Size	Wt.	Grde	Thrd	Depth	Sks/Cmt
CONDUCTOR	10"	N/A	N/A	N/A	108'	PULLED
SURFACE	8 1/4"	N/A	N/A	N/A	640'	PULLED
INTERMEDIATE	6 5/8"	N/A	N/A	N/A	1873'	
INTERMEDIATE	5 3/16"	N/A	N/A	N/A	1520'	
TUBING	2 "	N/A		N/A	1997'	PULLED
TUBING	2 3/8"					

Perforation Information
BIG INJUN : Shotholes from 1926' - 1946'.

Casing and Tubing Information
10" CSG set @ 108', PULLED .
8 1/4" CSG set @ 640', PULLED .
6 5/8" CSG set @ 1873'.
5 3/16" CSG set @ 1520' on a disc wall packer.
2 " TBG set @ 1997', PULLED.
2 3/8" TBG set @ 2011'.

Date	Work-Over Information
12/19/11	The Big Injun Formation was shot with 20 qts .
6/17/37	The Big Injun Formation was shot with 40 qts from 1926' - 1946'.
1/31/40	The Big Injun Formation was shot with 90 qts from 1936' - 1946'.
	NO LOGS



Shotholes from 1926'- 1946'.

Well T.D. 1957'

PREPARED BY:Babaji Chitturi

DATE: 08/08/2002

2835

WELL NO. 23 (10) NAME Sullivan P.O. LEASE NO. 5718 ACRES 2351 N. S. 57 E. W. 38 DISTRICT SPENCER

District or Town Smithfield
County Doddridge
State W. Va.
Commenced 10/25/11
Completed 12/3/11
Contractor Cody & Miller
Purchased From Centralia Co. $ 1.15 Per Foot
Date Purchased 1-1-26
Date Connected
Sold To
Date Sold
Date Plugged
Date Abandoned

CASING AND TUBING

Size	Put in Well	Left in Well	Pulled
13 in. Casing			
10 in. Casing	108		108
Casing	640		640
Casing	1833	1833	
6½ in. Casing			
5½ in. Casing 4-10-40	1520	1520	
4½ in. Casing			
2 in. Tubing	1947	1947	1947
1 in. Tubing	1945	1947	1945
in. Tubing			

SHOOTING

Date	Qts.	Sand	Depth	Shot Before	Shot After
12-19-11	20	Sand			
6-17-37	40	"			
1-21-40	90	"	1955 1957		

Initial Oil Production 10 bbls.
Initial Open Flow

RECORD

Elevation at Mouth of Well

Formation	Top	Bottom	Thickness	Oil at	Gas at	Water at	Thickness of Pay
Pittsburgh Coal							
Red Rock Cave	215	318	103				
Cow Run (First)	500	508	8				
Cow Run (Second)	565	702	137				
Salt Sand (Upper)	1224	1304	80				
Salt Sand (Middle)	1310	1390	80				
Salt Sand (Lower)	1415	1690	275			salt 1450	
Maxon	1719	1745	26				
Little Lime	1745	1780	35				
Pencil Cave	1785	1818	33				
Big Lime	1818	1923	105				
Keener Sand							
Injun Sand	1923	1953	30	1925			22
Squaw Sand							
Weir Sand							
Berea Sand							
Gantz Sand							
Fifty Foot Sand							
Thirty Foot Sand							
Gordon Stray							
Gordon Sand							
Fourth Sand							
Fifth Sand							
Corniferous Lime							
Niagara Lime							
Cave							
Clinton							
Medina Shale							
Trenton							
Total Depth	1957						

Remarks

PACKERS

Size	Make	Set at
2 x 8	CCT	1922

"Pipeline"

Select County: (087) Roane

Enter Permit #: 2836

Get Data | Reset

Select datatypes: (Check All)

- Location
- Owner/Completion
- Pay/Show/Water
- Production
- Stratigraphy
- Logs
- Plugging
- Sample
- Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 2836

Report Time: Monday, May 18, 2020 11:10:00 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708702836	Roane	2836	Smithfield	Tariff	Otter	38.648021	-81.208541	481852.4	4277516.9

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	FRM_TRGT_FM	TFM_EST_FM
4708702836	1/25/1912	Original Loc	Completed	P A Tallman	25					Carter Oil			
4708702836	11/8/1937	Worked Over	Completed	P A Tallman	25					Pennzoil Company			
4708702836	5/2/2005	Plugging	Completed	L Combs	25				P A Tallman	Triad Resources, Inc.			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DRILLER	TD_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI
4708702836	1/25/1912	11/15/1911	970	Topo Estimation	Tariff(Timn)	Big Injun (Price&eq)		Big Injun (Price&eq)	Development Well	Development Well	Oil	Cable Tool	Shot	2080		2080		0	0	5	16			0	0	0	
4708702836	11/8/1937	-/-/-	970	Topo Estimation	Tariff(Timn)	Big Injun (Price&eq)		Big Injun (Price&eq)	Development Well	Development Well	Oil	unknown	Shot	2080		0		0	0	12	230			0	0	0	
4708702836	5/2/2005	-/-/-	1020	Ground Level					unclassified	unclassified	not available	unknown	UnFlnWlStm														

Pay/Show/Water Information:

API	CMP_DT	AUTHRTY	PRODUCT	DIRECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708702836	11/8/1937	Pay	Oil	Vertical			0	Big Injun (Price&eq)	12	230			
4708702836	1/25/1912	Pay	Oil	Vertical	2058	Big Injun (Price&eq)	2078	Big Injun (Price&eq)	5	16			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702836	Pennzoil Company	1981	1,118	0	0	0	0	0	0	0	0	0	0	0	0
4708702836	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708702836	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708702836	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702836	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702836	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702836	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708702836	Triad Resources, Inc.	2003	84	8	6	7	2	7	8	4	4	7	4	5	2
4708702836	Triad Resources, Inc.	2004	88	6	5	8	9	9	11	8	9	11	8	4	0
4708702836	Triad Resources, Inc.	2005	5	5	0	0	0	0	0	0	0	0	0	0	0
4708702836	Triad Resources, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702836	Triad Resources, Inc.	2007	5	0	0	0	0	0	0	0	0	0	0	0	5
4708702836	Triad Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702836	Pennzoil Company	1981	509	0	0	0	0	0	0	0	0	0	0	0	0
4708702836	Pennzoil Company	1982	665	0	0	0	0	0	0	0	0	0	0	0	0
4708702836	Pennzoil Company	1983	629	0	0	0	0	0	0	0	0	0	0	0	0
4708702836	Pennzoil Company	1984	1,029	0	0	0	0	0	0	0	0	0	0	0	0
4708702836	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702836	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702836	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708702836	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708702836	Triad Resources, Inc.	2004	329	31	31	31	31	30	30	22	28	24	23	21	27
4708702836	Triad Resources, Inc.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702836	Triad Resources, Inc.	2006	5	0	5	0	0	0	0	0	0	0	0	0	0
4708702836	Triad Resources, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702836	Triad Resources, Inc.	2008	2	0	0	0	0	0	0	0	0	0	0	0	2

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708702836	Original Loc	Cow Run (undiff)	Well Record	588	Reasonable	47	Reasonable	970	Topo Estimation
4708702836	Original Loc	Homewd Se/2n Cow Run	Well Record	685	Reasonable	150	Reasonable	970	Topo Estimation
4708702836	Original Loc	1st Salt Sand	Well Record	1370	Reasonable	54	Reasonable	970	Topo Estimation
4708702836	Original Loc	2nd Salt Sand	Well Record	1480	Reasonable	30	Reasonable	970	Topo Estimation
4708702836	Original Loc	3rd Salt Sand	Well Record	1545	Reasonable	285	Reasonable	970	Topo Estimation
4708702836	Original Loc	Maxton	Well Record	1840	Reasonable	35	Reasonable	970	Topo Estimation
4708702836	Original Loc	Little Lime	Well Record	1880	Reasonable	36	Reasonable	970	Topo Estimation
4708702836	Original Loc	Pencil Cave	Well Record	1925	Reasonable	25	Reasonable	970	Topo Estimation
4708702836	Original Loc	Big Lime	Well Record	1950	Reasonable	99	Reasonable	970	Topo Estimation
4708702836	Original Loc	Big Injun (Price&eq)	Well Record	2049	Reasonable	0	Reasonable	970	Topo Estimation

There is no Wireline (E-Log) data for this well

2836

2836

P[illegible] Information:

	PLG	TH_PBT
47087		0

There is no Sample data for this well

WELL NO. 23 NAME Tallman P.A. LEASE NO. 544 ACRES 235.0 N. 0.55 E. W. 3 DISTRICT SPENCER

District or Town Smithfield
County Ohio
State W. Va.
Commenced 11/15/11
Completed 1/25/12
Contractor Clay & Miller
Purchased From Central Co. 0.1.15 Per Foot
Date Purchased 1-1-26
Date Connected
Sold To
Date Sold
Date Plugged
Date Abandoned

CASING AND TUBING

Size	Put in Well	Left in Well	Pulled
13 in. Casing			
10 in. Casing	18.22		18.22
8¼ in. Casing	77.0	20.4	56.6
6⅝ in. Casing	1951	1951	
6¼ in. Casing			
5⅜ in. Casing			
4½ in. Casing			
2 in. Tubing	2070	2070	
7/8 in. Tubing	2069		
in. Tubing			

SHOOTING

Date	Qts.	Sand	Depth	Pressure Before	Pressure After
1-12-12	20	1		1541	1550
11-8-37	90	Lower		1610 lbs	2060 lbs

Initial Oil Production nil bbl.

RECORD

Elevation at Mouth of Well 6

Formation	Top	Bottom	Thickness	Oil at	Gas at	Water at	Thickness of Pay
Pittsburgh Coal							
Big Dock Cave	350	430	80				
Cow Run (First)	588	635	47				
Cow Run (Second)	685	835	150				
Salt Sand (Upper)	1370	1424	54				
Salt Sand (Middle)	1480	1510	30				
Salt Sand (Lower)	1545	1830	285			well 1630	
Maxon	1840	1875	35				
Little Lime	1880	1916	36				
Pencil Cave	1925	1950	25				
Big Lime	1950	2049	99				
Keener Sand							
Injun Sand	2049	2080	31	2058			20
Squaw Sand							
Weir Sand							
Berea Sand							
Gantz Sand							
Fifty Foot Sand							
Thirty Foot Sand							
Gordon Stray							
Gordon Sand							
Fourth Sand							
Fifth Sand							
Carniferous Lime							
Niagara Lime							
Cave							
Clinton							
Medina Shale							
Trenton							
Total Depth	2080						

Remarks 718 cubic feet

PACKERS

Size	Make	Set at
6⅝	Cell	Little Lime

2836

2836

WR-38
DATE:

API # 47-87-2836-P

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the **Well Operator** and the third copy (and extra copies if required) should be mailed to each coal operator at **their respective addresses.**

Farm name: Combs, Larry Operator Well No.: Tallman #25

LOCATION: Elevation: 1020' Quadrangle: Tariff
District: Smithfield County: Boone
Latitude: _____ Feet South of ____ Deg. ____ Min. ____ Sec.
Longitude: _____ Feet West of ____ Deg. ____ Min. ____ Sec.

RECEIVED
Office of Oil & Gas
JUN 2 8 2006
WV Department of
Environmental Protection

Well Type: OIL ____ GAS X

Company: Triad Reasources
5669 Walback Rd.
Walback, WV 25285

Coal Operator or Owner _____

Coal Operator or Owner _____

Agent: Mike Horn

Permit Issued Date: 11/09/05

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of _____ ss:

Rick Duckworth and Rick Ross being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well, and Eddie Gainer Oil andGas Inspector representing the Director, say that said work was commenced on the 21 day of April, 19 06 and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement	2080'	1980'	1985' of 5"	64' of 5"
Cement	1100'	1000'	320' of 7"	1631' of 7"
Cement	350'	250'		
Cement	100'	0'		
Gel between all plugs.				

Description of monument: 7" casing with API numbers. and that the work of plugging and filling said well was completed on the 2 day of May, 19 05.

And furthur deponents saith not. Rick Duckworth
Rick Ross

Sworn and subscribe before me this 23 day of June, 19 2006
My commission expires: Aug 28 2008
Melody Dawn Hamrick
Notary Public

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
MELODY DAWN HAMRICK

al Mahfuntz 6-28-06

"Pipeline"

Select County: (087) Roane

Enter Permit #: 2837

Get Data | Reset

Select datatypes: (Check All)

- Location
- Owner/Completion
- Pay/Show/Water
- Production
- Stratigraphy
- Logs
- Plugging
- Sample
- Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Number Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 87 Permit = 2837

Report Time: Monday, May 18, 2020 11:12:42 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_NAME	QUAD_14	LAT_DD	LON_DD	UTME	UTMN
4708702837	Roane	2837	Smithfield	Tariff	Otter	38.64428	-81.214644	481320.9	4277325

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_TD	PROP_TEST_FM	TFM_EST_PR
4708702837	1/19/1912	Original Loc	Completed	P A Tallman	26					Cody & Miller			
4708702837	12/14/1983	Worked Over	Completed	P A Tallman	26-F					Pennzoil Company			
4708702837	12/15/1985	Worked Over	Completed	[illegible]	26					Pennzoil [illegible]			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	TMSD	DEPTH	PRODUCTIVE_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI
4708702837	1/19/1912	11/23/1911	1122	Ground Level	Tariff(Timn)	[illegible]	Big Injun (Price&eq)	Big Injun (Price&eq)	Development Well	Development Well	Oil	unknown	Shot	2151	2151		0	0	0	0	10			0	0	0	
4708702837	12/14/1983	12/14/1983	1122	Ground Level	Tariff(Timn)	[illegible]	Big Injun (Price&eq)	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	unknown	Fractured	2151		0	0	12	0	18				0	0	0	
4708702837	12/15/1985	12/15/1985	1122	Ground Level	Tariff(Timn)	[illegible]	Big Injun (Price&eq)	Big Injun (Price&eq)	Development Well	Development Well	Oil	unknown	Fractured	2151		0	0	0	0	5	6			0	0	0	

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	SERVICE	TOP	BOTTOM	DEPTH_BOT	PB_BOT	G_BEF	G_AFT	O_BEF	O_AFT	PAYBE_SRTT
4708702837	1/19/1912	Pay	Oil	Vertical		2125		2148	Big Injun (Price&eq)	0	10			
4708702837	12/14/1983	Show	Gas	Vertical		2114		2149	Big Injun (Price&eq)	0	12			
4708702837	12/14/1983	Pay	Oil	Vertical		2114		2149	Big Injun (Price&eq)	0	18			
4708702837	12/15/1985	Pay	Oil	Vertical		2114		2149	Big Injun (Price&eq)	5	6			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PROD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708702837	Pennzoil Company	1981	1,118	0	0	0	0	0	0	0	0	0	0	0	0
4708702837	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708702837	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708702837	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702837	Pennzoil Products Company	1989	432	10	21	38	24	42	40	0	62	88	57	0	50
4708702837	Pennzoil Products Company	1990	689	41	33	62	45	13	93	65	69	130	11	64	63
4708702837	Pennzoil Products Company	1991	778	82	94	52	47	68	55	45	70	84	80	50	51
4708702837	Pennzoil Products Company	1992	475	38	20	17	25	34	28	57	65	48	49	54	44
4708702837	Pennzoil Products Company	1993	509	34	54	59	43	29	42	34	31	24	32	68	59
4708702837	Pennzoil Products Company	1994	356	48	28	9	30	19	19	51	24	23	14	55	38
4708702837	Pennzoil Products Company	1995	183	20	13	7	10	9	7	7	21	28	21	22	18
4708702837	Pennzoil Products Company	1996	94	9	7	6	4	6	5	4	9	18	6	9	11
4708702837	Pennzoil Products Company	1997	40	5	6	5	3	7	11	3	0	0	0	0	0
4708702837	Pennzoil Products Company	1998	88	0	0	9	10	6	11	8	10	12	22	0	0
4708702837	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708702837	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708702837	Triad Resources, Inc.	2004	88	6	5	8	9	9	11	8	9	11	8	4	0
4708702837	Triad Resources, Inc.	2005	101	9	5	12	2	3	7	8	12	10	12	12	9
4708702837	Triad Resources, Inc.	2006	93	10	7	7	6	8	8	8	8	8	8	8	7
4708702837	Triad Resources, Inc.	2007	62	8	7	7	5	2	2	6	6	6	4	5	4
4708702837	Triad Resources, Inc.	2008	72	5	4	4	4	3	5	4	3	7	8	11	14
4708702837	Triad Resources, Inc.	2009	33	8	3	3	3	5	5	3	0	0	1	1	1
4708702837	Triad Hunter LLC	2010	39	6	2	3	3	3	5	5	4	3	3	2	0
4708702837	Triad Hunter LLC	2011	11	1	1	1	1	0	3	1	1	1	1	0	0
4708702837	Triad Hunter LLC	2012	15	1	1	1	2	2	2	1	2	2	1	0	0
4708702837	Triad Hunter LLC	2013	12	1	1	1	1	1	1	1	1	1	1	1	1
4708702837	Triad Hunter LLC	2014	8	1	1	1	0	1	0	1	0	1	1	1	0
4708702837	Triad Hunter LLC	2015	6	0	0	0	1	3	1	1	0	0	0	0	0
4708702837	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702837	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702837	Ground Resources, LLC	2018	8	0	0	0	0	0	0	0	0	0	0	0	8

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PROD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708702837	Pennzoil Company	1981	509	0	0	0	0	0	0	0	0	0	0	0	0
4708702837	Pennzoil Company	1982	685	0	0	0	0	0	0	0	0	0	0	0	0
4708702837	Pennzoil Company	1983	628	0	0	0	0	0	0	0	0	0	0	0	0
4708702837	Pennzoil Company	1984	1,029	0	0	0	0	0	0	0	0	0	0	0	0
4708702837	Pennzoil Products Company	1989	1,860	111	151	168	126	163	169	192	167	117	184	142	170
4708702837	Pennzoil Products Company	1990	2,327	188	149	97	222	184	214	230	193	178	181	217	276
4708702837	Pennzoil Products Company	1991	2,021	160	158	190	143	127	191	233	239	189	174	134	103
4708702837	Pennzoil Products Company	1992	1,743	101	136	144	107	181	173	134	145	181	146	118	197
4708702837	Pennzoil Products Company	1993	1,529	203	137	95	116	95	99	86	82	210	172	135	99
4708702837	Pennzoil Products Company	1994	1,258	43	134	104	71	184	94	122	68	160	135	87	86
4708702837	Pennzoil Products Company	1995	1,434	98	78	126	88	100	137	194	123	117	143	99	131
4708702837	Pennzoil Products Company	1996	1,083	110	77	97	70	76	111	99	60	69	91	105	118
4708702837	Pennzoil Products Company	1997	377	72	53	104	105	43	0	0	0	0	0	0	0
4708702837	Pennzoil Products Company	1998	825	60	92	85	102	65	84	99	111	101	26	0	0

2837

4708702837	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708702837	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708702837	Triad Resources, Inc.	2004	329	31	31	31	31	30	30	22	28	24	23	21	27
4708702837	Triad Resources, Inc.	2005	406	36	24	27	32	27	41	32	32	37	48	39	31
4708702837	Triad Resources, Inc.	2006	412	23	33	35	42	22	28	35	32	45	32	39	46
4708702837	Triad Resources, Inc.	2007	483	39	46	31	53	38	45	39	42	35	38	36	40
4708702837	Triad Resources, Inc.	2008	498	38	52	26	47	34	23	41	42	58	52	33	52
4708702837	Triad Resources, Inc.	2009	326	13	0	30	46	39	31	28	27	23	35	31	24
4708702837	Triad Hunter LLC	2010	160	34	5	26	5	5	30	5	5	33	5	7	0
4708702837	Triad Hunter LLC	2011	325	24	32	27	23	26	27	26	27	28	30	32	21
4708702837	Triad Hunter LLC	2012	278	16	21	18	13	23	34	12	36	26	28	22	29
4708702837	Triad Hunter LLC	2013	291	27	26	32	22	27	31	16	23	17	19	23	26
4708702837	Triad Hunter LLC	2014	270	20	18	23	23	24	21	19	28	24	20	24	26
4708702837	Triad Hunter LLC	2015	226	25	14	10	24	19	25	19	9	20	14	33	14
4708702837	Triad Hunter LLC	2016	216					33	22	24	33	23	33	26	22
4708702837	Ground Resources, LLC	2017	329	33	17	31	31	26	28	30	22	26	36	26	22
4708702837	Ground Resources, LLC	2018	312	19	23	22	29	27	29	21	24	21	37	31	29

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_VOL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702837	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702837	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702837	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702837	Triad Hunter LLC	2016	0												
4708702837	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2018 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702837	Triad Hunter LLC	2016	0												
4708702837	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SOURCE	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708702837	Original Loc	Buffalo Sa/1st Cow Rn	Well Record	615	Reasonable	19	Reasonable	1122	Ground Level
4708702837	Original Loc	Lo Frprt Sa/Frprt Se	Well Record	775	Reasonable	125	Reasonable	1122	Ground Level
4708702837	Original Loc	unidentified coal	Well Record	1415	Reasonable	5	Reasonable	1122	Ground Level
4708702837	Original Loc	1st Salt Sand	Well Record	1435	Reasonable	35	Reasonable	1122	Ground Level
4708702837	Original Loc	2nd Salt Sand	Well Record	1530	Reasonable	30	Reasonable	1122	Ground Level
4708702837	Original Loc	3rd Salt Sand	Well Record	1600	Reasonable	310	Reasonable	1122	Ground Level
4708702837	Original Loc	Maxton	Well Record	1910	Reasonable	50	Reasonable	1122	Ground Level
4708702837	Original Loc	Little Lime	Well Record	1961	Reasonable	28	Reasonable	1122	Ground Level
4708702837	Original Loc	Pencil Cave	Well Record	1989	Reasonable	10	Reasonable	1122	Ground Level
4708702837	Original Loc	Greenbrier Group	Well Record	2009	Reasonable	140	Reasonable	1122	Ground Level
4708702837	Original Loc	Big Lime	Well Record	2009	Reasonable	105	Reasonable	1122	Ground Level
4708702837	Original Loc	Keener	Well Record	2114	Reasonable	0	Cable Pick	1122	Ground Level

Wireline (E-Log) Information:

API	TOP_TYP	TOP_TOP	LOG_BOT	DEEPEST_FRM	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708702837		1400	2120		G C *	Y	N		1400	2120										1400	2120	N	Y	N						

Comment: *logs: caliper, CCL

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708702837geo.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

2837

087-2837-Frac

2837

Lease No. Acres 2350 Farm Name P.A.Tollman H.No.1771 Well No. 26

N. S. 55 E. W. 35

Oil District Smithfield

County Roane

State W.Va.

GAS OIL Rights Owned By

Location Made.

Rig Completed

Dr'g Commenced 11-23-11

Dr'g Completed 1-19-12

Dr'g Contractor Cody & Miller

Purchased From H.C.&R.

Date Purchased 3-1-43

Sold To

Date Sold

Date Abandoned

FORMATION

Kind	Top	Bottom	Steel Line Meas.	Tests
Red Rock Cove	350	455		
Cow Run 1st.	615	634		
Cow Run 2nd.	775	900		
Coal	1415	1420		
1st. Salt	1435	1470	54	
2nd. Salt	1530	1560	54	
3rd. Salt	1600	1910	54	
Salt Water	1675			
Maxon	1910	1960		
Little Lime	1961	1989	153	
Pencil Cave	1999	2009		
Big Lime	2009	2114	105	
Keener	2114	2149		
Oil	2125	2148		
Total Depth		2151		

CASING RECORD

Size	Bottom Casing Steel Line	Put in Well Tally Meas.	Pulled Tally Meas.	Cemented
10"		205	127	Date
8-1/4"		835	835	Size Csg.
6-5/8"		2011		Top "
2"Tbg.		2141		Bot. "
* 4-1/2"		2111		

PACKERS AND SHOES

Kind	Size	Depth Set	Date Set
Tension			

TORPEDO RECORD

Date	No. Qts.	Size Shell	Top Shot	Bottom	Results
1-12-12	20				
3-16-38	90	3"	2125	2147	Bomb

RECEIVED
3-28-1983
NOV 1 1983
OIL & GAS DIVISION
DEPT. OF MINES

* Put in 4-1/2" casing in 1982

DRILLING DEEPER

Commenced	Completed	Original Depth	Final Depth	Contractor

ABANDONMENT RECORD

Filled With	From	To	PLUG Size	PLUG Kind	PLUG Dep

Initial Prod.	Sand	★ At Completion	★ 30 Days After	★
Oil				
Gas	Keener	10-Bbl.		@

APPROVED

ROANE 2837-FRAC

WR-35

RECEIVED
DEPARTMENT OF ENERGY
OIL AND GAS

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

FEB 13 1986

Date February 10, 1986
Operator's
Well No. 26
Farm P. A. Tallman
API No. 47 - 087 - 2837-F

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil X / Gas ___ / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production ___ / Underground Storage ___ / Deep ___ / Shallow ___ /)

LOCATION: Elevation: 1122.05' Watershed Trace Fork
District: Smithfield County Roane Quadrangle Tariff 7.5'

COMPANY Pennzoil Company
ADDRESS P.O. Box 1588, Parkersburg, W.Va. 26102
DESIGNATED AGENT James A. Crews
ADDRESS P.O. Box 1588, Parkersburg, WV
SURFACE OWNER Pennzoil Company
ADDRESS p.O. Box 1588, Parkersburg, WV
MINERAL RIGHTS OWNER Anna Lee Collins
ADDRESS 1009 Main Street, Pt. Pleasant WV
OIL AND GAS INSPECTOR FOR THIS WORK Homer Dougherty ADDRESS Linden Rt., Box 3-A Looneyville, WV
PERMIT ISSUED 11-25-85
DRILLING COMMENCED
DRILLING COMPLETED 12-15-85
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8			
7			
5 1/2			
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Big Injun Depth ___ feet
Depth of completed well 2151 feet Rotary ___ / Cable Tools X
Water strata depth: Fresh n/a feet; Salt 1675 feet
Coal seam depths: ___ Is coal being mined in the area? no

OPEN FLOW DATA
Producing formation Big Injun Pay zone depth ___ feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow 6 Bbl/d
Final open flow ___ Mcf/d Final open flow 6 Bbl/d
Time of open flow between initial and final tests 24 hours
Static rock pressure N/A psig (surface measurement) after ___ hours shut in
(If applicable due to multiple completion--)
Second producing formation ___ Pay zone depth ___ feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow ___ Mcf/d Oil: Final open flow ___ Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure ___ psig (surface measurement) after ___ hours shut in

(Continue on reverse side)

ROANE 2837-FRAC

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Fractured: 12-15-85

Big Injun w/100 BGW; 700# 20/40 sd

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
See Original Well Record			

(Attach separate sheets as necessary)

Pennzoil Company
Well Operator

By: Curtis A. Lucas

Date: 2-11-86

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

"Pipeline"

Select County: (087) Roane

Enter Permit #: 2838

Get Data | Reset

Select datatypes: (Check All)

- Location
- Owner/Completion
- Pay/Show/Water
- Production
- Stratigraphy
- Logs
- Plugging
- Sample
- Btm Hole Loc

Table Descriptions
Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 2838

Report Time: Monday, May 18, 2020 11:23:47 PM

Location Information: View Map

API	COUNTY	PERMIT	QUAD_DIST	QUAD_TR	QUAD_TR	LAT_DD	LON_DD	UTME	UTMN
4708702838	Roane	2838	Smithfield	Tariff	Otter	38.84254	-81.209281	481787.2	4277130.8

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TMD	TFM_FM	TFM_EST_FM
4708702838	4/27/1912	Original Loc	Completed	P A Tallman	31					Carter Oil				
4708702838	5/16/1938	Worked Over	Completed	P A T	31					Pennzoil Company				

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AF
4708702838	4/27/1912	2/12/1912	1060	Topo Estimation	Tariff(Tinn)	Undf PRICE btw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	Cable Tool	Shot	2102	2102		0	0	0	3	5			0	0	
4708702838	5/16/1938	-/-/-	1060	Topo Estimation	Tariff(Tinn)	Undf PRICE btw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil and Gas	unknown	Shot	2102		0	0	0	0	0				0	0	

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DRILL_TOP	PB_TOP	DRILL_BOT	TM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708702838	5/16/1938	Pay	Oil & Gas	Vertical			0	Big Injun (Price&eq)	0	0			
4708702838	4/27/1912	Show	Gas	Vertical			2083	Big Injun (Price&eq)	0	0			
4708702838	4/27/1912	Pay	Oil	Vertical	2090	Big Injun Price&eq	2102	Big Injun (Price&eq)	3	5			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702838	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702838	Pennzoil Company	1982	1,176	0	0	0	0	0	0	0	0	0	0	0	0
4708702838	Pennzoil Company	1983	1,121	0	0	0	0	0	0	0	0	0	0	0	0
4708702838	Pennzoil Company	1984	1,273	0	0	0	0	0	0	0	0	0	0	0	0
4708702838	Pennzoil Products Company	1989	3,440	329	444	382	284	407	330	0	429	253	250	0	332
4708702838	Pennzoil Products Company	1990	3,099	220	323	365	259	304	256	255	257	241	172	216	231
4708702838	Pennzoil Products Company	1991	1,942	178	182	171	141	194	172	183	148	155	160	128	132
4708702838	Pennzoil Products Company	1992	1,184	124	119	123	101	99	97	96	94	91	87	81	73
4708702838	Pennzoil Products Company	1993	885	72	67	63	55	64	57	56	56	52	50	43	50
4708702838	Pennzoil Products Company	1994	710	35	46	63	59	50	54	55	61	63	78	71	75
4708702838	Pennzoil Products Company	1995	958	78	75	77	71	85	78	80	89	87	87	77	74
4708702838	Pennzoil Products Company	1996	762	18	3	71	71	74	68	76	80	68	86	71	76
4708702838	Pennzoil Products Company	1997	880	65	79	73	58	70	68	69	75	76	85	78	84
4708702838	Pennzoil Products Company	1998	590	71	69	71	55	66	61	53	17	65	62	0	0
4708702838	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708702838	Triad Resources, Inc.	2002	363	0	0	0	59	45	39	38	16	0	0	0	166
4708702838	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708702838	Triad Resources, Inc.	2004	260	21	29	23	31	10	13	37	21	22	19	34	0
4708702838	Triad Resources, Inc.	2005	833	38	25	61	35	16	22	62	104	147	125	87	111
4708702838	Triad Resources, Inc.	2006	794	91	79	67	65	63	44	39	55	70	72	81	68
4708702838	Triad Resources, Inc.	2007	1,287	81	68	73	56	69	81	139	140	147	152	156	125
4708702838	Triad Resources, Inc.	2008	462	29	22	23	15	28	33	41	129	93	8	15	26
4708702838	Triad Resources, Inc.	2009	141	10	8	17	21	31	39	14	1	0	0	0	0
4708702838	Triad Hunter LLC	2010	2,466	18	120	293	270	304	287	267	277	153	247	210	0
4708702838	Triad Hunter LLC	2011	1,325	128	107	130	137	138	163	127	118	105	90	84	0
4708702838	Triad Hunter LLC	2012	278	49	22	21	27	31	31	14	30	36	17	0	0
4708702838	Triad Hunter LLC	2013	175	12	12	13	3	7	12	15	24	19	15	20	23
4708702838	Triad Hunter LLC	2014	219	35	23	10	4	18	21	20	29	25	23	9	2
4708702838	Triad Hunter LLC	2015	59	1	0	0	12	36	10	0	0	0	0	0	0
4708702838	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702838	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702838	Ground Resources, LLC	2018	135	2	40	9	41	0	0	0	0	0	0	0	25

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702838	Pennzoil Company	1981	20	0	0	0	0	0	0	0	0	0	0	0	0
4708702838	Pennzoil Company	1982	13	0	0	0	0	0	0	0	0	0	0	0	0
4708702838	Pennzoil Company	1983	18	0	0	0	0	0	0	0	0	0	0	0	0
4708702838	Pennzoil Company	1984	14	0	0	0	0	0	0	0	0	0	0	0	0
4708702838	Pennzoil Products Company	1989	267	5	13	25	8	9	17	15	35	14	39	25	62
4708702838	Pennzoil Products Company	1990	724	56	60	50	45	67	45	62	46	75	82	70	66
4708702838	Pennzoil Products Company	1991	924	77	64	74	72	77	75	73	85	80	85	78	84
4708702838	Pennzoil Products Company	1992	1,063	89	78	89	86	86	88	94	100	78	91	93	91
4708702838	Pennzoil Products Company	1993	1,161	93	84	88	96	109	101	97	110	102	101	84	96
4708702838	Pennzoil Products Company	1994	1,248	79	123	96	104	93	103	96	84	120	124	107	119
4708702838	Pennzoil Products Company	1995	1,031	93	110	110	94	111	104	104	104	97	104	0	0
4708702838	Pennzoil Products Company	1996	1,306	145	116	117	104	110	94	75	133	97	123	100	92
4708702838	Pennzoil Products Company	1997	1,181	94	108	110	97	94	111	91	92	98	100	91	95
4708702838	Pennzoil Products Company	1998	972	100	86	91	94	76	116	98	103	111	97	0	0
4708702838	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708702838	Triad Resources, Inc.	2002	496	0	0	0	86	75	78	82	0	0	151	0	24

2838

4708702838	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708702838	Triad Resources, Inc.	2004	881	82	0	77	80	83	87	74	78	0	80	158	82
4708702838	Triad Resources, Inc.	2005	799	79	0	80	70	76	78	78	72	49	80	82	55
4708702838	Triad Resources, Inc.	2006	712	0	86	0	82	78	75	0	81	78	77	76	79
4708702838	Triad Resources, Inc.	2007	794	76	79	76	0	80	77	81	77	0	76	81	91
4708702838	Triad Resources, Inc.	2008	557	1	75	80	3	77	78	0	78	82	7	30	46
4708702838	Triad Resources, Inc.	2009	646	0	93	75	0	74	81	0	82	83	0	79	79
4708702838	Triad Hunter LLC	2010	566	0	83	77	77	0	83	79	0	84	83	0	0
4708702838	Triad Hunter LLC	2011	559	0	84	77	0	83	0	80	77	0	77	0	81
4708702838	Triad Hunter LLC	2012	485	0	81	77	0	83	0	82	0	78	0	84	0
4708702838	Triad Hunter LLC	2013	484	80	0	84	0	0	86	0	81	83	0	80	0
4708702838	Triad Hunter LLC	2014	522	78	0	80	0	84	0	0	79	81	0	80	40
4708702838	Triad Hunter LLC	2015	233	0	0	74	77	0	82	0	0	0	0	0	0
4708702838	Triad Hunter LLC	2016	0												
4708702838	Ground Resources, LLC	2017	469	24	36	52	40	35	42	33	45	40	52	34	36
4708702838	Ground Resources, LLC	2018	[illegible]	[illegible]	[illegible]	[illegible]	3	[illegible]	38	[illegible]	49	[illegible]	4	[illegible]	[illegible]

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708702838	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702838	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702838	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702838	Triad Hunter LLC	2016	0												
4708702838	Ground Resources, LLC	2018	[illegible]	[illegible]	[illegible]	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708702838	Triad Hunter LLC	2016	0												
4708702838	Ground Resources, LLC	2018	[illegible]	0	0	0	0	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	0	[illegible]

Stratigraphy Information:

API	Origin	Fm	Fm_Quality	Depth_Top	Depth_Quality	Thickness	Thickness_Quality	Elev	Datum
4708702838	Original Loc	Cow Run (undiff)	Well Record	635	Reasonable	50	Reasonable	1060	Topo Estimation
4708702838	Original Loc	Homewd Sa/Zn Cow Run	Well Record	715	Reasonable	145	Reasonable	1060	Topo Estimation
4708702838	Original Loc	1st Salt Sand	Well Record	1305	Reasonable	63	Reasonable	1060	Topo Estimation
4708702838	Original Loc	2nd Salt Sand	Well Record	1480	Reasonable	52	Reasonable	1060	Topo Estimation
4708702838	Original Loc	3rd Salt Sand	Well Record	1535	Reasonable	275	Reasonable	1060	Topo Estimation
4708702838	Original Loc	Maxton	Well Record	1830	Reasonable	70	Reasonable	1060	Topo Estimation
4708702838	Original Loc	Little Lime	Well Record	1910	Reasonable	27	Reasonable	1060	Topo Estimation
4708702838	Original Loc	Pencil Cave	Well Record	1950	Reasonable	20	Reasonable	1060	Topo Estimation
4708702838	Original Loc	Big Lime	Well Record	1970	Reasonable	102	Reasonable	1060	Topo Estimation
4708702838	Original Loc	Big Injun (Price&eq)	Well Record	2072	Reasonable	29	Reasonable	1060	Topo Estimation
4708702838	Original Loc	Undf PRICE btw INJN	Well Record	[illegible]	Reasonable	0	Reasonable	1060	Topo Estimation

There is no Wireline (E-Log) data for this well

There is no Plugging data for this well

There is no Sample data for this well

2838

WELL NO. 3786 NAME Dillon (Gal) LEASE NO. 3740 ACRES 235 N. S. 55 E. W. 25 DISTRICT SPENCER

District or Twp.	Springfield
County	Ritchie
State	W. Va.
Commenced	4-9-12
Completed	4-22-12
Contractor	Cay Miller
Purchased From	Carter Oil Co.
Date Purchased	4-17-26
Date Connected	
Sold To	
Date Sold	
Date Plugged	
Date Abandoned	

Per Foot

CASING AND TUBING

Size	Put in Well	Left in Well	Pulled
13 in. Casing			
10 in. Casing	20.5	20.5	
8¼ in. Casing	72.5	72.5	
6⅝ in. Casing	197.3	197.3	
6¼ in. Casing			
5⅜ in. Casing			
4½ in. Casing			
2 in. Tubing	2092	2091 ~~2092~~	2092
2 in. Tubing	2091		
in. Tubing			

SHOOTING

Date	Qts.	Sand	Depth	Test Before	Test After
4-9-12	20			2/10	5/10
5-16-35	90	Bryson	1973-2111		

Initial Oil Production 5 bbls

RECORD

Elevation at Mouth of Well

Formation	Top	Bottom	Thickness	Oil at	Gas at	Water at	Thickness of Pay
Pittsburgh Coal							
Red Rock Cave	295	390	95				
Cow Run (First)	635	685	50				
Cow Run (Second)	715	860	145				
Salt Sand (Upper)	1305	1368	63				
Salt Sand (Middle)	1480	1532	52				
Salt Sand (Lower)	1535	1810	275			1565	
Maxon	1830	1900	470				
Little Lime	1910	1937	27				
Pencil Cave	1950	1970	20				
Big Lime	1970	2072	102				
Keener Sand							
Injun Sand	2072	2101	29	2090	2083		oil 11
Squaw Sand							
Weir Sand							
Berea Sand							
Gantz Sand							
Fifty Foot Sand							
Thirty Foot Sand							
Gordon Stray							
Gordon Sand							
Fourth Sand							
Fifth Sand							
Corniferous Lime							
Niagara Lime							
Cave							
Clinton							
Medina Shale							
Trenton							
Total Depth	2102						

Remarks

PACKERS

Size	Make	Set at

2838

"Pipeline"

Select County: (087) Roane

Enter Permit #: 2839

Get Data | Reset

Select datatypes: (Check All)

- Location
- Owner/Completion
- Pay/Show/Water
- Production
- Stratigraphy
- Logs
- Plugging
- Sample
- Btm Hole Loc

Table Descri[illegible]s
Co[illegible] Code Translations
[illegible]ermit-Nu[illegible]beri[illegible] Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 2839

Report Time: Monday, May 18, 2020 11:26:31 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708702839	Roane	2839	Smithfield	Tariff	Otter	38.643555	-81.208541	481851.8	4277243.3

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	[illegible]	STATUS	SURFACE_OWNER	[illegible]_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERA[illegible]	[illegible]T_COMPLETION	PROP_VD	PROP_TRAT_FM	TYM_EST_P[illegible]
4708702839	4/20/1912	Original Loc	Completed	P A Tallman	32					Carter Oil				
4708702839	11/6/1918	Worked Over	Completed	P A Tallman	32					Carter Oil				
4708702839	8/9/1938	Worked Over	Completed	P A Tallman	32					Pennzoil Company				
4708[illegible]39	[illegible]	[illegible]	Completed	[illegible]	32					T[illegible] Resour[illegible]				

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	[illegible]	CMP_MTHD	TVD	[illegible]	NEW_FTD	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	[illegible]	[illegible]	[illegible]_AF
4708702839	4/20/1912	2/29/1912	970	Topo Estimation	Tariff(Timn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	Cable Tool	Shot	1982		1982		0	0	0	5			0	0	
4708702839	11/6/1918	-/-/-	970	Topo Estimation	Tariff(Timn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	unknown	Shot	1982		0		0	0	2	10			0	0	
4708702839	8/9/1938	-/-/-	970	Topo Estimation	Tariff(Timn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Gas w/ Oil Show	unknown	Shot	1982		0		11	86	0	0			0	0	
47[illegible]839	[illegible]005	4/21[illegible]05						un[illegible]ed	unc[illegible]	not available	[illegible]	[illegible]													

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708702839	11/6/1918	Pay	Oil	Vertical			1956	Big Injun (Price&eq)	2	10			
4708702839	4/20/1912	Show	Gas	Vertical			1956	Big Injun (Price&eq)	0	0			
4708702839	8/9/1938	Pay	Gas	Vertical	1956	Big Injun (Price&eq)	1980	Big Injun (Price&eq)	11	86			
4708702839	4/20/1912	Pay	Oil	Vertical	1969	Big Injun (Price&eq)	1980	Big Injun (Price&eq)	0	5			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708702839	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702839	Pennzoil Company	1982	1,176	0	0	0	0	0	0	0	0	0	0	0	0
4708702839	Pennzoil Company	1983	1,121	0	0	0	0	0	0	0	0	0	0	0	0
4708702839	Pennzoil Company	1984	1,273	0	0	0	0	0	0	0	0	0	0	0	0
4708702839	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702839	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702839	Triad Resources Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708702839	Pennzoil Company	1981	20	0	0	0	0	0	0	0	0	0	0	0	0
4708702839	Pennzoil Company	1982	13	0	0	0	0	0	0	0	0	0	0	0	0
4708702839	Pennzoil Company	1983	18	0	0	0	0	0	0	0	0	0	0	0	0
4708702839	Pennzoil Company	1984	15	0	0	0	0	0	0	0	0	0	0	0	0
4708702839	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702839	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702839	Triad Re[illegible] Inc.	2002	[illegible]	[illegible]	[illegible]	0	0	11	10	12	4	12	14	[illegible]	12

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708702839	Original Loc	Cow Run (undiff)	Well Record	485	Reasonable	45	Reasonable	970	Topo Estimation
4708702839	Original Loc	Homewd Sa/2n Cow Run	Well Record	575	Reasonable	125	Reasonable	970	Topo Estimation
4708702839	Original Loc	1st Salt Sand	Well Record	1170	Reasonable	50	Reasonable	970	Topo Estimation
4708702839	Original Loc	2nd Salt Sand	Well Record	1385	Reasonable	47	Reasonable	970	Topo Estimation
4708702839	Original Loc	3rd Salt Sand	Well Record	1450	Reasonable	283	Reasonable	970	Topo Estimation
4708702839	Original Loc	Maxton	Well Record	1735	Reasonable	40	Reasonable	970	Topo Estimation
4708702839	Original Loc	Little Lime	Well Record	1780	Reasonable	30	Reasonable	970	Topo Estimation
4708702839	Original Loc	Pencil Cave	Well Record	1814	Reasonable	31	Reasonable	970	Topo Estimation
4708702839	Original Loc	Big Lime	Well Record	1845	Reasonable	106	Reasonable	970	Topo Estimation
4708702839	Original Loc	Big Injun (Price&eq)	Well Record	1951	Reasonable	30	Reasonable	970	Topo Estimation
4708[illegible]839	[illegible] Loc	[illegible] PRICE blw INJN	[illegible]	[illegible]	[illegible]	[illegible]	Re[illegible]	[illegible]	To[illegible]on

There is no Wireline (E-Log) data for this well

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708702839	5/3/2005	0

There is no Sample data for this well

2839

2839

H.No.1777

Lease No. Acres 2350 Farm Name P. A. Tallman Well No. 32

8702839

N. S. 55 E. W. 35

Civil District Smithfield

County Roane

State W.Va.

GAS OIL Rights Owned By

Location Made

Rig Completed

Dr'g Commenced 2-29-12

Dr'g Completed 4-20-12

Dr'g Contractor Cody & Miller

Purchased From H.C.&R.

Date Purchased 3-1-43

Sold To

Date Sold

Date Abandoned

FORMATION

Kind	Top	Bottom	Steel Line Meas.	Tests
Red Rock Cave	160	260		
Cow Run 1st.	485	530		
Cow Run 2nd.	575	700		
1st. Salt	1170	1220		
2nd. Salt	1385	1432		
3rd. Salt	1450	1733		
Salt Water	1555			
Maxon	1735	1775		
Little Lime	1780	1810		
Pencil Cave	1814	1845		
Big Lime	1845	1951		
Big Injun	1951	1981		
Gas	1956			
Oil	1969	1980		
Total Depth		1982		

Initial Prod.	Sand	★ At Completion	★ 30 Days After	★
Oil	Injun	5-Bbl.		
Gas				

CASING RECORD

Size	Bottom Casing Steel Line	Put in Well Tally Meas.	Pulled Tally Meas.	Cemented
10"		160	160	Date
8-1/4"		660		Size Csg.
6-5/8"		1846		Top "
2"Tbg.		1972		Bot. "

PACKERS AND SHOES

Kind	Size	Depth Set	Date Set

TORPEDO RECORD

Date	No. Qts.	Size Shell	Top Shot	Bottom	Results
11-6-18	30		1956		
4-9-12	20				
8-9-38	,90	5"	1956	1980	Bomb

DRILLING DEEPER

Commenced	Completed	Original Depth	Final Depth	Contractor

ABANDONMENT RECORD

Filled With	From	To	PLUG Size	PLUG Kind	PLUG Dept

APPROVED

Su

2839

WR-38
DATE:

API # 47-87-02839-P

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: Castaldo,Roger Operator Well No.: Tallman 32

LOCATION: Elevation: _____ Quadrangle: _____
District: Smithfield County: Roane
Latitude: _____ Feet South of ____ Deg. ____ Min. ____ Sec.
Longitude: _____ Feet West of ____ Deg. ____ Min. ____ Sec.

RECEIVED
Office of Oil & Gas
MAY 10 2005
WV Department of
Environmental Protection

Well Type: OIL ____ GAS X

Company: Triad Reasources
5669 Walback Rd.
Walback, WV 25285

Coal Operator or Owner _____

Coal Operator or Owner _____

Agent: Mike Horn

Permit Issued Date: 2/16/2005

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of _____ ss:

Rick Duckworth and Mick Moore being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well, and Eddie Gainer Oil andGas Inspector representing the Director, say that said work was commenced on the 21 day of April, 2005, and that the well was plugged and filed in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement	1900'	1700'	1800' of 5 3/16"	
Cement	650'	550'	610' of 6 5/8"	1236' of 6 5/8"
Cement	100'	0"		
Gel between all plugs.				

Description of monument: 7" casing with API numbers and that the work of plugging and filling said well was completed on the 3 day of May, 2005

And furthur deponents saith not. Rick Duckworth

Mick Moore

Sworn and subscribe before me this 9 day of May, 2005
My commission expires: Aug. 20, 2008
Melody Dawn Hamrick
Notary Public

Steve Smith

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
MELODY DAWN HAMRICK
328 TOWNSEND DR.
SUMMERSVILLE, WV 26651
My Commission Expires August 20, 2...

WVGES GEOLOGY LIES ALL

"Pipeline"

Select County: (087) Roane

Enter Permit #: 2840

Get Data | Reset

Select datatypes: (Check All)

- Location
- Owner/Completion
- Pay/Show/Water
- Production
- Stratigraphy
- Logs
- Plugging
- Sample
- Btm Hole Loc

Table Descr[illegible]
Coun[illegible] Code Translations
Permit-Number[illegible] Series
Usage Notes
Contact Informati[illegible]
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 2840

Report Time: Monday, May 18, 2020 11:32:28 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708702840	Roane	2840	Smithfield	Tariff	Otter	38.642975	-81.219082	480934.3	4277161.1

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUF[illegible]	STA[illegible]	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TD	GT_FM	TFM_EST_PR
4708702840	4/30/1911	Original Loc	Completed	P A Tallman	33					Carter Oil				
4708702840	4/30/1922	Worked Over	Completed	P A Tallman	33					Carter Oil				
4708702840	9/12/1927	Worked Over	Completed	P A Tallman	33					Pennzoil Co[illegible]				

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	[illegible]_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT
4708702840	4/30/1911	3/20/1911	1060	Topo Estimation	Tariff(Tlmn)	Undf PRICE btw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil	Cable Tool	Shot	2105	2105			0	0	0	4			0	0	0	0
4708702840	4/30/1922	-/-/-	1060	Topo Estimation	Tariff(Tlmn)	Undf PRICE btw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil	unknown	Shot	2105		0		0	0	0	0			0	0	0	0
4708702840	9/12/1927	-/-/-	1060	Topo Estimation	T[illegible]	Undf PRICE btw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil	unknown	Shot	2105		0		0	0	0	0			0	0	0	0

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	PB_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708702840	9/12/1927	Pay	Oil & Gas	Vertical			0	Big Injun (Price&eq)	0	0			
4708702840	4/30/1911	Pay	Oil & Gas	Vertical			0	Big Injun (Price&eq)	0	0			
4708702840	4/30/1911	Pay	Oil	Vertical	[illegible]	[illegible]	[illegible]00	[illegible]		[illegible]			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708702840	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702840	Pennzoil Company	1982	1,176	0	0	0	0	0	0	0	0	0	0	0	0
4708702840	Pennzoil Company	1983	1,121	0	0	0	0	0	0	0	0	0	0	0	0
4708702840	Pennzoil Company	1984	1,272	0	0	0	0	0	0	0	0	0	0	0	0
4708702840	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702840	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702840	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702840	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708702840	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708702840	Triad Resources, Inc.	2004	10	0	0	0	10	0	0	0	0	0	0	0	0
4708702840	Triad Resources, Inc.	2005	5	5	0	0	0	0	0	0	0	0	0	0	0
4708702840	Triad Resources, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702840	Triad Resources, Inc.	2007	5	0	0	0	0	0	0	0	0	0	0	0	5
4708702840	Triad Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702840	Triad Resources, Inc.	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702840	Triad Hunter LLC	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702840	Triad Hunter LLC	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702840	Triad Hunter LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702840	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702840	Triad Hunter LLC	2014	11	0	0	0	0	1	1	1	3	1	1	2	1
4708702840	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702840	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702840	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702840	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708702840	Pennzoil Company	1981	20	0	0	0	0	0	0	0	0	0	0	0	0
4708702840	Pennzoil Company	1982	13	0	0	0	0	0	0	0	0	0	0	0	0
4708702840	Pennzoil Company	1983	18	0	0	0	0	0	0	0	0	0	0	0	0
4708702840	Pennzoil Company	1984	15	0	0	0	0	0	0	0	0	0	0	0	0
4708702840	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702840	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702840	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702840	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708702840	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708702840	Triad Resources, Inc.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702840	Triad Resources, Inc.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702840	Triad Resources, Inc.	2006	5	0	5	0	0	0	0	0	0	0	0	0	0
4708702840	Triad Resources, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702840	Triad Resources, Inc.	2008	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702840	Triad Resources, Inc.	2009	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702840	Triad Hunter LLC	2010	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702840	Triad Hunter LLC	2011	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702840	Triad Hunter LLC	2012	2	0	0	0	0	0	0	0	0	0	0	0	2
4708702840	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702840	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702840	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702840	Triad Hunter LLC	2016	0												

2840

4708702840	Ground Resources, LLC	2017	0												
4708702840	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708702840	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702840	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702840	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702840	Triad Hunter LLC	2016	0												
4708702840	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708702840	Triad Hunter LLC	2016	0												
4708702840	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708702840	Original Loc	Cow Run (undiff)	Well Record	625	Reasonable	15	Reasonable	1060	Topo Estimation
4708702840	Original Loc	Homewd Sa/2n Cow Run	Well Record	720	Reasonable	155	Reasonable	1060	Topo Estimation
4708702840	Original Loc	1st Salt Sand	Well Record	1240	Reasonable	60	Reasonable	1060	Topo Estimation
4708702840	Original Loc	2nd Salt Sand	Well Record	1370	Reasonable	45	Reasonable	1060	Topo Estimation
4708702840	Original Loc	3rd Salt Sand	Well Record	1480	Reasonable	340	Reasonable	1060	Topo Estimation
4708702840	Original Loc	Maxton	Well Record	1830	Reasonable	60	Reasonable	1060	Topo Estimation
4708702840	Original Loc	Little Lime	Well Record	1893	Reasonable	35	Reasonable	1060	Topo Estimation
4708702840	Original Loc	Pencil Cave	Well Record	1933	Reasonable	15	Reasonable	1060	Topo Estimation
4708702840	Original Loc	Big Lime	Well Record	1948	Reasonable	124	Reasonable	1060	Topo Estimation
4708702840	Original Loc	Big Injun (Price&eq)	Well Record	2072	Reasonable	31	Reasonable	1060	Topo Estimation
4708702840	Original Loc	Undif PRICE blw INJ	Well Record	[illegible]	Reasonable	[illegible]	Reasonable	1060	Topo Estimation

There is no Wireline (E-Log) data for this well

There is no Plugging data for this well

There is no Sample data for this well

2940

WELL NO. 3-3 (?) NAME [illegible] LEASE NO. [illegible] ACRES 2.35 N. [illegible] S. [illegible] W. [illegible] DISTRICT SPENCER

Owner [illegible]

Address [illegible]

Farm [illegible]

Commenced [illegible]

Completed [illegible]

Rig [illegible]

Drilling Contractor [illegible]

Purchased From

Date Purchased

Date Completed

Sold

Date Sold

Date Plugged

Date Abandoned

CASING AND TUBING

Size	Put in Well	Left in Well	Pulled
10 in. Casing			
10 in. Casing	240		240
8¼ in. Casing	750		750
6¼ in. Casing	1950	1950	
5¼ in. Casing			
4½ in. Casing			
2 in. Tubing	2095	2095	2095
2 in. Tubing	2095		
2 in. Tubing			

SHOOTING

Date	Qts.	Sand	Depth	Shot	Total
9-12-1927	40	Dry	[illegible]	[illegible]	[illegible]
4-3-12	20				

Initial Oil Production 40 bbls.

Initial Open Flow

Initial Rock Pressure

RECORD

Elevation at mouth of well

Formation	Top	Bottom	Thickness	Oil at ?	Gas at ?	Water at ?	Number of Pipe
Hamilton Sand							
Red Rock Cave	37	37	10				
Red (Fleet)	625	640	15				
Red Rock (Second)	720	875	155				
Salt Sand (Upper)	1240	1300	60				
Salt Sand (Middle)	1370	1415	45				
Salt Sand (Lower)	1490	1830	340				
Maxon	1830	1891	60				
Little Lime	1893	1928	35				
Pencil Cave	1933	1948	15				
Big Lime	1948	2072	124				
Keener Sand							
Injun Sand	2072	2103	31	2080			20
Squaw Sand							
Weir Sand							
Berea Sand							
Gantz Sand							
Fifty Foot Sand							
Thirty Foot Sand							
Gordon Stray							
Gordon Sand							
Fourth Sand							
Fifth Sand							
Corniferous Lime							
Niagara Lime							
Cave							
Clinton							
Medina Shale							
Trenton							
Total Depth	2105						

Remarks

PACKERS

Size	Make	Set at

B.C.

2941

"Pipeline"

Select County: (087) Roane
Enter Permit #: 2941
Get Data | Reset

Select datatypes: (Check All)
Location | Production | Plugging
Owner/Completion | Stratigraphy | Sample
Pay/Show/Water | Logs | Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

Geological & Economic Survey:

Well: County = 087 Permit = 2941

Report Time: Wednesday, May 02, 2018 10:41:05 AM

Location Information: Show Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708702941	Roane	2941	Smithfield	Tariff	Otter	38.649072	-81.211014	481638	4277856

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708702941	10/2/1978	Original Loc	Completed	Doyle Jones	60		P A Tallman		Anna Lee Collins	Pennzoil Company			
4708702941	11/22/1991	Worked Over	Completed	P A Tallman	60					Pennzoil Company			
4708702941	7/10/2015	Plugging	Completed	Triad Hunter LLC	60		P A Tallman		T A L Collins	Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	G_BEF	G_AFT	O_BEF	O_AFT	N
4708702941	10/2/1978	8/19/1978	1189	Ground Level	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2295		2295					
4708702941	11/22/1991	-/-/-	1189	Ground Level	Tariff(Timn)	Price Fm & equivs	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Cable Tool	Acid+Frac	2242		0	0	0	0	0	
4708702941	7/10/2015	7/7/2015	1204	Ground Level																

Comment: 10/2/1978 Plug back depth 2252ft

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708702941	11/22/1991	Water Flood	Injection	Vertical	2198	Big Injun (Price&eq)	2228	Big Injun (Price&eq)		0			0
4708702941	10/2/1978	Water Flood	Injection	Vertical			2228	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf)

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702941	Pennzoil Company	1981	1,118	0	0	0	0	0	0	0	0	0	0	0	0
4708702941	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708702941	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708702941	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702941	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702941	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702941	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702941	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702941	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702941	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702941	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702941	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702941	Triad Resources, Inc.	2005	5	5	0	0	0	0	0	0	0	0	0	0	0
4708702941	Triad Resources, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702941	Triad Resources, Inc.	2007	5	0	0	0	0	0	0	0	0	0	0	0	5
4708702941	Triad Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708702941	Pennzoil Company	1981	509	0	0	0	0	0	0	0	0	0	0	0	0
4708702941	Pennzoil Company	1982	665	0	0	0	0	0	0	0	0	0	0	0	0
4708702941	Pennzoil Company	1983	629	0	0	0	0	0	0	0	0	0	0	0	0
4708702941	Pennzoil Company	1984	1,030	0	0	0	0	0	0	0	0	0	0	0	0
4708702941	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702941	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702941	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702941	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702941	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702941	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702941	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702941	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702941	Triad Resources, Inc.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702941	Triad Resources, Inc.	2006	5	0	5	0	0	0	0	0	0	0	0	0	0
4708702941	Triad Resources, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4708702941	Triad Resources, Inc.	2008	2	0	0	0	0	0	0	0	0	0	0	0	2

There is no Production NGL data for this well ,** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708702941	Original Loc	Little Lime	Well Record	2040	Reasonable	32	Reasonable	1189	Ground Level
4708702941	Original Loc	Pencil Cave	Well Record	2072	Reasonable	18	Reasonable	1189	Ground Level
4708702941	Original Loc	Greenbrier Group	Well Record	2090	Reasonable	108	Reasonable	1189	Ground Level
4708702941	Original Loc	Big Lime	Well Record	2090	Reasonable	42	Reasonable	1189	Ground Level
4708702941	Original Loc	Loyalhanna	Well Record	2132	Reasonable	66	Reasonable	1189	Ground Level
4708702941	Original Loc	Big Injun (Price&eq)	Well Record	2198	Reasonable	30	Reasonable	1189	Ground Level
4708702941	Original Loc	Price Fm & equivs	Well Record	2228	Reasonable	67	Reasonable	1189	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	L
4708702941	6	2286		G D C*	Y	N	6	2280	410	2286									410	2286	Y	Y	N		

Comment: *logs: CCL, cement bond, formation bond, caliper

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708702941gbo1.tif
4708702941gbo2.tif
4708702941gdc.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708702941	7/10/2015	0

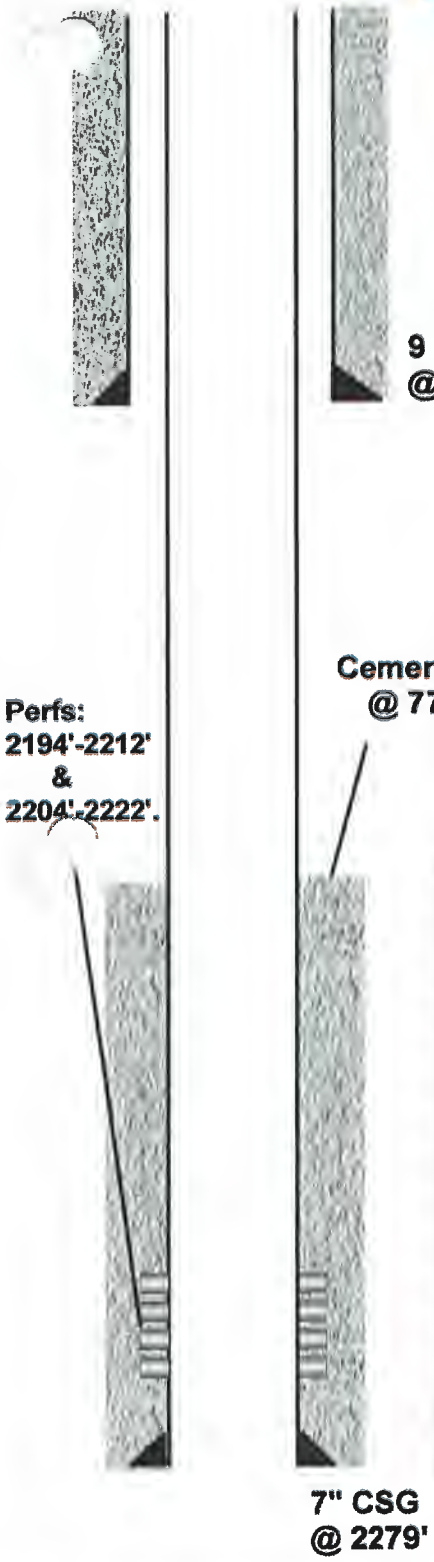
There is no Sample data for this well

☐ Proposed

☒ As is

P.A.TALLMAN # 60- 47-087- 2941-WSW
SMITHFIELD DIST., ROANE CO., W.V.
FIELD : TARIFF.

	Size	Wt.	Grde	Thrd	Depth	Sks/Cmt
CONDUCTOR						
SURFACE	9 5/8"	36 #	H-40	8 RD	397'	190 sks
INTERMEDIATE						
INTERMEDIATE						
PRODUCTION	7"	20 #	K-55	8 RD	2279'	175 sks
TUBING						



Perforation Information
BIG INJUN : 2194' - 2212' w / 18 Holes
2204' - 2222' w / 18 Holes

Casing and Tubing Information
9 5/8" CSG set @ 397' cemented to surface w/ 190 sks Class A cement
having 3% C.C and 1/4 # flocele/sack.
4 1/2" CSG cemented @ 2279' with 175 sks of 50/50 pozmix w / 2% C.C
and 1/8 # flocele/sack.
Cement Top @ 777'.

Date	Work-Over Information
8/20/78	Ran 14 jts 9 5/8", 36 #, H-40, 8 RD thd CSG w/ S.T.& C. set @ 397' &
	cemented w/ 190 sks Class 'A' cement having 3% C.C and 1/4 # flocele/sk.
8/25/78	Ran 68 jts 7", 20 #, K-55, 8 RD thd CSG w/ S.T.& C. set @ 2279' &
	cemented w/ 500 gals mud flush & w/ 175 sks of 50/50 poz w / 2% Calcium
	Chloride and 1/8 # flocele/sack.
9/7/78	Ran 56 jts 4 1/2", 10.5#, K-55 CSG with Parmaco Tension Packer.
9/8/78	Treated perfs via 4 1/2" CSG w/ 500 gals HCl acid, established a rate of 24
	B.P.M @ 3800 #. P.O.H w/ 4-1/2" CSG and packer. R.I.H w/ 4 1/2" frac TBG
	and 7" Parmaco Tension Packer.
9/9/78	Treated perfs. with 1000 gals 15% H.C.L acid. Balled out with max. pressure
	4500 # . P.O.H with 4 1/2" CSG.
9/28/78	R.I.H w/ 2" TBG and HOWCO retrieving tool. P.O.H the same.

WELL T.D. 2295'

PREPARED BY:Babaji Chitturi

DATE: 08/06/2002

P.A.TALLMAN # 60- 47-087- 2941
SMITHFIELD DIST., ROANE CO., W.V.
FIELD : TARIFF.

Date	Work-Over Information
11/9/78	Ran 57 jts 2-7/8", 6.4 #, 8 RD EUF TBG w/ a 2 1/4" I.D. working barrel @ 1806'.
11/10/78	Ran 71 jts. 1" rods w/ 2 1/4" plunger @ 1775'.
12/22/82	R.I.H with BAKER model SD-1 7" packer to 223' KB. Spot 250 gals 15 % HCl. Pull
	packer on 2-3/8" TBG to 2023.53' KB. Set packer @ 2023.53' KB. Circulated
	corrosion inhibitor into the annulus.
12/22/82	B.J.HUGHES performed frac with 250 gals 15% HCl acid, 150 Bbls 20 #
	GW & 1500 lbs of 20/40 sand. B.D.P was 600 psig, A.T.P was 1550 psig,
	A.T.R was 11 B.P.M, I.S.I.P was 950 psig .
11/22/91	PRODUCERS performed frac with 250 gals reg HF acid, 134 Barrels Gelled
	Water & 1500 lbs of 20/40 sand. B.D.P was 1500 psig, A.T.P was 1800 psig,
	A.T.R was 6.0 B.P.M, I.S.I.P was 1450 psig and 15 min S.I.P was 1200 psig.

PREPARED BY:Babaji Chitturi

DATE: 08/06/2002

OG-10
Rev. 9-71

2941

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OIL & GAS DIVISION
DEPT. OF MINES

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

Quadrangle Tariff 7.5'

Permit No. Ros-2941

Rotary X Oil ____
Cable ____ Gas ____
Recycling ____ Comb. ____
Water Flood X Storage ____
Disposal ____ ____ (Kind)

Company Pennzoil Company
Address P.O. Box 1588, Parkersburg, WV 26101
Farm P. A. Tallman Acres 2350
Location (waters) Trace Fork
Well No. 60 Elev. 1189.12'
District Smithfield County Roane
The surface of tract is owned in fee by
Doyle Jones
Address Left Hand, WV
Mineral rights are owned by Anna Lee Collins
Address 1009 Main St., Pt. Pleasant, WV
Drilling Commenced 8-19-78
Drilling Completed 8-25-78
Initial open flow ____ cu. ft. ____ bbls.
Final production ____ cu. ft. per day ____ bbls.
Well open ____ hrs. before test ____ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16 Cond.			
13-10"			
9 5/8	397	397	190 sks.
8 5/8			
7	2279	2279	175 sks.
5 1/2			
4 1/2			
3			
2			
Liners Used			

Attach copy of cementing record.

Well treatment details:
Fractured: 9-19-78 & 10-2-78
Salt Sand (Upper Section) w/9808W, 38,000# 20/40 sd., 1200 Gal. 15% HCL
Salt Sand (Lower Section) w/1142 BW, 53,700# 20/40 sd., 1200 Gal. 15% HCL
Water Producing Well

Coal was encountered at ____ Feet ____ Inches
Fresh water ____ Feet ____ Salt Water ____ Feet ____
Producing Sand Big Injun Depth ____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale				88		
Siltstone			88	128		
Shale			128	154		
Sand			154	164		
Shale			164	228		
Sand			228	240		
Shale			240	264		
Sand			264	306		
Shale			306	406		
Siltstone			406	450		
Shale			450	466		
Siltstone			466	528		
Sand			528	550		
Shale & Silt			550	674		
Shale			674	766		
Siltstone			766	782		
Shale			782	836		
Sand			836	970		
Shale			970	978		
Sand			978	990		
Shale			990	1042		
Sand			1042	1064		
Shale			1064	1078		

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OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

(over)

* Indicates Electric Log tops in the remarks section.

2941

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sand			1078	1182		
Shale			1182	1232		
Sand			1232	1258		
Shale			1258	1268		
Sand			1268	1290		
Shale			1290	1304		
Sand			1304	1342		
Shale			1342	1354		
Siltstone			1354	1376		
Sand			1376	1398		
Shale			1398	1404		
Sand			1404	1430		
Shale			1430	1466		
Sand			1446	1484		
Shale			1484	1534		
Sand			1534	1558		
Shale			1558	1710		
Sand			1710	1846		
Shale			1846	1862		
Sand			1862	1874		
Shale			1874	1878		
Sand			1878	1892		
Shale			1892	1906		
Sand			1906	1922		
Shale			1922	1932		
Sand			1932	1986		
Shale			1986	2002		
Sand			2002	2020		
Shale			2020	2040		
Little Lime			2040	2072		
Pencil Cave			2072	2090		
Big Lime			2090	2132		
Loyalhanna			2132	2198		
Big Injun			2198	2228		
Shale			2228	2295		
Total Depth				2295		
Plug Back Depth				2252		

Date March 27, 1979

APPROVED PENNZOIL COMPANY

By [illegible]

WR-38
Rev. 5/08

API # 47-8702941

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: PENNZOIL PRODUCTS CO Operator Well No.: P.A. TALLMAN 60

LOCATION: Elevation: 1189 Quadrangle: TARIFF
District: SMITHFIELD County: ROANE
Latitude: _____ Feet South of _____ Deg. _____ Min. _____ Sec.
Longitude: _____ Feet West of _____ Deg. _____ Min. _____ Sec.

Well Type: OIL _____ GAS _____

Company TRIAD HUNTER, LLC
125 PUTNAM STREET
MARIETTA, OHIO

Coal Operator or Owner _____

Coal Operator or Owner _____

Agent KIM ARNOLD
Permit Issued Date 06/17/2015

RECEIVED
Office of Oil and Gas
JUL 12 2017
WV Department of
Environmental Protection

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of ROANE ss:

TERRY REXROAD and DARRELL SHAMBLIN being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 7 day of JULY, 2015, and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
CEMENT	2230	1680		397' OF 9 5/8
6% GEL	1680	550	540' OF 7"	1739' OF 7"
CEMENT	550	350		
6% GEL	350	150		
CEMENT	150	SURFACE		
6% GEL				
CEMENT				

Description of monument: 7" CASING WITH DATE AND API # WELDED ON and that the work of plugging and filling said well was completed on the 10 day of JULY, 2015.

And further deponents saith not.

Terry Rexroad

Darrell Shamblin

OFFICIAL SEAL
Notary Public, State Of West Virginia
BRIAN MARKS
349 Big Creek
Walton, WV 25286
My Commission Expires October 25, 2023

Sworn and subscribe before me this 3 day of August, 2015

My commission expires: 10-25-2023

Brian Marks
Notary Public

Affidavit reviewed by the Office of Oil and Gas: _____ Title: Inspector

WVGES GEOLOGY UNDERLIES IT ALL
"Pipeline"

Select County: (087) Roane
Enter Permit #: 3071
Get Data | Reset

Select datatypes: (Check All)
☑ Location ☑ Production ☑ Plugging
☑ Owner/Completion ☑ Stratigraphy ☑ Sample
☑ Pay/Show/Water ☑ Logs ☑ Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Scheme
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 87 Permit = 3071

Report Time: Monday, May 18, 2020 11:40:14 PM

Well Reassignment Information: Reassigned From

OLD_COUNTY	OLD_PERMIT	NEW_COUNTY	NEW_PERMIT
87	50099	87	3071

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_15	QUAD_75	LAT_DD	LON_DD	UTME	UTMN
4708703071	Roane	3071	Smithfield	Tariff	Otter	38.657809	-81.21776	481053.3	4278804.6

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROD_THRU_FM	TFM_EST_BY
4708703071	1/27/1917	Original Loc	Completed	W M Looney	24					Pennzoil Company			
4708703071	6/23/1971	Worked Over	Completed	W M Looney	24					Pennzoil Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AF
4708703071	1/27/1917	12/11/1916	1263	Ground Level	Tariff(Tlmn)	Undf PRICE blw INJN	Undf PRICE blw INJN	Development Well	Development Well	Oil w/ Gas Show	Cable Tool	Shot	2313		2313		0	0	0	0			0	0	
4708703071	6/23/1971	-/-/-	1263	Ground Level	Tariff(Tlmn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Development Well	Development Well	Oil and Gas		Fractured	2313		0		0	60	0	20			0	0	

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703071	1/27/1917	Show	Oil & Gas	Vertical			2259	Big Injun (Price&eq)	0	0			
4708703071	1/27/1917	Pay	Oil	Vertical	2263	Big Injun (Price&eq)	2285	Big Injun (Price&eq)	0	0			
4708703071	6/23/1971	Pay	Oil	Vertical			2313	Big Injun (Price&eq)	0	20			
4708703071	6/23/1971	Pay	Gas	Vertical			2313	Big Injun (Price&eq)	0	60			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703071	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703071	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708703071	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708703071	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703071	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703071	Pennzoil Products Company	1990	488	0	0	0	0	38	45	89	78	55	56	50	77
4708703071	Pennzoil Products Company	1991	592	37	68	63	52	56	50	67	42	27	49	33	49
4708703071	Pennzoil Products Company	1992	433	46	30	33	34	36	37	51	42	42	36	24	22
4708703071	Pennzoil Products Company	1993	316	29	22	31	19	19	27	34	26	43	27	19	22
4708703071	Pennzoil Products Company	1994	327	24	18	13	20	42	40	30	31	32	34	26	17
4708703071	Meadows Jr, S. L. Production Inc.	1995	374	19	58	44	20	5	31	38	39	42	15	28	35
4708703071	Pennzoil Products Company	1995	104	3	10	8	8	16	16	8	8	9	18	0	0
4708703071	Pennzoil Products Company	1996	71	0	0	7	7	8	11	15	0	8	8	4	3
4708703071	Meadows Jr, S. L. Production Inc.	1996	524	45	38	36	34	23	44	30	61	69	51	19	74
4708703071	Pennzoil Products Company	1997	17	2	5	3	0	2	3	0	0	0	1	0	1
4708703071	Pennzoil Products Company	1998	83	0	0	5	10	10	12	12	10	11	13	0	0
4708703071	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708703071	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708703071	Triad Resources, Inc.	2004	88	6	5	8	9	9	11	8	9	11	8	4	0
4708703071	Triad Resources, Inc.	2005	101	9	5	12	2	3	7	8	12	10	12	12	9
4708703071	Triad Resources, Inc.	2006	93	10	7	7	6	8	8	8	8	8	8	8	7
4708703071	Triad Resources, Inc.	2007	82	8	7	7	5	2	2	8	6	6	4	5	4
4708703071	Triad Resources, Inc.	2008	72	5	4	4	4	3	5	4	3	7	8	11	14
4708703071	Triad Resources, Inc.	2009	33	8	3	3	3	5	5	3	0	0	1	1	1
4708703071	Triad Hunter LLC	2010	39	6	2	3	3	3	5	5	4	3	3	2	0
4708703071	Triad Hunter LLC	2011	11	1	1	1	1	0	3	1	1	1	1	0	0
4708703071	Triad Hunter LLC	2012	15	1	1	1	2	2	2	1	2	2	1	0	0
4708703071	Triad Hunter LLC	2013	12	1	1	1	1	1	1	1	1	1	1	1	1
4708703071	Triad Hunter LLC	2014	8	1	1	1	0	1	0	1	0	1	1	1	0
4708703071	Triad Hunter LLC	2015	6	0	0	0	1	3	1	1	0	0	0	0	0
4708703071	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703071	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703071	Ground Resources, LLC	2018	[illegible]	0	[illegible]	44	0	28	23	0	25	33	36	32	28

Production Oil Information: (Volumes in Bbl) * some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703071	Pennzoil Company	1981	101	0	0	0	0	0	0	0	0	0	0	0	0
4708703071	Pennzoil Company	1982	248	0	0	0	0	0	0	0	0	0	0	0	0
4708703071	Pennzoil Company	1983	438	0	0	0	0	0	0	0	0	0	0	0	0
4708703071	Pennzoil Company	1984	1,013	0	0	0	0	0	0	0	0	0	0	0	0
4708703071	Pennzoil Products Company	1989	598	0	50	52	52	52	46	52	53	46	49	72	72
4708703071	Pennzoil Products Company	1990	1,885	80	74	131	154	259	253	130	162	132	190	98	202
4708703071	Pennzoil Products Company	1991	1,563	168	153	174	171	184	103	68	133	88	124	107	72
4708703071	Pennzoil Products Company	1992	1,088	75	82	88	84	114	107	108	92	68	75	99	98
4708703071	Pennzoil Products Company	1993	1,091	96	91	78	95	93	123	125	88	58	82	83	79
4708703071	Pennzoil Products Company	1994	1,072	63	69	146	123	97	106	116	115	85	57	46	48

3071

4708703071	Meadows Jr, S. L. Production Inc.	1995	192	7	28	15	12	5	20	14	16	21	17	17	20
4708703071	Pennzoil Products Company	1995	450	74	63	71	67	36	34	35	70	0	0	0	0
4708703071	Pennzoil Products Company	1996	367	64	37	41	37	40	0	29	34	18	13	14	40
4708703071	Meadows Jr, S. L. Production Inc.	1996	208	16	17	20	9	19	21	16	21	17	11	22	19
4708703071	Pennzoil Products Company	1997	114	36	0	23	39	16	0	0	0	0	0	0	0
4708703071	Pennzoil Products Company	1998	370	27	38	44	37	33	33	37	42	37	42	0	0
4708703071	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708703071	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708703071	Triad Resources, Inc.	2004	329	31	31	31	31	30	30	22	28	24	23	21	27
4708703071	Triad Resources, Inc.	2005	136	12	8	9	11	9	14	11	11	12	16	13	10
4708703071	Triad Resources, Inc.	2006	140	8	11	12	14	8	9	12	11	16	11	13	16
4708703071	Triad Resources, Inc.	2007	162	13	16	10	18	13	15	13	14	12	13	12	13
4708703071	Triad Resources, Inc.	2008	166	13	17	9	16	11	8	14	14	19	17	11	17
4708703071	Triad Resources, Inc.	2009	108	4	0	10	15	13	10	9	9	8	12	10	8
4708703071	Triad Hunter LLC	2010	55	11	2	9	2	2	10	2	2	11	2	2	0
4708703071	Triad Hunter LLC	2011	109	8	11	9	8	9	9	9	9	9	10	11	7
4708703071	Triad Hunter LLC	2012	93	5	7	6	5	8	11	4	12	9	9	7	10
4708703071	Triad Hunter LLC	2013	97	9	9	11	7	9	10	5	8	6	6	8	9
4708703071	Triad Hunter LLC	2014	91	7	6	8	8	8	7	6	9	8	7	8	9
4708703071	Triad Hunter LLC	2015	75	8	5	3	8	6	8	6	3	7	5	11	5
4708703071	Triad Hunter LLC	2016	216					33	22	24	33	23	33	26	22
4708703071	Ground Resources, LLC	2017	328	33	18	31	31	25	27	30	22	25	36	28	22
4708703071	Ground Resources, LLC	2018	313	20	23	22	29	28	29	21	23	21	37	31	29

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708703071	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703071	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703071	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703071	Triad Hunter LLC	2016	0												
4708703071	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708703071	Triad Hunter LLC	2016	0												
4708703071	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SOURCE	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703071	Original Loc	Salt Sands (undiff)	Well Record	1773	Reasonable	310	Reasonable	1263	Ground Level
4708703071	Original Loc	Maxton	Well Record	2082	Reasonable	25	Reasonable	1263	Ground Level
4708703071	Original Loc	Little Lime	Well Record	2105	Reasonable	35	Reasonable	1263	Ground Level
4708703071	Original Loc	Pencil Cave	Well Record	2140	Reasonable	14	Reasonable	1263	Ground Level
4708703071	Original Loc	Big Lime	Well Record	2154	Reasonable	103	Reasonable	1263	Ground Level
4708703071	Original Loc	Greenbrier Group	Well Record	2154	Reasonable	103	Reasonable	1263	Ground Level
4708703071	Original Loc	Big Injun (Price&eq)	Well Record	2257	Reasonable	42	Reasonable	1263	Ground Level
4708703071	Original Loc	Unit FM(S) Inv W/W	Well Record	2299	Reasonable	0	Reasonable	1263	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	REPEAT_INC	LOGS_AVAIL	MEAS_SIGNIFICANCE	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703071	1300	2310		G,C,*	Y	N		1300	2310									1300	2310	Y	Y	N						

Comment: *logs: caliper, CCL; on File as 08/-99; was 07/-00

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703071gco1.tif
4708703071gco2.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- a other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

3071

Lease No. 60218 Acres 480 Farm Name W. M. Looney Well No. 24

N. S. E. W.	Location Made		Purchased From
Civil District Smithfield	Rig Completed	Dec. 1, 1916	Date Purchased
County Roane	Dr'g Commenced	Dec. 11, 1916	Sold to
State W. Va.	Dr'g Completed	Jan. 27, 1917	Date Sold
GAS OIL Rights Owned By	Dr'g Contractor	Drlg. Tools Acc't.	Date Abandoned

FORMATION

Kind	Top	Bottom	Steel Line Meas.	Tests
Conductor		16		
Little Dunkard	850	880		
Big Dunkard	933	1085		
Gas Sand	1330	1465		
Slate & Shells	1465	1770		
Salt Sand	1770	2080		
Water	1830			Hole full
Maxon Sand	2080	2105		
Little Lime	2105	2140		
Pencil Cave	2140	2154		
Big Lime	2154	2257		
Water	2202	—		
Big Injun	2257	2299		
Oil & Gas	2259	S.L.M.		
Slate	2299	2313		
T. D.		2313	S.L.M.	

CASING RECORD

Size	Bottom Casing Steel Line	Put in Well Tally Meas.	Pulled Tally Meas.	Casing
10"		365'		Date
8 1/4"		935'		Size Csg.
6 5/8"	2154'	2175'		Top Csg.
5 3/16"	2213'	2235'		Bot. Csg.

PACKERS AND SHOES

Kind	Size	Depth Set	Date
Steel shoe		2175'	
C. W. S. - B. H.	5 3/16x6 5/8	2213'	8/28/41

5 3/16" casing pulled and run back on packer.

TORPEDO RECORD

Date	No. Qts.	Size Shell	Top Shot	Bottom	Rem
Jan. 31, '17	10	16	2265	2281	
Aug. 26, '41	30	20	2263	2285	
8-27-56	40	10'-6	2278	2289	Rom

Remarks:

Water by South Penn Oil Co.
Gas by United Fuel Gas Co.

Initial Prod.	Sand	* At Completion	* 30 Days After	*
Oil	Big Injun	5 Bbls.		
Gas				

APPROVED

* Oil in Barrels

TESTS, REMARKS AND REMARKS ON REVERSE SIDE

R04-3071-F

"Pipeline"

Select County: (087) Roane

Enter Permit #: 3083

Get Data | Reset

Select datatypes: (Check All)

- Location
- Owner/Completion
- Pay/Show/Water
- Production
- Stratigraphy
- Logs
- Plugging
- Sample
- Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 87 Permit = 3083

Report Time: Monday, May 18, 2020 11:45:40 PM

Well Reassignment Information: Reassigned From

OLD_COUNTY	OLD_PERMIT	NEW_COUNTY	NEW_PERMIT
87	50112	87	3083

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703083	Roane	3083	Smithfield	Tariff	Otter	38.65639	-81.21592	481213	4278669

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROF_TRGT_FM	TFM_EST_PR
4708703083	8/7/1912	Original Loc	Completed	W M Looney	14					South Penn Oil (S. Penn Nat. Gas)			
4708703083	12/8/1942	Worked Over	Completed	W M Looney	14					Pennzoil Company			
4708703083	11/4/1971	Worked Over	Completed	W M Looney	14					Pennzoil Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT
4708703083	8/7/1912	6/24/1912	1076	Ground Level	Tariff(Timn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	Cable Tool	Shot	2119	2119		0	0	0	0	10			0	0	0
4708703083	12/8/1942	-/-/-	1076	Ground Level	Tariff(Timn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	Cable Tool	Shot	2119	2119		0	0	0	0	0			0	0	0
4708703083	11/4/1971	-/-/-	1076	Ground Level	Tariff(Timn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil and Gas	Cable Tool	Fractured	2119	2119		0	0	50	0	50			0	0	0

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_GRAV
4708703083	8/7/1912	Show	Oil & Gas	Vertical			2025	Big Lime	0	0			
4708703083	8/7/1912	Pay	Oil	Vertical	2078	Big Injun (Price&eq)	2098	Big Injun (Price&eq)	0	10			
4708703083	8/7/1912	Show	Gas	Vertical	2078	Big Injun (Price&eq)	2098	Big Injun (Price&eq)	0	0			
4708703083	12/8/1942	Pay	Oil & Gas	Vertical	2082	Big Injun (Price&eq)	2102	Big Injun (Price&eq)	0	0			
4708703083	11/4/1971	Pay	Oil	Vertical	2071	Big Injun (Price&eq)	2119	Undf PRICE blw INJN	0	60			
4708703083	11/4/1971	Pay	Gas	Vertical	2071	Big Injun (Price&eq)	2119	Undf PRICE blw INJN	0	50			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708703083	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703083	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708703083	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708703083	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703083	Pennzoil Products Company	1989	251	22	1	0	0	18	19	33	24	31	21	36	46
4708703083	Pennzoil Products Company	1990	811	34	29	49	41	53	30	31	28	102	152	126	136
4708703083	Pennzoil Products Company	1991	1,092	107	51	110	83	89	68	111	118	112	93	74	76
4708703083	Pennzoil Products Company	1992	868	80	47	71	84	72	78	81	73	66	85	74	57
4708703083	Pennzoil Products Company	1993	624	58	43	62	41	35	38	62	34	58	57	75	61
4708703083	Pennzoil Products Company	1994	828	72	54	38	36	56	78	97	86	84	98	53	76
4708703083	Pennzoil Products Company	1995	609	15	42	25	24	63	55	61	69	67	86	48	74
4708703083	Pennzoil Products Company	1996	490	0	0	24	41	51	61	67	60	46	34	49	37
4708703083	Pennzoil Products Company	1997	113	22	28	16	12	16	17	0	0	0	1	0	1
4708703083	Pennzoil Products Company	1998	456	0	0	20	61	66	73	70	64	66	36	0	0
4708703083	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708703083	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708703083	Triad Resources, Inc.	2004	88	8	5	6	9	9	11	6	9	11	8	4	0
4708703083	Triad Resources, Inc.	2005	101	9	5	12	2	3	7	8	12	10	12	12	9
4708703083	Triad Resources, Inc.	2006	93	10	7	7	6	8	8	8	8	8	8	8	7
4708703083	Triad Resources, Inc.	2007	62	8	7	7	5	2	2	6	6	6	4	5	4
4708703083	Triad Resources, Inc.	2008	72	5	4	4	4	3	5	4	3	7	8	11	14
4708703083	Triad Resources, Inc.	2009	30	6	3	3	3	2	5	3	0	0	1	1	1
4708703083	Triad Hunter LLC	2010	39	6	2	3	3	3	5	5	4	3	3	2	0
4708703083	Triad Hunter LLC	2011	11	1	1	1	1	0	3	1	1	1	1	0	0
4708703083	Triad Hunter LLC	2012	15	1	1	1	2	2	2	1	2	2	1	0	0
4708703083	Triad Hunter LLC	2013	12	1	1	1	1	1	1	1	1	1	1	1	1
4708703083	Triad Hunter LLC	2014	8	1	1	1	0	1	0	1	0	1	1	1	0
4708703083	Triad Hunter LLC	2015	6	0	0	0	1	3	1	1	0	0	0	0	0
4708703083	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703083	Ground Resources, LLC	2017	218	0	0	0	0	0	0	49	43	37	34	22	33
4708703083	Ground Resources, LLC	2019	345	0	0	30	0	0	25	0	0	0	0	30	30

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708703083	Pennzoil Company	1981	101	0	0	0	0	0	0	0	0	0	0	0	0
4708703083	Pennzoil Company	1982	248	0	0	0	0	0	0	0	0	0	0	0	0
4708703083	Pennzoil Company	1983	438	0	0	0	0	0	0	0	0	0	0	0	0
4708703083	Pennzoil Company	1984	1,012	0	0	0	0	0	0	0	0	0	0	0	0
4708703083	Pennzoil Products Company	1989	953	0	68	70	59	70	68	67	61	107	118	117	150
4708703083	Pennzoil Products Company	1990	2,540	148	136	184	103	90	90	244	441	330	334	287	153
4708703083	Pennzoil Products Company	1991	2,918	324	247	288	236	304	286	289	253	199	193	187	112
4708703083	Pennzoil Products Company	1992	2,267	161	203	178	180	179	186	166	217	212	194	200	191

3083

4708703083	Pennzoil Products Company	1993	2,299	193	203	143	132	172	160	168	190	228	226	251	233
4708703083	Pennzoil Products Company	1994	2,872	180	124	196	243	318	295	309	335	172	264	229	207
4708703083	Pennzoil Products Company	1995	2,433	227	199	281	234	274	283	259	254	182	240	0	0
4708703083	Pennzoil Products Company	1996	2,440	229	232	247	213	232	173	166	152	213	169	192	222
4708703083	Pennzoil Products Company	1997	877	189	137	230	219	102	0	0	0	0	0	0	0
4708703083	Pennzoil Products Company	1998	2,019	115	240	279	235	199	210	223	120	226	172	0	0
4708703083	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708703083	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708703083	Triad Resources, Inc.	2004	329	31	31	31	31	30	30	22	28	24	23	21	27
4708703083	Triad Resources, Inc.	2005	1,219	108	71	82	96	82	124	95	97	110	145	116	93
4708703083	Triad Resources, Inc.	2006	1,243	68	99	106	126	67	85	106	96	136	97	118	139
4708703083	Triad Resources, Inc.	2007	1,449	118	139	92	160	115	134	117	125	105	117	107	120
4708703083	Triad Resources, Inc.	2008	1,502	115	157	79	141	103	70	123	126	175	156	100	157
4708703083	Triad Resources, Inc.	2009	985	41	0	91	135	117	95	84	83	70	106	92	71
4708703083	Triad Hunter LLC	2010	476	101	14	79	15	14	90	14	15	99	14	21	0
4708703083	Triad Hunter LLC	2011	975	72	97	82	69	84	81	77	82	83	89	95	64
4708703083	Triad Hunter LLC	2012	834	49	63	54	40	68	101	37	109	78	84	65	86
4708703083	Triad Hunter LLC	2013	874	81	85	95	67	80	94	48	69	50	56	70	79
4708703083	Triad Hunter LLC	2014	810	61	53	69	69	71	64	57	83	73	60	73	77
4708703083	Triad Hunter LLC	2015	676	75	42	29	71	56	75	56	28	61	42	100	41
4708703083	Triad Hunter LLC	2016	216					33	22	24	33	23	33	26	22
4708703083	Ground Resources, LLC	2017	327	33	17	31	31	25	27	30	22	25	36	28	22
4708703083	Ground Resources LLC	2018	314	20	23	22	29	28	29	21	24	21	37	31	29

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	JAN_NGL	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708703083	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0
4708703083	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0
4708703083	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0
4708703083	Triad Hunter LLC	2016	0											
4708703083	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	JAN_WTR	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708703083	Triad Hunter LLC	2016	0											
4708703083	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SOURCE	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703083	Original Loc	Buffio Sa/1st Cow Rn	Well Record	685	Reasonable	40	Reasonable	1076	Ground Level
4708703083	Original Loc	Mahonig Sa/Big Dunk	Well Record	740	Reasonable	150	Reasonable	1076	Ground Level
4708703083	Original Loc	Little Lime	Well Record	1824	Reasonable	10	Reasonable	1076	Ground Level
4708703083	Original Loc	Pencil Cave	Well Record	1939	Reasonable	30	Reasonable	1076	Ground Level
4708703083	Original Loc	Big Lime	Well Record	1969	Reasonable	103	Reasonable	1076	Ground Level
4708703083	Original Loc	Big Injun (Price&eq)	Well Record	2072	Reasonable	43	Reasonable	1076	Ground Level
4708703083	Original Loc	Upper PRICE (W Ill Un)	Well Record	2115	Reasonable	2	Reasonable	1076	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH6	INCH6	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703083	[illegible]	2122		G,C *	Y	N	1200	2122											1200	2122	N		N						

Comment: *logs: caliper, CCL

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703083_co.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

3083

Roa 3083 F

Well No. 14 W. M. Looney Farm.
Lease No. Smithfield District Roane County.
Rig built by C. R. Mortimer
Well drilled by S. P. D. Tac Contractor.
Began drilling June 24 1972 Completed August 7 1972

ROCK FORMATION	TOP	BOTTOM	REMARKS
Conductor		16	
Little Dunkard	665	705	
Big "	740	890	
Salt Sand	1610	1915	
Water	1750		
Break	1915	1924	
Little Lime	1924	1954	
Pencil Cave	1959	1969	
Big Lime	1969	2072	
Water Oil & Gas	2025		
Big Injun Sand	2072	2115	(43)
Oil & Gas	2078	2098	
Total depth		2119	

Shot 12-8-42—30 Hrs C 2082-2102 ft Good Results

CASING RECORD

	CHARGED TO WELL		PUT IN WELL		PULLED OUT		LEFT IN WELL		Transferred before Completion		Left at Well Not in Use		
Size	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	
10			216						Shot 8/8/12		20 gts		3 Sup.
8 1/4			747										
6 5/8			1992										

Production First 24 Hours 10 Bbls. Signed W. H. Graham Supt.

RECEIVED
OCT 18 1971
OIL & GAS DIVISION
DEPT. OF MINES

"Pipeline"

Select County: (087) Roane

Select datatypes: (Check All)

Enter Permit #: 3088

Get Data | Reset

☑ Location ☑ Production ☑ Plugging
☑ Owner/Completion ☑ Stratigraphy ☑ Sample
☑ Pay/Show/Water ☑ Logs ☑ Btm Hole Loc

Table Descriptions
County Codes Transactions
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 87 Permit = 3088

Report Time: Monday, May 18, 2020 11:53:59 PM

Well Reassignment Information: Reassigned From

OLD_COUNTY	OLD_PERMIT	NEW_COUNTY	NEW_PERMIT
87	50118	87	3088

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_NE	QUAD_NW	LAT_DD	LON_DD	UTME	UTMN
4708703088	Roane	3088	Smithfield	Tariff	Otter	38.663134	-81.207939	481909.1	4279415.8

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	APPVD	STATUS	ORIGINAL OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	ORIGINAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TGT_FM	TFM_EST_PT
4708703088	7/3/1913	Original Loc	Completed	W M Looney		17				South Penn Oil (S. Penn Nat. Gas)			
4708703088	3/12/1931	Worked Over	Completed	W M Looney		17				South Penn Oil (S. Penn Nat. Gas)			
4708703088	1/10/1972	Worked Over	Completed	W M Looney		17				Pennzoil Co			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT
4708703088	7/3/1913	5/23/1913	904	Derrick Floor	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	Cable Tool	Shot	1952	1952		0	0	0	0	30			0	0	0
4708703088	3/12/1931	-/-/-	904	Derrick Floor	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	unknown	Shot	1952		0	0	0	0	0	0			0	0	0
4708703088	1/10/1972	-/-/-	904	Derrick Floor	Tariff(Timn)	Undf PRIDE btw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil and Gas	unknown	Fractured	1952		0	0	100	0	25				0	0	0

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	TG_TOP	DEPTH_BOT	TG_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_SHIV
4708703088	7/3/1913	Pay	Oil	Vertical			1922	Big Injun (Price&eq)	0	30			
4708703088	3/12/1931	Pay	Oil & Gas	Vertical			1922	Big Injun (Price&eq)	0	0			
4708703088	7/3/1913	Show	Gas	Vertical			1922	Big Injun (Price&eq)	0	0			
4708703088	1/10/1972	Pay	Gas	Vertical	1900	Big Lime	1945	Big Injun (Price&eq)	0	100			
4708703088	1/10/1972	Pay	Oil	Vertical	1900	Big Lime	1945	Big Injun (Price&eq)	0	25			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703088	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703088	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708703088	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708703088	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703088	Pennzoil Products Company	1989	1,930	158	116	206	130	151	166	235	168	169	129	132	170
4708703088	Pennzoil Products Company	1990	1,844	126	87	114	98	92	74	103	162	292	249	205	242
4708703088	Pennzoil Products Company	1991	2,708	179	233	254	246	236	221	238	242	218	222	228	193
4708703088	Pennzoil Products Company	1992	1,475	139	101	111	102	144	157	141	126	140	119	117	78
4708703088	Pennzoil Products Company	1993	976	143	68	70	33	105	195	86	89	103	32	6	46
4708703088	Pennzoil Products Company	1994	443	55	27	4	15	39	37	36	40	63	61	36	30
4708703088	Pennzoil Products Company	1995	42	10	15	4	8	5	0	0	0	0	0	0	0
4708703088	Pennzoil Products Company	1996	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703088	Pennzoil Products Company	1997	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703088	Pennzoil Company	1981	101	0	0	0	0	0	0	0	0	0	0	0	0
4708703088	Pennzoil Company	1982	248	0	0	0	0	0	0	0	0	0	0	0	0
4708703088	Pennzoil Company	1983	438	0	0	0	0	0	0	0	0	0	0	0	0
4708703088	Pennzoil Company	1984	1,012	0	0	0	0	0	0	0	0	0	0	0	0
4708703088	Pennzoil Products Company	1989	5,876	602	513	600	529	495	454	368	380	397	650	438	450
4708703088	Pennzoil Products Company	1990	2,326	345	329	82	74	77	153	232	226	201	223	174	210
4708703088	Pennzoil Products Company	1991	2,838	227	256	252	229	229	231	245	228	282	240	209	210
4708703088	Pennzoil Products Company	1992	2,281	221	175	198	220	205	224	171	205	192	161	200	109
4708703088	Pennzoil Products Company	1993	1,172	127	67	156	151	108	123	118	44	9	80	84	105
4708703088	Pennzoil Products Company	1994	655	73	27	65	56	41	43	76	68	70	43	28	65
4708703088	Pennzoil Products Company	1995	192	63	63	66	0	0	0	0	0	0	0	0	0
4708703088	Pennzoil Products Company	1996	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703088	Pennzoil Products Company	1997	0	0	0	0	0	0	0	0	0	0	0	0	0

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SOURCE	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703088	Original Loc	Mahonig Sa/Big Dunk	Well Record	575	Reasonable	130	Reasonable	904	Derrick Floor
4708703088	Original Loc	Salt Sands (undiff)	Well Record	1376	Reasonable	344	Reasonable	904	Derrick Floor
4708703088	Original Loc	Maxton	Well Record	1720	Reasonable	20	Reasonable	904	Derrick Floor
4708703088	Original Loc	Little Lime	Well Record	1740	Reasonable	40	Reasonable	904	Derrick Floor
4708703088	Original Loc	Pencil Cave	Well Record	1786	Reasonable	8	Reasonable	904	Derrick Floor
4708703088	Original Loc	Big Lime	Well Record	1794	Reasonable	123	Reasonable	904	Derrick Floor

3088

4708703088	Original Loc	Big Injun (Price&eq)	Well Record	[illegible]	Reasonable	30	Reasonable	904	Derrick Floor
4708703088	Original Loc	Undif PRICE blw INJN	Well Record	[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703088	1300	1941		G [illegible]	[illegible]	[illegible]	1[illegible]	1945											300	1941	N	Y	[illegible]						

Comment: *logs: caliper, CCL

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703088gco.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron–SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL–casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL–Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708703088	11/10/1997	0

There is no Sample data for this well

30888

Roa 3088 F

Farm.
County.
W. M. Looney
Roane
Contractor.
Completed Dec 14 1902
REMARKS
Smithfield Districts
O. Co
10 5 Ac
1902
BOTTOM

. 18 ... W. M. Looney Farm.

Well No. 17 W. M. Looney Farm.
Lease No. Smithfield District Roane County.
Rig built by S. P. O. Co
Well drilled by S P D 5 Ac Contractor.
Began drilling May 23 1903 Completed July 3 1903

ROCK FORMATION	TOP	BOTTOM	REMARKS
Conductor		16	
Big Dunkard	575	705	
Slate & Lime	705	1376	
Gas Sand	1376	1398	
Salt "	1398	1720	
Water Hole full	1554		
Maron Sand	1720	1740	
Little Lime	1740	1780	
Pencil Cave	1786	1794	
Big Lime	1794	1917	
Big Injun	1917	1947	
Oil & Gas	1922		
Total depth		1952	

RECEIVED
DEC 10 1971
OIL & GAS DIVISION
DEPT. OF MINES

CASING RECORD

Size	CHARGED TO WELL Feet	In.	PUT IN WELL Feet	In.	PULLED OUT Feet	In.	LEFT IN WELL Feet	In.	Transferred before Completion Feet	In.	Left at Well Not in Use Feet	In.
10			150						Shot 7/7/13		20 qt. B Injun	
8 1/4			620						" 3/12/34		30 " B Injun	
6 5/8			1852									
5 3/8			1892									

Production First 24 Hours } 30 ... [illegible]

3088

WR-38
20-Oct-97

API # 47- 87-03088-P

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
SECTION OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: BOOTH, FERRELL Operator Well No.: W. M. LOONEY 17

LOCATION: Elevation: 903.69 Quadrangle: TARIFF
District: SMITHFIELD County: ROANE
Latitude: 1800 Feet South of 38 Deg. 40 Min. 0 Sec.
Longitude 800 Feet West of 81 Deg. 12 Min. 30 Sec.

Well Type: OIL ✓ GAS ____

Company: Clowser Well Service Inc
RT 2 Box 22 A
Salem WV 26426

Coal Operator or Owner: NA

Agent: John Clowser

Coal Operator or Owner: NA

Permit Issued: 10/20/97

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

John Clowser and Steven Miner being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well, and Homer Doucherty Oil and Gas Inspector representing the Director, say that said work was commenced on the 28th day of Oct, 1997, and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
CMT	1931'	1665'	2 3/8 @ 1900'	
Gel 6%	1665'	1068'	4½" @ 1041'	851'
CMT	1068'	920'	7" cut @ 1020'	832'
Gel 6%	920'	700'		
CMT	700'	600'		
Gel 6%	600'	182'	8" cut @ 167'	452'
CMT	182'	0'		

12/12/97

Description of monument: Set 7" marker w/ API # 3' above ground level.
and that the work of plugging and filling said well was completed on the 10th day of Nov., 1997.

And furthur deponents saith not.

John Clowser

Steven L. Miner

Sworn and subscribed before me this 10th day of November, 1997

My commission expires: 5/3/2005

Denise L. Evans
Notary Public

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
DENISE L. EVANS
ROUTE 4, BOX 623-A
CLARKSBURG, WV 26301
My Commission Expires May 3, 2005

Oil and Gas Inspector: Homer Doucherty

ROA 3088-P

WVGES GEOLOGY UNCOVERS LIES IT ALL

"Pipeline"

Select County: (087) Roane

Enter Permit #: 3095

Get Data | Reset

Select datatypes: (Check All)

- Location
- Owner/Completion
- Pay/Show/Water
- Production
- Stratigraphy
- Logs
- Plugging
- Sample
- Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information

WV Geological & Economic Survey:

Well: County = 87 Permit = 3095

Report Time: Monday, May 18, 2020 11:57:45 PM

Well Reassignment Information: Reassigned From

OLD_COUNTY	OLD_PERMIT	NEW_COUNTY	NEW_PERMIT
87	50125	87	3095

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_15	QUAD_75	LAT_DD	LON_DD	UTME	UTMN
4708703095	Roane	3095	Smithfield	Tariff	Otter	38.652764	-81.217653	481061.3	4278267.1

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SURF	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703095	2/24/1913	Original Loc	Completed	W M Looney	16					South Penn Oil (S. Penn Nat. Gas)			
4708703095	3/12/1941	Worked Over	Completed	W M Looney	16					Pennzoil Company			
4708703095	5/4/1972	Worked Over	Completed	W M Looney, C Dalton	16				Charles E Looney et al	Pennzoil Company			

Completion Information:

API	CMP_DT	ARUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT
4708703095	2/24/1913	1/2/1913	1135	Ground Level	Tariff(Tlmn)	Undf PRICE btw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	Cable Tool	Shot	2156		2156		0	0	0	19			0	0	0
4708703095	3/12/1941	-/-/-	1135	Ground Level	Tariff(Tlmn)	Undf PRICE btw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	Cable Tool	Shot	2156		0		0	0	0	0			0	0	0
4708703095	5/4/1972	-/-/-	1135	Ground Level	Tariff(Tlmn)	Undf PRICE btw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil and Gas	Cable Tool	Fractured	2156		0		0	40	0	25			0	0	0

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QUAN
4708703095	2/24/1913	Pay	Oil	Vertical			2133	Big Injun (Price&eq)	0	19			
4708703095	2/24/1913	Show	Gas	Vertical			2133	Big Injun (Price&eq)	0	0			
4708703095	3/12/1941	Pay	Oil & Gas	Vertical	2135	Big Injun (Price&eq)	2150	Big Injun (Price&eq)	0	0			
4708703095	5/4/1972	Pay	Oil	Vertical	2125	Big Injun (Price&eq)	2155	Big Injun (Price&eq)	0	25			
4708703095	5/4/1972	Pay	Gas	Vertical	125	Big Injun (Price&eq)	2155	Big Injun (Price&eq)	0	40			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703095	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703095	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708703095	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708703095	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703095	Pennzoil Products Company	1989	118	13	0	0	0	10	11	19	14	18	12	9	12
4708703095	Pennzoil Products Company	1990	326	14	10	44	37	15	22	25	22	33	26	29	49
4708703095	Pennzoil Products Company	1991	652	40	41	28	26	31	40	97	59	50	93	65	83
4708703095	Pennzoil Products Company	1992	590	92	80	66	59	36	48	39	19	27	49	37	38
4708703095	Pennzoil Products Company	1993	289	32	28	21	18	31	21	28	17	26	20	18	29
4708703095	Pennzoil Products Company	1994	509	43	24	13	17	64	56	76	50	49	43	33	41
4708703095	Pennzoil Products Company	1995	279	8	30	15	12	18	27	23	28	30	29	28	31
4708703095	Pennzoil Products Company	1996	146	0	0	15	23	13	12	18	17	12	11	12	13
4708703095	Pennzoil Products Company	1997	36	7	8	5	5	5	4	0	0	0	1	0	1
4708703095	Pennzoil Products Company	1998	119	0	0	5	15	15	17	18	15	16	18	0	0
4708703095	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708703095	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708703095	Triad Resources, Inc.	2004	88	6	5	8	8	9	11	8	9	11	8	4	0
4708703095	Triad Resources, Inc.	2005	101	9	5	12	2	3	7	8	12	10	12	12	9
4708703095	Triad Resources, Inc.	2006	93	10	7	7	6	8	8	8	8	8	8	8	7
4708703095	Triad Resources, Inc.	2007	62	8	7	7	5	2	2	6	6	6	4	5	4
4708703095	Triad Resources, Inc.	2008	72	5	4	4	4	3	5	4	3	7	8	11	14
4708703095	Triad Resources, Inc.	2009	33	8	3	3	3	5	5	3	0	0	1	1	1
4708703095	Triad Hunter LLC	2010	39	6	2	3	3	3	5	5	4	3	3	2	0
4708703095	Triad Hunter LLC	2011	11	1	1	1	1	0	3	1	1	1	1	0	0
4708703095	Triad Hunter LLC	2012	15	1	1	1	2	2	2	1	2	2	1	0	0
4708703095	Triad Hunter LLC	2013	12	1	1	1	1	1	1	1	1	1	1	1	1
4708703095	Triad Hunter LLC	2014	8	1	1	1	0	1	0	1	0	1	1	1	0
4708703095	Triad Hunter LLC	2015	6	0	0	0	1	3	1	1	0	0	0	0	0
4708703095	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703095	Ground Resources, LLC	2017	216	0	0	0	0	0	0	49	43	37	34	22	33
4708703095	Ground Resources, LLC	2018	[illegible]	[illegible]	[illegible]	44	[illegible]	28	[illegible]	0	[illegible]	33	36	[illegible]	28

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703095	Pennzoil Company	1981	101	0	0	0	0	0	0	0	0	0	0	0	0
4708703095	Pennzoil Company	1982	248	0	0	0	0	0	0	0	0	0	0	0	0
4708703095	Pennzoil Company	1983	436	0	0	0	0	0	0	0	0	0	0	0	0
4708703095	Pennzoil Company	1984	1,012	0	0	0	0	0	0	0	0	0	0	0	0
4708703095	Pennzoil Products Company	1989	422	0	39	41	34	41	38	39	35	27	30	48	50
4708703095	Pennzoil Products Company	1990	1,116	134	124	53	77	72	70	79	76	78	122	109	122
4708703095	Pennzoil Products Company	1991	1,973	80	74	99	138	265	144	129	253	174	211	214	192
4708703095	Pennzoil Products Company	1992	1,290	151	141	88	111	87	49	68	125	106	130	110	124
4708703095	Pennzoil Products Company	1993	1,072	64	87	130	73	76	82	76	66	54	108	151	105

3095

4708703095	Pennzoil Products Company	1994	1,775	60	58	222	176	249	172	179	147	108	143	113	148
4708703095	Pennzoil Products Company	1995	1,077	135	97	80	115	103	115	117	111	104	100	0	0
4708703095	Pennzoil Products Company	1996	805	143	132	62	42	47	50	44	50	53	58	64	60
4708703095	Pennzoil Products Company	1997	261	54	58	68	58	23	0	0	0	0	0	0	0
4708703095	Pennzoil Products Company	1998	534	30	57	65	53	50	49	54	61	53	62	0	0
4708703095	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708703095	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708703095	Triad Resources, Inc.	2004	329	31	31	31	31	30	30	22	28	24	23	21	27
4708703095	Triad Resources, Inc.	2005	610	72	47	54	64	54	62	63	65	73	96	78	62
4708703095	Triad Resources, Inc.	2006	630	46	66	71	84	45	56	71	64	91	65	78	93
4708703095	Triad Resources, Inc.	2007	966	79	93	62	106	76	89	78	83	70	78	72	80
4708703095	Triad Resources, Inc.	2008	1,004	77	105	53	94	69	47	82	84	117	104	67	105
4708703095	Triad Resources, Inc.	2009	654	27	0	60	90	78	63	58	55	47	70	61	47
4708703095	Triad Hunter LLC	2010	319	68	9	53	10	9	60	10	10	66	10	14	0
4708703095	Triad Hunter LLC	2011	649	48	65	55	46	56	54	51	55	55	59	63	42
4708703095	Triad Hunter LLC	2012	557	33	42	36	27	45	68	25	73	52	56	43	57
4708703095	Triad Hunter LLC	2013	581	54	57	63	44	53	63	32	46	33	37	46	53
4708703095	Triad Hunter LLC	2014	540	41	35	46	46	47	43	38	55	49	40	49	51
4708703095	Triad Hunter LLC	2015	452	50	28	20	47	38	50	37	19	41	28	67	27
4708703095	Triad Hunter LLC	2016	216					33	22	24	33	23	33	26	22
4708703095	Ground Resources, LLC	2017	327	33	17	31	31	25	27	30	22	25	36	28	22
[illegible]	Ground Resources, LLC	2018	314	23	[illegible]	[illegible]	[illegible]	28	[illegible]	21	14	21	17	31	19

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703095	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703095	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703095	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703095	Triad Hunter LLC	2016	0												
4708703095	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703095	Triad Hunter LLC	2016	0												
4708703095	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphic Information:

API	SITE	FM	FM_ABILITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703095	Original Loc	Buffio Sa/1st Cow Rn	Well Record	690	Reasonable	20	Reasonable	1135	Ground Level
4708703095	Original Loc	Mehonig Sa/Big Dunk	Well Record	790	Reasonable	150	Reasonable	1135	Ground Level
4708703095	Original Loc	Lo Frprt Sa/Frprt Sa	Well Record	1335	Reasonable	40	Reasonable	1135	Ground Level
4708703095	Original Loc	Salt Sands (undiff)	Well Record	1637	Reasonable	198	Reasonable	1135	Ground Level
4708703095	Original Loc	Maxton	Well Record	1935	Reasonable	41	Reasonable	1135	Ground Level
4708703095	Original Loc	Little Lime	Well Record	1976	Reasonable	36	Reasonable	1135	Ground Level
4708703095	Original Loc	Pencil Cave	Well Record	2012	Reasonable	3	Reasonable	1135	Ground Level
4708703095	Original Loc	Big Lime	Well Record	2015	Reasonable	110	Reasonable	1135	Ground Level
4708703095	Original Loc	Big Injun (Price&eq)	Well Record	2125	Reasonable	30	Reasonable	1135	Ground Level
4708703095	Original Loc	Undf PRICE btw INJN	Well Record	2155	Reasonable	0	Reasonable	1135	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEPTH_FMT	LOGS	AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_PRO
4708703095	1598	2150		G,C *		Y	N	1598	2158											1600	2150	N	Y	N						

Comment: *logs: caliper, CCL

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703095gco.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron–SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL–casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL–Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

3095

Roa 3095 F

Well No. 16 W. M. Looney Farm.
Lease No. Smithfield District Roane County.
Rig built by J O O Co
Well drilled by A O D T Ac Contractor.
Began drilling Jany 2 1973 Completed Feby 24 1973

ROCK FORMATION	TOP	BOTTOM	REMARKS
Conductor		16	
Little Dunkard	690	710	
Big Do	790	940	
Gas Sand	1335	1375	
Salt Sand	1637	1837	
Water (Hole full)	1760	1775	
Maxon Sand	1935	1976	
Little Lime	1976	2012	
Pencil Cave	2012	2015	
Big Lime	2015	2125	
Big Injun	2125	2155	
Oil & Gas	2133		
Total depth		2156	

"Shot 3-14-41 — 30 Qts. @ 2135-2150"

CASING RECORD

Size	CHARGED TO WELL Feet	In.	PUT IN WELL Feet	In.	PULLED OUT Feet	In.	LEFT IN WELL Feet	In.	Transferred before Completion Feet	In.	Left at Well Not in Use Feet	In.
10			212		212				Shot 2/24/13		20 qts. 8 3/4	
8 1/4			800		800							
6 5/8			2042									

Production First 24 Hours 19 Bbls. Signed W. H. Graham Supt.

Approved by _____ Superintendent

RECEIVED
MAR 22 1972
OIL & GAS DIVISION
DEPT. OF MINES

"Pipeline"

Select County: (087) Roane

Enter Permit #: 3097

Get Data | Reset

Select datatypes: (Check All)

- Location
- Production
- Plugging
- Owner/Completion
- Stratigraphy
- Sample
- Pay/Show/Water
- Logs
- Btm Hole Loc

Table Descri tions
County Code Translations
Permit-Number Ser es
Usage Notes
Contact Information

WV Geological & Economic Survey:

Well: County = 087 Permit = 3097

Report Time: Tuesday, May 19, 2020 12:02:24 AM

Well Reassignment Information: Reassigned From

OLD_COUNTY	OLD_PERMIT	NEW_COUNTY	NEW_PERMIT
87	50127	87	3097

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703097	Roane	3097	Smithfield	Tariff	Otter	38.661174	-81.216604	481154.8	4279200

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_NO	PROP_TRGT_FM	TFM_EST_PR
4708703097	12/16/1919	Original Loc	Completed	W M Looney	25					South Penn Oil (S. Penn Nat. Gas)			
4708703097	8/18/1943	Worked Over	Completed	W M Looney	25					Pennzoil Company			
4708703097	7/27/1972	Worked Over	Completed	W M Looney : J Lloyd	25				Charles E Looney et al	Pennzoil Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT
4708703097	12/16/1919	10/24/1919	1094	Ground Level	Tariff(Tlmn)	Undf PRICE btw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	Cable Tool	Shot	2142		2142		0	0	0	2			0	0	
4708703097	8/18/1943	-/-/-	1094	Ground Level	Tariff(Tlmn)	Undf PRICE btw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	Cable Tool	Shot	2142		0		0	0	0	0			0	0	
4708703097	7/27/1972	-/-/-	1094	Ground Level	Tariff(Tlmn)	Undf PRICE btw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil and Gas	Cable Tool	Fractured	2142		0		0	25	0	35			0	0	

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	S_BEF	S_AFT	O_BEF	O_AFT	WATER_QUALITY
4708703097	12/16/1919	Show	Gas	Vertical	2104	Big Injun (Price&eq)	0		0	0			
4708703097	12/16/1919	Show	Gas	Vertical			2027	Big Lime	0	0			
4708703097	7/27/1972	Pay	Gas	Vertical	2090	Big Lime	2125	Big Injun (Price&eq)	0	35			
4708703097	7/27/1972	Pay	Oil	Vertical	2090	Big Lime	2125	Big Injun (Price&eq)	0	25			
4708703097	8/18/1943	Pay	Oil & Gas	Vertical	2106	Big Injun (Price&eq)	2127	Big Injun (Price&eq)	0	0			
4708703097	12/16/1919	Pay	Oil	Vertical	2104	Big Injun (Price&eq)	2130	Big Injun (Price&eq)	0	2			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708703097	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703097	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708703097	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708703097	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703097	Pennzoil Products Company	1989	85	9	1	0	0	8	8	14	10	13	8	6	8
4708703097	Pennzoil Products Company	1990	3,267	7	10	26	12	289	403	411	376	555	411	412	355
4708703097	Pennzoil Products Company	1991	2,808	323	244	289	270	220	160	204	142	184	206	274	292
4708703097	Pennzoil Products Company	1992	1,698	288	221	214	189	144	120	108	130	75	77	86	46
4708703097	Pennzoil Products Company	1993	535	51	42	53	34	43	67	111	52	26	13	23	20
4708703097	Pennzoil Products Company	1994	224	24	18	13	19	23	21	19	18	17	17	18	17
4708703097	Pennzoil Products Company	1995	43	22	12	5	2	2	0	0	0	0	0	0	0
4708703097	Pennzoil Products Company	1996	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703097	Pennzoil Products Company	1997	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703097	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703097	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708703097	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708703097	Triad Resources, Inc.	2004	10	0	0	0	10	0	0	0	0	0	0	0	0
4708703097	Triad Resources, Inc.	2005	5	5	0	0	0	0	0	0	0	0	0	0	0
4708703097	Triad Resources, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703097	Triad Resources, Inc.	2007	5	0	0	0	0	0	0	0	0	0	0	0	5
4708703097	Triad Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703097	Triad Resources, Inc.	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703097	Triad Hunter LLC	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703097	Triad Hunter LLC	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703097	Triad Hunter LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703097	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703097	Triad Hunter LLC	2014	20	0	0	0	0	3	2	2	2	3	2	3	3
4708703097	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703097	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703097	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703097	Ground Resources, LLC	2018	44	0	0	44	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708703097	Pennzoil Company	1981	101	0	0	0	0	0	0	0	0	0	0	0	0
4708703097	Pennzoil Company	1982	248	0	0	0	0	0	0	0	0	0	0	0	0
4708703097	Pennzoil Company	1983	438	0	0	0	0	0	0	0	0	0	0	0	0
4708703097	Pennzoil Company	1984	1,013	0	0	0	0	0	0	0	0	0	0	0	0
4708703097	Pennzoil Products Company	1989	308	0	28	30	24	30	28	28	24	19	22	25	50
4708703097	Pennzoil Products Company	1990	10,965	80	40	995	1,381	1,191	1,210	1,323	1,195	1,080	876	866	728
4708703097	Pennzoil Products Company	1991	7,526	849	797	707	554	558	345	477	561	741	742	668	527
4708703097	Pennzoil Products Company	1992	3,291	486	458	353	278	237	327	191	195	247	167	177	185

3097

4708703097	Pennzoil Products Company	1993	1,725	165	169	180	232	307	247	75	14	71	73	85	77
4708703097	Pennzoil Products Company	1994	725	64	66	79	66	61	61	62	19	59	58	41	49
4708703097	Pennzoil Products Company	1995	36	19	8	9	0	0	0	0	0	0	0	0	0
4708703097	Pennzoil Products Company	1996	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703097	Pennzoil Products Company	1997	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703097	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703097	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708703097	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	18	30	38	50	45
4708703097	Triad Resources, Inc.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703097	Triad Resources, Inc.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703097	Triad Resources, Inc.	2006	5	0	5	0	0	0	0	0	0	0	0	0	0
4708703097	Triad Resources, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703097	Triad Resources, Inc.	2008	2	0	0	0	0	0	0	0	0	0	0	0	2
4708703097	Triad Resources, Inc.	2009	2	0	0	0	0	0	0	0	0	0	0	0	2
4708703097	Triad Hunter LLC	2010	2	0	0	0	0	0	0	0	0	0	0	0	2
4708703097	Triad Hunter LLC	2011	2	0	0	0	0	0	0	0	0	0	0	0	2
4708703097	Triad Hunter LLC	2012	2	0	0	0	0	0	0	0	0	0	0	0	2
4708703097	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703097	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703097	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703097	Triad Hunter LLC	2016	0												
4708703097	Ground Resources, LLC	2017	0												
4708703097	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_BBL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708703097	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703097	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703097	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703097	Triad Hunter LLC	2016	0												
4708703097	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_BBL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708703097	Triad Hunter LLC	2016	0												
4708703097	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703097	Original Loc	Buffalo Sa/1st Cow Rn	Well Record	690	Reasonable	45	Reasonable	1094	Ground Level
4708703097	Original Loc	Mahonig Sa/Big Dunk	Well Record	790	Reasonable	115	Reasonable	1094	Ground Level
4708703097	Original Loc	Salt Sands (undiff)	Well Record	1608	Reasonable	232	Reasonable	1094	Ground Level
4708703097	Original Loc	Maxton	Well Record	1840	Reasonable	30	Reasonable	1094	Ground Level
4708703097	Original Loc	Little Lime	Well Record	1880	Reasonable	90	Reasonable	1094	Ground Level
4708703097	Original Loc	Pencil Cave	Well Record	1970	Reasonable	7	Reasonable	1094	Ground Level
4708703097	Original Loc	Big Lime	Well Record	1977	Reasonable	117	Reasonable	1094	Ground Level
4708703097	Original Loc	Big Injun (Price&eq)	Well Record	2094	Reasonable	36	Reasonable	1094	Ground Level
4708703097	Original Loc	Undif PRICE btw INJN	Well Record	2130	Reasonable	0	Reasonable	1094	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	COMPANY_TOOL	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703097	1550	2146		G C *	Y	N		1550	2146										1550	2144	N	Y	N						

Comment: *logs: caliper, CCL

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703097gco.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

3097

ROA 3097 F

5 Wm. Looney
60218 Smithfield District Roane County Wva. State
Farm 450 Acres
Contractor SOUTH PENN DRILLING TOOLS ARE Contractor
Commenced Oct. 24, 1919 Drilling Completed Dec. 16, 1919
N. S. 53-54 E. W. 55

ROCK FORMATION	TOP	BOTTOM	STEEL LINE MEASUREMENT	REMARKS
Conductor		16		
Red Rock & Slate	16	670		
Little Dunkard	670	735		
Slate	735	790		
Big Dunkard	790	905		
Slate & Sand	905	1608		
Salt Sand	1608	1840		
Water Hole Full		1738		
Maxon Sand	1840	1870		
Slate	1870	1880		
Little Lime	1880	1970		
Pencil Cave	1970	1977		
Big Lime	1977	2094	1979	Bottom 6 5/8 Csg
Water & Light Gas		2027	2045	Bottom 5 3/16 Csg
Big Injun	2094	2130	2094	36'
Oil & Gas	2104			
Slate	2130	2142		
Total Depth		2142	2142	

CASING RECORD AS TALLIED. NOT STEEL LINE MEASUREMENT

SIZE	PUT IN WELL FEET	PUT IN WELL IN.	PULLED OUT FEET	PULLED OUT IN.	LEFT IN WELL FEET	LEFT IN WELL IN.
10"	210	-				
8 1/4	790	-				
6 5/8	1999	-				
5 3/16	2065					

Shot Date 12/22/19 8-18-43
Amount 10 qts. 30 qts.
Sand Big Injun 2106½-2127
Result Good

Packer Size 5 3/16 X 6 5/8 Lead B.T.

Depth Set 2045

Production First 24 Hours 2 Bbls. Gas Test

Approved by J. L. Graham Superintendent

Approved by [illegible] Superintendent

Approved by Superintendent

RECEIVED
APR 28 1972
OIL & GAS DIVISION
DEPT. OF MINES

"Pipeline"

Select County: (087) Roane

Enter Permit #: 3127

Get Data | Reset

Select datatypes: (Check All)

- Location
- Owner/Completion
- Pay/Show/Water
- Production
- Stratigraphy
- Logs
- Plugging
- Sample
- Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series

WV Geological & Economic Survey:

Well: County = 087 Permit = 3127

Report Time: Tuesday, May 19, 2020 12:12:22 AM

Well Reassignment Information: Reassigned From

OLD_COUNTY	OLD_PERMIT	NEW_COUNTY	NEW_PERMIT
87	50159	87	3127

Location Information: View Map

API	COUNTY	PERMIT	FIELD/DISTRICT	QUAD_TL	QUAD_LR	LAT_DD	LON_DD	UTME	UTMN
4708703127	Roane	3127	Smithfield	Tariff	Otter	38.659327	-81.215722	481231	4278994.9

There is no Bottom Hole Location data for this well

Owner Information:

API	COMP_DT	SUFFIX	STATUS	OPER	ACE_OWN	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TYP	RGT_FM	TFM_EST_PR
4708703127	10/5/1916	Original Loc	Completed	W M Looney		23					South Penn Oil (S. Penn Nat. Gas)				
4708703127	7/12/1943	Worked Over	Completed	W M Looney		23					Pennzoil Company				
4708703127	10/9/1972	Worked Over	Completed	W M Looney	J Lo	23				Charles E Loo	Pennzoil				

Completion Information:

API	COMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FMT	DEEPEST_FM	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT
4708703127	10/5/1916	8/26/1916	980	Ground Level	Tariff(Timn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	Cable Tool	Shot	2027	2027		0	0	0	0	0			0	0	0
4708703127	7/12/1943	-/-/-	980	Ground Level	Tariff(Timn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	unknown	Shot	2027		0	0	0	0	0	0			0	0	0
4708703127	10/9/1972	-/-/-	980	Ground Level	T(Timn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil and Gas	Cable Tool	Fractured	2027		0	0	25	0	15				0	0	0

Pay/Show/Water Information:

API	COMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QUALITY
4708703127	10/5/1916	Show	Oil & Gas	Vertical			1922	Big Lime	0	0			
4708703127	10/5/1916	Pay	Oil & Gas	Vertical			1980	Big Injun (Price&eq)	0	0			
4708703127	10/9/1972	Pay	Gas	Vertical	1974	Big Injun (Price&eq)	2000	Big Injun (Price&eq)	0	25			
4708703127	10/9/1972	Pay	Oil	Vertical	1974	Big Injun (Price&eq)	2000	Big Injun (Price&eq)	0	15			
4708703127	7/12/1943	Pay	Oil & Gas	Vertical	1980	Big Injun (Price&eq)	2004	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703127	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703127	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708703127	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708703127	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703127	Pennzoil Products Company	1989	166	17	2	0	0	13	14	25	18	23	15	17	22
4708703127	Pennzoil Products Company	1990	4,457	19	312	502	320	411	366	421	304	531	421	407	443
4708703127	Pennzoil Products Company	1991	3,948	338	322	320	315	320	254	400	356	356	303	344	320
4708703127	Pennzoil Products Company	1992	3,317	341	261	288	247	277	290	307	278	336	272	215	205
4708703127	Pennzoil Products Company	1993	2,029	197	108	181	116	122	180	222	134	221	182	200	166
4708703127	Pennzoil Products Company	1994	1,911	179	135	90	159	152	168	146	196	168	164	156	170
4708703127	Pennzoil Products Company	1995	1,278	263	121	134	91	94	81	90	81	57	73	84	109
4708703127	Pennzoil Products Company	1996	796	58	69	63	65	63	82	112	34	67	65	60	58
4708703127	Pennzoil Products Company	1997	201	51	43	35	9	20	38	5	0	0	0	0	0
4708703127	Pennzoil Products Company	1998	337	0	0	8	33	38	26	48	52	61	71	0	0
4708703127	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708703127	Triad Resources, Inc.	2003	64	8	6	7	2	7	6	4	4	7	4	5	2
4708703127	Triad Resources, Inc.	2004	88	6	5	8	9	9	11	8	9	11	8	4	0
4708703127	Triad Resources, Inc.	2005	101	9	5	12	2	3	7	8	12	10	12	12	9
4708703127	Triad Resources, Inc.	2006	93	10	7	7	6	8	8	8	8	8	8	8	7
4708703127	Triad Resources, Inc.	2007	62	8	7	7	5	2	2	6	6	6	4	5	4
4708703127	Triad Resources, Inc.	2008	72	5	4	4	4	3	5	4	3	7	8	11	14
4708703127	Triad Resources, Inc.	2009	33	6	3	3	3	6	5	3	0	0	1	1	1
4708703127	Triad Hunter LLC	2010	39	6	2	3	3	3	5	5	4	3	3	2	0
4708703127	Triad Hunter LLC	2011	11	1	1	1	1	0	3	1	1	1	1	0	0
4708703127	Triad Hunter LLC	2012	15	1	1	1	2	2	2	1	2	2	1	0	0
4708703127	Triad Hunter LLC	2013	12	1	1	1	1	1	1	1	1	1	1	1	1
4708703127	Triad Hunter LLC	2014	8	1	1	1	0	1	0	1	0	1	1	1	0
4708703127	Triad Hunter LLC	2015	6	0	0	0	1	3	1	1	0	0	0	0	0
4708703127	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703127	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703127	Ground Resources, LLC	2018	[illegible]	0	0	4	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703127	Pennzoil Company	1981	101	0	0	0	0	0	0	0	0	0	0	0	0
4708703127	Pennzoil Company	1982	248	0	0	0	0	0	0	0	0	0	0	0	0
4708703127	Pennzoil Company	1983	438	0	0	0	0	0	0	0	0	0	0	0	0
4708703127	Pennzoil Company	1984	1,012	0	0	0	0	0	0	0	0	0	0	0	0
4708703127	Pennzoil Products Company	1989	2,125	0	50	52	43	52	48	49	45	51	57	65	1,613
4708703127	Pennzoil Products Company	1990	13,989	1,519	1,070	1,414	1,256	1,221	978	1,284	1,222	1,067	1,090	906	962
4708703127	Pennzoil Products Company	1991	10,643	940	931	1,027	877	1,092	863	923	828	930	815	793	624
4708703127	Pennzoil Products Company	1992	7,999	655	598	681	668	676	701	848	691	620	701	682	478
4708703127	Pennzoil Products Company	1993	7,190	565	570	505	623	615	638	840	602	612	611	625	566

3127

4708703127	Pennzoil Products Company	1994	8,545	432	554	634	517	477	672	616	563	508	587	491	494
4708703127	Pennzoil Products Company	1995	4,666	538	444	426	342	394	305	288	341	417	501	198	472
4708703127	Pennzoil Products Company	1996	3,047	381	349	369	273	290	276	149	190	186	183	212	189
4708703127	Pennzoil Products Company	1997	748	181	178	147	171	71	0	0	0	0	0	0	0
4708703127	Pennzoil Products Company	1998	1,613	85	169	196	166	149	147	163	186	165	187	0	0
4708703127	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708703127	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708703127	Triad Resources, Inc.	2004	329	31	31	31	31	30	30	22	28	24	23	21	27
4708703127	Triad Resources, Inc.	2005	406	36	24	27	32	27	41	32	32	37	48	39	31
4708703127	Triad Resources, Inc.	2006	412	23	33	35	42	22	28	35	32	45	32	39	48
4708703127	Triad Resources, Inc.	2007	463	39	46	31	53	38	45	39	42	35	39	36	40
4708703127	Triad Resources, Inc.	2008	488	38	52	26	47	34	23	41	42	58	52	23	52
4708703127	Triad Resources, Inc.	2009	316	13	0	30	45	29	31	28	27	23	35	31	24
4708703127	Triad Hunter LLC	2010	160	34	5	26	5	5	30	5	5	33	5	7	0
4708703127	Triad Hunter LLC	2011	325	24	32	27	23	28	27	28	27	28	30	32	21
4708703127	Triad Hunter LLC	2012	278	16	21	18	13	23	34	12	36	26	28	22	29
4708703127	Triad Hunter LLC	2013	291	27	28	32	22	27	31	16	23	17	19	23	26
4708703127	Triad Hunter LLC	2014	270	20	18	23	23	24	21	19	28	24	20	24	26
4708703127	Triad Hunter LLC	2015	226	25	14	10	24	19	25	19	9	20	14	33	14
4708703127	Triad Hunter LLC	2016	0												
4708703127	Ground Resources, LLC	2017	0												
4708703127	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703127	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703127	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703127	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703127	Triad Hunter LLC	2016	0												
4708703127	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703127	Triad Hunter LLC	2016	0												
4708703127	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703127	Original Loc	Buffio Sa/1st Cow Rn	Well Record	580	Reasonable	30	Reasonable	980	Ground Level
4708703127	Original Loc	Mahonig Sa/Big Dunk	Well Record	675	Reasonable	110	Reasonable	980	Ground Level
4708703127	Original Loc	Salt Sands (undiff)	Well Record	1475	Reasonable	273	Reasonable	980	Ground Level
4708703127	Original Loc	Little Lime	Well Record	1815	Reasonable	35	Reasonable	980	Ground Level
4708703127	Original Loc	Pencil Cave	Well Record	1850	Reasonable	12	Reasonable	980	Ground Level
4708703127	Original Loc	Big Lime	Well Record	1862	Reasonable	112	Reasonable	980	Ground Level
4708703127	Original Loc	Big Injun (Price&eq)	Well Record	1974	Reasonable	35	Reasonable	980	Ground Level
4708703127	Original Loc	Undif PRICE (ie NJ)	Well Record	2009	Reasonable	0	Reasonable	980	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	L_TOP	L_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH	INCH6	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703127	1450	2014		G C *	Y	N	1450	2014											1450	2010	N	Y	N						

Comment: *logs: caliper, CCL

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703127_co.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

3127

3127

Roa 3127 F

W. M. Looney — Farm 480 Acres
Smithfield — District Roane — County W Va — State
O Co — Contractor S.O.D.T. Co. — Contractor
Commenced Aug 26 1916 — Drilling Completed Sept 29 1916
N. — S. 53-4 — E. — W. 44

ROCK FORMATION	TOP	BOTTOM	STEEL LINE MEASUREMENT	REMARKS
Conductor		16		
Little Dunkard	580	610		
Sand & Shells	610	675		
Big Dunkard	675	785		
Slate, sand & shells	785	1475		
Salt Sand	1475	1748		
Water hole free	1520			
Break	1748	1776		
Maxon Sand	1776	1815		
Little Lime	1815	1850		
Pencil Cave	1850	1862		
Big Lime	1862	1974	1871	
Gas Water Light show	1922			
Big Injun	1974	2009	1974	
Oil & Gas	1980			
Slate	2009	2027		
Total depth		2027	2027	

Shot 7-12-48-50 Qts. C 1984-2004 ft. Bound Shot.

CASING RECORD AS TALLIED. NOT STEEL LINE MEASUREMENT

SIZE	PUT IN WELL FEET	PUT IN WELL IN.	PULLED OUT FEET	PULLED OUT IN.	LEFT IN WELL FEET	LEFT IN WELL IN.
10	210					
8 1/4	690					
6 5/8	1890					

Shot Date 10-5-16
Amount 20 Qts
Sand B. Inj
Result

Packer Size

Depth Set

Production First 24 Hours ..... Bbls. Gas Test .....

Approved by W H Graham ..... Superintendent

Approved by ..... [illegible] ..... Superintendent

Approved by ..... Superintendent

RECEIVED
SEP 13 1972
OIL & GAS DIVISION
DEPT. OF MINES

"Pipeline"

Select County: (087) Roane

Enter Permit #: 3130

Get Data | Reset

Select datatypes: (Check All)

- Location
- Owner/Completion
- Pay/Show/Water
- Production
- Stratigraphy
- Logs
- Plugging
- Sample
- Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 3130

Report Time: Tuesday, May 19, 2020 12:18:27 AM

Well Reassignment Information: Reassigned From

OLD_COUNTY	OLD_PERMIT	NEW_COUNTY	NEW_PERMIT
87	50162	87	3130

Location Information: View Map

API	COUNTY	PERMIT	FIELD	DISTRICT	QUAD_7.5	QUAD_15	LAT	LON	UTMN	UTME
4708703130	Roane	3130	Smithfield	Tariff			5	-81.203442	452299.5	4279032.4

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	DO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	TRGT_FM	FM_DET_PR
4708703130	9/27/1911	Original Loc	Completed	P A Tallman	17					Carter Oil		
4708703130	5/6/1930	Worked Over	Completed	P A Tallman	17					South Penn Oil (S. Penn Nat. Gas)		
4708703130	11/10/1972	Worked Over	Completed	P A Tallman J McBride	17				C S Tallman Jr et al	Pennzoil Co		

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_
4708703130	9/27/1911	6/2/1911	984	Ground Level	Tariff(Timn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil	Cable Tool	Shot	2017	2017			0	0	0	0			0	0	0	
4708703130	5/6/1930	-/-/-	984	Ground Level	Tariff(Timn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil	unknown	Shot	2017		0		0	0	0	0			0	0	0	
4708703130	11/10/1972	-/-/-	984	Ground Level	Tariff(Timn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil and Gas	unknown	Shot	2017		0		0	25	0	12			0	0	0	

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703130	11/10/1972	Pay	Oil	Vertical	1974	Big Injun (Price&eq)	2006	Big Injun (Price&eq)	0	12			
4708703130	11/10/1972	Show	Gas	Vertical	1974	Big Injun (Price&eq)	2006	Big Injun (Price&eq)	0	25			
4708703130	5/6/1930	Pay	Oil & Gas	Vertical	1966	Big Injun (Price&eq)	2014	Big Injun (Price&eq)	0	0			
4708703130	9/27/1911	Pay	Oil	Vertical	1966	Big Injun (Price&eq)	2014	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708703130	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703130	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708703130	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708703130	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703130	Pennzoil Products Company	1989	210	20	9	19	12	14	26	42	17	7	14	13	17
4708703130	Pennzoil Products Company	1990	153	7	5	16	13	3	19	20	12	33	2	11	12
4708703130	Pennzoil Products Company	1991	147	13	14	18	11	11	11	14	12	15	8	9	11
4708703130	Pennzoil Products Company	1992	109	13	6	8	6	8	7	8	10	9	15	12	9
4708703130	Pennzoil Products Company	1993	111	8	7	7	8	8	6	9	10	12	11	11	12
4708703130	Pennzoil Products Company	1994	70	8	6	4	7	5	3	8	8	3	3	6	9
4708703130	Pennzoil Products Company	1995	15	4	5	1	3	2	0	0	0	0	0	0	0
4708703130	Pennzoil Products Company	1996	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703130	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708703130	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708703130	Triad Resources, Inc.	2004	88	6	5	8	9	9	11	8	9	11	8	4	0
4708703130	Triad Resources, Inc.	2005	101	9	5	12	2	3	7	8	12	10	12	12	9
4708703130	Triad Resources, Inc.	2006	93	10	7	7	6	8	8	8	8	8	8	8	7
4708703130	Triad Resources, Inc.	2007	62	8	7	7	5	2	2	6	6	6	4	5	4
4708703130	Triad Resources, Inc.	2008	72	5	4	4	4	3	5	4	3	7	8	11	14
4708703130	Triad Resources, Inc.	2009	33	6	3	3	3	5	5	3	0	0	1	1	1
4708703130	Triad Hunter LLC	2010	39	6	2	3	3	3	6	5	4	3	3	2	0
4708703130	Triad Hunter LLC	2011	11	1	1	1	1	0	3	1	1	1	1	0	0
4708703130	Triad Hunter LLC	2012	15	1	1	1	2	2	2	1	2	2	1	0	0
4708703130	Triad Hunter LLC	2013	12	1	1	1	1	1	1	1	1	1	1	1	1
4708703130	Triad Hunter LLC	2014	8	1	1	1	0	1	0	1	0	1	1	1	0
4708703130	Triad Hunter LLC	2015	6	0	0	0	1	3	1	1	0	0	0	0	0
4708703130	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703130	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703130	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708703130	Pennzoil Company	1981	508	0	0	[illegible]	0	0	0	0	0	0	0	0	0
4708703130	Pennzoil Company	1982	865	0	0	[illegible]	0	0	0	0	0	0	0	0	0
4708703130	Pennzoil Company	1983	629	0	0	[illegible]	0	0	0	0	0	0	0	0	0
4708703130	Pennzoil Company	1984	1,029	0	0	[illegible]	0	0	0	0	0	0	0	0	0
4708703130	Pennzoil Products Company	1989	559	55	43	[illegible]	84	89	47	16	40	39	41	24	25
4708703130	Pennzoil Products Company	1990	481	48	42	[illegible]	45	56	37	57	33	29	35	33	41
4708703130	Pennzoil Products Company	1991	442	56	39	[illegible]	30	38	33	42	25	32	39	44	31
4708703130	Pennzoil Products Company	1992	376	36	35	[illegible]	30	27	27	28	44	35	29	28	24
4708703130	Pennzoil Products Company	1993	341	24	25	[illegible]	22	25	32	43	28	34	36	24	22
4708703130	Pennzoil Products Company	1994	278	16	31	[illegible]	12	27	32	17	16	16	32	15	33
4708703130	Pennzoil Products Company	1995	66	19	24	[illegible]	0	0	0	0	0	0	0	0	0
4708703130	Pennzoil Products Company	1998	0	0	0	[illegible]	0	0	0	0	0	0	0	0	0

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4708703130	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708703130	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708703130	Triad Resources, Inc.	2004	329	31	31	31	31	30	30	22	28	24	23	21	27
4708703130	Triad Resources, Inc.	2005	136	12	8	9	11	9	14	11	11	12	16	13	10
4708703130	Triad Resources, Inc.	2006	140	8	11	12	14	8	9	12	11	15	11	13	16
4708703130	Triad Resources, Inc.	2007	182	13	16	10	18	13	15	13	14	12	13	12	13
4708703130	Triad Resources, Inc.	2008	186	13	17	9	16	11	8	14	14	19	17	11	17
4708703130	Triad Resources, Inc.	2009	108	4	0	10	15	13	10	9	9	8	12	10	8
4708703130	Triad Hunter LLC	2010	55	11	2	9	2	2	10	2	2	11	2	2	0
4708703130	Triad Hunter LLC	2011	109	8	11	9	8	9	9	9	9	9	10	11	7
4708703130	Triad Hunter LLC	2012	93	5	7	6	5	8	11	4	12	9	9	7	10
4708703130	Triad Hunter LLC	2013	97	9	9	11	7	9	10	5	8	6	6	8	9
4708703130	Triad Hunter LLC	2014	91	7	6	8	8	8	7	6	9	8	7	8	9
4708703130	Triad Hunter LLC	2015	75	8	5	3	8	6	8	6	3	7	5	11	5
4708703130	Triad Hunter LLC	2016	0												
4708703130	Ground Resources, LLC	2017	0												
4708703130	Ground Resources LLC	2018	[illegible]	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703130	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703130	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703130	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703130	Triad Hunter LLC	2016	0												
4708703130	Ground Resources LLC	2018	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703130	Triad Hunter LLC	2016	0												
4708703130	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703130	Original Loc	Cow Run (undiff)	Well Record	610	Reasonable	184	Reasonable	964	Ground Level
4708703130	Original Loc	1st Salt Sand	Well Record	1310	Reasonable	30	Reasonable	964	Ground Level
4708703130	Original Loc	2nd Salt Sand	Well Record	1356	Reasonable	10	Reasonable	964	Ground Level
4708703130	Original Loc	3rd Salt Sand	Well Record	1510	Reasonable	276	Reasonable	964	Ground Level
4708703130	Original Loc	Maxton	Well Record	1786	Reasonable	14	Reasonable	964	Ground Level
4708703130	Original Loc	Little Lime	Well Record	1815	Reasonable	25	Reasonable	964	Ground Level
4708703130	Original Loc	Pencil Cave	Well Record	1840	Reasonable	25	Reasonable	964	Ground Level
4708703130	Original Loc	Big Lime	Well Record	1871	Reasonable	115	Reasonable	964	Ground Level
4708703130	Original Loc	Big Injun (Price&eq)	Well Record	1986	Reasonable	28	Reasonable	964	Ground Level
4708703130	Original Loc	[illegible]	Well Record	2014	Reasonable	0	Reasonable	964	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	[illegible]	LOGS_A	[illegible]	[illegible]	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH1	REDUCED	KOP	LOGM1	ELEV_KB	ELEV_GL	ELEV_D1	LOG_[illegible]	RO
4708703130	[illegible]	[illegible]		[illegible]		Y	N		1250	[illegible]										1250	[illegible]	N	Y	N							

Comment: *logs: caliper, CCL

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703130gco.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l interolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

3130

WELL NO. [illegible] NAME Tillman, P.A. LEASE NO. 5909 ACRES 2350 N. S. 54 E. W. 54 DISTRICT SPENCER

District of Smithfield
County Ronald
State W. Va.
Commenced 8/2/11
Completed 4/27/11
Contractor Cody & Miller $1.15 Per Foot
Purchased From Carter Oil Co.
Date Purchased 1-1-26
Date Connected
Sold To
Date Sold
Date Plugged
Date Abandoned

CASING AND TUBING

Size	Put in Well	Left in Well	Pulled
13 In. Casing			
10 In. Casing	260		260
8¼ In. Casing	705		705
6½ In. Casing	1875	1875	
6¼ In. Casing			
5½ In. Casing	1801	1801	1793
4½ In. Casing			
2 In. Tubing	2007	2007	2007
2 In. Tubing	2007		
In. Tubing			

SHOOTING

Date	Qts.	Sand	Depth	Before	After
9-20-11	20			1 oz	10 ft
5-6-30	30	[illegible]		7 ft w	21 ft w
					10

Initial Oil Production 10 bbls
Initial Open Flow
Initial Rock Pressure

RECORD

Elevation at Mouth of Well

Formation	Top	Bottom	Thickness	Oil at	Gas at	Water at	Thickness of Pay
Pittsburgh Coal	936	938	2				
Red Rock Cave	300	400	10.0				
Cow Run (P)	610	620	10				
Cow Run (Second)	630	774	144				
Salt Sand (Upper)	1310	1340	30				
Salt Sand (Middle)	1355	1365	10				
Salt Sand (Lower)	1510	1786	276			Salt 1505	
Maxon	1786	1800	14				
Little Lime	1815	1840	25				
Pencil Cave	1840	1865	25				
Big Lime	1871	1986	115				
Keener Sand							
Injun Sand	1986	2014	28	1986			20
Squaw Sand							
Weir Sand							
Berea Sand							
Cantz Sand							
Fifty Foot Sand							
Thirty Foot Sand							
Gordon Stray							
Gordon Sand							
Fourth Sand							
Fifth Sand							
Corniferous Lime							
Niagara Lime							
Cave							
Clinton							
Medina Shale							
Trenton							
Total Depth	2017						

Remarks

PARTERS		
Size	Made	Set at
2 x 8	WB	1967

3130

WVGES GEOLOGY UNDER [illegible] ALL
"Pipeline"

Select County: [087] Roane
Enter Permit #: 3134
Get Data | Reset

Select datatypes: (Check All)
☑ Location ☑ Production ☑ Plugging
☑ Owner/Completion ☑ Stratigraphy ☑ Sample
☑ Pay/Show/Water ☑ Logs ☑ Btm Hole Loc

Table Descriptions
County Code Abbreviations
Permit Number Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 3134

Report Time: Tuesday, May 19, 2020 12:23:19 AM

Well Reassignment Information: Reassigned From

OLD_COUNTY	OLD_PERMIT	NEW_COUNTY	NEW_PERMIT
87	50166	87	3134

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703134	Roane	3134	Geary	Tariff	Otter	38.841815	-81.216676	481143.2	4277051.9

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFD_EST_PR
4708703134	1/1/1912	Original Loc	Completed	L A Hopkins	3					Pennzoil Company			
4708703134	3/9/1973	Worked Over	Completed	Ernest Truman	3					Pennzoil Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	BH_F
4708703134	1/1/1912	11/30/1911	1097	Ground Level	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	unclassified	unclassified	Oil	unknown	Shot	2110		2110		0	0	0	10			0	0	0	0	
4708703134	3/9/1973	-/-/-	1097	Ground Level	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Development Well	Development Well	Oil	unknown	Fractured	2110		0		0	0	0	0			0	0	0	0	

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER	QNTY
4708703134	3/9/1973	Pay	Oil	Vertical	2060	Big Injun (Price&eq)	2106	Big Injun (Price&eq)	0	0				
4708703134	1/1/1912	Pay	Oil	Vertical	[illegible]	Big Injun (Price&eq)	[illegible]	Big Injun (Price&eq)	0	0				

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708703134	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703134	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708703134	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708703134	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703134	Pennzoil Products Company	1989	1,196	67	62	42	85	137	121	120	130	109	108	109	106
4708703134	Pennzoil Products Company	1990	1,083	102	97	104	7	101	88	98	102	98	100	84	102
4708703134	Pennzoil Products Company	1991	1,029	87	83	79	62	85	92	103	86	91	99	78	84
4708703134	Pennzoil Products Company	1992	929	80	74	70	63	74	74	92	74	75	90	83	80
4708703134	Pennzoil Products Company	1993	820	78	72	48	55	59	64	74	77	77	72	71	72
4708703134	Pennzoil Products Company	1994	759	62	61	51	52	52	60	60	72	61	75	76	77
4708703134	Pennzoil Products Company	1995	808	98	70	67	62	52	71	68	68	64	71	56	63
4708703134	Pennzoil Products Company	1996	715	50	63	58	52	62	58	60	66	62	65	57	62
4708703134	Pennzoil Products Company	1997	540	46	48	60	63	68	65	22	0	0	29	64	73
4708703134	Pennzoil Products Company	1998	288	6	13	56	61	66	63	23	0	0	0	0	0
4708703134	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708703134	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708703134	Triad Resources, Inc.	2004	88	6	5	8	9	9	11	8	9	11	8	4	0
4708703134	Triad Resources, Inc.	2005	101	9	5	12	2	3	7	8	12	10	12	12	9
4708703134	Triad Resources, Inc.	2006	93	10	7	7	6	8	8	8	8	8	8	8	7
4708703134	Triad Resources, Inc.	2007	62	8	7	7	5	2	2	6	6	6	4	5	4
4708703134	Triad Resources, Inc.	2008	72	5	4	4	4	3	5	4	3	7	8	11	14
4708703134	Triad Resources, Inc.	2009	33	8	3	3	3	5	5	3	0	0	1	1	1
4708703134	Triad Hunter LLC	2010	39	6	2	3	3	3	5	5	4	3	3	2	0
4708703134	Triad Hunter LLC	2011	5	0	0	0	0	0	2	0	0	1	1	1	0
4708703134	Triad Hunter LLC	2012	15	1	1	1	2	2	2	1	2	2	1	0	0
4708703134	Triad Hunter LLC	2013	12	1	1	1	1	1	1	1	1	1	1	1	1
4708703134	Triad Hunter LLC	2014	8	1	1	1	0	1	0	1	0	1	1	1	0
4708703134	Triad Hunter LLC	2015	6	0	0	0	1	3	1	1	0	0	0	0	0
4708703134	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703134	Ground Resources, LLC	2017	36	0	0	0	0	0	0	1	0	0	5	11	19
4708703134	Ground Resources, LLC	2018	19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16	[illegible]	[illegible]	[illegible]	3	[illegible]	[illegible]

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708703134	Pennzoil Company	1981	313	0	0	0	0	0	0	0	0	0	0	0	0
4708703134	Pennzoil Company	1982	203	0	0	0	0	0	0	0	0	0	0	0	0
4708703134	Pennzoil Company	1983	370	0	0	0	0	0	0	0	0	0	0	0	0
4708703134	Pennzoil Company	1984	185	0	0	0	0	0	0	0	0	0	0	0	0
4708703134	Pennzoil Products Company	1989	1,325	46	99	127	122	122	124	114	121	102	124	129	95
4708703134	Pennzoil Products Company	1990	1,608	121	157	149	142	117	136	152	131	162	121	108	122
4708703134	Pennzoil Products Company	1991	1,527	124	131	122	110	141	135	123	137	137	126	127	112
4708703134	Pennzoil Products Company	1992	1,319	114	94	107	87	134	134	102	138	123	91	87	108
4708703134	Pennzoil Products Company	1993	854	80	92	69	98	29	30	26	102	104	77	78	69
4708703134	Pennzoil Products Company	1994	794	57	75	44	68	53	76	56	71	48	95	90	61
4708703134	Pennzoil Products Company	1995	848	74	52	98	65	70	59	76	72	56	109	61	56
4708703134	Pennzoil Products Company	1996	995	64	75	83	60	68	117	95	109	113	117	41	53
4708703134	Pennzoil Products Company	1997	346	61	64	87	95	39	0	0	0	0	0	0	0
4708703134	Pennzoil Products Company	1998	445	81	94	77	92	61	35	6	0	0	0	0	0

3134

4708703134	Triad Resources, Inc.	2002	60	0	0	0	0	11	10	12	4	12	14	5	12
4708703134	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708703134	Triad Resources, Inc.	2004	329	31	31	31	31	30	30	22	28	24	23	21	27
4708703134	Triad Resources, Inc.	2005	406	36	24	27	32	27	41	32	32	37	48	39	31
4708703134	Triad Resources, Inc.	2006	412	23	33	35	42	22	28	35	32	45	32	39	46
4708703134	Triad Resources, Inc.	2007	116	0	0	75	0	0	0	41	0	0	0	0	0
4708703134	Triad Resources, Inc.	2008	498	38	52	26	47	34	23	41	42	58	52	33	52
4708703134	Triad Resources, Inc.	2009	326	13	0	30	45	39	31	28	27	23	35	31	24
4708703134	Triad Hunter LLC	2010	322	34	5	26	6	5	30	47	46	33	43	48	0
4708703134	Triad Hunter LLC	2011	211	16	16	15	27	21	14	20	19	0	31	0	32
4708703134	Triad Hunter LLC	2012	515	16	60	18	51	23	74	12	75	26	70	22	68
4708703134	Triad Hunter LLC	2013	516	27	69	56	22	67	31	56	23	17	59	23	68
4708703134	Triad Hunter LLC	2014	448	20	58	23	62	24	21	19	28	64	20	65	44
4708703134	Triad Hunter LLC	2015	376	25	49	10	24	58	25	56	9	69	14	33	14
4708703134	Triad Hunter LLC	2016	131					9	10	28	10	28	9	11	26
4708703134	Ground Resources, LLC	2017	172	12	15	16	15	13		3	21	17	24	19	17
4708703134	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708703134	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703134	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703134	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703134	Triad Hunter LLC	2016	0												
4708703134	Ground Resources LLC	2018	[illegible]	[illegible]	0	0	0	[illegible]	0	0	0	0	0	[illegible]	[illegible]

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703134	Triad Hunter LLC	2016	0												
4708703134	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	Source	Formation	Pick Quality	Depth TVD	Depth Quality	Thickness	Thickness Quality	Elev	Datum
4708703134	Original Loc	Salt Sands (undiff)	Well Record	1575	Reasonable	300	Reasonable	1097	Ground Level
4708703134	Original Loc	Maxton	Well Record	1880	Reasonable	40	Reasonable	1097	Ground Level
4708703134	Original Loc	Little Lime	Well Record	1930	Reasonable	25	Reasonable	1097	Ground Level
4708703134	Original Loc	Pencil Cave	Well Record	1955	Reasonable	15	Reasonable	1097	Ground Level
4708703134	Original Loc	Big Lime	Well Record	1970	Reasonable	105	Reasonable	1097	Ground Level
4708703134	Original Loc	Big Injun (Berea&e	Well Record	2075	Reasonable	35	Reasonable	1097	Ground Level

There is no Wireline (E-Log) data for this well

There is no Plugging data for this well

There is no Sample data for this well

5154

Roane 3134 - F

3134

RECEIVED
FEB 12 1973
OIL & GAS DIVISION
DEPT. OF MINES

Well No. 3 L A Hopkins Farm.
Lease No. Geary District Roane County.
Rig built by S P Q Co
Well drilled by S P Q Co Contractor.
Began drilling Nov 30" 1971 Completed Jan. 1" 1972

ROCK FORMATION	TOP	BOTTOM	REMARKS
Conductor		16	
Little Hunnard	648	665	
Big Ho	720	835	
Gas Sand Fuel	975	1180	
" " second	1475	1540	
Salt Sand	1575	1875	
Water	1750	1815	
Maxon Sand	1880	1920	
Little Lime	1930	1955	
Pencil Cave	1955	1970	
Big Lime	1970	2075	
Big Injun	2075	2110	
First Pay	2090		
Second Pay	2100		
Total depth		2110	
		Ht 5-6-33-60 qts @ 2090'-2110'	

CASING RECORD

Size	CHARGED TO WELL Feet	In.	PUT IN WELL Feet	In.	PULLED OUT Feet	In.	LEFT IN WELL Feet	In.	Transferred before Completion Feet	In.	Left at Well Not in Use Feet	In.
10			211		211				Shot 1/4/72		20 qts B Ley.	
8 5/8			750		750				" 1944		60 qts	
6 5/8			1990									

Production First 24 Hours 10 Bbls. Signed John C Ford Supt.

ROANE 3134-F

3134

WR-35

RECEIVED
APR 03 1987
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date March 31, 1987
Operator's
Well No. 3
Farm L. A. Hopkins
API No. 47 - 087 - 3134-F

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil X / Gas ___ / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production ___ / Underground Storage ___ / Deep ___ / Shallow ___ /)

LOCATION: Elevation: 1097.66' Watershed Ashley Camp Run
District: Geary County Roane Quadrangle Otter 15'

COMPANY Pennzoil Company
ADDRESS P.O. Box 1588, Parkersburg, WV
DESIGNATED AGENT J. A. Crews
ADDRESS P.O. Box 1588, Parkersburg, WV
SURFACE OWNER Ernest J. Truman
ADDRESS Lefthand, WV
MINERAL RIGHTS OWNER Royalty Oil Co.
ADDRESS Pittsburgh, PA
OIL AND GAS INSPECTOR FOR THIS WORK Homer Dougherty ADDRESS Looneyville, WV 25259
PERMIT ISSUED 2-13-73
DRILLING COMMENCED
Frac ~~DRILLING~~ COMPLETED 3-9-73
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8			
7	1990'	1990'	
5 1/2			
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Big Injun Depth ___ feet
Depth of completed well 2110 feet Rotary ___ / Cable Tools ___
Water strata depth: Fresh ___ feet; Salt ___ feet
Coal seam depths: ___ Is coal being mined in the area? ___

OPEN FLOW DATA
Producing formation Big Injun Pay zone depth 2060-2106 feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow ___ Mcf/d Final open flow ___ Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure ___ psig (surface measurement) after ___ hours shut in
(If applicable due to multiple completion--)
Second producing formation ___ Pay zone depth ___ feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow ___ Mcf/d Oil: Final open flow ___ Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure ___ psig (surface measurement) after ___ hours shut in

(Continue on reverse side)

ROANE-3134-F

3134

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Frac 3-9-73 w/658 Bbls. water and 30,000# 20/40 sand.

RECEIVED
APR 03 1987
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all free and salt water, coal, oil and ga
SEE ORIGINAL WELL RECORD			

(Attach separate sheets as necessary)

PENNZOIL COMPANY
Well Operator

By: Curtis A. Lucas
Curtis A. Lucas

Date: March 31, 1987

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

"Pipeline"

Select County: (087) Roane

Enter Permit #: 3135

Get Data | Reset

Select datatypes: (Check All)

- Location
- Production
- Plugging
- Owner/Completion
- Stratigraphy
- Sample
- Pay/Show/Water
- Logs
- Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 87 Permit = 3135

Report Time: Tuesday, May 19, 2020 12:25:55 AM

Well Reassignment Information: Reassigned From

OLD_COUNTY	OLD_PERMIT	NEW_COUNTY	NEW_PERMIT
87	50167	87	3135

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_7.5	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703135	Roane	3135	Smithfield	Tariff	Otter	38.659073	-81.204792	482181.9	4278964.6

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SPUD_DT	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROJ_VD	PROJ_TGT	GT_FM	TFU_EST_PR
4708703135	6/12/1911	Original Loc	Completed	P A Tallman	12					Pennzoil Company				
4708703135	3/3/1973	Worked Over	Completed	Jones12						Pennzoil Company				

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	BH_T
4708703135	6/12/1911	3/18/1911	1226	Ground Level	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	unclassified	unclassified	Oil	unknown	Shot	2252	2252		0	0	0	0	12			0	0	0	0	
4708703135	3/3/1973	-/-/-	1226	Ground Level	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Development Well	Development Well	Oil	unknown	Fractured	2252		0	0	0	0	0	0			0	0	0	0	

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_SALTY
4708703135	6/12/1911	Pay	Oil	Vertical	2229	Big Injun (Price&eq)	0		0	12			
4708703135	3/3/1973	Pay	Oil	Vertical	2174	Big Injun (Price&eq)	2242	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708703135	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703135	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708703135	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708703135	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703135	Pennzoil Products Company	1989	1,081	89	42	75	48	38	59	0	152	237	139	0	202
4708703135	Pennzoil Products Company	1990	702	63	26	56	45	21	92	68	86	104	11	64	66
4708703135	Pennzoil Products Company	1991	621	76	74	70	47	10	113	44	83	44	36	13	11
4708703135	Pennzoil Products Company	1992	395	10	59	21	27	38	29	38	49	39	32	30	23
4708703135	Pennzoil Products Company	1993	269	24	17	20	12	23	11	51	28	23	40	9	11
4708703135	Pennzoil Products Company	1994	81	7	9	6	7	5	4	10	7	3	4	7	12
4708703135	Pennzoil Products Company	1995	7	4	3	0	0	0	0	0	0	0	0	0	0
4708703135	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703135	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708703135	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708703135	Triad Resources, Inc.	2004	10	0	0	0	10	0	0	0	0	0	0	0	0
4708703135	Triad Resources, Inc.	2005	5	5	0	0	0	0	0	0	0	0	0	0	0
4708703135	Triad Resources, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703135	Triad Resources, Inc.	2007	5	0	0	0	0	0	0	0	0	0	0	0	5
4708703135	Triad Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703135	Triad Resources, Inc.	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703135	Triad Hunter LLC	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703135	Triad Hunter LLC	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703135	Triad Hunter LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703135	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703135	Triad Hunter LLC	2014	19	0	0	0	0	2	3	1	2	3	3	2	3
4708703135	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703135	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703135	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703135	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708703135	Pennzoil Company	1981	508	0	0	0	0	0	0	0	0	0	0	0	0
4708703135	Pennzoil Company	1982	665	0	0	0	0	0	0	0	0	0	0	0	0
4708703135	Pennzoil Company	1983	629	0	0	0	0	0	0	0	0	0	0	0	0
4708703135	Pennzoil Company	1984	1,029	0	0	0	0	0	0	0	0	0	0	0	0
4708703135	Pennzoil Products Company	1989	3,194	220	151	151	187	183	413	516	408	470	145	217	133
4708703135	Pennzoil Products Company	1990	2,316	170	149	157	219	189	267	183	198	178	188	201	217
4708703135	Pennzoil Products Company	1991	1,689	213	158	30	296	123	228	122	107	42	37	37	298
4708703135	Pennzoil Products Company	1992	1,312	126	142	160	113	122	132	112	98	89	77	82	61
4708703135	Pennzoil Products Company	1993	734	69	37	74	30	143	87	81	102	29	31	21	30
4708703135	Pennzoil Products Company	1994	288	26	31	26	15	35	27	15	20	20	42	15	16
4708703135	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703135	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703135	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708703135	Triad Resources, Inc.	2003	377	25	24	25	28	28	30	28	28	30	38	50	45
4708703135	Triad Resources, Inc.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703135	Triad Resources, Inc.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0

3135

4708703135	Triad Resources, Inc.	2006	5	0	5	0	0	0	0	0	0	0	0	0
4708703135	Triad Resources, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0
4708703135	Triad Resources, Inc.	2008	2	0	0	0	0	0	0	0	0	0	0	2
4708703135	Triad Resources, Inc.	2009	2	0	0	0	0	0	0	0	0	0	0	2
4708703135	Triad Hunter LLC	2010	2	0	0	0	0	0	0	0	0	0	0	2
4708703135	Triad Hunter LLC	2011	2	0	0	0	0	0	0	0	0	0	0	2
4708703135	Triad Hunter LLC	2012	3	0	0	0	0	0	0	0	0	0	0	3
4708703135	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0
4708703135	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0
4708703135	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0
4708703135	Triad Hunter LLC	2016	0											
4708703135	Ground Resources, LLC	2017	0											
4708703135	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703135	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703135	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703135	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703135	Triad Hunter LLC	2016	0												
4708703135	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703135	Triad Hunter LLC	2016	0												
4708703135	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703135	Original Loc	Buffalo Sa/1st Cow Rn	Well Record	840	Reasonable	15	Reasonable	1226	Ground Level
4708703135	Original Loc	Lo Frprt Sa/Frprt Sa	Well Record	865	Reasonable	45	Reasonable	1226	Ground Level
4708703135	Original Loc	1st Salt Sand	Well Record	1545	Reasonable	35	Reasonable	1226	Ground Level
4708703135	Original Loc	2nd Salt Sand	Well Record	1640	Reasonable	25	Reasonable	1226	Ground Level
4708703135	Original Loc	3rd Salt Sand	Well Record	1720	Reasonable	285	Reasonable	1226	Ground Level
4708703135	Original Loc	Maxton	Well Record	2020	Reasonable	28	Reasonable	1226	Ground Level
4708703135	Original Loc	Little Lime	Well Record	2068	Reasonable	22	Reasonable	1226	Ground Level
4708703135	Original Loc	Pencil Cave	Well Record	2090	Reasonable	39	Reasonable	1226	Ground Level
4708703135	Original Loc	Big Lime	Well Record	2129	Reasonable	92	Reasonable	1226	Ground Level
4708703135	Original Loc	Big Injun (Price Sst)	Well Record	2221	Reasonable	0	Reasonable	1226	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FM	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703135	1477	2241		G.C.*	Y	N		1480	2241										1477	2241	N	Y	N						

Comment: *logs: caliper, CCL

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703135geo.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric absorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

3135

3135

Williams Well Surveys, Inc.

LOGGING
P. O. BOX 5245
VIENNA

Gamma Ray

FILING NO.
87-3135

COMPANY PENNZOIL COMPANY
WELL P.A. TALLMAN #12
FIELD SMITHFIELD DISTRICT
COUNTY ROANE STA

LOCATION:

SEC. TWP. RGE.

PERMANENT DATUM: GL ELEV. N.A.
LOG MEASURED FROM DF 0 FT. ABOVE PERM. DA
DRILLING MEASURED FROM

DATE	2-27-73	2-27-7
RUN NO.	One One	Two
TYPE LOG	G/R col	Caliper
DEPTH—DRILLER	2235	
DEPTH—LOGGER	2242	
BOTTOM LOGGED INTERVAL	2242	2241
TOP LOGGED INTERVAL	1500	2120
TYPE FLUID IN HOLE	Oil	
SALINITY, PPM CL		
DENSITY		
LEVEL		
MAX. REC. TEMP., DEG F.		
OPERATING RIG TIME	1½ Hrs. Total	
RECORDED BY	R. Williams	
WITNESSED BY	R.L. Kelley	

RUN NO.	BORE-HOLE RECORD BIT	FROM	TO	CAS SIZE	WGT.
	6¼	2128	TD	6 5/8"ID	

— PERFORATING
3105 GRAND CENTRAL AVE.
A, W. VA. 26101

and Caliper.

W. VA.

OTHER SERVICES:

ELEV.: K.B.
D.F.
G.L.

SING RECORD

FROM	TO
Surf.	2128

FOLD HERE

THIS HEADING AND LOG CONFORMS TO API RP 33

EQUIPMENT DATA

GAMMA RAY		Caliper
RUN NO.	1	2
TOOL MODEL NO.	GCN56XU4A	
DIAMETER	1 11/16	3 1/2
DETECTOR MODEL NO.	6PA16	
TYPE	SCINT.	3-Armed
LENGTH	2"	18"
DISTANCE TO N. SOURCE	—	
GENERAL		
HOIST TRUCK NO.	24	
INSTRUMENT TRUCK NO.	24	
TOOL SERIAL NO.		

[redacted]		
RUN NO.		
LOG TYPE	NN	
TOOL MODEL NO.	GCN56XU4A	
DIAMETER	3.5"	
DETECTOR MODEL NO.	BF3	
TYPE	H-3	
LENGTH	6"	
SOURCE MODEL NO.	G01-44	
SERIAL NO.	198-1660-01	
SPACING		
TYPE	AmBe	
STRENGTH	3 Curies	

LOGGING DATA

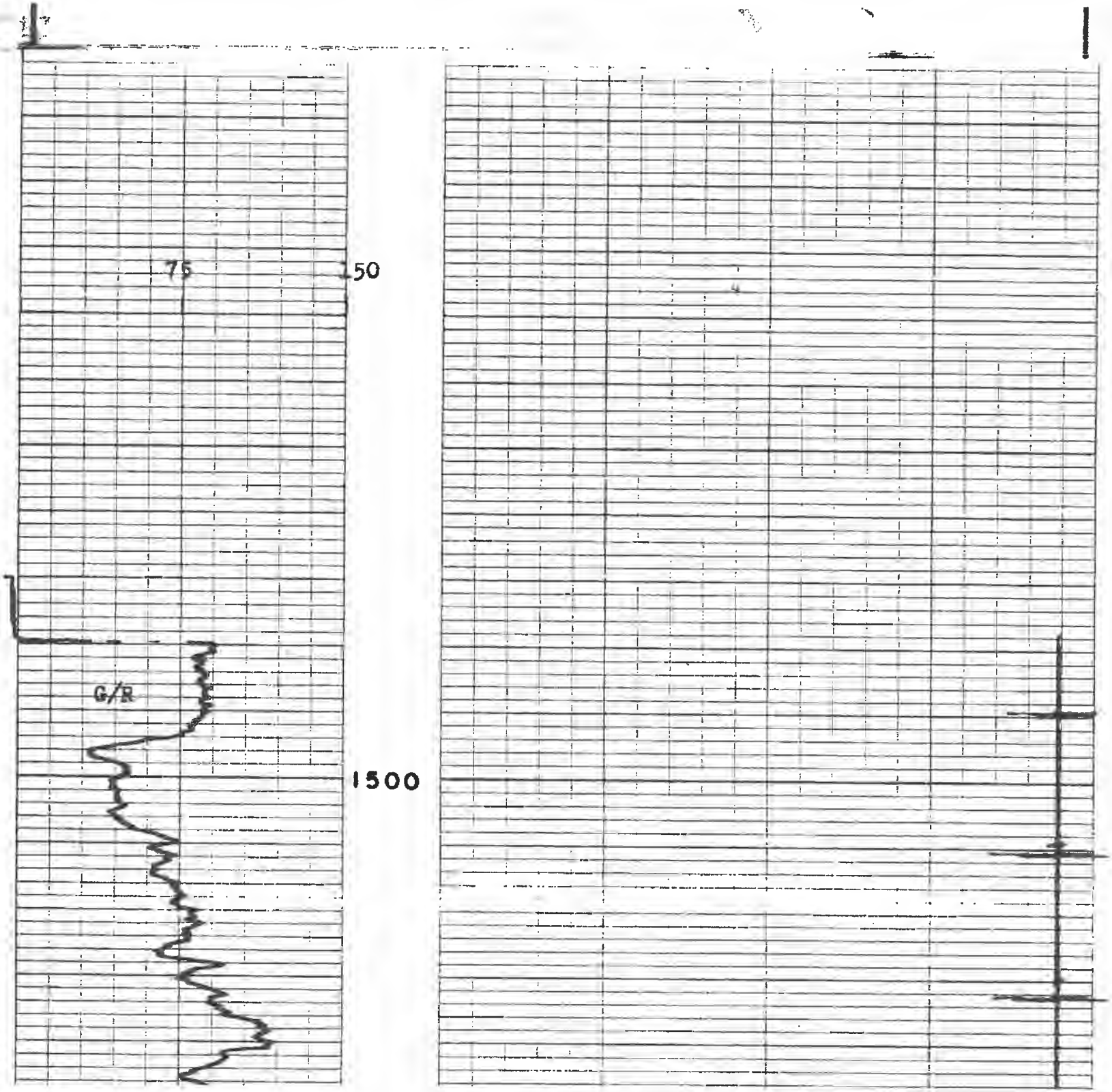
GENERAL				GAMMA RAY				[redacted]			
RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED FT/MIN.	T.C. SEC.	SENS. SETTINGS	ZERO DIV. L OR R	API G.R. UNITS PER LOG DIV.	T.C. SEC.	SENS. SETTINGS	ZERO DIV. L OR R	API N. UNITS PER LOG DIV.
1	2242	1500	25	2	140	OL	15				
2	2241	2120	25	3	¼"=1"	(Caliper)					

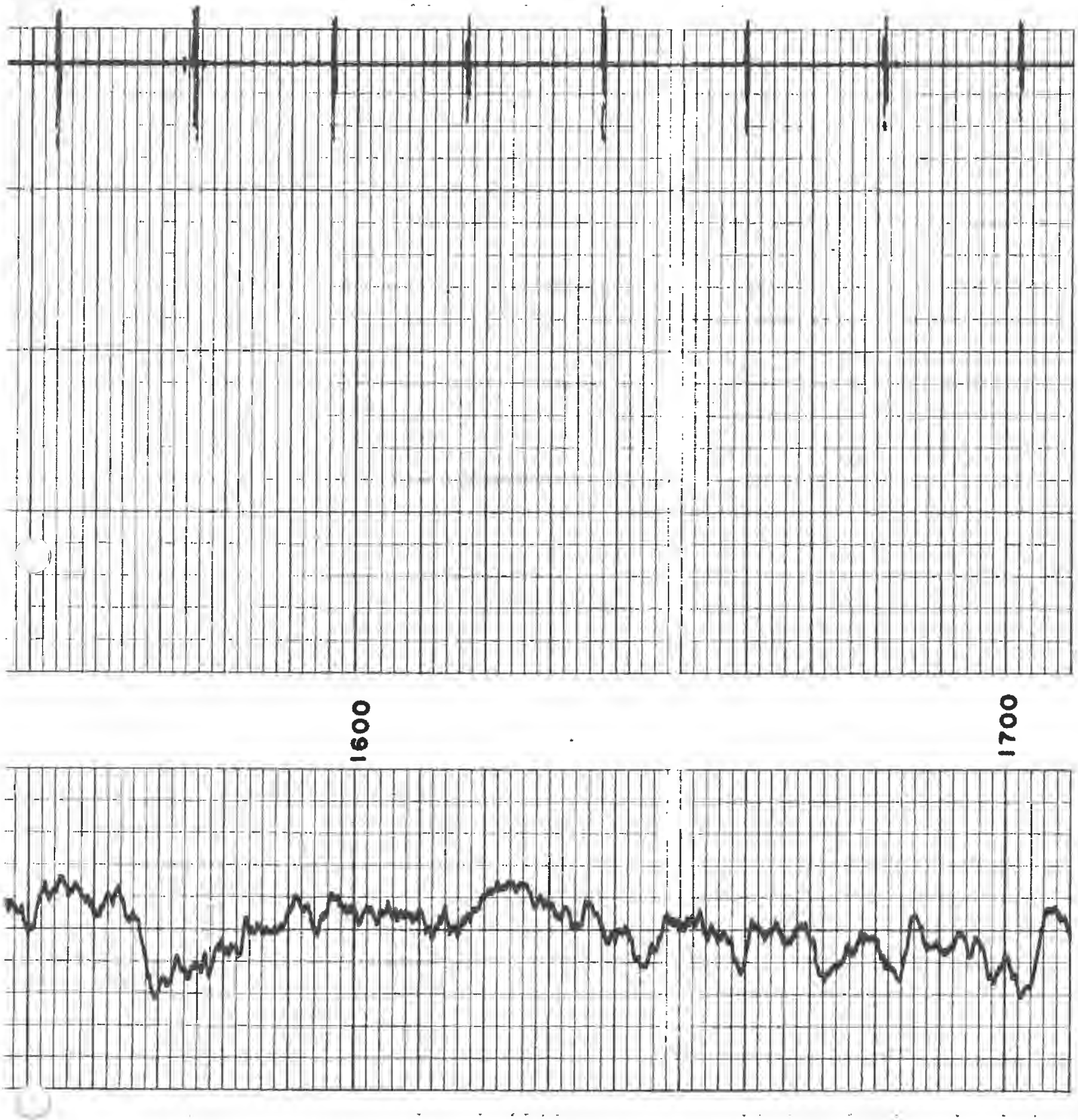
REFERENCE LITERATURE:

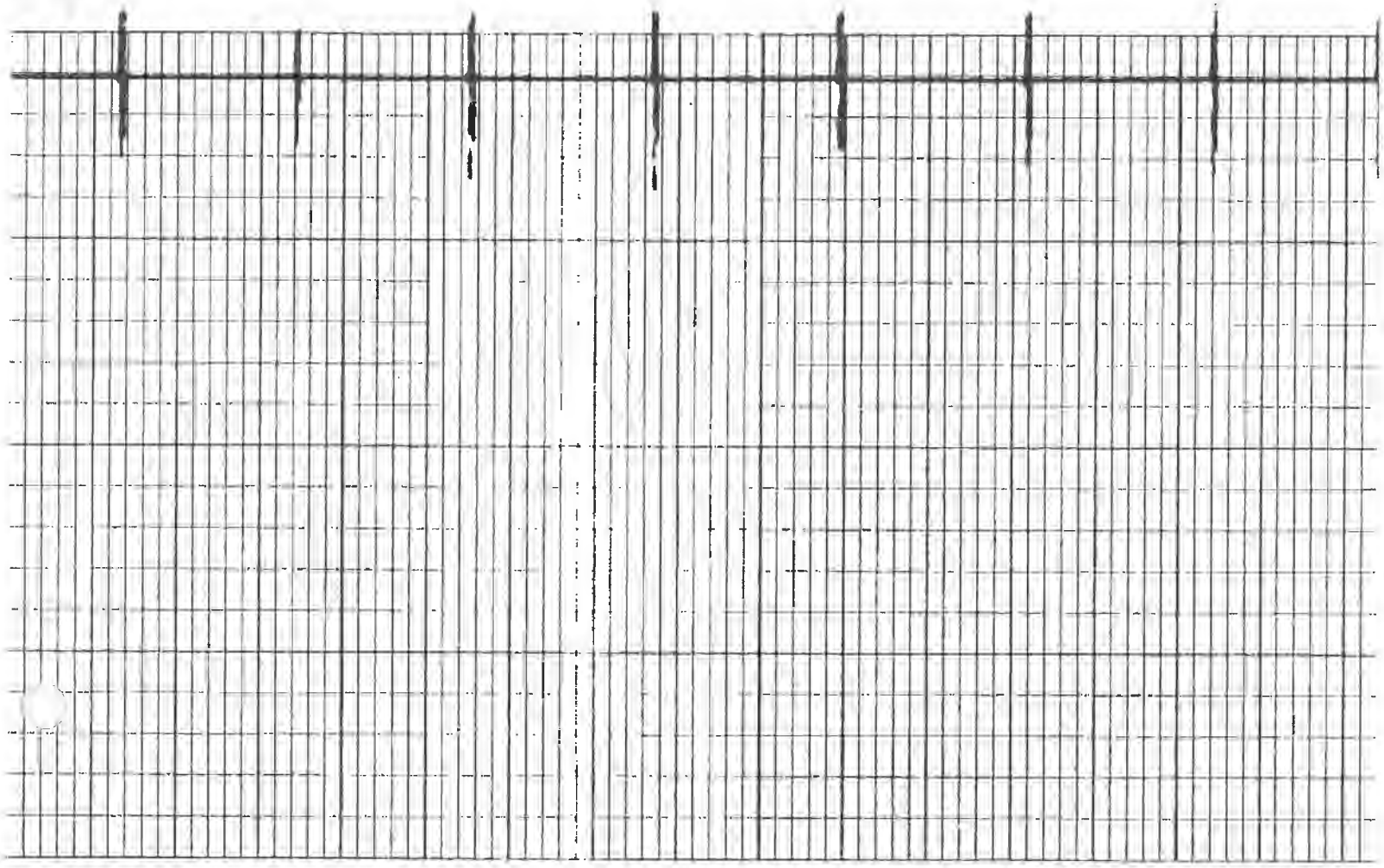
REMARKS Logs are original.

GAMMA RAY DEPTH NEUTRON CASING COLLARS

API UNITS API UNITS


75
50
G/R
1500


1600
1700



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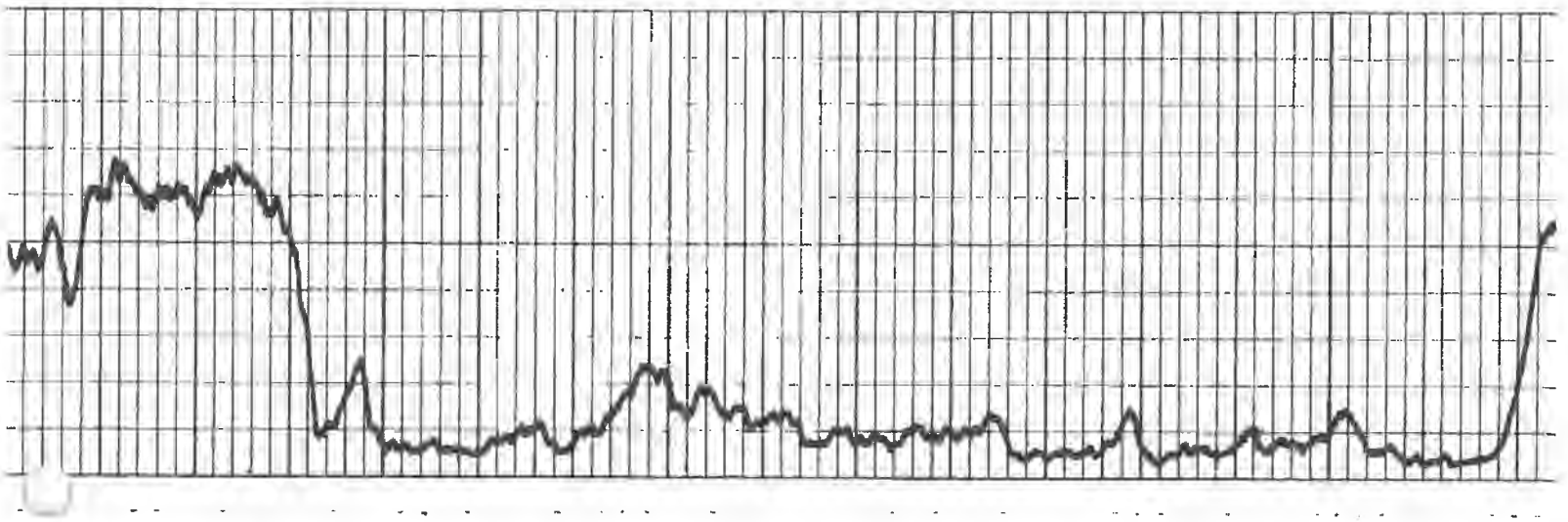
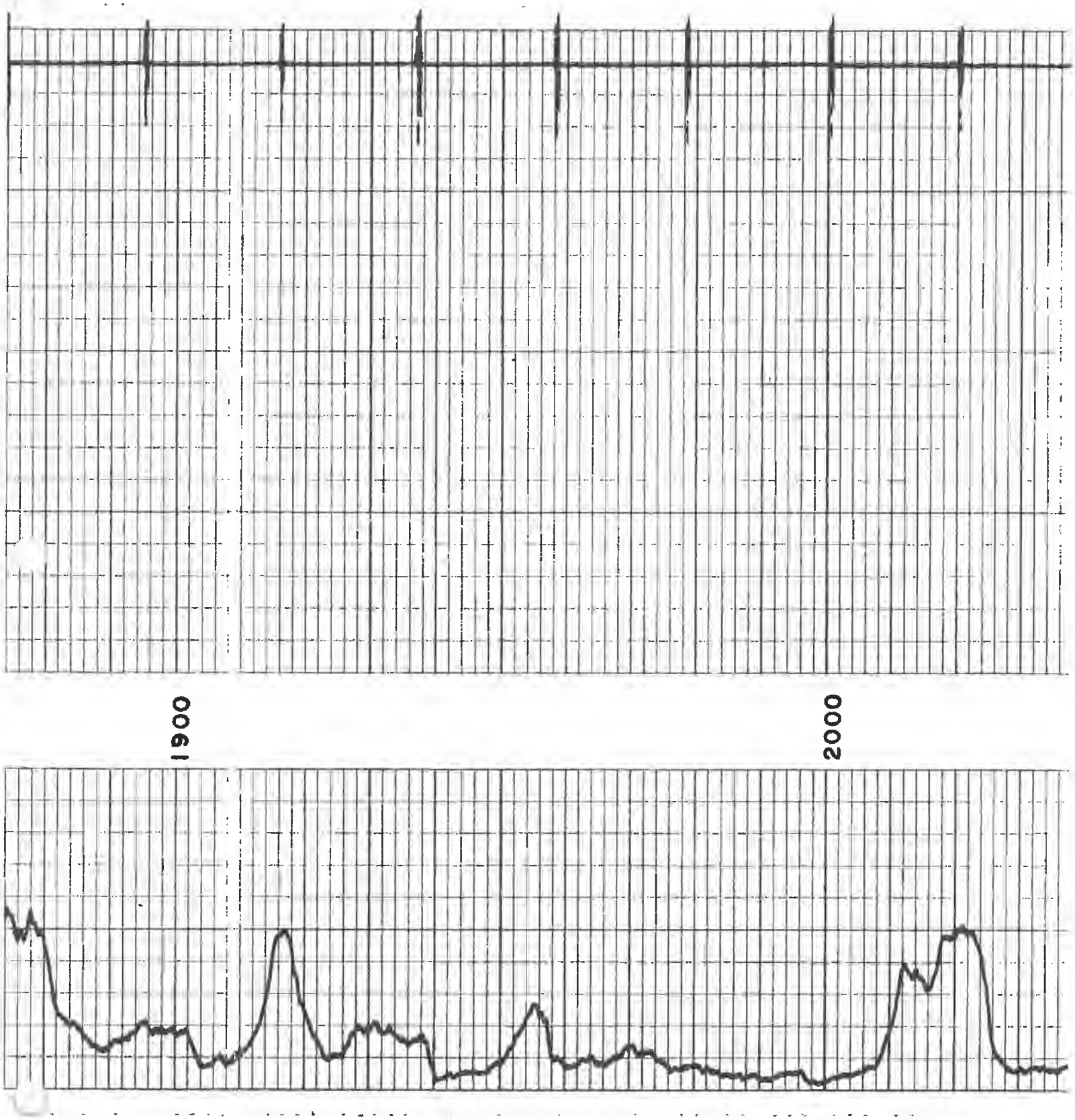
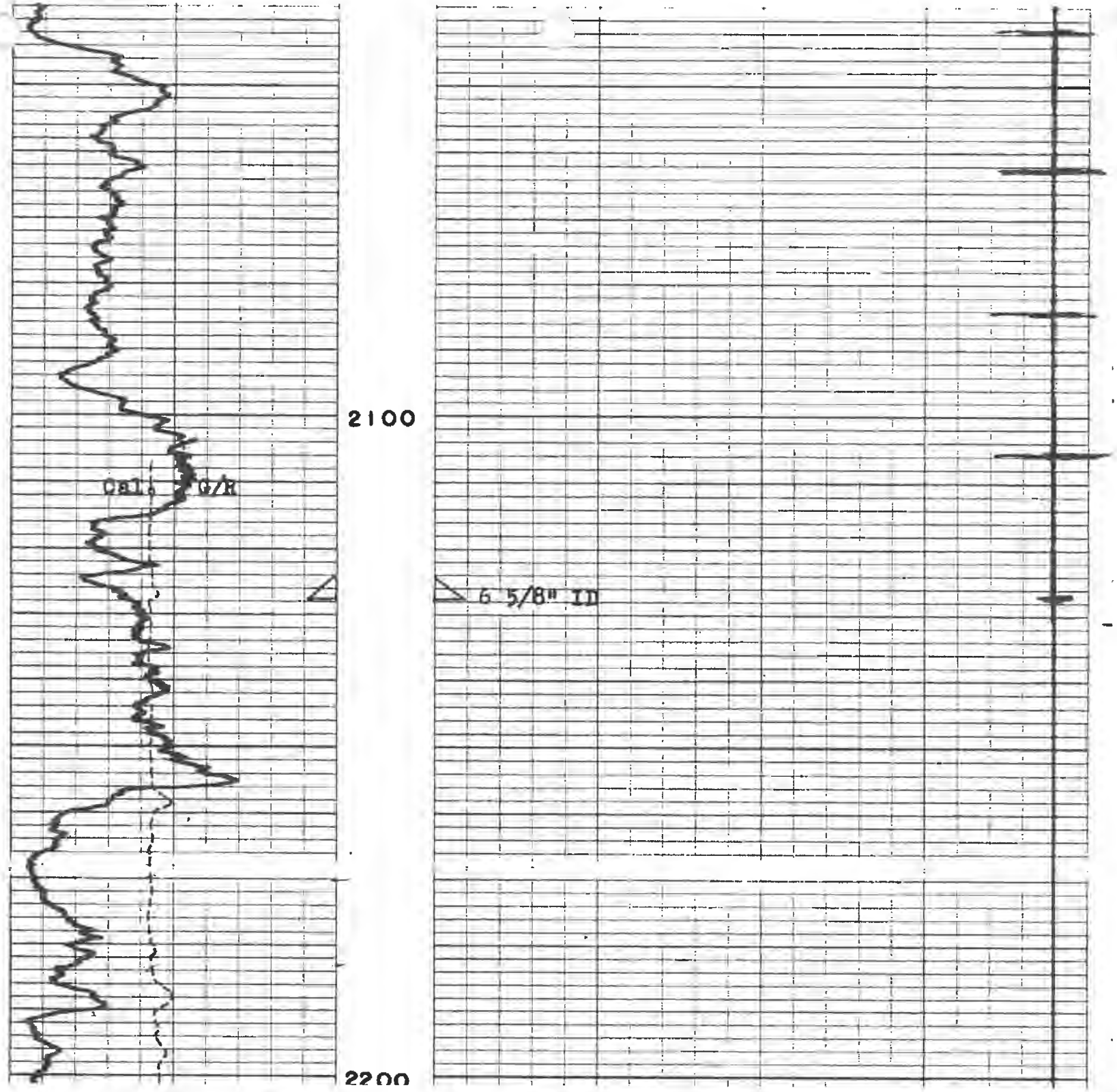
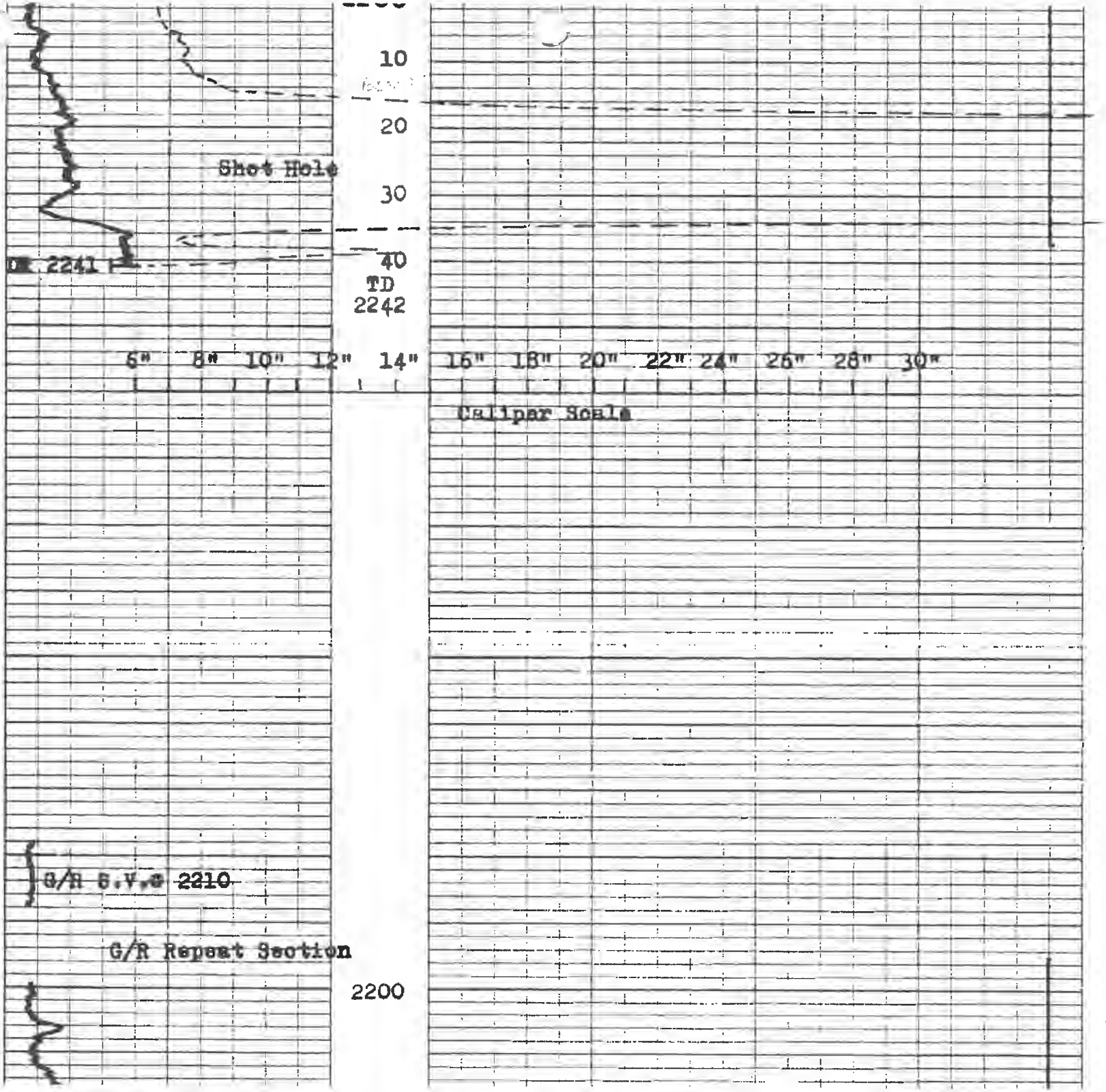
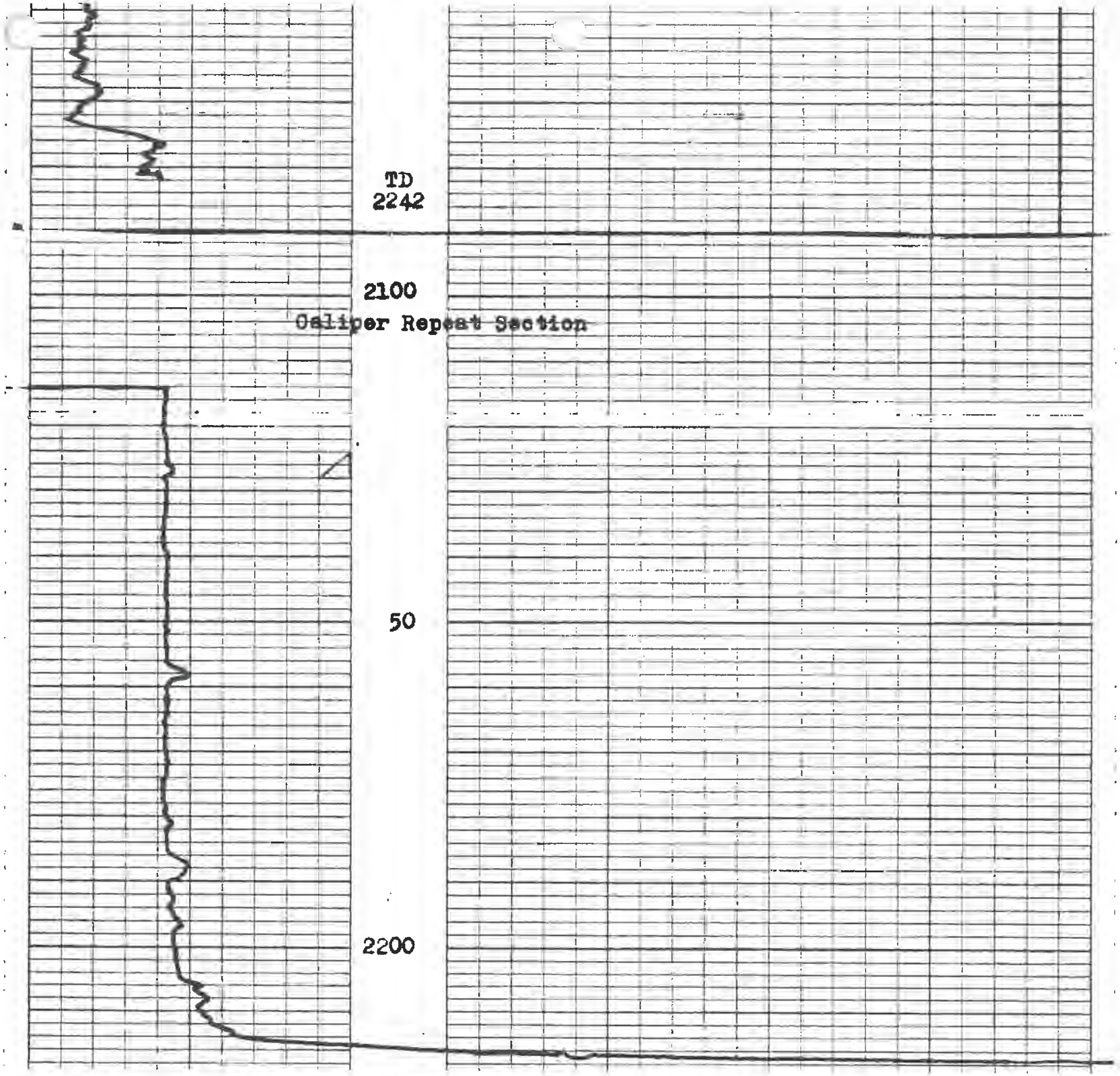
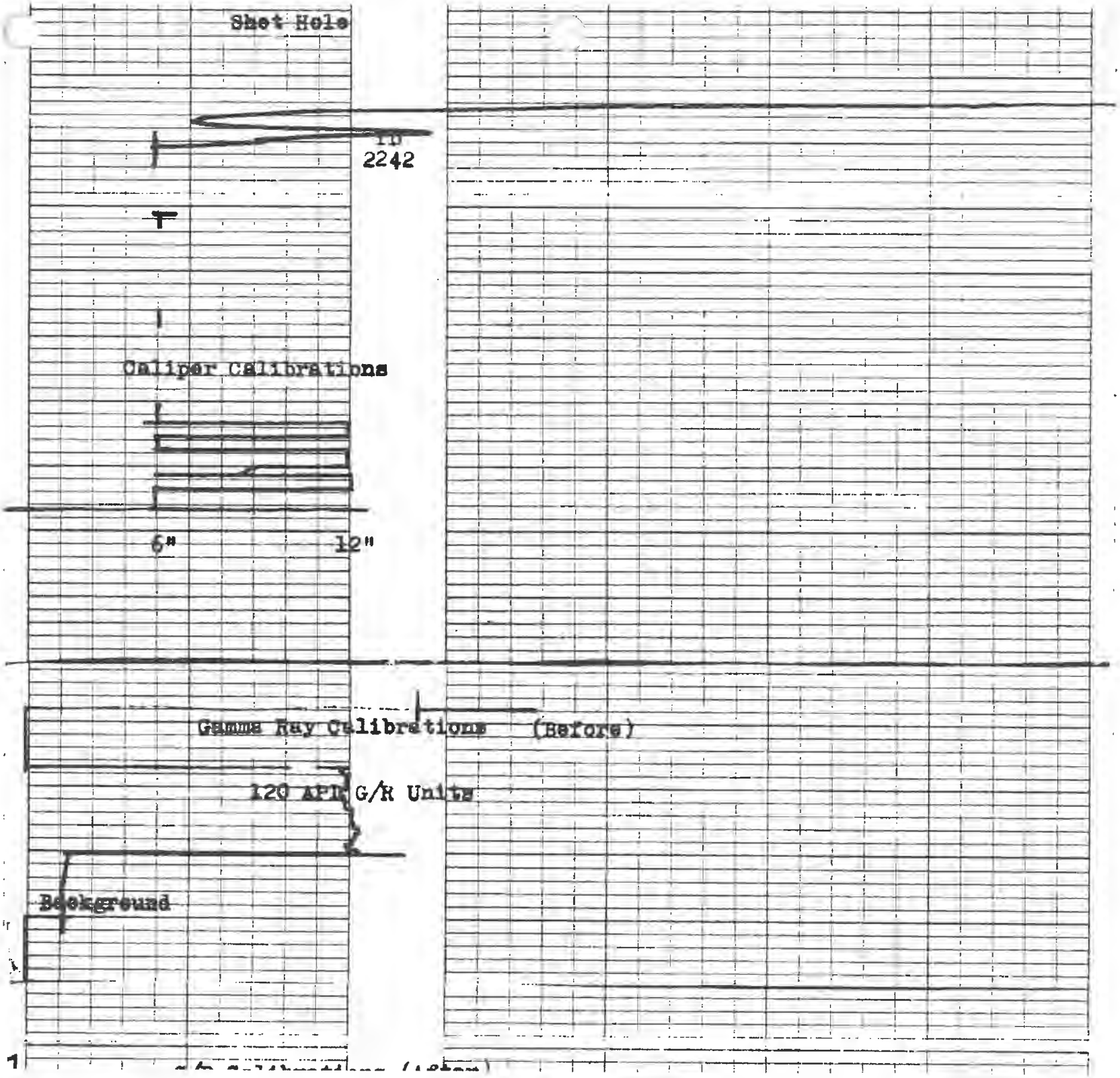


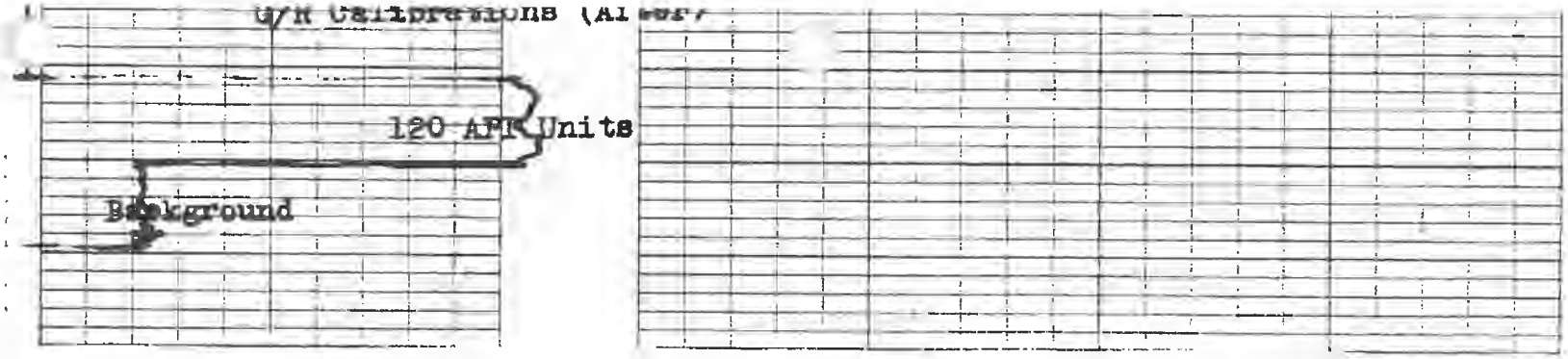

1900
2000


2100
CALI
G/R
6 5/8" ID
2200


10
20
Shot Hole
30
2241
40
TD
2242
6" 8" 10" 12" 14" 16" 18" 20" 22" 24" 26" 28" 30"
Caliper Scale
G/R S.V.@ 2210
G/R Repeat Section
2200


TD
2242
2100
Caliper Repeat Section
50
2200


Shot Hole
TD
2242
Caliper Calibrations
6"
12"
Gamma Ray Calibrations (Before)
120 API G/K Units
Background


120 AFK Units
Background

WVGES GEOLOGY UNDERLIES IT ALL "Pipeline"

Select County: (087) Roane
Enter Permit #: 3136
Get Data | Reset

Select datatypes: (Check All)
Location | Production | Plugging
Owner/Completion | Stratigraphy | Sample
Pay/Show/Water | Logs | Btm Hole Loc

Table Descriptions
County Code Translation
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 3136

Report Time: Tuesday, May 19, 2020 12:31:01 AM

Well Reassignment Information: Reassigned From

OLD_COUNTY	OLD_PERMIT	NEW_COUNTY	NEW_PERMIT
87	50168	87	3136

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_7.5	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703136	Roane	3136	Smithfield	Tariff	Otter	38.682409	-81.205349	482134.3	4279334.8

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURF_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_PRIT_FM	TFM_EST_PR
4708703136	4/3/1913	Original Loc	Completed	M J Snodgrass	13					Pennzoil Company			
4708703136	3/23/1973	Worked Over	[illegible]	Basil Keen	3					Pennzoil Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	NG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT
4708703136	4/3/1913	3/1/1913	911	Ground Level	Tariff(Tlmn)	Big Injun (Price&eq)	Big Injun (Price&eq)	unclassified	unclassified	Oil and Gas	unknown	Shot	1973	1973		0	0	0	0	0			0	0	0	0
4708703136	3/23/1973	-/-/-	911	Ground Level	Tariff(Tlmn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Development Well	Development Well	Oil	unknown	Fractured	1973		0	0	0	0	0				0			0

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_GRVT
4708703136	4/3/1913	Pay	Oil & Gas	Vertical	1941	Big Injun (Price&eq)	0		0	0			
4708703136	3/23/1973	Pay	Oil	Vertical	1913	Big Injun (Price&eq)	1987	Berea (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708703136	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703136	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708703136	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708703136	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703136	Pennzoil Products Company	1989	701	50	37	78	49	39	44	103	63	65	63	46	62
4708703136	Pennzoil Products Company	1990	1,655	38	28	50	46	181	193	145	189	192	142	229	224
4708703136	Pennzoil Products Company	1991	1,755	129	198	166	103	85	109	183	151	202	156	158	137
4708703136	Pennzoil Products Company	1992	1,002	81	41	65	22	82	86	141	81	123	115	98	67
4708703136	Pennzoil Products Company	1993	1,012	71	24	90	30	42	67	58	186	186	76	109	113
4708703136	Pennzoil Products Company	1994	581	65	17	12	9	12	34	34	105	80	53	49	111
4708703136	Pennzoil Products Company	1995	378	93	40	20	33	18	22	19	25	49	23	19	17
4708703136	Pennzoil Products Company	1996	130	3	1	6	0	9	9	7	13	34	13	18	17
4708703136	Pennzoil Products Company	1997	121	8	8	9	9	12	12	3	0	10	20	22	8
4708703136	Pennzoil Products Company	1998	127	15	6	14	12	9	11	12	11	12	25	0	0
4708703136	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708703136	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708703136	Triad Resources, Inc.	2004	88	6	5	8	9	9	11	8	9	11	8	4	0
4708703136	Triad Resources, Inc.	2005	101	9	5	12	2	3	7	8	12	10	12	12	9
4708703136	Triad Resources, Inc.	2006	93	10	7	7	8	8	8	8	8	8	8	8	7
4708703136	Triad Resources, Inc.	2007	62	8	7	7	5	2	2	6	6	6	4	5	4
4708703136	Triad Resources, Inc.	2008	72	5	4	4	4	3	5	4	3	7	8	11	14
4708703136	Triad Resources, Inc.	2009	33	8	3	3	3	5	5	3	0	0	1	1	1
4708703136	Triad Hunter LLC	2010	39	6	2	3	3	3	5	5	4	3	3	2	0
4708703136	Triad Hunter LLC	2011	11	1	1	1	1	0	3	1	1	1	1	0	0
4708703136	Triad Hunter LLC	2012	15	1	1	1	2	2	2	1	2	2	1	0	0
4708703136	Triad Hunter LLC	2013	12	1	1	1	1	1	1	1	1	1	1	1	1
4708703136	Triad Hunter LLC	2014	8	1	1	1	0	1	0	1	0	1	1	1	0
4708703136	Triad Hunter LLC	2015	6	0	0	0	1	3	1	1	0	0	0	0	0
4708703136	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703136	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703136	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708703136	Pennzoil Company	1981	368	0	0	0	0	0	0	0	0	0	0	0	0
4708703136	Pennzoil Company	1982	236	0	0	0	0	0	0	0	0	0	0	0	0
4708703136	Pennzoil Company	1983	310	0	0	0	0	0	0	0	0	0	0	0	0
4708703136	Pennzoil Company	1984	220	0	0	0	0	0	0	0	0	0	0	0	0
4708703136	Pennzoil Products Company	1989	1,685	228	181	156	139	217	171	142	185	146	155	133	133
4708703136	Pennzoil Products Company	1990	1,981	152	153	162	193	108	178	153	129	225	207	124	177
4708703136	Pennzoil Products Company	1991	1,724	148	107	90	114	157	145	227	161	198	170	121	86
4708703136	Pennzoil Products Company	1992	1,534	129	39	112	121	205	143	151	198	161	138	99	38
4708703136	Pennzoil Products Company	1993	1,471	163	62	63	52	73	229	190	104	172	196	99	68
4708703136	Pennzoil Products Company	1994	2,697	56	40	66	127	123	407	425	259	142	397	398	258
4708703136	Pennzoil Products Company	1995	2,309	297	274	265	281	285	165	334	130	103	135	31	9
4708703136	Pennzoil Products Company	1996	1,685	107	92	146	138	125	157	185	126	139	137	165	148
4708703136	Pennzoil Products Company	1997	1,238	124	154	175	112	43	0	41	105	109	138	120	117
4708703136	Pennzoil Products Company	1998	1,072	95	110	128	106	97	86	99	122	107	122	0	0

3136

4708703136	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708703136	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708703136	Triad Resources, Inc.	2004	329	31	31	31	31	30	30	22	28	24	23	21	27
4708703136	Triad Resources, Inc.	2005	810	72	47	54	64	54	82	63	65	73	98	78	62
4708703136	Triad Resources, Inc.	2006	831	46	68	71	84	45	56	71	84	91	65	79	93
4708703136	Triad Resources, Inc.	2007	966	79	93	62	106	76	89	78	83	70	78	72	80
4708703136	Triad Resources, Inc.	2008	1,004	77	105	53	94	69	47	82	84	117	104	67	105
4708703136	Triad Resources, Inc.	2009	655	27	0	61	90	78	83	56	55	47	70	61	47
4708703136	Triad Hunter LLC	2010	319	68	9	53	10	9	60	10	10	66	10	14	0
4708703136	Triad Hunter LLC	2011	649	48	65	55	46	56	54	51	55	55	59	63	42
4708703136	Triad Hunter LLC	2012	557	33	42	36	27	45	88	25	73	52	56	43	57
4708703136	Triad Hunter LLC	2013	97	9	9	11	7	9	10	5	8	6	6	8	9
4708703136	Triad Hunter LLC	2014	540	41	35	46	46	47	43	38	55	49	40	49	51
4708703136	Triad Hunter LLC	2015	452	50	28	20	47	38	50	37	19	41	28	67	27
4708703136	Triad Hunter LLC	2016	0												
4708703136	Ground Resources, LLC	2017	0												
4708703136	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703136	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703136	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703136	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703136	Triad Hunter LLC	2016	0												
4708703136	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703136	Triad Hunter LLC	2016	0												
4708703136	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	Source	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703136	Original Loc	Salt Sands (undiff)	Well Record	1410	Reasonable	190	Reasonable	911	Ground Level
4708703136	Original Loc	Little Lime	Well Record	1781	Reasonable	45	Reasonable	911	Ground Level
4708703136	Original Loc	Big Lime	Well Record	1841	Reasonable	95	Reasonable	911	Ground Level
4708703136	Original Loc	Big Injun (Pennoyer)	Well Record	1936	Reasonable	31	Reasonable	911	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEPTHMAT_FMT	LOGS_AVAIL	MEAN	INDITED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	CH2	CH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_[illegible]	RO
4708703136	1390	1974		G C *		Y	N		1390	1974									1390	1973	N	Y	N							

Comment: *logs: caliper, CCL

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703136gco.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron–SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

3136

3136

RECEIVED
FEB 15 1973
OIL & GAS DIVISION
DEPT. OF MINES

Well No. 3 W. J. Snodgrass Farm.
Lease No. Smithfield District Roane County.
Rig built by S. P. O. Co
Well drilled by S. P. D. T Ac Contractor.
Began drilling March 1st 1903 Completed April 3rd 1903

ROCK FORMATION	TOP	BOTTOM	REMARKS
Conductor		16	
Big Dunkard	600	685	
Salt Sand	1410	1600	
Break & Sand	1600	1614	
Sand	1614	1777	
Break	1777	1781	
Little Lime	1781	1826	
Break & Sand	1826	1841	
Big Lime	1841	1936	
Big Lime Sand	1936	1967	
Oil & Gas	1941		
Total depth		~~1937~~ 1973	

CASING RECORD

Size	CHARGED TO WELL Feet	In.	PUT IN WELL Feet	In.	PULLED OUT Feet	In.	LEFT IN WELL Feet	In.	Transferred before Completion Feet	In.	Left at Well Not in Use Feet	In.
10			165						Shot 4/8/13 - 20 qt			
8 1/4			605						Shot 4/3/29 - 50 qts			
6 5/8			1861						Shot 5-30-46 60 Qts.			
									1953 to 1957 Results			
									Unknown			

Production First 24 Hours } ..... Bbls. Signed W. A. Graham Supt.

ROANE 3136-F

3136

WR-35

RECEIVED
APR 03 1987
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date March 31, 1987
Operator's
Well No. 3
Farm M. J. Snodgrass
API No. 47 - 087 - 3136-F

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil X / Gas ___ / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production ___ / Underground Storage ___ / Deep ___ / Shallow ___ /)

LOCATION: Elevation: 911.63 Watershed Trace Fork
District: Smithfield County Roane Quadrangle Otter 15'

COMPANY Pennzoil Company
ADDRESS P.O. Box 1588, Parkersburg, WV
DESIGNATED AGENT J. A. Crews
ADDRESS P.O. Box 1588, Parkersburg, WV
SURFACE OWNER Basil Keen
ADDRESS Lefthand, WV
MINERAL RIGHTS OWNER Sallie S. Weaver
ADDRESS Parkersburg, WV
OIL AND GAS INSPECTOR FOR THIS WORK Homer Dougherty ADDRESS Looneyville, WV 25259
PERMIT ISSUED 2-15-73
DRILLING COMMENCED
~~DRILLING~~ Frac. COMPLETED 3-23-73
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	165'	165'	
9 5/8			
8 5/8	605'	605'	
7	1861'	1861'	
5 1/2			
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Big Injun Depth ___ feet
Depth of completed well 1973' feet Rotary ___ / Cable Tools ___
Water strata depth: Fresh ___ feet; Salt ___ feet
Coal seam depths: ___ Is coal being mined in the area? ___

OPEN FLOW DATA
Producing formation Big Injun Pay zone depth 1915-62 feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow ___ Mcf/d Final open flow ___ Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure ___ psig (surface measurement) after ___ hours shut in
(If applicable due to multiple completion--)
Second producing formation ___ Pay zone depth ___ feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow ___ Mcf/d Oil: Final open flow ___ Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure ___ psig (surface measurement) after ___ hours shut in

(Continue on reverse side)

ROANE 3136-F

3136

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Frac 3-23-73 w/670 Bbls. water and 28,000# 20/40 sand.

RECEIVED
APR 03 1987
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and ga
SEE ORIGINAL WELL RECORD.			

(Attach separate sheets as necessary)

PENNZOIL COMPANY
Well Operator

By: Curtis A. Lucas
Curtis A. Lucas

Date: March 31, 1987

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

"Pipeline"

Select County: (087) Roane

Enter Permit #: 3138

Get Data | Reset

Select datatypes: (Check All)

- Location
- Owner/Completion
- Pay/Show/Water
- Production
- Stratigraphy
- Logs
- Plugging
- Sample
- Btm Hole Loc

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WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 3138

Report Time: Tuesday, May 19, 2020 12:35:39 AM

Well Reassignment Information: Reassigned From

OLD_COUNTY	OLD_PERMIT	NEW_COUNTY	NEW_PERMIT
87	50170	87	3138

Location Information: View Ma

API	C	P	TAX_D	DISTRICT	QUAD_71	QUAD_27	LAT_DD	LON_DD	UTME	UTMN
4 703138	Roane	3138	Smithfield	Tariff		Otter	38.643265	-81.211315	481610.3	4277211.7

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SPUD	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROD_CO	PROP_TRGT_FM	TFD_EST_FM
4708703138	12/22/1911	Original Loc	Completed	P A Tallman	27					Pennzoil Company			
4708703138	4/13/1973	Worked Over	Completed	Paul Combs	27					Pennzoil Company			
4708703138	4/17/2006	Pl	Co d	R Castaldo		27			P A Tallman	Triad Reaour Inc.			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AF
4708703138	12/22/1911	12/18/1911	1182	Ground Level	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	unclassified	unclassified	Oil	unknown	Shot	2194		2194		0	0	0	8			0	0	0	
4708703138	4/13/1973	-/-/-	1182	Ground Level	Tariff(Timn)	Squaw	Squaw	Development Well	Development Well	Oil	unknown	Fractured	2195		0		0	0	0	0			0	0	0	
4708703138	4/17/2006	-/-/-	1160	Ground Level				unclassified	unclassified	not available	unknown	UnFinWlBtm														

Pa /Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703138	12/22/1911	Pay	Oil	Vertical			2176	Big Injun (Price&eq)	0	8			
4708703	4/1 973	Pa		V cal	21	B n (Price&eq)	2195	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in M) * 2019 data for H6A wells onl . Other wells are incom lete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703138	Pennzoil Company	1981	1,118	0	0	0	0	0	0	0	0	0	0	0	0
4708703138	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708703138	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708703138	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703138	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703138	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703138	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708703138	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708703138	Triad Resources, Inc.	2004	10	0	0	0	10	0	0	0	0	0	0	0	0
4708703138	Triad Resources, Inc.	2005	5	5	0	0	0	0	0	0	0	0	0	0	0
4708703138	Triad Resources, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703138	Triad Resources, Inc.	2007	5	0	0	0	0	0	0	0	0	0	0	0	5
4708703138	Triad Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703138	Pennzoil Company	1981	509	0	0	0	0	0	0	0	0	0	0	0	0
4708703138	Pennzoil Company	1982	665	0	0	0	0	0	0	0	0	0	0	0	0
4708703138	Pennzoil Company	1983	629	0	0	0	0	0	0	0	0	0	0	0	0
4708703138	Pennzoil Company	1984	3,138	0	0	0	0	0	0	0	0	0	0	0	0
4708703138	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703138	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703138	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708703138	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708703138	Triad Resources, Inc.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703138	Triad Resources, Inc.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703138	Triad Resources, Inc.	2006	5	0	5	0	0	0	0	0	0	0	0	0	0
4708703138	Triad Resources, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703138	Triad Resources, Inc.	2008	2	0	0	0	0	0	0	0	0	0	0	0	2

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Strat raph Information:

API	SOURCE	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703138	Original Loc	Buffo Sa/1st Cow Rn	Well Record	692	Reasonable	42	Reasonable	1182	Ground Level
4708703138	Original Loc	Lo Frprt Sa/Frprt Ss	Well Record	798	Reasonable	157	Reasonable	1182	Ground Level
4708703138	Original Loc	1st Salt Sand	Well Record	1490	Reasonable	20	Reasonable	1182	Ground Level
4708703138	Original Loc	2nd Salt Sand	Well Record	1600	Reasonable	35	Reasonable	1182	Ground Level
4708703138	Original Loc	3rd Salt Sand	Well Record	1650	Reasonable	305	Reasonable	1182	Ground Level
4708703138	Original Loc	Maxton	Well Record	1950	Reasonable	52	Reasonable	1182	Ground Level
4708703138	Original Loc	Little Lime	Well Record	2007	Reasonable	33	Reasonable	1182	Ground Level
4708703138	Original Loc	Pencil Cave	Well Record	2040	Reasonable	20	Reasonable	1182	Ground Level
4708703138	Original Loc	Big Lime	Well Record	2060	Reasonable	104	Reasonable	1182	Ground Level

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4708703138 Original Loc Big Injun (Price&eq) Well Record 2164 Reasonable 0 Reasonable 1182 Ground Level

Wireline E-Log Information:

API	Log_TOP	Log_BOT	DEEPEST_FML	LOGS_AVAIL	SCANNED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	REDUCED	ELEV_KB	ELEV_GL	D_RO
4708703138	1450	2195		G C *	Y N	1450	2195											1450	2195	N Y N			

Comment: *logs: caliper, CCL

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703138gco.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron–SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL–casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL–Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708703138	4/17/2006	0

There is no Sample data for this well

3138

3138

ROANE 3138-F

NO. 27 NAME Tallman, P.A. LEASE NO. 5918 ~~5907~~ ACRES 2350 N. S. 55 E. W. 35 DISTRICT SPENCER ✓

District or Twp. Smithfield
County Roane
State W. Va.
Commenced 12/18/11.
Completed 12/22/11.
Contractor Cody & Miller $ 1.15 Per Foot
Purchased From Carter Ave.
Date Purchased [illegible]
Date Connected
Sold To
Date Sold
Date Plugged
Date Abandoned

CASING AND TUBING

Size	Put in Well	Left in Well	Pulled
13 in. Casing			
10 in. Casing	240		240
8¼ in. Casing	855		855
6⅝ in. Casing	2063		
4¼ in. Casing			
3½ in. Casing	2116		2116
2⅞ in. Casing			
2 in. Tubing	2185		2185
in. Tubing			
in. Tubing			

SHOOTING

Date	Qts.	Sand	Depth	Test Before	Test After
[illegible]	20			[illegible]	10 [illegible]
1-38	70	Injun	2176 T 2192 B	[illegible]	[illegible]

Initial Oil Production 8 [illegible]

Initial Open Flow

RECORD

Elevation at Mouth of Well

Formation	Top	Bottom	Thickness	Oil at	Gas at	Water at	Thickness of Pay
Pittsburgh Coal							
Red Rock Cave	385	500	115				
Cow Run (First)	692	734	42				
Cow Run (Second)	795	955	157				
Salt Sand (Upper)	1490	1510	20				
Salt Sand (Middle)	1600	1635	35				
Salt Sand (Lower)	1650	1955	305			1760	
Maxon	1950	2002	52				
Little Lime	2007	2040	33				
Pencil Cave	2040	2060	20				
Big Lime	2060	2164	104				
Keener Sand							
Injun Sand	2164	2194	30	2176			16
Squaw Sand							
Weir Sand							
Berea Sand							
Gantz Sand							
Fifty Foot Sand							
Thirty Foot Sand							
Gordon Stray							
Gordon Sand							
Fourth Sand							
Fifth Sand							
Corniferous Lime							
Niagara Lime							
Cave							
Clinton							
Medina Shale							
Trenton							
Total Depth	2195						

Remarks

PACKERS

Size	Make	Set at
5x6	[illegible]	[illegible]

3138

WR-35

RECEIVED
APR 03 1987
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date March 31, 1987
Operator's
Well No. 27
Farm P. A. Tallman
API No. 47 -087 - 3138-F

WELL OPERATOR'S REPORT OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil X / Gas ___ / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production ___ / Underground Storage ___ / Deep ___ / Shallow ___ /)

LOCATION: Elevation: 1182.58' Watershed Ashley Camp Run
District: Smithfield County Roane Quadrangle Otter 15'

COMPANY Pennzoil Company
ADDRESS P.O. Box 1588, Parkersburg, WV
DESIGNATED AGENT J. A. Crews
ADDRESS P.O. Box 1588, Parkersburg, WV
SURFACE OWNER Paul Combs
ADDRESS Lefthand, WV
MINERAL RIGHTS OWNER Florence S. Tallman
ADDRESS Charleston, WV
OIL AND GAS INSPECTOR FOR THIS WORK Homer Dougherty ADDRESS Looneyville, WV 25259
PERMIT ISSUED 3-30-73
DRILLING COMMENCED
Frac ~~DRILLING~~ COMPLETED 4-13-73
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8			
7	2063'	2063'	
5 1/2			
4 1/2	2148'	2148'	on packer
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Big Injun Depth ___ feet
Depth of completed well 2195' feet Rotary ___ / Cable Tools ___
Water strata depth: Fresh ___ feet; Salt ___ feet
Coal seam depths: ___ Is coal being mined in the area? ___

OPEN FLOW DATA
Producing formation Big Injun Pay zone depth 2148-95 feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow ___ Mcf/d Final open flow ___ Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure ___ psig (surface measurement) after ___ hours shut in
(If applicable due to multiple completion--)
Second producing formation ___ Pay zone depth ___ feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow ___ Mcf/d Oil: Final open flow ___ Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure ___ psig (surface measurement) after ___ hours shut in

(Continue on reverse side)

ROANE-3138-F

3138

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Frac 4-13-73 w/746 Bbls. water and 30,000# 20/40 sand.

RECEIVED
APR 03 1987
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all free and salt water, coal, oil and ga
SEE ORIGINAL WELL RECORD			

(Attach separate sheets as necessary)

PENNZOIL COMPANY
Well Operator

By: Curtis A. Lucas
Curtis A. Lucas

Date: March 31, 1987

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

3138

WR-38
DATE:

API # 47-087-03138-P

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: Castaldo, Roger Operator Well No.: #27

LOCATION: Elevation: 1160' Quadrangle: Tariff
District: Smithfields County: Roane
Latitude: _____ Feet South of ____ Deg. ____ Min. ____ Sec.
Longitude: _____ Feet West of ____ Deg. ____ Min. ____ Sec.

Well Type: OIL ____ GAS X

Company: Triad Reasources
5669 Walback Rd.
Walback, WV. 25285

Coal Operator or Owner _____

Coal Operator or Owner _____

Agent: Mike Hirn

Permit Issued Date: 11/09/2005

RECEIVED
Office of Oil & Gas
JUN 2 8 2006
WV Department of Environmental Protection

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of _____ as:

Rick Duckworth and Rick Ross being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well, and Eddie Gainer Oil andGas Inspector representing the Director, say that said work was commenced on the 6 day of April, 19~~9~~5, and that the well was plugged and filed in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement	2150'	2050'	1400' of 4½"	726' of 4½"
Cement	1400'	1300'	470' of 7"	1593' of 7"
Cement	1100'	1000'		
Cement	500'	400'		
Cement	100'	0'		
Gel between all plugs				

Description of monument: 7" casing with API numbers and that the work of plugging and filling said well was completed on the 17 day of April, 19~~9~~2006

And furthur deponents saith not. Rick Duckworth

Rick Ross

Sworn and subscribe before me this 23 day of June, 19~~9~~2006
My commission expires: August 28 2006
Melody Dawn Hamrick
Notary Public

6-28-06

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
MELODY DAWN HAMRICK
328 TOWNSEND DR.
SUMMERSVILLE, WV 26651
My Commission Expires August 28, 2...

"Pipeline"

Select County: (087) Roane

Enter Permit #: 3167

Get Data | Reset

Select datatypes: (Check All)

☑ Location ☑ Production ☑ Plugging
☑ Owner/Completion ☑ Stratigraphy ☑ Sample
☑ Pay/Show/Water ☑ Logs ☑ Btm Hole Loc

Table Descri tions
Coun Code Translations
Permit-Numberin Series
Usage Notes
Co tact Informa on
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 3167

Report Time: Tuesday, May 19, 2020 12:45:42 AM

Well Reassignment Information: Reassigned From

OLD_COUNTY	OLD_PERMIT	NEW_COUNTY	NEW_PERMIT
87	50199	87	3167

Location Information: View Ma

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_7.5	QUAD_1	LAT_DD	LON_DD	UTME	UTMN
4708703167	Roane	3167	Smithfield	Tariff	Otter	38.860313	-81.20406	462245.9	4279102

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SURFACE	STATUS	SUFFIX	FARM	OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703167	8/23/1912	Original Loc	Completed	P A	Tallman		37	C1782				Carter Oil			
4708703167	10/31/1916	Worked Over	Completed	P A	Tallman		37	C1782				Pennzoil Company			
4708703167	2/2/1937	Worked Over	Completed	P A	Tallman		37	C1782				Pennzoil Company			
4708703167	1 973		Co d	P A		M	3	C1782			Floren Tallman	Pennzoil			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	AFT
4708703167	8/23/1912	7/8/1912	1023	Ground Level	Tariff(Timn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	Cable Tool	Shot	2079		2079		0	0	0	10			0	0	0
4708703167	10/31/1916	-/-/-	1023	Ground Level	Tariff(Timn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil	Cable Tool	Shot	2079		0		0	0	0	0			0	0	0
4708703167	2/2/1937	-/-/-	1023	Ground Level	Tariff(Timn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil	Cable Tool	Shot	2079		0		0	0	1	45			0	0	0
4708703167	[illegible]	-/-/-	1023	Ground Level	Tariff(Timn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	Cable Tool	Plugged	2079		[illegible]		0	[illegible]	0	2			[illegible]	[illegible]	[illegible]

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	O_BEF	O_AFT	G_BEF	G_AFT	WATER_UNIT
4708703167	8/23/1912	Show	Gas	Vertical			1991	Big Lime	0	0			
4708703167	8/23/1912	Pay	Oil	Vertical			2055	Big Injun (Price&eq)	0	10			
4708703167	10/5/1973	Show	Gas	Vertical	2048	Big Injun (Price&eq)	2071	Big Injun (Price&eq)	0	2			
4708703167	10/5/1973	Pay	Oil	Vertical	2048	Big Injun (Price&eq)	2071	Big Injun (Price&eq)	0	2			
4708703167	2/2/1937	Pay	Oil	Vertical	2049	Big Injun (Price&eq)	2078	Big Injun (Price&eq)	1	45			
4708703167	10/31/1916	Pay	Oil	Vertical	2049	Big Injun (Price&eq)	2078	Big Injun (Price&eq)	0	[illegible]			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells onl Other wells are incom lete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708703167	Pennzoil Company	1981	1,118	0	0	0	0	0	0	0	0	0	0	0	0
4708703167	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708703167	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708703167	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703167	Pennzoil Products Company	1989	117	14	9	10	6	12	8	0	13	11	17	0	17
4708703167	Pennzoil Products Company	1990	120	12	11	0	0	0	12	12	16	38	0	8	11
4708703167	Pennzoil Products Company	1991	169	14	15	14	12	18	13	13	18	15	12	13	12
4708703167	Pennzoil Products Company	1992	77	8	3	3	4	9	8	10	3	7	4	10	8
4708703167	Pennzoil Products Company	1993	70	11	8	5	5	22	0	0	3	3	8	0	5
4708703167	Pennzoil Products Company	1994	48	11	5	3	5	0	2	2	5	1	3	10	1
4708703167	Pennzoil Products Company	1995	8	5	1	0	1	1	0	0	0	0	0	0	0
4708703167	Pennzoil Products Company	1996	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703167	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708703167	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708703167	Triad Resources, Inc.	2004	88	6	5	8	9	9	11	8	9	11	8	4	0
4708703167	Triad Resources, Inc.	2005	101	9	5	12	2	3	7	8	12	10	12	12	9
4708703167	Triad Resources, Inc.	2006	93	10	7	7	6	8	8	8	8	8	8	8	7
4708703167	Triad Resources, Inc.	2007	62	8	7	7	5	2	2	6	6	6	4	5	4
4708703167	Triad Resources, Inc.	2008	72	5	4	4	4	3	5	4	3	7	8	11	14
4708703167	Triad Resources, Inc.	2009	36	8	3	3	3	5	5	3	0	3	1	1	1
4708703167	Triad Hunter LLC	2010	39	6	2	3	3	3	5	6	4	3	3	2	0
4708703167	Triad Hunter LLC	2011	10	1	0	0	1	0	4	1	1	2	0	0	0
4708703167	Triad Hunter LLC	2012	14	1	1	1	2	2	2	1	1	2	1	0	0
4708703167	Triad Hunter LLC	2013	12	1	1	1	1	1	1	1	1	1	1	1	1
4708703167	Triad Hunter LLC	2014	6	1	0	1	0	0	1	1	0	1	1	0	0
4708703167	Triad Hunter LLC	2015	6	0	0	0	1	3	1	1	0	0	0	0	0
4708703167	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703167	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703167	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708703167	Pennzoil Company	1981	509	0	0	0	0	0	0	0	0	0	0	0	0
4708703167	Pennzoil Company	1982	665	0	0	0	0	0	0	0	0	0	0	0	0
4708703167	Pennzoil Company	1983	629	0	0	0	0	0	0	0	0	0	0	0	0
4708703167	Pennzoil Company	1984	1,029	0	0	0	0	0	0	0	0	0	0	0	0
4708703167	Pennzoil Products Company	1989	445	29	25	47	25	39	35	24	50	40	32	41	58
4708703167	Pennzoil Products Company	1990	604	55	50	53	39	44	64	75	53	26	41	48	56
4708703167	Pennzoil Products Company	1991	569	53	53	56	39	39	53	44	43	57	55	40	27
4708703167	Pennzoil Products Company	1992	374	25	35	52	43	45	9	25	16	30	28	37	31

3167

4708703167	Pennzoil Products Company	1993	212	17	17	72	0	0	9	10	21	0	15	32	19
4708703167	Pennzoil Products Company	1994	113	14	21	0	6	6	20	6	12	0	3	20	5
4708703167	Pennzoil Products Company	1995	23	0	9	10	0	4	0	0	0	0	0	0	0
4708703167	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703167	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708703167	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708703167	Triad Resources, Inc.	2004	329	31	31	31	31	30	30	22	28	24	23	21	27
4708703167	Triad Resources, Inc.	2005	136	12	8	9	11	9	14	11	11	12	16	13	10
4708703167	Triad Resources, Inc.	2006	140	8	11	12	14	8	9	12	11	15	11	13	16
4708703167	Triad Resources, Inc.	2007	162	13	16	10	18	13	15	13	14	12	13	12	13
4708703167	Triad Resources, Inc.	2008	166	13	17	9	16	11	8	14	14	19	17	11	17
4708703167	Triad Resources, Inc.	2009	108	4	0	10	15	13	10	9	9	8	12	10	8
4708703167	Triad Hunter LLC	2010	55	11	2	9	2	2	10	2	2	11	2	2	0
4708703167	Triad Hunter LLC	2011	109	8	11	9	8	9	9	9	9	9	10	11	7
4708703167	Triad Hunter LLC	2012	91	5	7	6	4	7	11	4	12	9	9	7	10
4708703167	Triad Hunter LLC	2013	99	9	10	11	7	9	11	5	8	6	8	8	9
4708703167	Triad Hunter LLC	2014	90	7	6	8	8	8	7	6	9	8	7	8	8
4708703167	Triad Hunter LLC	2015	75	8	5	3	8	6	8	6	3	7	5	11	5
4708703167	Triad Hunter LLC	2016	0												
4708703167	Ground Resources, LLC	2017	0												
4708703167	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703167	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703167	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703167	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703167	Triad Hunter LLC	2016	0												
4708703167	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703167	Triad Hunter LLC	2016	0												
4708703167	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THIC_QUALITY	ELEV	DATUM
4708703167	Original Loc	Buffio Sa/1st Cow Rn	Well Record	650	Reasonable	10	Reasonable	1023	Ground Level
4708703167	Original Loc	Lo Frprt Sa/Frprt Sa	Well Record	673	Reasonable	159	Reasonable	1023	Ground Level
4708703167	Original Loc	1st Salt Sand	Well Record	1380	Reasonable	28	Reasonable	1023	Ground Level
4708703167	Original Loc	2nd Salt Sand	Well Record	1500	Reasonable	10	Reasonable	1023	Ground Level
4708703167	Original Loc	3rd Salt Sand	Well Record	1545	Reasonable	275	Reasonable	1023	Ground Level
4708703167	Original Loc	Maxton	Well Record	1826	Reasonable	34	Reasonable	1023	Ground Level
4708703167	Original Loc	Little Lime	Well Record	1860	Reasonable	47	Reasonable	1023	Ground Level
4708703167	Original Loc	Pencil Cave	Well Record	1907	Reasonable	10	Reasonable	1023	Ground Level
4708703167	Original Loc	Big Lime	Well Record	1949	Reasonable	100	Reasonable	1023	Ground Level
4708703167	Original Loc	Big Injun (Price&eq)	Well Record	2049	Reasonable	29	Reasonable	1023	Ground Level
4708703167	Original Loc	Undf PRICE blw INJN	Well Record	2078	Reasonable	0	Reasonable	1023	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703167	1440	2090		G,C*	Y	N	1440	2092											1440	2090	N	Y	N						

Comment: *logs: caliper, CCL

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703167gco.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

3167

WELL NO. 782 NAME Tallman Pa LEASE NO. 3 07 ACRES 235 0 N. S. 54 E. W 34 DISTR SPENCER

District or Twp. Smithfield
County Tyler
State W. Va.
Commenced 7/8/12
Completed 8/23/12
Contractor Cody + Miller $1.05 Per Foot
Purchased From Cartwell Co
Date Purchased 4-1-26
Date Connected
Sold To
Date Sold
Date Plugged
Date Abandoned

CASING AND TUBING

Size	Put in Well	Left in Well	Pulled
13 in. Casing			
10 in. Casing	234		234
8¼ in. Casing	787		787
6⅝ in. Casing	1955	1955	
6¼ in. Casing			
5⅛ in. Casing	2016		
4⅞ in. Casing			3-25-72
2 in. Tubing	2069	2069	2069
2 in. Tubing	2069		2069
½ in. Tubing	2073		

SHOOTING

Date	Qts.	Sand	Depth	Test Before	Test After
5-16-12	20				
10-31-16	30				
2-2-37	60	[illegible]		56 wk	316 wk

Initial Oil Production 10 bbls
Initial Open Flow

RECORD

Elevation at Mouth of Well

Formation	Top	Bottom	Thickness	Oil at	Gas at	Water at
Pittsburgh Coal	300	464	64			
Red Rock Cave	650	660	10			
Cow Run (First)	673	832	159			
Cow Run (Second)	1380	1408	28			
Salt Sand (Upper)	1500	1510	10			
Salt Sand (Middle)	1545	1820	275			salt 1648
Salt Sand (Lower)	1826	1860	34			
Maxon	1860	1907	47			
Little Lime	1907	1917	10			
Pencil Cave	1949	2047	100		shows 1991	42
Big Lime						
Keener Sand						
Injun Sand	2049	2078	29	2055		
Squaw Sand						
Weir Sand						
Berea Sand						
Gantz Sand						
Fifty Foot Sand						
Thirty Foot Sand						
Gordon Stray						
Gordon Sand						
Fourth Sand						
Fifth Sand						
Corniferous Lime						
Niagara Lime						
Cave						
Clinton						
Medina Shale						
Trenton						
Total Depth	2079					

RECEIVED OCT 1 1973 OIL & GAS DIVISION DEPT. OF MINES

3167

Remarks

PACKE	
Size	Make
2 x 8	[illegible]
2 x 8	

3167

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

RECEIVED
OCT-10 1973
OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 108-1774-A

Oil or Gas Well OIL

Company PENNZOIL COMPANY

Address PARKERSBURG, W.VA. 26101

Farm PATTERSON

Well No. 37

District SALTHILL County ROANE

Drilling commenced 9-[illegible]-73

1ST CASING 8-22-73-PULLED

Drilling completed 10-3-73 Total depth 2041'

HAVING A HOLE THROUGH THE PAY ZONE 1995 TO 2016

Date shot 10-5-73 Depth of shot 2000'

Initial open flow ____ /10ths Water in ____ Inch

Open flow after tubing ____ /10ths Merc. in ____ Inch

Volume ____ Cu. Ft.

Rock pressure ____ lbs. ____ hrs.

Oil ____ bbls., 1st 24 hrs.

Fresh water [illegible] feet ____ feet

Salt water 1648 feet ____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer
13			NONE
10	PULLED OUT 234	0	Size of
8¼	PULL 787	0	2 1/2 x 7 7/8"
6⅝	1965	1965	Depth set
5 3/16	2016	2016	2035
3			PULL AFTER FRAC
2 1/2 TUBING		2024	Perf. top
Liners Used			Perf. bottom
			Perf. top
			Perf. bottom

CASING CEMENTED NONE SIZE ____ No. FT. ____ Date ____

NAME OF SERVICE COMPANY ____

COAL WAS ENCOUNTERED AT NONE FEET ____ INCHES

____ FEET ____ INCHES ____ FEET ____ INCHES

____ FEET ____ INCHES ____ FEET ____ INCHES

Drillers' Names V. BAILEY

A. PEARCE-SUPERVISOR

Remarks:

WELL FRAC - HANGER 10-5-73

(BTM HOLE PLUG BACK-TD-2016)

L. LINE - 1860-1987
PENCIL - 1907-1917
B. LINE - 1947-2017
B. ZIMMO - 2017-2018-OIL-2025
T.D. - 2041 OIL
NUM - 2041 T.D.

10-5-73
DATE

[illegible]
DISTRICT WELL INSPECTOR

WVGES
GEOLOGY UNDERLIES IT ALL
"Pipeline"

Select County: (087) Roane
Enter Permit #: 3175
Get Data | Reset

Select datatypes: (Check All)
☑ Location ☑ Production ☑ Plugging
☑ Owner/Completion ☑ Stratigraphy ☑ Sample
☑ Pay/Show/Water ☑ Logs ☑ Btm Hole Loc

Table Descriptions
Coun Code Tra sla o
Permit-Numberin Ser es
Usage Notes
Contact nf matio
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 3175

Report Time: Tuesday, May 19, 2020 12:54:27 AM

Well Reassignment Information: Reassigned From

OLD_COUNTY	OLD_PERMIT	NEW_COUNTY	NEW_PERMIT
87	60207	87	3175

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703175	Roane	3175	Smithfield	Tariff	Otter	38.856398	-81.201904	462432.5	4278687.2

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	STATUS	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703175	12/31/1911	Original Loc	Completed	P A Tallman	24	C1769				Carter Oil			
4708703175	9/6/1932	Worked Over	Completed	P A Tallman	24	C1769				Pennzoil Company			
4708703175	8/20/1974	Worked Over	Completed	P A Tallman / L Combs	24	C1769			Florence S Tallman	Pennzoil Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT
4708703175	12/31/1911	11/7/1911	983	Ground Level	Tariff(Timn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil	Cable Tool	Shot	2021		2021		0	0	0	20			0	0	0
4708703175	9/6/1932	-/-/-	983	Ground Level	Tariff(Timn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil	Cable Tool	Shot	2021		0		0	0	1	3			0	0	0
4708703175	8/20/1974	-/-/-	983	Ground Level	Tariff(Timn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	Cable Tool	Fractured	2021		0		0	10	0	9			0	0	0

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_SWIT
4708703175	12/31/1911	Pay	Oil	Vertical			1986	Big Injun (Price&eq)	0	20			
4708703175	8/20/1974	Pay	Oil	Vertical	1980	Big Injun (Price&eq)	2016	Big Injun (Price&eq)	0	9			
4708703175	8/20/1974	Show	Gas	Vertical	1980	Big Injun (Price&eq)	2016	Big Injun (Price&eq)	0	10			
4708703175	9/6/1932	Pay	Oil	Vertical	1980	Big Injun (Price&eq)	2016	Big Injun (Price&eq)	1	3			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708703175	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708703175	Pennzoil Products Company	1989	516	40	39	61	38	37	47	0	45	102	70	0	37
4708703175	Pennzoil Products Company	1990	608	38	23	62	52	36	79	53	54	104	10	21	78
4708703175	Pennzoil Products Company	1991	1,089	129	97	79	62	80	82	94	102	109	102	73	80
4708703175	Pennzoil Products Company	1992	595	60	37	31	32	51	50	52	61	62	53	56	50
4708703175	Pennzoil Products Company	1993	729	45	58	57	47	63	64	54	61	59	86	63	74
4708703175	Pennzoil Products Company	1994	485	67	41	31	44	24	49	40	35	26	43	47	38
4708703175	Pennzoil Products Company	1995	245	31	26	13	18	11	11	9	25	25	28	30	18
4708703175	Pennzoil Products Company	1996	128	11	9	9	9	9	8	8	4	17	12	15	17
4708703175	Pennzoil Products Company	1997	184	5	7	8	9	13	19	5	0	17	32	36	13
4708703175	Pennzoil Products Company	1998	207	24	10	23	19	15	18	19	19	21	39	0	0
4708703175	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708703175	Triad Resources, Inc.	2003	84	8	8	7	2	7	8	4	4	7	4	5	2
4708703175	Triad Resources, Inc.	2004	10	0	0	0	10	0	0	0	0	0	0	0	0
4708703175	Triad Resources, Inc.	2005	5	5	0	0	0	0	0	0	0	0	0	0	0
4708703175	Triad Resources, Inc.	2006	93	10	7	7	6	8	8	8	8	8	8	8	7
4708703175	Triad Resources, Inc.	2007	5	0	0	0	0	0	0	0	0	0	0	0	5
4708703175	Triad Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703175	Triad Resources, Inc.	2009	33	8	3	3	3	6	5	3	0	0	1	1	1
4708703175	Triad Hunter LLC	2010	39	6	2	3	3	3	5	5	4	3	3	2	0
4708703175	Triad Hunter LLC	2011	11	1	1	1	1	0	3	1	1	1	1	0	0
4708703175	Triad Hunter LLC	2012	15	1	1	1	2	2	2	1	2	2	1	0	0
4708703175	Triad Hunter LLC	2013	12	1	1	1	1	1	1	1	1	1	1	1	1
4708703175	Triad Hunter LLC	2014	8	1	1	1	0	1	0	1	0	1	1	1	0
4708703175	Triad Hunter LLC	2015	6	0	0	0	1	3	1	1	0	0	0	0	0
4708703175	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703175	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703175	Ground Resources LLC	2018	8	0	0	0	0	0	0	0	0	0	0	0	8

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708703175	Pennzoil Company	1982	665	0	0	0	0	0	0	0	0	0	0	0	0
4708703175	Pennzoil Products Company	1989	1,773	177	141	148	151	130	121	221	206	87	144	132	117
4708703175	Pennzoil Products Company	1990	2,401	188	173	282	189	149	167	184	186	59	217	341	288
4708703175	Pennzoil Products Company	1991	2,947	239	210	223	215	281	275	299	303	245	271	214	192
4708703175	Pennzoil Products Company	1992	2,124	189	173	213	196	165	182	181	155	165	164	156	205
4708703175	Pennzoil Products Company	1993	2,249	194	151	206	179	152	192	208	220	192	213	197	145
4708703175	Pennzoil Products Company	1994	1,856	148	197	128	183	145	134	139	210	136	136	135	165
4708703175	Pennzoil Products Company	1995	1,859	188	149	181	145	142	168	171	164	158	148	114	151
4708703175	Pennzoil Products Company	1996	1,490	178	154	143	121	147	46	93	116	116	138	111	129
4708703175	Pennzoil Products Company	1997	1,722	105	151	185	183	76	0	66	170	178	224	194	190
4708703175	Pennzoil Products Company	1998	1,753	153	174	208	170	157	156	172	192	174	197	0	0
4708703175	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708703175	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45

3175

4708703175	Triad Resources, Inc.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703175	Triad Resources, Inc.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703175	Triad Resources, Inc.	2006	277	15	22	24	28	15	19	24	21	30	22	26	31
4708703175	Triad Resources, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703175	Triad Resources, Inc.	2008	2	0	0	0	0	0	0	0	0	0	0	0	2
4708703175	Triad Resources, Inc.	2009	217	9	0	20	30	26	21	19	18	15	23	20	16
4708703175	Triad Hunter LLC	2010	106	23	3	16	3	3	20	3	3	22	3	5	0
4708703175	Triad Hunter LLC	2011	216	16	22	18	15	19	18	17	18	18	20	21	14
4708703175	Triad Hunter LLC	2012	185	11	14	12	9	15	23	8	24	17	19	14	19
4708703175	Triad Hunter LLC	2013	194	18	19	21	15	18	21	11	15	11	12	15	18
4708703175	Triad Hunter LLC	2014	179	14	12	15	15	16	14	13	18	16	13	16	17
4708703175	Triad Hunter LLC	2015	151	17	9	7	16	13	17	12	6	14	9	22	9
4708703175	Triad Hunter LLC	2016	216					33	22	24	33	23	33	26	22
4708703175	Ground Resources, LLC	2017	329	33	17	32	31	25	28	30	21	26	36	28	22
4708703175	Ground Resources, LLC	2018	312	13	21	22	29	27	29	21	24	21	37	31	29

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703175	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703175	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703175	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703175	Triad Hunter LLC	2016	0												
4708703175	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703175	Triad Hunter LLC	2016	0												
4708703175	Ground Resources LLC	2018	[illegible]	[illegible]	[illegible]	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703175	Original Loc	Buffio Sa/1st Cow Rn	Well Record	550	Reasonable	15	Reasonable	983	Ground Level
4708703175	Original Loc	Lo Frprt Sa/Frprt Sa	Well Record	595	Reasonable	180	Reasonable	983	Ground Level
4708703175	Original Loc	1st Salt Sand	Well Record	1272	Reasonable	43	Reasonable	983	Ground Level
4708703175	Original Loc	2nd Salt Sand	Well Record	1400	Reasonable	45	Reasonable	983	Ground Level
4708703175	Original Loc	3rd Salt Sand	Well Record	1450	Reasonable	288	Reasonable	983	Ground Level
4708703175	Original Loc	Maxton	Well Record	1752	Reasonable	48	Reasonable	983	Ground Level
4708703175	Original Loc	Little Lime	Well Record	1805	Reasonable	20	Reasonable	983	Ground Level
4708703175	Original Loc	Pencil Cave	Well Record	1840	Reasonable	20	Reasonable	983	Ground Level
4708703175	Original Loc	Big Lime	Well Record	1860	Reasonable	120	Reasonable	983	Ground Level
4708703175	Original Loc	Big Injun (Price&eq)	Well Record	1980	Reasonable	36	Reasonable	983	Ground Level
4708703175	Original Loc	Undf PRICE btw INJN	Well Record	2016	Reasonable	0	Reasonable	983	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH6	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703175	1600	2025		G C *	Y	N	1600	2019											1600	2025	N	Y	N						

Comment: *logs: caliper, CCL

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703175gco.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

3175

WELL NO. 215 FARM [illegible] ACRES 2050 N. S. 50 E. W. DISTRICT Marion

District Sutton
County Braxton
State W. Va.
Commenced 11/7/11
Completed 12/31/11
Contractor Edgar Miller
Purchased From Carter Oil Co. 0.1.15 Per Foot
Date Purchased 1-1-[illegible]
Date Contracted
Sold To
Date Sold
Date Plugged
Date Abandoned

CASING AND TUBING

Size	Put in Well	Left in Well	Pulled
[illegible] in. Casing			
10 in. Casing	165		165
7 in. Casing	668		668
6 5/8 in. Casing	1863	1863	
4 1/2 in. Casing			
3 1/2 in. Casing			
3 1/16 in. Casing			
2 in. Tubing	2011	2011	2011
2 in. Tubing	2011		
[illegible] in. Tubing			

SHOOTING

Date	Qts.	Sand	Depth	Test Before	Test After
[illegible]-[illegible]-11	20	Sand		45 lb.	75 lb.
9-6-3[illegible]	qts	Sand			

Initial Oil Production [illegible]

Initial Gas Flow

RECORD

Elevation at Floor of Well

Formation	Top	Bottom	Thickness	Oil at	Gas at	Water at	Thickness of Pay
Pittsburgh Coal							
Red Rock Cave	316	398	82				
Cow Run (First)	550	565	15				
Cow Run (Second)	595	775	180				
Salt Sand (Upper)	1272	1315	43				
Salt Sand (Middle)	1400	1445	45				
Salt Sand (Lower)	1450	1738	288			salt 1545	
Maxon	1752	1800	48				
Little Lime	1815	1835	20				
Pencil Cave	1840	1860	20				
Big Lime	1860	1980	120				
Keener Sand							
Injun Sand	1980	2016	36	1986			20
Squaw Sand							
Weir Sand							
Berea Sand							
Gantz Sand							
Fifty Feet Sand							
Thirty Foot Sand							
Gordon Stray							
Gordon Sand							
Fourth Sand							
Fifth Sand							
Corniferous Lime							
Niagara Lime							
Cove							
Clinton							
Medina Shale							
Trenton							
Total Depth	2021						

RECEIVED
AUG 13 1974
OIL & GAS DIV.
DEPT. OF MINES

Remarks

PACKERS

Size	Make	Set at
2 1/8	[illegible]	1992

3175

3125

RECEIVED
OCT 3 1974
OIL & GAS DIVISION
DEPT. OF MINES

OS-11

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

INSPECTOR'S WELL REPORT

Permit No. AOA-2074

Oil or Gas Well O&G (KIND)

Company PENN OIL COMPANY

Address PARKERSBURG, W. VA. 26101

Farm P. A. TALLMAN

Well No. 74

District SMITHFIELD County PLEASE

Drilling commenced

Drilling completed 1ST 12-31-74 Total depth 2011

Date ~~shot~~ FRAC 8-20-74 Depth of shot

Initial open flow /10ths Water in Inch

Open flow after tubing /10ths Merc. in Inch

Volume Cu. Ft.

Rock pressure lbs. hrs.

Oil bbls., 1st 24 hrs.

Fresh water NO RECORD feet feet

Salt water 1545 feet feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer
13			
10	165	0	Size of
8¼	668	0	
6⅝	1863	1863	Depth set
5 3/16			
3			Perf. top
2	2011	2011	Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED NONE SIZE No. FT. Date

NAME OF SERVICE COMPANY

COAL WAS ENCOUNTERED AT FEET INCHES

FEET INCHES FEET INCHES

FEET INCHES FEET INCHES

Drillers' Names J. BAILEY

HAMMERCE SPUDDER

Remarks:

WELL FRAC. 8-20-74 DOW.

BIG LIME - 1860-1980
BIG INJUN - 1980-2016 - OIL - 1986-2006

9-30-74
DATE

[signature]
DISTRICT WELL INSPECTOR

"Pipeline"

Select County: (087) Roane

Enter Permit #: 3176

Get Data | Reset

Select datatypes: (Check All)

- Location
- Production
- Plugging
- Owner/Completion
- Stratigraphy
- Sample
- Pay/Show/Water
- Logs
- Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 87 Permit = 3176

Report Time: Tuesday, May 19, 2020 12:57:43 AM

Well Reassignment Information: Reassigned From

OLD_COUNTY	OLD_PERMIT	NEW_COUNTY	NEW_PERMIT
87	50208	87	3176

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703176	Roane	3176	Smithfield	Tariff	Otter	38.664702	-81.199177	482671.8	4279568.1

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPL	PROP_TRGT_FM	TFM_EST_PR
4708703176	4/25/1913	Original Loc	Completed	M J Snodgrass	11					South Penn Oil (S. Penn Nat. Gas)		
4708703176	1/20/1915	Worked Over	Completed	M J Snodgrass	11					South Penn Oil (S. Penn Nat. Gas)		
4708703176	4/27/1937	Worked Over	Completed	M J Snodgrass	11					South Penn Oil (S. Penn Nat. Gas)		
4708703176	8/27/1974	Worked Over	Completed	M J Snodgrass /	11				Sallie S Weaver	Pennzoil Co		

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	COMP_METHOD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT
4708703176	4/25/1913	3/4/1913	1122	Ground Level	Tariff(Timn)	blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	Cable Tool	Shot	2181		2181		0	0	0	10			0	0	0
4708703176	1/20/1915	-/-/-	1122	Ground Level	Tariff(Timn)	blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil	unknown	Shot	2181		0		0	0	0	0			0	0	0
4708703176	4/27/1937	-/-/-	1122	Ground Level	Tariff(Timn)	blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil	unknown	Shot	2181		0		0	0	0	0			0	0	0
4708703176	8/27/1974	-/-	1122	Ground Level	Tariff(Timn)	blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	unknown	Plugged	2181		0		0	0	0	0			0	0	0

Pay/Show/Water Information:

API	CMP_DT	AUTHORITY	PRODUCT	SECTION	SUPPL_TOP	FM_TOP	SUPPL_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703176	4/25/1913	Pay	Oil	Vertical			2158	Big Injun (Price&eq)	0	10			
4708703176	4/25/1913	Show	Gas	Vertical			2158	Big Injun (Price&eq)	0	0			
4708703176	8/27/1974	Show	Gas	Vertical	2125	Big Lime	2171	Big Injun (Price&eq)	0	2			
4708703176	8/27/1974	Pay	Oil	Vertical	2125	Big Lime	2171	Big Injun (Price&eq)	0	2			
4708703176	4/27/1937	Pay	Oil	Vertical	2161	Big Injun (Price&eq)	2175	Big Injun (Price&eq)	0	0			
4708703176	1/20/1915	Pay	Oil	Vertical	2161	Big Injun (Price&eq)	2175	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708703176	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703176	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708703176	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708703176	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703176	Pennzoil Products Company	1989	196	19	15	20	13	11	11	15	18	26	18	14	18
4708703176	Pennzoil Products Company	1990	266	8	7	12	8	45	41	55	16	15	11	17	30
4708703176	Pennzoil Products Company	1991	391	88	39	50	37	24	31	25	19	29	38	5	6
4708703176	Pennzoil Products Company	1992	173	17	20	11	3	18	7	17	16	18	18	15	13
4708703176	Pennzoil Products Company	1993	251	15	16	22	14	35	35	22	19	21	21	15	16
4708703176	Pennzoil Products Company	1994	154	21	24	14	7	6	7	8	12	9	9	19	18
4708703176	Pennzoil Products Company	1995	73	9	6	3	6	3	3	2	8	4	22	4	3
4708703176	Pennzoil Products Company	1996	24	1	1	1	0	0	2	1	2	6	4	3	3
4708703176	Pennzoil Products Company	1997	13	2	1	1	2	3	3	1	0	0	0	0	0
4708703176	Pennzoil Products Company	1998	38	0	0	4	3	2	3	3	2	1	18	0	0
4708703176	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708703176	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708703176	Triad Resources, Inc.	2004	88	6	5	8	9	9	11	8	9	11	8	4	0
4708703176	Triad Resources, Inc.	2005	101	9	5	12	2	3	7	8	12	10	12	12	9
4708703176	Triad Resources, Inc.	2006	93	10	7	7	6	8	8	8	8	8	8	8	7
4708703176	Triad Resources, Inc.	2007	62	8	7	7	5	2	2	6	6	6	4	5	4
4708703176	Triad Resources, Inc.	2008	73	5	4	4	4	4	5	4	3	7	8	11	14
4708703176	Triad Resources, Inc.	2009	33	8	3	3	3	6	5	3	0	0	1	1	1
4708703176	Triad Hunter LLC	2010	39	6	2	3	3	3	5	5	4	3	3	2	0
4708703176	Triad Hunter LLC	2011	11	1	1	1	1	0	3	1	1	1	1	0	0
4708703176	Triad Hunter LLC	2012	15	1	1	1	2	2	2	1	2	2	1	0	0
4708703176	Triad Hunter LLC	2013	12	1	1	1	1	1	1	1	1	1	1	1	1
4708703176	Triad Hunter LLC	2014	8	1	1	1	0	1	0	1	0	1	1	1	0
4708703176	Triad Hunter LLC	2015	6	0	0	0	1	3	1	1	0	0	0	0	0
4708703176	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703176	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703176	Ground Resources, LLC	2019	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708703176	Pennzoil Company	1981	366	0	0	0	0	0	0	0	0	0	0	0	0
4708703176	Pennzoil Company	1982	236	0	0	0	0	0	0	0	0	0	0	0	0
4708703176	Pennzoil Company	1983	309	0	0	0	0	0	0	0	0	0	0	0	0
4708703176	Pennzoil Company	1984	220	0	0	0	0	0	0	0	0	0	0	0	0
4708703176	Pennzoil Products Company	1989	493	59	32	44	36	32	50	56	53	42	27	28	34
4708703176	Pennzoil Products Company	1990	386	36	27	41	41	41	15	12	10	17	28	85	35

3176

4708703176	Pennzoil Products Company	1991	336	45	39	26	32	24	18	32	39	7	7	25	42
4708703176	Pennzoil Products Company	1992	266	22	6	25	10	25	28	22	31	25	26	21	25
4708703176	Pennzoil Products Company	1993	429	40	29	52	27	27	26	24	28	24	27	32	93
4708703176	Pennzoil Products Company	1994	516	85	29	34	27	29	46	47	44	55	63	37	40
4708703176	Pennzoil Products Company	1995	488	45	47	36	33	37	53	28	127	19	27	15	21
4708703176	Pennzoil Products Company	1996	280	11	0	0	34	24	29	34	34	21	23	43	27
4708703176	Pennzoil Products Company	1997	139	16	39	42	28	12	0	0	0	0	0	0	0
4708703176	Pennzoil Products Company	1998	182	24	28	33	25	25	19	8	0	0	20	0	0
4708703176	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708703176	Triad Resources, Inc.	2003	377	26	24	25	26	28	30	28	28	30	38	50	45
4708703176	Triad Resources, Inc.	2004	329	31	31	31	31	30	30	22	28	24	23	21	27
4708703176	Triad Resources, Inc.	2005	136	12	8	9	11	9	14	11	11	12	16	13	10
4708703176	Triad Resources, Inc.	2006	140	6	11	12	14	8	9	12	11	15	11	13	16
4708703176	Triad Resources, Inc.	2007	162	13	16	10	18	13	15	13	14	12	13	12	13
4708703176	Triad Resources, Inc.	2008	166	13	17	9	16	11	8	14	14	19	17	11	17
4708703176	Triad Resources, Inc.	2009	108	4	0	10	15	13	10	9	9	8	12	10	8
4708703176	Triad Hunter LLC	2010	55	11	2	9	2	2	10	2	2	11	2	2	0
4708703176	Triad Hunter LLC	2011	109	8	11	9	8	9	9	9	9	9	10	11	7
4708703176	Triad Hunter LLC	2012	93	5	7	6	5	8	11	4	12	9	9	7	10
4708703176	Triad Hunter LLC	2013	97	9	9	11	7	9	10	5	8	6	6	8	9
4708703176	Triad Hunter LLC	2014	91	7	6	8	8	8	7	6	9	8	7	8	9
4708703176	Triad Hunter LLC	2015	75	8	5	3	8	6	8	6	3	7	5	11	5
4708703176	Triad Hunter LLC	2016	0												
4708703176	Ground Resources, LLC	2017	0												
4708703176	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: Volumes in Bbl ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703176	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703176	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703176	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703176	Triad Hunter LLC	2016	0												
4708703176	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: Volumes in Gallons * 2018 monthly H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703176	Triad Hunter LLC	2016	0												
4708703176	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SOURCE	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703176	Original Loc	Buffalo Sa/1st Cow Rn	Well Record	715	Reasonable	20	Reasonable	1122	Ground Level
4708703176	Original Loc	Mahonig Sa/Big Dunk	Well Record	770	Reasonable	165	Reasonable	1122	Ground Level
4708703176	Original Loc	Lo Frprt Sa/Frprt Sa	Well Record	1360	Reasonable	35	Reasonable	1122	Ground Level
4708703176	Original Loc	Salt Sands (undiff)	Well Record	1660	Reasonable	170	Reasonable	1122	Ground Level
4708703176	Original Loc	Maxton	Well Record	1960	Reasonable	20	Reasonable	1122	Ground Level
4708703176	Original Loc	Little Lime	Well Record	1980	Reasonable	55	Reasonable	1122	Ground Level
4708703176	Original Loc	Pencil Cave	Well Record	2035	Reasonable	3	Reasonable	1122	Ground Level
4708703176	Original Loc	Big Lime	Well Record	2038	Reasonable	115	Reasonable	1122	Ground Level
4708703176	Original Loc	Big Injun (Price&eq)	Well Record	2153	Reasonable	26	Reasonable	1122	Ground Level
4708703176	Original Loc	Undf PRICE btw INJN	Well Record	2179	Reasonable	0	Reasonable	1122	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEGREES_DIG	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703176	1600	2184		G C *	Y	N	1600	2184											1600	2184	N	Y	N						

Comment: *logs: caliper, CCL

Downloadable Log Images: We advise you to save the log image file to your for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703176gcc.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron–SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

3176

3176

Well No. 11 M. J. Snodgrass Farm.
Lease No. Smithfield District Roane County.
Rig built by A P O Co
Well drilled by J P [illegible] Contractor.
Began drilling March 4 1943 Completed April 25 1943

ROCK FORMATION	TOP	BOTTOM	REMARKS
Conductor		16	
Little Dunkard	715	735	
Big "	770	935	
Gas Sand	1360	1395	
Salt "	1660	1830	
Water hole fill	1760		
Maxon Sand	1960	1980	
Little Lime	1980	2035	
Pencil Cave	2035	2038	
Big Lime	2038	2153	
Big Injun Sand	2153	2179	
Air & Gas	2158		
Total depth		2181	

CASING RECORD

Size	CHARGED TO WELL Feet	In.	PUT IN WELL Feet	In.	PULLED OUT Feet	In.	LEFT IN WELL Feet	In.	Transferred before Completion Feet	In.	Left at Well Not in Use Feet	In.
10			225						Shot 4/30/43 - 20 ft - [illegible]			
8 1/4			795						" 1/20/45 - 10 ft. [illegible]			
6 5/8			2052						Shot 4-29-37 - [illegible] at 2161-[illegible] ft.			

Production First 24 Hours 10 Bbls. Signed W H Graham Supt

RECEIVED
[illegible] 1944
DE[illegible]

"Pipeline"

Select County: (087) Roane

Enter Permit #: 3179

Get Data | Reset

Select datatypes: (Check All)

- Location
- Owner/Completion
- Pay/Show/Water
- Production
- Stratigraphy
- Logs
- Plugging
- Sample
- Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Number Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 3179

Report Time: Tuesday, May 19, 2020 1:01:50 AM

Well Reassignment Information: Reassigned From

OLD_COUNTY	OLD_PERMIT	NEW_COUNTY	NEW_PERMIT
87	50212	87	3179

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4708703179	Roane	3179	Geary	Tariff	[illegible]	[illegible]	-81.181485	484208.8	4278493.6

There is no Bottom Hole Location data for this well

Owner Information:

API	C[illegible]P_DT	[illegible]	STAT[illegible]	[illegible]	WELL_NUM	CO_NUM	LEASE	[illegible]	MINERAL_OWN	OPERATOR_AT_CO[illegible]	[illegible]	[illegible]	[illegible]	TF[illegible]
4708703179	5/10/2007	Plugging	Completed	[illegible]		W M Loney 2				Triad Resources, Inc.				
4708703179	-/-/-	Worked Over	Co[illegible]ted	[illegible]	2					Pennzoil C[illegible]				

Completion Information:

API	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	BH_P
4708703179	5/10/2007	4/24/2007			[illegible]					not available	unknown	unknown															
4708703179	-/-/-	-/-/-			[illegible]	[illegible]	[illegible]ed unit	undetermined unit	unclassified	unclassified	not available	unknown	unknown			0		0	0	0	0			0	[illegible]	0	0

There is no Pay data for this well

Production Gas Information: (Volumes in M[illegible]) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703179	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703179	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708703179	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708703179	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703179	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703179	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703179	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703179	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703179	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703179	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703179	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703179	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703179	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708703179	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708703179	Triad Resources, Inc.	2004	10	0	0	0	10	0	0	0	0	0	0	0	0
4708703179	Triad Resources, Inc.	2005	5	5	0	0	0	0	0	0	0	0	0	0	0
4708703179	Triad Resources, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703179	Triad Resources, Inc.	2007	5	0	0	0	0	0	0	0	0	0	0	0	5
4708703179	Triad Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703179	Pennzoil Company	1981	101	0	0	0	0	0	0	0	0	0	0	0	0
4708703179	Pennzoil Company	1982	248	0	0	0	0	0	0	0	0	0	0	0	0
4708703179	Pennzoil Company	1983	438	0	0	0	0	0	0	0	0	0	0	0	0
4708703179	Pennzoil Company	1984	1,012	0	0	0	0	0	0	0	0	0	0	0	0
4708703179	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703179	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703179	Pennzoil Products Company	1991	125	0	0	0	0	0	0	0	0	0	0	0	125
4708703179	Pennzoil Products Company	1992	909	145	67	95	77	106	79	78	64	63	99	12	24
4708703179	Pennzoil Products Company	1993	466	0	0	0	80	48	49	51	67	102	21	23	25
4708703179	Pennzoil Products Company	1994	54	21	12	21	0	0	0	0	0	0	0	0	0
4708703179	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703179	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703179	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708703179	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708703179	Triad Resources, Inc.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703179	Triad Resources, Inc.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703179	Triad Resources, Inc.	2006	5	0	5	0	0	0	0	0	0	0	0	0	0
4708703179	Triad Resources, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703179	Triad Resources, Inc.	2008	1	1	1	0	0	1	1	1	1	1	1	1	1

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

There is no Stratigraphy data for this well

Wireline (E-Log) Information:

3179

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703179	[illegible]	1690		G.C.*	Y	N	1500	1680											1600	975		Y							

Comment: *logs: caliper, CCL

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703179_co.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708703179	5/10/2007	0

There is no Sample data for this well

3,179

3179

Well No. 2 W. M. Looney Farm.
Lease No. Smithfield District Crane County.
Rig built by G. A. Reed
Well drilled by S. O. D. O. Ac. Contractor.
Began drilling Sept 18 1901910 Completed Oct 23 1901910

ROCK FORMATION	TOP	BOTTOM	REMARKS
Conductor		32	
Sand	495	505	
Big Dunkard	585	720	
Sand	960	990	
Salt Sand	1430	1660	
Water	1445		
Maxon	1665	1769	
Little Lime	1769	1812	
Pencil Cave	1812	1819	
Big Lime	1819	1918	
Gas	1886		
Big Injun	1918	1971	
1st Pay	1932		
2nd "	1936		
Total depth		1971	

RECEIVED
OCT 4 1974
OIL & GAS DIVISION
DEPT. OF [illegible]

67

CASINO RECORD

Size	CHARGED TO WELL Feet	In.	PUT IN WELL Feet	In.	PULLED OUT Feet	In.	LEFT IN WELL Feet	In.	Transferred before Completion Feet	In.	Left at Well Not in Use Feet	In.
10			242		242				[illegible] 4/8/19		40 ft.	B. [illegible]
8 1/4			665		665				[illegible] 4/2/31		[illegible]	[illegible]
6 3/8			1832									

Production First 24 Hours 25 Bbls. Signed [illegible] Supt

3179

RECEIVED
OCT 15 1974
OIL & GAS DIVISION
DEPT. OF MINES

DG-11

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S WELL REPORT

Permit No. BOA-212-FARC

Oil or Gas Well G.&G. (KIND)

Company PENNZOIL COMPANY

Address PHSBG, W. VA. 26101

Farm W. M. LOONEY

Well No. 2

District GERRY County BOONE

Drilling commenced 1ST. COMP. 10-23-1916- 1971

Drilling completed 10-4-74 Total depth 1971

DOWN THROUGH 2 1/4 TUB. ON LYNES PACKER

Date FRAC 10-7-74 Depth of shot 1971

Initial open flow _____ /10ths Water in _____ Inch

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ hrs.

Oil _____ bbls. 1st 24 hrs.

Fresh water NO RECORD feet _____ feet

Salt water 1445 feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer
13			
10	242	0	Size of
8¼	665	0	
6⅝	1832	1832	Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED NONE SIZE _____ No. FT. _____ Date

NAME OF SERVICE COMPANY

COAL WAS ENCOUNTERED AT NONE FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names SL BAILEY

HANK PENCE - SPOUTER

Remarks: WELL FARC - 10-7-74 DOW.

BIG LIME - 1819-1918 - GAS 1886'
BIG INJUN - 1918-1971 - O&G - 1932-1956
T.D. - 1971

10-8-74
DATE

W. A. Hartley
DISTRICT WELL INSPECTOR

3179

WR-38
DATE:

RECEIVED
Office of Oil & Gas
JUN 11 2007
WV Department of
Environmental Protection

API # 47-8703179-P

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: Whiting,Goldie Operator Well No.: ~~W.M.Boney2~~

LOCATION: Elevation: _____ Quadrangle: Tariff
District: Smithfield County: ~~Roane~~
Latitude: _____ Feet South of ____ Deg. ____ Min. ____ Sec.
Longitude: _____ Feet West of ____ Deg. ____ Min. ____ Sec.

Well Type: OIL ____ GAS X

Company: TRiad Reasources Co
5669 Walback Rd.
Walback, WV. 25285

Coal Operator or Owner _____

Coal Operator or Owner _____

Agent: Mike Horan

Permit Issued Date: 10/24/06

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of _____ ss:

Rick Duckworth and Rick Ross being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filing the above well, and Eddie Gainer Oil andGas Inspector representing the Director, say that said work was commenced on the 24 day of April, 19~~9~~07 and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement	1950'	1850'	1575' of 5½"	300' of 5½"
Cement	1575'	1475'		
Cement	900'	800'		
Cement	500'	400'		
Cement	100'	0'		
Gel between all plugs				

Description of monument: 7" casing with API numbers. and that the work of plugging and filling said well was completed on the 10 day of May, 19~~9~~2007

And furthur deponents saith not. Rick Duckworth

Rick Ross

Sworn and subscribe before me this 11 day of June, 19~~9~~2007
My commission expires: Dec. 22 2008
Melody Dawn Hamrick
Notary Public

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
MELODY DAWN HAMRICK
521 TOWNSEND DR.
SUMMERVILLE, WV 25651
My Commission Expires August 22, 2008

6/20/07

WVGES GEOLOGY UNDERLIES "Pipeline"

Select County: (087) Roane

Enter Permit #: 3181

Get Data | Reset

Select datatypes: (Check All)

- Location
- Production
- Plugging
- Owner/Completion
- Stratigraphy
- Sample
- Pay/Show/Water
- Logs
- Btm Hole Loc

Table Descri tions
Coun Code Translatio s
Permit-Numbering Series
Usage Notes
Contact Information

WV Geological & Economic Survey:

Well: County = 087 Permit = 3181

Report Time: Tuesday, May 19, 2020 1:12:43 AM

Well Reassignment Information: Reassigned From

OLD_COUNTY	OLD_PERMIT	NEW_COUNTY	NEW_PERMIT
87	50214	87	3181

Location Information: View Ma

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_15	QUAD_7	LAT_DD	LON_DD	UTME	UTMN
4708703181	Roane	3181	Smithfield	Tariff	Otter	38.654752	-81.20448	482208	4278485.1

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SURFFT	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPL	ENGR_PHNE_VD	ENGR_TRGT_FM	TFM_EST_PR
4708703181	6/30/1911	Original Loc	Completed	Peter Tallman	11	C1757				Carter Oil			
4708703181	10/25/1974	Worked Over	Completed	P A Tallman / H Ellis	11	C1757			Florence S Tallman	Pennzoil Company			
4708703181	-/-/-	Worked Over	Completed	P A Tallman	11	C1757				Pennzoil Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT
4708703181	6/30/1911	5/10/1911	1048	Ground Level	Tariff(Timn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil	Cable Tool	Shot	2092	2092		0	0	0	0	15			0	0	0
4708703181	10/25/1974	-/-/-	1048	Ground Level	Tariff(Timn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	unknown	Fractured	2092		0	0	14	0	12				0	0	0
4708703181	-/-/-	-/-/-	1048	Ground Level	Tariff(Timn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil	Cable Tool	Shot	2092		0	0	0	0	0				0	0	0

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	DIRECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703181	10/25/1974	Pay	Oil	Vertical	2063	Big Injun (Price&eq)	2088	Big Injun (Price&eq)	0	12			
4708703181	10/25/1974	Show	Gas	Vertical	2063	Big Injun (Price&eq)	2088	Big Injun (Price&eq)	0	14			
4708703181	-/-/-	Pay	Oil	Vertical	2059	Big Injun (Price&eq)	2090	Big Injun (Price&eq)	0	0			
4708703181	6/30/1911	Pay	Oil	Vertical	2059	Big Injun (Price&eq)	2090	Big Injun (Price&eq)	0	15			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708703181	Pennzoil Company	1981	1,118	0	0	0	0	0	0	0	0	0	0	0	0
4708703181	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708703181	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708703181	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703181	Pennzoil Products Company	1989	832	65	48	65	41	37	84	0	100	142	131	0	119
4708703181	Pennzoil Products Company	1990	639	47	30	47	24	24	71	73	65	122	11	62	63
4708703181	Pennzoil Products Company	1991	648	58	48	65	47	58	51	38	40	63	66	52	62
4708703181	Pennzoil Products Company	1992	517	52	30	25	27	35	33	45	60	56	63	61	40
4708703181	Pennzoil Products Company	1993	450	36	30	36	34	27	33	34	48	32	0	78	62
4708703181	Pennzoil Products Company	1994	374	56	27	16	29	12	34	38	35	24	26	38	40
4708703181	Pennzoil Products Company	1995	203	22	19	3	15	6	9	6	25	26	25	28	17
4708703181	Pennzoil Products Company	1996	99	6	5	5	3	4	7	7	11	16	9	13	13
4708703181	Pennzoil Products Company	1997	52	4	6	7	6	9	16	4	0	0	0	0	0
4708703181	Pennzoil Products Company	1998	93	0	0	19	16	12	15	16	15	0	0	0	0
4708703181	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708703181	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708703181	Triad Resources, Inc.	2004	88	6	5	8	9	9	11	8	9	11	8	4	0
4708703181	Triad Resources, Inc.	2005	101	9	5	12	2	3	7	8	12	10	12	12	9
4708703181	Triad Resources, Inc.	2006	93	10	7	7	6	8	8	8	8	8	8	8	7
4708703181	Triad Resources, Inc.	2007	62	8	7	7	5	2	2	6	6	6	4	5	4
4708703181	Triad Resources, Inc.	2008	72	5	4	4	4	3	5	4	3	7	8	11	14
4708703181	Triad Resources, Inc.	2009	33	8	3	3	3	5	5	3	0	0	1	1	1
4708703181	Triad Hunter LLC	2010	39	6	2	3	3	3	5	5	4	3	3	2	0
4708703181	Triad Hunter LLC	2011	11	1	1	1	1	0	3	1	1	1	1	0	0
4708703181	Triad Hunter LLC	2012	15	1	1	1	2	2	2	1	2	2	1	0	0
4708703181	Triad Hunter LLC	2013	12	1	1	1	1	1	1	1	1	1	1	1	1
4708703181	Triad Hunter LLC	2014	8	1	1	1	0	1	0	1	0	1	1	1	0
4708703181	Triad Hunter LLC	2015	6	0	0	0	1	3	1	1	0	0	0	0	0
4708703181	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703181	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703181	Ground Resources, LLC	2018	8	0	0	0	0	0	0	0	0	0	0	0	8

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708703181	Pennzoil Company	1981	509	0	0	0	0	0	0	0	0	0	0	0	0
4708703181	Pennzoil Company	1982	665	0	0	0	0	0	0	0	0	0	0	0	0
4708703181	Pennzoil Company	1983	630	0	0	0	0	0	0	0	0	0	0	0	0
4708703181	Pennzoil Company	1984	1,029	0	0	0	0	0	0	0	0	0	0	0	0
4708703181	Pennzoil Products Company	1989	2,822	189	138	148	268	200	272	309	366	278	319	162	153
4708703181	Pennzoil Products Company	1990	2,039	141	81	178	170	204	200	215	203	171	183	151	142
4708703181	Pennzoil Products Company	1991	1,959	199	158	163	133	106	107	174	196	174	210	187	152
4708703181	Pennzoil Products Company	1992	1,749	153	143	146	134	142	135	181	187	181	133	125	109
4708703181	Pennzoil Products Company	1993	1,451	124	110	86	92	95	152	115	0	239	178	162	97
4708703181	Pennzoil Products Company	1994	1,387	77	129	65	127	138	134	125	124	109	143	93	123

3181

4708703181	Pennzoil Products Company	1995	1,396	38	121	110	111	89	163	175	147	151	139	66	86
4708703181	Pennzoil Products Company	1996	1,101	92	43	68	110	115	100	89	89	104	100	77	114
4708703181	Pennzoil Products Company	1997	558	101	108	133	153	63	0	0	0	0	0	0	0
4708703181	Pennzoil Products Company	1998	1,189	129	150	175	147	132	122	70	0	136	128	0	0
4708703181	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708703181	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708703181	Triad Resources, Inc.	2004	329	31	31	31	31	30	30	22	28	24	23	21	27
4708703181	Triad Resources, Inc.	2005	540	48	31	36	43	36	55	42	43	49	64	52	41
4708703181	Triad Resources, Inc.	2006	553	30	44	47	56	30	35	47	43	61	43	52	62
4708703181	Triad Resources, Inc.	2007	645	52	62	41	71	51	60	52	56	46	52	48	54
4708703181	Triad Resources, Inc.	2008	669	51	70	35	63	46	31	55	56	76	69	45	70
4708703181	Triad Resources, Inc.	2009	437	18	0	40	60	52	42	37	37	31	47	41	32
4708703181	Triad Hunter LLC	2010	211	45	6	35	7	6	40	6	7	44	6	9	0
4708703181	Triad Hunter LLC	2011	433	32	43	37	31	37	36	34	36	37	40	42	28
4708703181	Triad Hunter LLC	2012	371	22	28	24	18	30	45	17	48	35	37	29	38
4708703181	Triad Hunter LLC	2013	389	36	38	42	30	36	42	21	31	22	25	31	35
4708703181	Triad Hunter LLC	2014	357	27	23	31	30	31	28	26	37	32	26	33	34
4708703181	Triad Hunter LLC	2015	300	33	19	13	32	25	33	25	12	27	18	45	18
4708703181	Triad Hunter LLC	2016	216					33	22	24	33	23	33	26	22
4708703181	Ground Resources, LLC	2017	332	33	17	32	32	26	28	30	21	26	36	28	23
4708703181	Ground Resources, LLC	2018	310	18	22	22	28	27	29	21	24	21	37	31	29

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708703181	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703181	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703181	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703181	Triad Hunter LLC	2016	0												
4708703181	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708703181	Triad Hunter LLC	2016	0												
4708703181	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphic Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703181	Original Loc	Buffle Sa/1st Cow Rn	Well Record	650	Reasonable	10	Reasonable	1048	Ground Level
4708703181	Original Loc	Lo Frprt Sa/Frprt Sa	Well Record	704	Reasonable	121	Reasonable	1048	Ground Level
4708703181	Original Loc	1st Salt Sand	Well Record	1385	Reasonable	90	Reasonable	1048	Ground Level
4708703181	Original Loc	2nd Salt Sand	Well Record	1505	Reasonable	15	Reasonable	1048	Ground Level
4708703181	Original Loc	3rd Salt Sand	Well Record	1570	Reasonable	270	Reasonable	1048	Ground Level
4708703181	Original Loc	Maxton	Well Record	1855	Reasonable	25	Reasonable	1048	Ground Level
4708703181	Original Loc	Little Lime	Well Record	1897	Reasonable	26	Reasonable	1048	Ground Level
4708703181	Original Loc	Pencil Cave	Well Record	1923	Reasonable	33	Reasonable	1048	Ground Level
4708703181	Original Loc	Big Lime	Well Record	1956	Reasonable	103	Reasonable	1048	Ground Level
4708703181	Original Loc	Big Injun (Price&eq)	Well Record	2059	Reasonable	31	Reasonable	1048	Ground Level
4708703181	Original Loc	Undf PRICE blw INJN	Well Record	[illegible]	Reasonable	0	Reasonable	1048	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FRM	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703181	1350	2091		G.C.*	Y	N		1350	2090										1350	2091	N	Y	N						

Comment: *logs: caliper, CCL

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703181gco.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

18153

NAME Gillmore, J. C. & LEASE NO. 5918 5909 ACRES 2350 N. S. 54 E. W. DISTRICT SPENCER

Smith field

2-7
5/10/11
6/30/11
J. + Miller
Cater Co.
12-21

$1.15 Per Foot

RECORD

Elevation at Mouth of Well

Formation	Top	Bottom	Thickness	Oil at	Gas at	Water at	Thickness of Pay
Pittsburgh Coal							
Red Rock Cave	345	445	100				
Cow Run (First)	650	660	10				
Cow Run (Second)	704	825	121				
Salt Sand (Upper)	1385	1395	10				
Salt Sand (Middle)	1505	1520	15				
Salt Sand (Lower)	1570	1840	270			well	
Maxon	1825	1850	25			No 4	
Little Lime	1871	1927	56				
Pencil Cave	1945	1956	11				
Big Lime	1956	2064	108				
Keener Sand							
Injun Sand	2064	2090	26	2064			
Squaw Sand							
Weir Sand							
Berea Sand							
Gantz Sand							
Fifty Foot Sand							
Thirty Foot Sand							
Gordon Stray							
Gordon Sand							
Fourth Sand							
Fifth Sand							
Corniferous Lime							
Niagara Lime							
Cave							
Clinton							
Medina Shale							
Trenton							
Total Depth	2092						

Remarks

RECEIVED OCT 10 1974 OIL & GAS DIVISION DEPT. OF MINES

CASING AND TUBING

Put in Well	Left in Well	Pulled
270	75 1/12	144 5/12
775		775
1958	1958	
1948		
2082	2082	2082
2082		

SHOOTING

Qts.	Sand	Depth	Test Before	Test After
20	1		5/2 Wet	5 Wet
20				

Section 15 Lot

PACKERS

Size	Make	Set at
5 x 6		
5 x 6		2064

3181

OG-11

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S WELL REPORT

Permit No. ROR-214-FARC

Oil or Gas Well (KIND) [illegible]

Company PENNZOIL COMPANY

Address PITSBG, W. VA. 26101

Farm PETER A. TALLMAN

Well No. 11

District SMITHFIELD County BOONE

Drilling commenced

1ST. COMP. - 1911-T.D.-2092'

Drilling completed Total depth

BOW-THROUGH 2" TUBING [illegible] PACKER FARC

Date shot 10-25-74 Depth of [illegible] 2092'

Initial open flow /10ths Water in Inch

Open flow after tubing /10ths Merc. in Inch

Volume Cu. Ft.

Rock pressure lbs. hrs.

Oil bbls., 1st 24 hrs.

Fresh water NO RECORD feet feet

Salt water [illegible] feet feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
18			Kind of Packer
13			
10 1/4 1911 PULLED	270	75'	Size of
8¼ PULLED	775	0	
6¾	1958	1958	Depth set
5 3/10		1998	
2			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED NONE SIZE No. FT. Date

NAME OF SERVICE COMPANY

COAL WAS ENCOUNTERED AT [illegible] FEET INCHES

FEET INCHES FEET INCHES

FEET INCHES FEET INCHES

Drillers' Names V. BAILEY

HAND FENCE-SPUDDER

Remarks:

WELL FARC 10-25-74

RECEIVED

NOV 4 1974

OIL & GAS DIVISION

DEPT. OF MINES

10-28-74

DATE

[illegible]

DISTRICT WELL INSPECTOR

"Pipeline"

Select County: (087) Roane

Enter Permit #: 3183

Get Date | Reset

Select datatypes: (Check All)

- Location
- Production
- Plugging
- Owner/Completion
- Stratigraphy
- Sample
- Pay/Show/Water
- Logs
- Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information

WV Geological & Economic Survey:

Well: County = 87 Permit = 3183

Report Time: Tuesday, May 19, 2020 1:14:46 AM

Well Reassignment Information: Reassigned From

OLD_COUNTY	OLD_PERMIT	NEW_COUNTY	NEW_PERMIT
87	50216	87	3183

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_NAME	QUAD_ID	LAT_DD	LON_DD	UTME	UTMN
4708703183	Roane	3183	Smithfield	Tariff	Otter	38.661491	-81.198747	482708.5	4278231.7

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NAME	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703183	3/28/1913	Original Loc	Completed	F A Tallman	42	C1787				Carter Oil			
4708703183	3/10/1936	Worked Over	Completed	F A Tallman	42	C1787				Pennzoil Company			
4708703183	11/5/1974	Worked Over	Completed	F A Tallman / F Lanning	42	C1787			Florence S Tallman	Pennzoil Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	OBJECTIVE_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT
4708703183	3/28/1913	1/29/1913	1095	Ground Level	Tariff(Tmn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil	Cable Tool	Nat/Open H	2172		2172		0	0	20	0			0	0	0
4708703183	3/10/1936	-/-/-	1095	Ground Level	Tariff(Tmn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil	unknown	Shot	2172		0		0	0	2	4			0	0	0
4708703183	11/5/1974	-/-/-	1095	Ground Level	Tariff(Tmn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil w/ Gas Show	unknown	Fractured	2172		0		0	12	0	10			0	0	0

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	O_BEF	O_AFT	G_BEF	G_AFT	WATER_QNTY
4708703183	3/28/1913	Pay	Oil	Vertical	2148	Big Injun (Price&eq)	2168	Big Injun (Price&eq)	20	0			
4708703183	3/10/1936	Pay	Oil	Vertical	2138	Big Injun (Price&eq)	2168	Big Injun (Price&eq)	2	4			
4708703183	11/5/1974	Pay	Oil	Vertical	2106	Big Injun (Price&eq)	2172	Big Injun (Price&eq)	0	10			
4708703183	11/5/1974	Show	Gas	Vertical	2109	Big Injun (Price&eq)	2172	Big Injun (Price&eq)	0	12			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708703183	Pennzoil Company	1981	1,118	0	0	0	0	0	0	0	0	0	0	0	0
4708703183	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708703183	Pennzoil Company	1983	521	0	0	0	0	0	0	0	0	0	0	0	0
4708703183	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703183	Pennzoil Products Company	1989	16	16	0	0	0	0	0	0	0	0	0	0	0
4708703183	Pennzoil Products Company	1990	61	16	2	4	3	0	3	17	3	6	0	3	4
4708703183	Pennzoil Products Company	1991	210	19	19	21	18	24	17	19	15	16	15	15	12
4708703183	Pennzoil Products Company	1992	118	11	6	5	6	9	9	13	16	10	14	10	9
4708703183	Pennzoil Products Company	1993	171	11	9	20	19	13	13	18	14	10	19	11	14
4708703183	Pennzoil Products Company	1994	113	16	12	7	8	6	9	9	9	5	7	13	12
4708703183	Pennzoil Products Company	1995	47	9	5	0	0	0	2	0	5	6	7	8	5
4708703183	Pennzoil Products Company	1996	22	0	0	0	0	2	1	0	0	7	3	4	5
4708703183	Pennzoil Products Company	1997	6	1	0	1	0	0	3	1	0	0	0	0	0
4708703183	Pennzoil Products Company	1998	24	0	0	4	4	1	3	0	3	2	7	0	0
4708703183	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708703183	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708703183	Triad Resources, Inc.	2004	68	6	5	8	9	9	11	8	9	11	8	4	0
4708703183	Triad Resources, Inc.	2005	5	5	0	0	0	0	0	0	0	0	0	0	0
4708703183	Triad Resources, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703183	Triad Resources, Inc.	2007	5	0	0	0	0	0	0	0	0	0	0	0	5
4708703183	Triad Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703183	Triad Resources, Inc.	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703183	Triad Hunter LLC	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703183	Triad Hunter LLC	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703183	Triad Hunter LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703183	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703183	Triad Hunter LLC	2014	17	0	0	0	0	1	2	3	1	1	3	3	3
4708703183	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703183	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703183	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703183	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708703183	Pennzoil Company	1981	509	0	0	0	0	0	0	0	0	0	0	0	0
4708703183	Pennzoil Company	1982	665	0	0	0	0	0	0	0	0	0	0	0	0
4708703183	Pennzoil Company	1983	829	0	0	0	0	0	0	0	0	0	0	0	0
4708703183	Pennzoil Company	1984	1,030	0	0	0	0	0	0	0	0	0	0	0	0
4708703183	Pennzoil Products Company	1989	101	0	37	0	0	0	0	0	0	0	0	64	10
4708703183	Pennzoil Products Company	1990	305	13	11	10	11	61	11	12	15	11	13	64	73
4708703183	Pennzoil Products Company	1991	704	80	78	77	49	58	45	48	51	64	55	54	45
4708703183	Pennzoil Products Company	1992	577	52	47	52	50	56	53	39	55	38	39	51	45
4708703183	Pennzoil Products Company	1993	675	83	72	52	42	57	58	57	57	45	50	53	49
4708703183	Pennzoil Products Company	1994	600	44	51	56	49	50	46	48	49	48	53	51	55

3183

4708703183	Pennzoil Products Company	1995	849	0	52	59	55	61	59	59	60	64	66	51	63
4708703183	Pennzoil Products Company	1996	733	64	64	66	55	60	60	48	56	58	65	71	66
4708703183	Pennzoil Products Company	1997	287	61	64	72	64	26	0	0	0	0	0	0	0
4708703183	Pennzoil Products Company	1998	620	54	62	73	62	55	55	60	69	61	69	0	0
4708703183	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708703183	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708703183	Triad Resources, Inc.	2004	329	31	31	31	31	30	30	22	28	24	23	21	27
4708703183	Triad Resources, Inc.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703183	Triad Resources, Inc.	2006	5	0	5	0	0	0	0	0	0	0	0	0	0
4708703183	Triad Resources, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703183	Triad Resources, Inc.	2008	2	0	0	0	0	0	0	0	0	0	0	0	2
4708703183	Triad Resources, Inc.	2009	2	0	0	0	0	0	0	0	0	0	0	0	2
4708703183	Triad Hunter LLC	2010	2	0	0	0	0	0	0	0	0	0	0	0	2
4708703183	Triad Hunter LLC	2011	2	0	0	0	0	0	0	0	0	0	0	0	2
4708703183	Triad Hunter LLC	2012	1	0	0	0	0	0	0	0	0	0	0	0	1
4708703183	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703183	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703183	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703183	Triad Hunter LLC	2016	0												
4708703183	Ground Resources, LLC	2017	0												
4708703183	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703183	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703183	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703183	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703183	Triad Hunter LLC	2016	0												
4708703183	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703183	Triad Hunter LLC	2016	0												
4708703183	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703183	Original Loc	Buffalo Sa/1st Cow Rn	Well Record	710	Reasonable	25	Reasonable	1095	Ground Level
4708703183	Original Loc	Lo Frprt Sa/Frprt Ss	Well Record	790	Reasonable	160	Reasonable	1095	Ground Level
4708703183	Original Loc	1st Salt Sand	Well Record	1325	Reasonable	55	Reasonable	1095	Ground Level
4708703183	Original Loc	2nd Salt Sand	Well Record	1434	Reasonable	10	Reasonable	1095	Ground Level
4708703183	Original Loc	3rd Salt Sand	Well Record	1624	Reasonable	310	Reasonable	1095	Ground Level
4708703183	Original Loc	Maxton	Well Record	1942	Reasonable	18	Reasonable	1095	Ground Level
4708703183	Original Loc	Little Lime	Well Record	1974	Reasonable	36	Reasonable	1095	Ground Level
4708703183	Original Loc	Pencil Cave	Well Record	2010	Reasonable	27	Reasonable	1095	Ground Level
4708703183	Original Loc	Big Lime	Well Record	2037	Reasonable	101	Reasonable	1095	Ground Level
4708703183	Original Loc	Big Injun (Price&eq)	Well Record	2138	Reasonable	30	Reasonable	1095	Ground Level
4708703183	Original Loc	Undf PRICE blw INJN	Well Record	2168	Reasonable	0	Reasonable	1095	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	BOREHOLE_FMT	LOGS_AVAIL	BEAM	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703183	1596	2160		G,C,*	Y	N		1600	2160										1596	2150	N	Y	N						

Comment: *logs: caliper, CCL

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703183gco.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron–SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL–casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL–Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

3183

WELL NO. 42 NAME Williams Co. A. LEASE NO. 5614 ACRES 2350 N. 854 E. W. 31 DISTRICT SPENCER

District or Town Smithfield
County Harrison
State W. Va.
Commenced 1/29/13
Completed 3/2/13
Contractor Cooper & Miller $1.05 Per Foot
Purchased From Cabot Oil Co.
Date Purchased 1-1-71
Date Connected
Sold To
Date Sold
Date Plugged
Date Abandoned

CASING AND TUBING

Size	Put in Well	Left in Well	Pulled
13 in. Casing			
10 in. Casing	292		292
8¼ in. Casing	772		792
6⅝ in. Casing	2038	2038	
6¼ in. Casing			
5⅜ in. Casing			
4½ in. Casing			
2 in. Tubing	2162	2162	2162
1½ in. Tubing	2162		
1¼ in. Tubing			

SHOOTING

Date	Qts.	Form	Depth	Test Before	Test After
3-10-13	40	Nitro		1000	1000

Initial Oil Production 2000
Initial Gas Flow

RECORD

Elevation at Mouth of Well

Formation	Top	Bottom	Thickness	Oil at	Gas at	Water at	Thickness of Pay
Pittsburgh Coal							
Red Rock Cave	370	470	100				
Cow Run (First)	710	735	25				
Cow Run (Second)	790	950	160				
Salt Sand (Upper)	1325	1380	55				
Salt Sand (Middle)	1434	1444	10				
Salt Sand (Lower)	1624	1934	310			1748	
Maxon	1942	1960	18				
Little Lime	1974	2010	36				
Pencil Cave	2010	2037	27				
Big Lime	2037	2138	101				
Keener Sand							
Injun Sand	2138	2168	30	2148			20
Squaw Sand							
Weir Sand							
Berea Sand							
Gantz Sand							
Fifty Foot Sand							
Thirty Foot Sand							
Gordon Stray							
Gordon Sand							
Fourth Sand							
Fifth Sand							
Corniferous Lime							
Niagara Lime							
Cave							
Clinton							
Medina Shale							
Trenton							
Total Depth	2172						

Remarks

PACKERS

Size	Make	Set at

RECEIVED OCT 8 1974 OIL & GAS DIV. DEPT. OF MINES

3183

3183

OG-11

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

RECEIVED
NOV 18 1974
OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. ROA-216-F

Oil or Gas Well [illegible] (KIND)

Company PENNZOIL CO. P.O. BOX 1588

Address BHSBG, W.VA. 26101

Farm R.A. TALLMAN

Well No. 42

District SMITHFIELD County PLANE

Drilling commenced 1st COMP 3-1/3

Drilling completed 11-5-74 Total depth 2172'

H.O. WCO - INTRODUCED 2" TUB ON LYRES PACK. FAR

Date shot 11-5-74 Depth of shot INNER

Initial open flow _____ /10ths Water in _____ Inch

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

Fresh water NO RECORD feet _____ feet

Salt water 1748 feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer
13			
10	292	PULLED ~~292~~	Size of
8¼	792	PULLED ~~792~~	
6⅝	2038	2038	Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED NONE SIZE _____ No. FT. _____ Date

NAME OF SERVICE COMPANY

COAL WAS ENCOUNTERED AT NONE FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names HUTCHINSON

Remarks:

WELL FRAC. 11-5-74 - H.O. WCO

H. PENCE - SPOTTER

SALT SHOTS - 1624' - 1734' - 2.1 - 1748

MAXON - 1742 - 1760

L. LIME - 1774 - 2010

PENCIL - 2010 - 2037

B. LIME - 2037 - 2138

B. INJUN - 2138 - 2168 - OIL - 2148

T.D. - 2172

11-12-74
DATE

[illegible]
DISTRICT WELL INSPECTOR

3609

"Pipeline"

Select County: (087) Roane
Enter Permit #: 3609
Get Data | Reset

Select datatypes: (Check All)
Location | Production | Plugging
Owner/Completion | Stratigraphy | Sample
Pay/Show/Water | Logs | Btm Hole Loc

Table Descri tions
Cou e Code Translations
Permit Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 3609

Report Time: Tuesday, May 19, 2020 1:29:29 AM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_7.5	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703609	Roane	3609	Smithfield	Tariff	Otter	38.648831	-81.214392	481344	4277830

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703609	8/30/1982	Original Loc	Completed	D Jones/P A Tallman	66				Anna Lee Collins	Pennzoil Company			
4708703609	12/8/1994	Worked Over	Completed	Doyle D Jones	66	TALLMAN 66			Anna Lee Collins	Pennzoil Products Company			
4708703609	7/6/2015	Plugging	Completed	Triad Hunter LLC	66		P A Tallman		T A L Collins	Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	PRODUCING_FM	DEPTH_PBT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_METH	TVD	TMD	NEW_FIN	ADD_E	G_BEF
4708703609	8/30/1982	8/19/1982	1238	Ground Level	Tariff(Tlmn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2310		2310		0
4708703609	12/8/1994	12/8/1994	1238	Ground Level	Tariff(Tlmn)	Price Fm & equivs	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Cable Tool	Acid+Frac	2304		0		0
4708703609	7/6/2015	7/3/2015	1263	Ground Level													

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703609	8/30/1982	Horizon	Injection	Vertical	2248	Big Injun (Price&eq)	2268	Big Injun (Price&eq)	0	0			
4708703609	12/8/1994	Horizon	Injection	Vertical	2240	Big Injun (Price&eq)	2274	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in MCF) * 2019 data for H6A wells onl . Other wells are incom lete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708703609	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703609	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703609	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703609	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703609	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703609	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703609	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703609	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703609	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703609	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708703609	Pennzoil Company	1984	1,030	0	0	0	0	0	0	0	0	0	0	0	0
4708703609	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703609	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703609	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703609	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703609	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703609	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703609	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703609	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703609	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703609	Original Loc	3rd Salt Sand	Well Record	1950	Reasonable	129	Reasonable	1238	Ground Level
4708703609	Original Loc	Little Lime	Well Record	2079	Reasonable	33	Reasonable	1238	Ground Level
4708703609	Original Loc	Blue Monday	Well Record	2112	Reasonable	3	Reasonable	1238	Ground Level
4708703609	Original Loc	Big Lime	Well Record	2136	Reasonable	104	Reasonable	1238	Ground Level
4708703609	Original Loc	Greenbrier Group	Well Record	2136	Reasonable	104	Reasonable	1238	Ground Level
4708703609	Original Loc	Big Injun (Price&eq)	Well Record	2240	Reasonable	34	Reasonable	1238	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5
4708703609	5	2309		G,D,C	Y	N	5	2304	508	2309									508	2309	Y	Y

Comment: *logs: caliper

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703609gdc.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708703609	7/6/2015	0

There is no Sample data for this well

3609

OG-10
Rev. - 9-71

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

RECEIVED
Office of Oil & Gas
UIC Section
NOV 14 1994
WV Division of
Environmental Protection

WELL RECORD

Rotary X Oil X
Cable ____ Gas ____
Recycling ____ Comb. ____
Water Flood X Storage ____
Disposal ____ ____ (Kind)

Quadrangle Tariff 7.5

Permit No. 087-3609-L1

Company Pennzoil Company
Address P. O. Box 1588, Parkersburg, WV 26101
Farm P. A. Tallman Acres 2350
Location (waters) Trace Fork
Well No. 66 Elev. 1238.27
District Smithfield County Roane
The surface of tract is owned in fee by
Doyle D. Jones
Address Lefthand, WV 25251
Mineral rights are owned by Anna Lee Collins
Address Main St., Pt. Pleasant, WV
Drilling Commenced 6-[illegible]-82
Drilling Completed 6-30-82
Initial open flow WIW cu. ft. ____ bbls.
Final production ____ cu. ft. per day ____ bbls.
Well open ____ hrs. before test ____ RP.
Well treatment details:

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	501	501	290 sks.
7			
5 1/2			
4 1/2	2303	2303	175 sks.
3			
2			
Liners Used			

Attach copy of cementing record.

Water Injection Well

Fractured: 11-11-82 w/250 gls. 15% HCL, 145 BW, 1500# 20/40 sd

Perf: 2248-66-18H

Coal was encountered at ____ Feet ____ Inches
Fresh water ____ Feet ____ Salt Water ____ Feet ____
Producing Sand Big Injun Depth ____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand			0	508		
Silt & Shale			508	596		
Silt & Sand			596	662		
Silt & Shale			662	764		
Sand & Shale			764	1950		
Salt Sand			1950	2079		
Little Lime			2079	2112		
Blue Monday			2112	2115		
Pencil Cave			2115	2136		
Big Lime			2136	2240		
Big Injun			2240	2274		
Pocono Shale			2274	2310		
Total Depth				2310		

3609

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks

Date Feb 28, 1983

PENNZOIL CO

APPROVED [signature] Owner

Supervisor, Surveying & Mapping

WR-38
Rev. 5/08

API # 47-8703609

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: Energy Acquisition Corp Operator Well No.: P.A. TALLMAN 66

LOCATION: Elevation: 1238 Quadrangle: TARIFF
District: SMITHFIELD County: ROANE
Latitude: _____ Feet South of _____ Deg. _____ Min. _____ Sec.
Longitude: _____ Feet West of _____ Deg. _____ Min. _____ Sec.

Well Type: OIL _____ GAS _____

Company TRIAD HUNTER, LLC
125 PUTNAM STREET
MARIETTA, OHIO

Coal Operator or Owner _____

Coal Operator or Owner _____

Agent KIM ARNOLD
Permit Issued Date 05/07/2015

RECEIVED
Office of Oil and Gas
OCT 12 2017
WV Department of
Environmental Protection

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of ROANE ss:

TERRY REXROAD and DARRELL SHAMBLIN being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 3RD day of JULY, 2015, and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
CEMENT	2300	2075	889' OF 4 1/2	1414' OF 4 1/2
6% GEL	2075	1260		501' OF 8 5/8
CEMENT	1260	1140	RIPPED HOLES AT 1240 AND 1180	
6% GEL	1140	900		
CEMENT	900	800		
6% GEL	800	550	6 % GEL 450 TO 150	
CEMENT	550	450	CEMENT 150 TO SURFACE	

Description of monument: 7" CASING WITH DATE AND API # WELDED ON and that the work of plugging and filling said well was completed on the 6 day of JULY, 2015.

And further deponents saith not.

David Shamblin

Sworn and subscribe before me this 3 day of August, 2015

OFFICIAL SEAL
Notary Public, State Of West Virginia
BRIAN MARKS
349 Big Creek
Walton, WV 25286
My Commission Expires October 25, 2023

My commission expires: 10-25-2023

Brian Marks
Notary Public

Affidavit reviewed by the Office of Oil and Gas: _____ Title: Oil & Gas Inspector

NO ORIGINAL DRILL LOG

3624

WVGES ... RIES IT ALL
"Pipeline"

Select County: (087) Roane
Enter Permit #: 3624
Get Data | Reset

Select datatypes: (Check All)
Location | Production | Plugging
Owner/Completion | Stratigraphy | Sample
Pay/Show/Water | Logs | Btm Hole Loc

Table Descri tions
C u Code Translations
Permit-Numberin Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 3624

Report Time: Tuesday, May 19, 2020 1:40:29 AM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703624	Roane	3624	Smithfield	unknown	unknown				

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703624	-/-/-	Original Loc	Completed	P A Tallman	30					Pennzoil Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_
4708703624	-/-/-	-/-/-			Unnamed			unclassified	unclassified	not available	unknown	unknown	2175		2175		0	0	0	

There is no Pay data for this well

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells onl . Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703624	Pennzoil Company	1982	1,385	0	0	0	0	0	0	0	0	0	0	0	0
4708703624	Pennzoil Products Company	1989	151	16	6	20	13	7	8	12	9	31	13	7	9
4708703624	Pennzoil Products Company	1990	108	36	3	0	0	0	16	12	7	11	0	11	12
4708703624	Pennzoil Products Company	1991	142	9	17	12	6	10	17	16	9	9	8	14	15
4708703624	Pennzoil Products Company	1992	98	11	5	3	3	6	6	12	12	12	12	8	8
4708703624	Pennzoil Products Company	1993	134	18	11	11	10	10	7	10	6	14	9	14	14
4708703624	Pennzoil Products Company	1994	112	14	12	9	7	6	8	10	8	7	8	12	11
4708703624	Pennzoil Products Company	1995	65	9	6	3	4	3	2	2	9	5	10	7	5
4708703624	Pennzoil Products Company	1996	39	3	0	0	2	3	3	2	4	9	6	3	4
4708703624	Pennzoil Products Company	1997	18	1	2	4	3	3	4	1	0	0	0	0	0
4708703624	Pennzoil Products Company	1998	36	0	0	5	4	2	4	4	4	4	9	0	0
4708703624	Triad Resources, Inc.	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703624	Triad Hunter LLC	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703624	Triad Hunter LLC	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703624	Triad Hunter LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703624	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703624	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703624	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703624	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703624	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703624	Ground Resources, LLC	2018	8	0	0	0	0	0	0	0	0	0	0	0	8

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703624	Pennzoil Company	1982	685	0	0	0	0	0	0	0	0	0	0	0	0
4708703624	Pennzoil Products Company	1989	536	59	67	26	24	26	24	67	37	20	48	124	16
4708703624	Pennzoil Products Company	1990	405	7	26	34	52	45	26	22	17	39	45	30	63
4708703624	Pennzoil Products Company	1991	507	46	26	32	49	48	26	26	27	63	70	54	40
4708703624	Pennzoil Products Company	1992	449	25	23	33	34	51	38	47	45	23	26	62	42
4708703624	Pennzoil Products Company	1993	409	39	31	33	18	28	20	49	22	44	40	42	43
4708703624	Pennzoil Products Company	1994	429	40	31	34	30	37	32	36	36	35	39	38	41
4708703624	Pennzoil Products Company	1995	434	47	31	36	25	36	57	31	59	38	40	34	0
4708703624	Pennzoil Products Company	1996	432	0	25	51	40	40	43	48	59	26	29	31	40
4708703624	Pennzoil Products Company	1997	196	49	51	41	39	16	0	0	0	0	0	0	0
4708703624	Pennzoil Products Company	1998	357	33	38	31	37	28	32	37	42	37	42	0	0
4708703624	Triad Resources, Inc.	2009	2	0	0	0	0	0	0	0	0	0	0	0	2
4708703624	Triad Hunter LLC	2010	2	0	0	0	0	0	0	0	0	0	0	0	2
4708703624	Triad Hunter LLC	2011	241	0	40	43	0	39	0	0	0	42	0	40	37
4708703624	Triad Hunter LLC	2012	237	0	39	0	38	0	40	0	39	0	42	0	39
4708703624	Triad Hunter LLC	2013	223	0	40	24	0	40	0	40	0	0	40	0	39
4708703624	Triad Hunter LLC	2014	179	0	41	0	39	0	0	0	0	39	0	41	19
4708703624	Triad Hunter LLC	2015	152	0	35	0	0	40	0	38	0	39	0	0	0
4708703624	Triad Hunter LLC	2016	131					9	10	28	10	28	9	11	26
4708703624	Ground Resources, LLC	2017	181	13	16	17	15	14		4	22	18	25	19	18
4708703624	Ground Resources LLC	2018	434	39	37	51	33	37	32	43	33	26	35	31	37

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703624	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703624	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703624	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703624	Triad Hunter LLC	2016	0												
4708703624	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703624	Triad Hunter LLC	2016	0												
4708703624	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

There is no Stratigraphy data for this well

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FM	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	MCF15
4708703624	398	2178		G,C,*	Y		398	2172											1-20	2175	N	Y

Comment: *logs: caliper, CCL

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703624gco.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron–SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper

3624

o other[1]
p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

RDA 3624

3624

GEARHART

FILING NO.	COMPANY
	WELL
	FIELD
	COUNTY
	LOCATION:
	SEC. ____ TWP. ____ RGE. ____

PERMANENT DATUM ____ ELEV: ____

LOG MEASURED FROM ____ FT. AB

DRILLING MEASURED FROM ____

Date		
Run No.		
Type Log		
Depth-Driller		
Depth-Logger		
Bottom logged interval		
Top logged interval		
Type fluid in hole		
Max rec. temp., deg. F.		
Operating rig time		
Recorded by		
Witnessed by		

Bore-Hole Record

Run No.	Bit	From	To	Size

Casing Record

Size	Wgt.	From	To	Size

FIELD

FORM 110-H

STATE

OTHER SERVICES

OV... M. DATUM

ELEV.. K.B

D.F

G.L

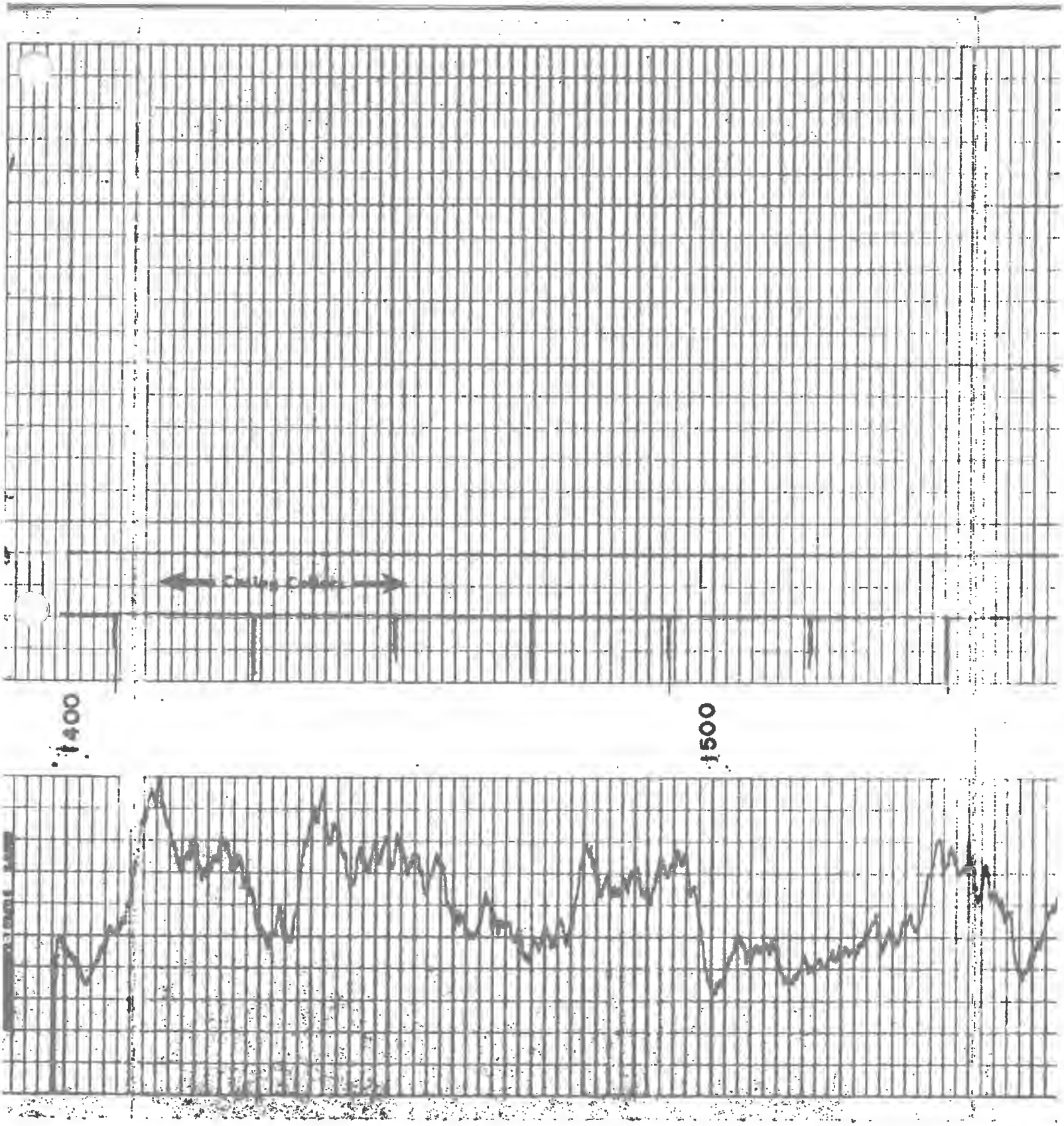
Tubing Record

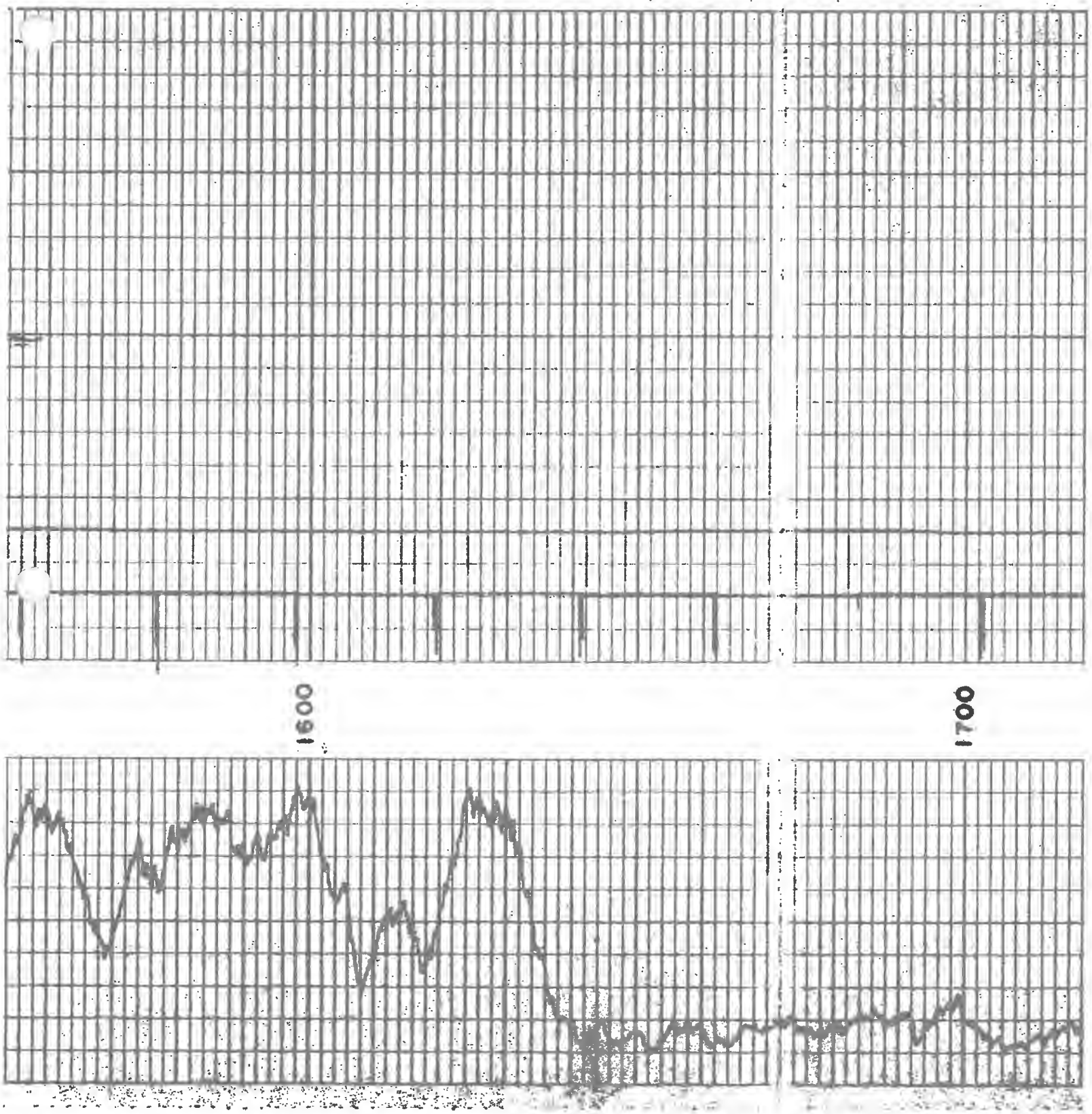
PRINT

Wgt.	From	To

NOTICE: All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by one of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

GEARHART


Cable Cable
1400
1500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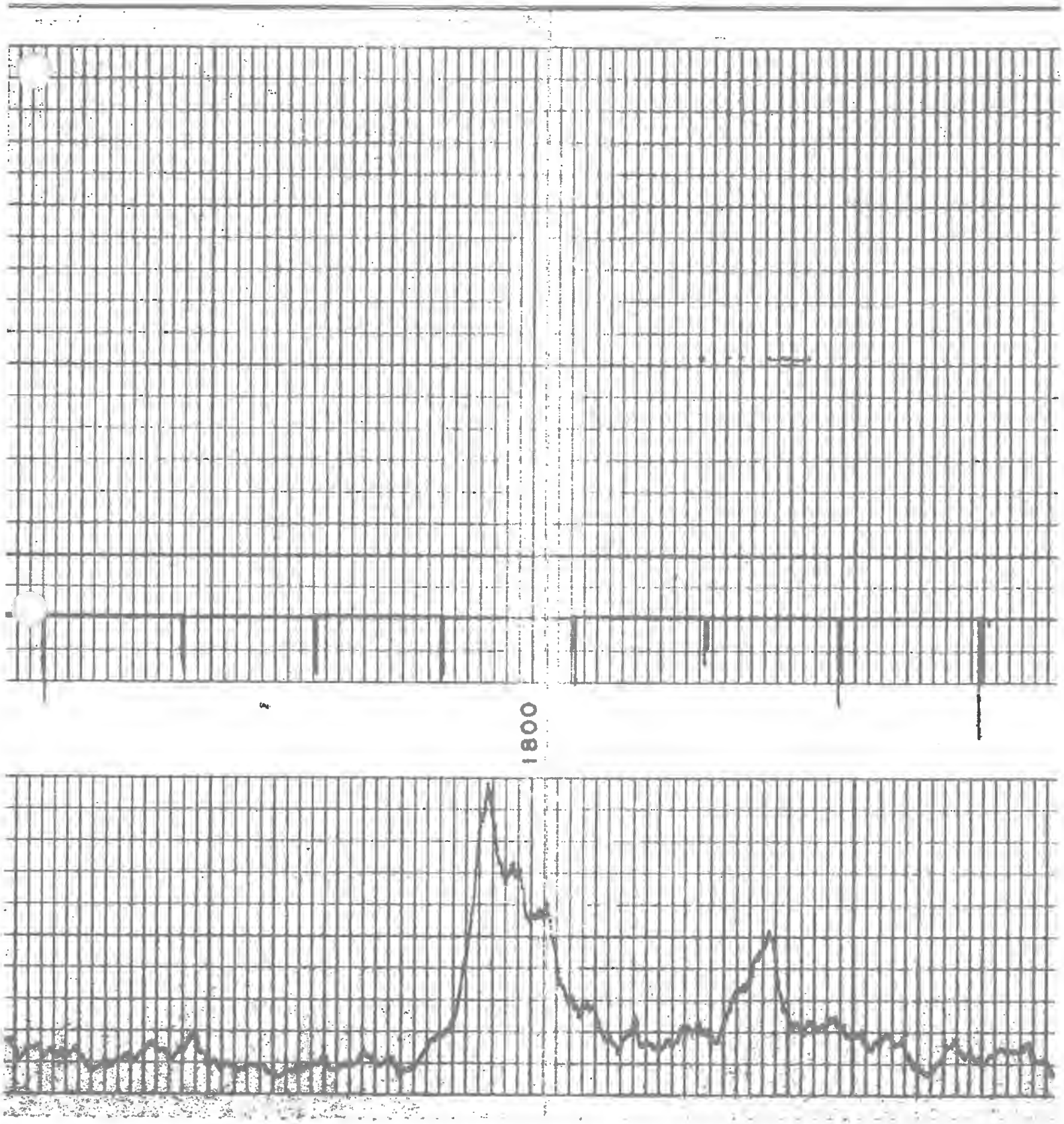
1700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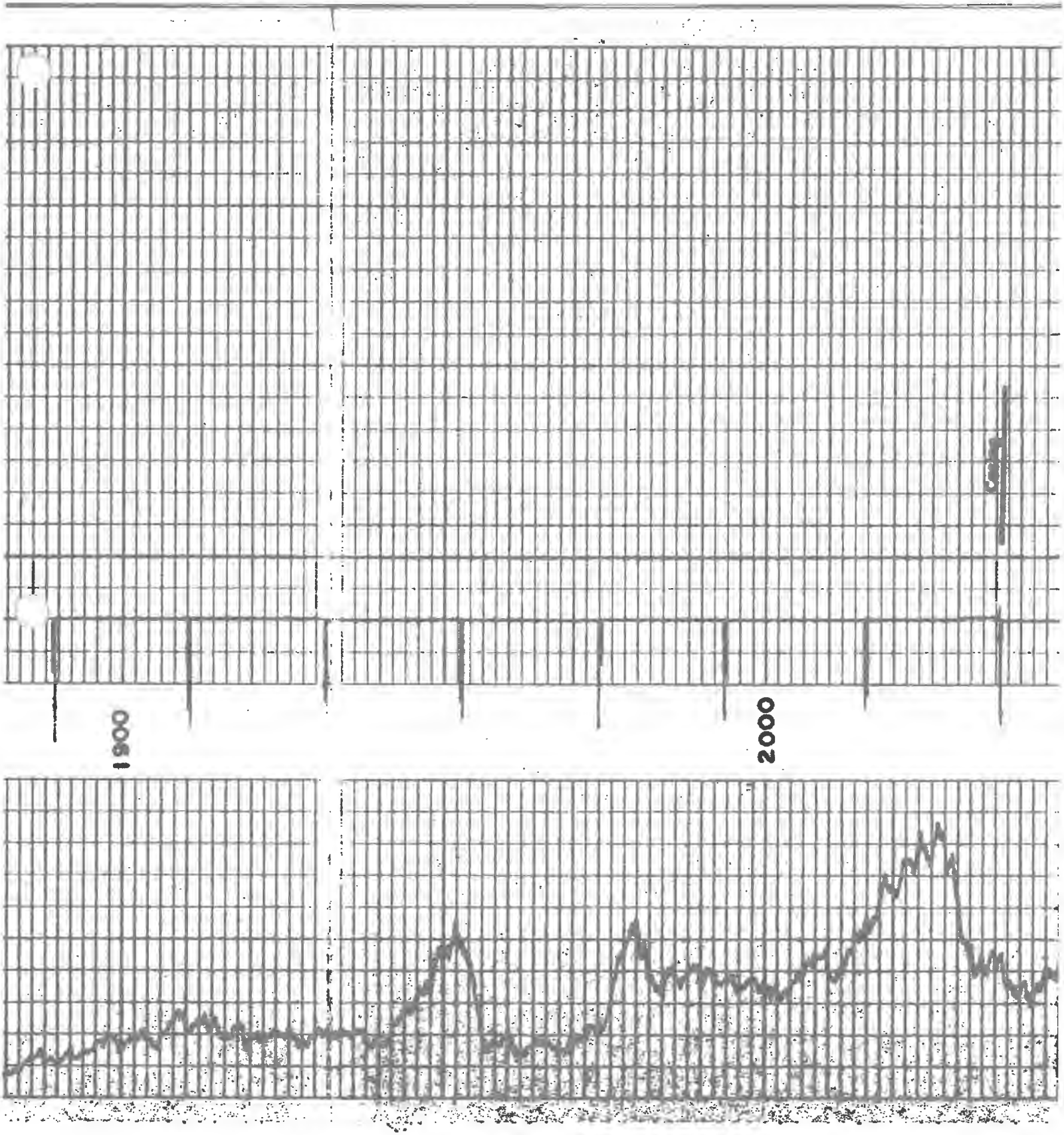
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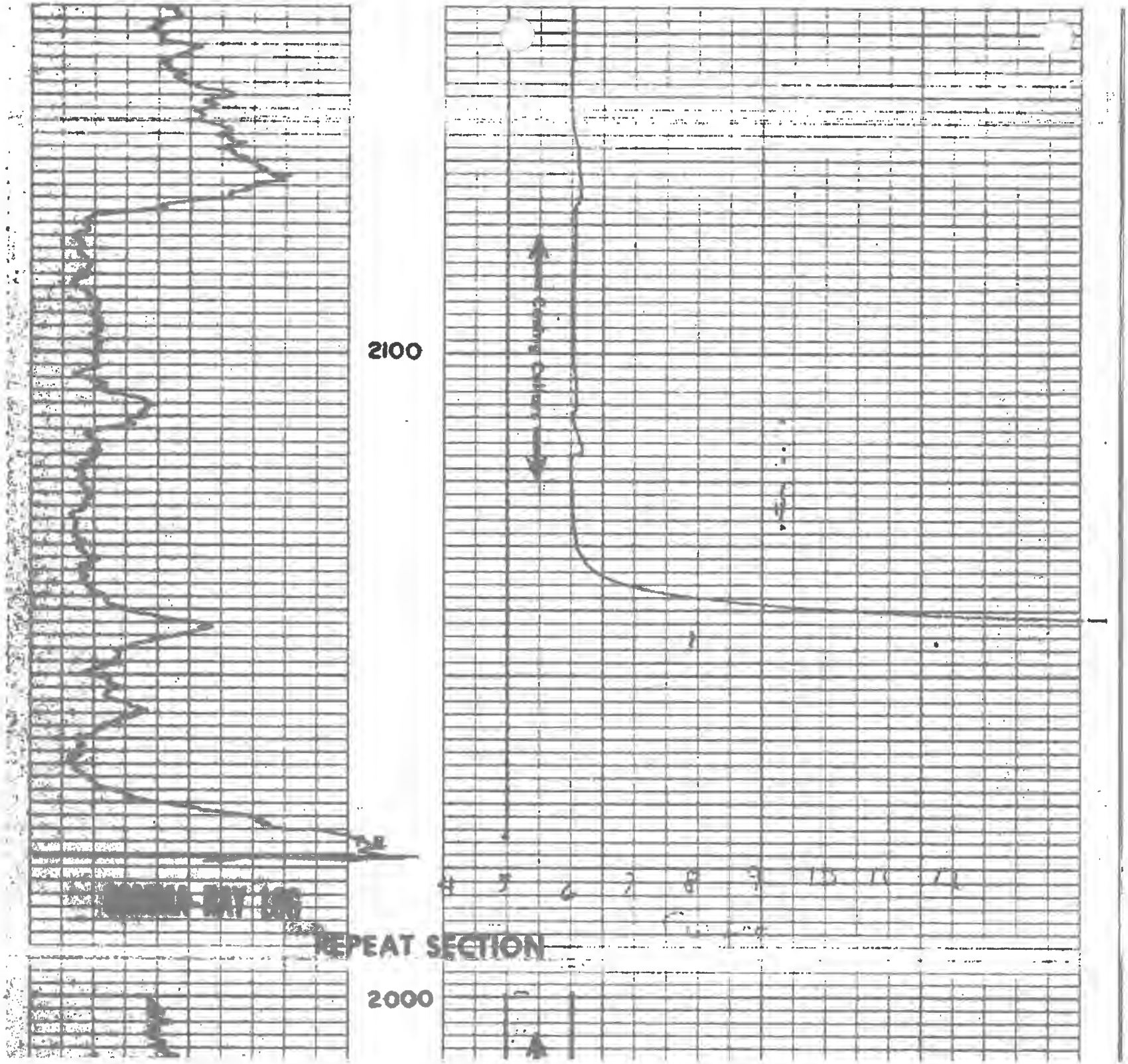
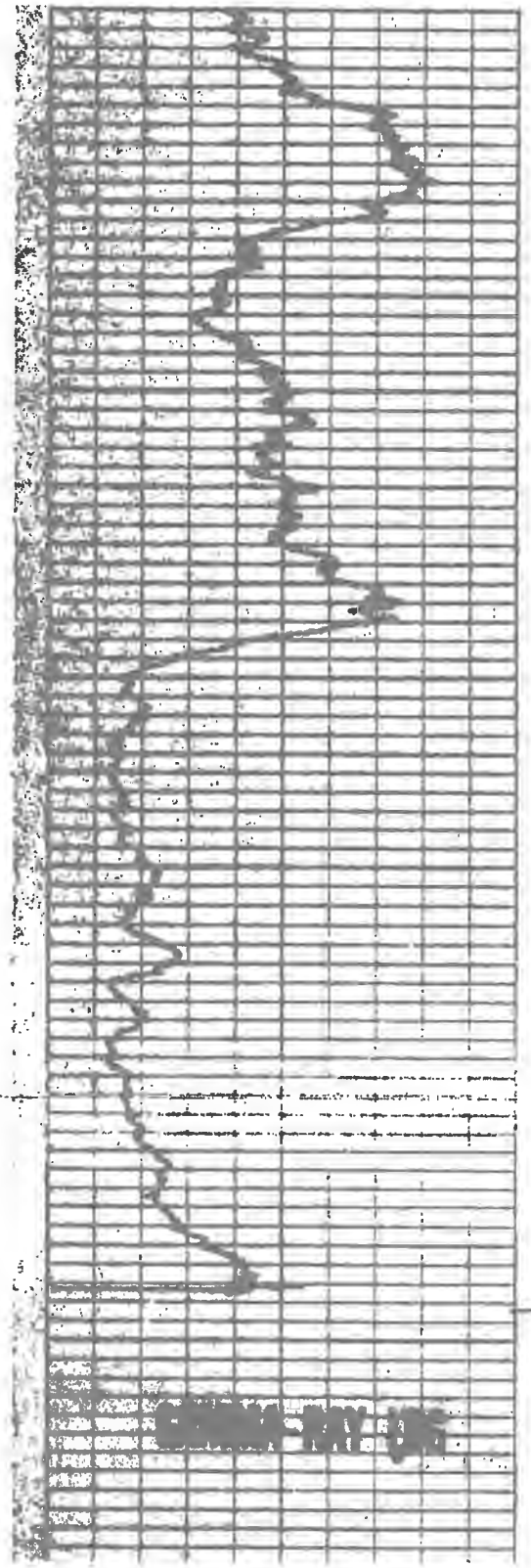
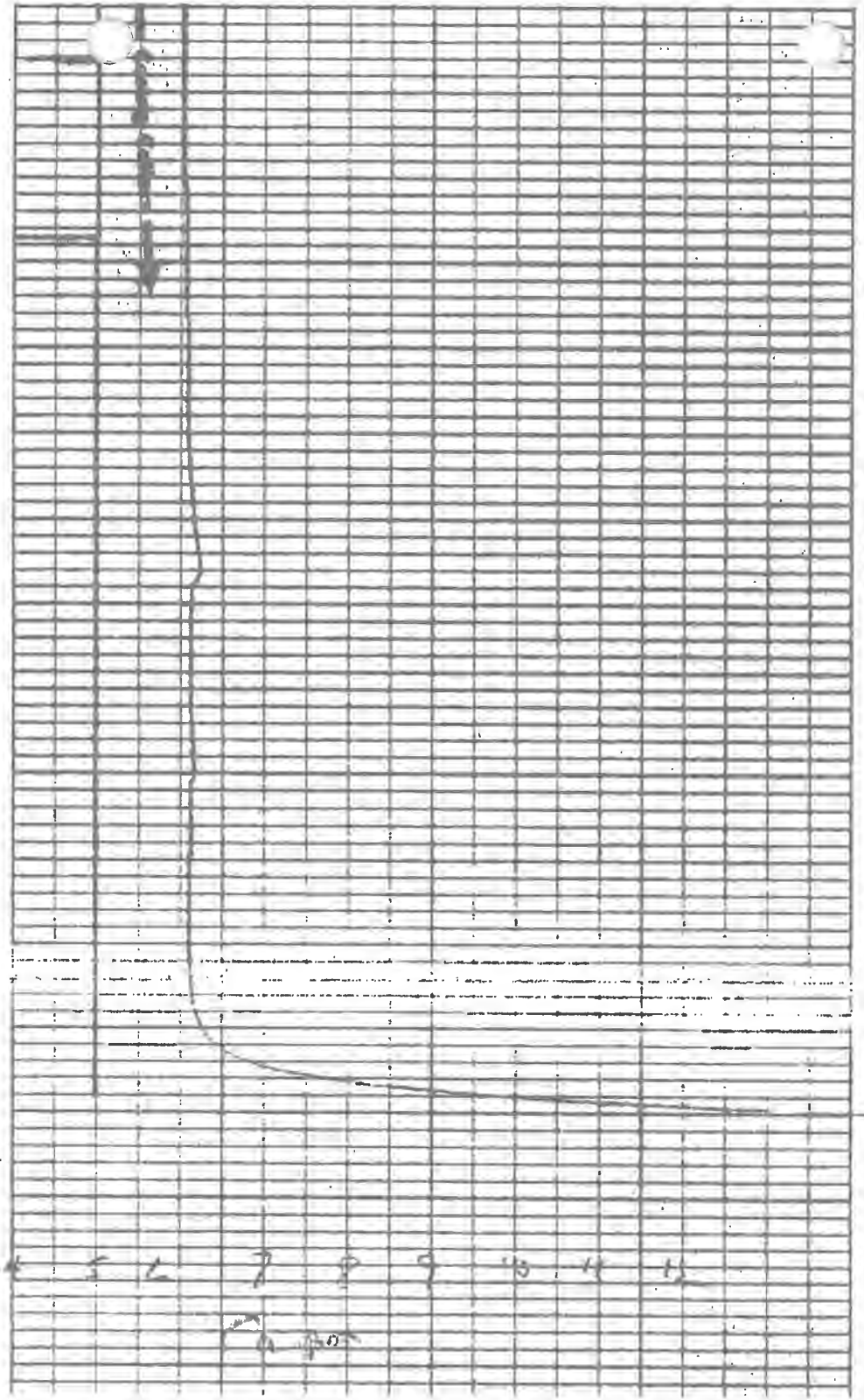
2000

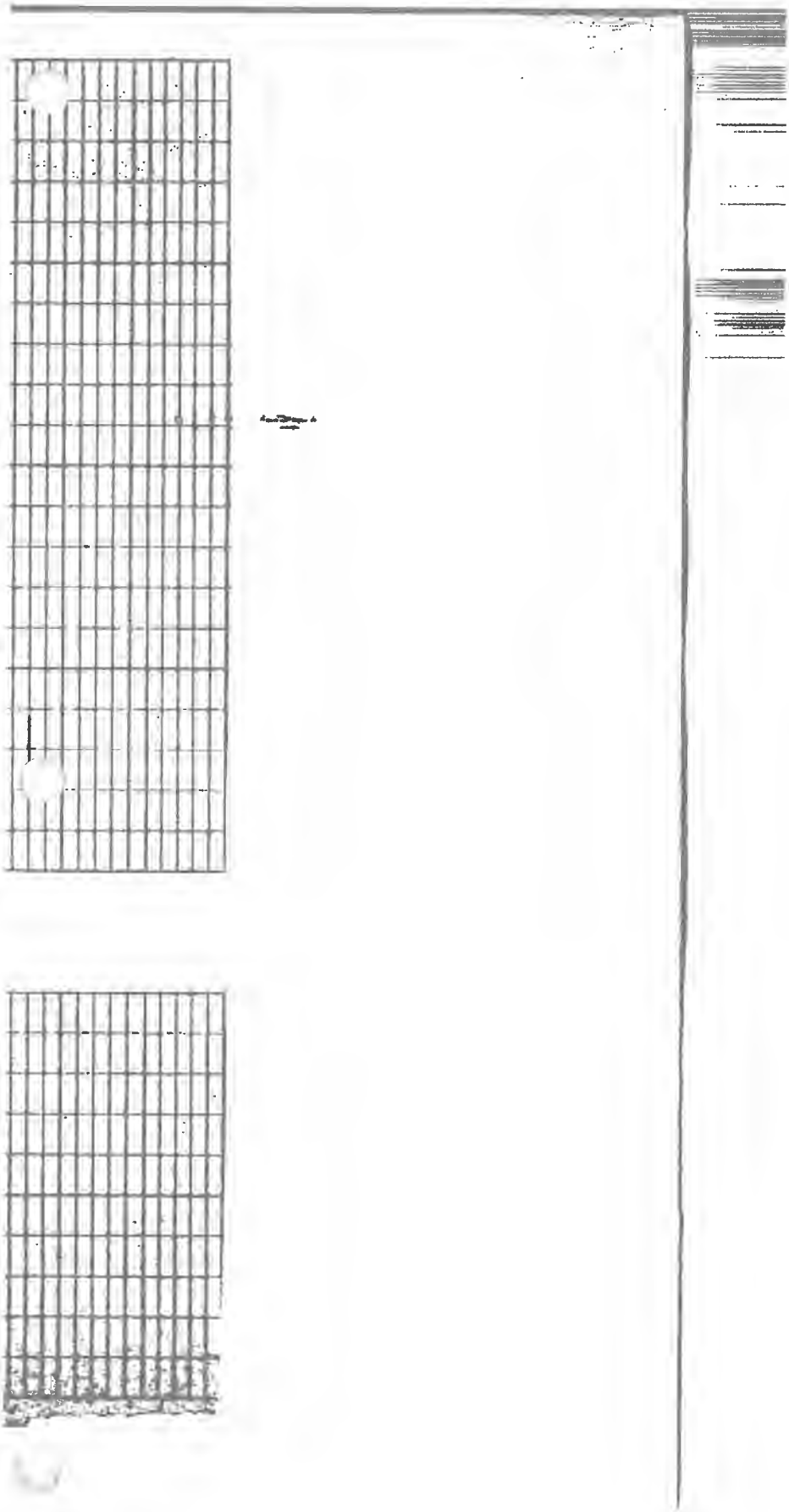

2100
REPEAT SECTION
2000



2100

F. R.





"Pipeline"

Select County: (087) Roane

Enter Permit #: 3659

Get Data | Reset

Select datatypes: (Check All)

- Location
- Owner/Completion
- Pay/Show/Water
- Production
- Stratigraphy
- Logs
- Plugging
- Sample
- Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information

WV Geological & Economic Survey:

Well: County = 87 Permit = 3659

Report Time: Tuesday, May 19, 2020 1:46:53 AM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703659	Roane	3659	Smithfield	Tariff	Otter	38.653417	-81.211958	481557	4278336.3

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_FM
4708703659	10/-/1982	Original Loc	Completed	J Shamblin/W Looney	30					Pennzoil Company			
4708703659	10/7/2013	Plugging	Completed	Triad Hunter	30		W M Looney			Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	FIRST_DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	BR
4708703659	10/-/1982	-/-/-	1077	Ground Level	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2174		2174		0	0	0	0			0	0	0	0
4708703659	10/7/2013	10/1/2013	1077	Ground Level																						

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703659	10/-/1982	Horizon	Injection	Vertical			2122	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708703659	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703659	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703659	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703659	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703659	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703659	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703659	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703659	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703659	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703659	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708703659	Pennzoil Company	1984	1,013	0	0	0	0	0	0	0	0	0	0	0	0
4708703659	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703659	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703659	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703659	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703659	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703659	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703659	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703659	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703659	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703659	Original Loc	1st Salt Sand	Well Record	1628	Reasonable	114	Reasonable	1077	Ground Level
4708703659	Original Loc	2nd Salt Sand	Well Record	1771	Reasonable	37	Reasonable	1077	Ground Level
4708703659	Original Loc	3rd Salt Sand	Well Record	1822	Reasonable	52	Reasonable	1077	Ground Level
4708703659	Original Loc	Little Lime	Well Record	1926	Reasonable	38	Reasonable	1077	Ground Level
4708703659	Original Loc	Blue Monday	Well Record	1968	Reasonable	8	Reasonable	1077	Ground Level
4708703659	Original Loc	Greenbrier Group	Well Record	1988	Reasonable	104	Reasonable	1077	Ground Level
4708703659	Original Loc	Big Lime	Well Record	1988	Reasonable	104	Reasonable	1077	Ground Level
4708703659	Original Loc	Big Injun (Price&eq)	Well Record	2092	Reasonable	32	Reasonable	1077	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	SOURCE	FIL	LOGR	AVWE	BEAT	BS	NORMALIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH6	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703659	9	2173			G	C				9	2168	356	2173									356	2173	Y	Y	N						

Comment: *logs: caliper

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:

d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)

FILENAME

3659

W.M. Looney 30
8703659P

OG-10
Rev. - 9-71

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

Quadrangle Tariff 7.5'
Permit No. 087-3659-Li

Rotary X Oil X
Cable ____ Gas ____
Recycling ____ Comb. ____
Water Flood X Storage ____
Disposal ____ ____ (Kind)

Company: Pennzoil Company
Address P. O. Box 1588, Parkersburg, WV 26101
Farm W. M. Looney Acres 480
Location (waters) Trace Fork
Well No. 30 Elev. 1076.63
District Smithfield County Boone
The surface of tract is owned in fee by
~~John E. Shamblin~~ Triad
Address Lefthand, WV 25251
Mineral rights are owned by Keith Crihfield
Address P.O.Box 431, Spencer, WV
Drilling Commenced 9-27-82
Drilling Completed 10-1-82
Initial open flow WIW cu. ft. ____ bbls.
Final production ____ cu. ft. per day ____ bbls.
Well open ____ hrs. before test ____ RP.
Well treatment details:
Water Injection Well
Fractured: 11-17-82 w/250 gls. 15% HCL, 145 Bbl. 20# Gel, 1500# 20/40 sd
Perf: 2102-2122-21H

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	356	355	140 sks.
7			
5 1/2			
4 1/2	2164	2164	175 sks.
3			
2			
Liners Used			

Attach copy of cementing record.

Coal was encountered at ____ Feet ____ Inches
Fresh water ____ Feet ____ Salt Water ____ Feet ____
Producing Sand Big Injun Depth ____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sand			0	356		
Shale			356	432		
Sand			432	448		
Shale & Sand			448	1628		
Salt Sand			1628	1742		
Silty Shale			1742	1771		
Salt Sand			1771	1808		
Silty Sand			1808	1822		
Salt Sand			1822	1874		
Silty Shale			1874	1900		
Sand			1900	1916		
Silty Sand			1916	1928		
Little Lime			1928	1966		
Blue Monday			1966	1974		
Pencil Cave			1974	1988		
Big Lime			1988	2092		
Big Injun			2092	2124		
Pocono Shale			2124	2174		
Total Depth				2174		

WR-38
Rev. 5/08

API # 47-8703659

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: Triad Hunter Operator Well No.: # 30

LOCATION: Elevation: 1076' Quadrangle: Newton
District: Smithfield County: Roane
Latitude: _____ Feet South of ____ Deg. ____ Min. ____ Sec.
Longitude: _____ Feet West of ____ Deg. ____ Min. ____ Sec.

Northing 4278338
Easting 481557

Well Type: OIL X GAS ____

Company: Triad Hunter
5669 Wallback Rd.
Wallback, WV.25285

Coal Operator or Owner: no Coal

Agent: Mike Horan

Coal Operator or Owner: _____

Permit Issued Date: 4/8/2013

RECEIVED
Office of Oil & Gas
MAR 17 2014
WV Department of
Environmental Protection

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

Rick Duckworth and Robert Stewart being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 1 day of Oct., 2013 and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement	2150'	2050'	498' of 4½"	1684 of 4½"
Cement	1125'	1020'		355' of 8 5/8"
Cement	530'	430'		
Cement	405'	305'		
Cement	100'	0'		
Gel between all plugs				

Description of monument: 7" pipe with API numbers, and that the work of plugging and filling said well was completed on the 7 day of Oct., 2013.

And further deponents saith not.

Rick Duckworth
Robert Stewart

OFFICIAL SEAL
Timothy Keaton
Notary Public
State of West Virginia
My Commission Expires
October 07, 2023
1106 Big Sandy Rd
Left Hand, WV 25251

Sworn and subscribe before me this 14 day of October, 2013

My commission expires: 10-7-2023

Timothy Keaton
Notary Public

Affidavit reviewed by the Office of Oil and Gas: _____ Title: Inspector

Did not witness all plugs

3661

"Pipeline"

Select County: (087) Roane

Enter Permit #: 3661

Get Data | Reset

Select datatypes: (Check All)

- Location
- Production
- Plugging
- Owner/Completion
- Stratigraphy
- Sample
- Pay/Show/Water
- Logs
- Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 3661

Report Time: Wednesday, May 02, 2018 1:44:17 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703661	Roane	3661	Smithfield	Tariff	Otter	38.551174	-81.211074	481633.3	4278089.3

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703661	9/-/1982	Original Loc	Completed	D Jones/W M Looney	32					Pennzoil Company			
4708703661	10/7/2013	Plugging	Completed	Tirad Hunter	32					Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	G_BEF	G_AFT	O_BEF	O_AFT	NGL_I
4708703661	9/-/1982	-/-/-	1181	Ground Level	Tariff(Tlmn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2270		2270	0	0	0	0	
4708703661	10/7/2013	8/2/2013	1181	Ground Level																

Comment: 10/7/2013 Revised affidavit submitted.

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703661	9/-/1982	Horizon	Injection	Vertical			2221	Big Injun Price&e	0	0			

Production Gas Information: Volumes in Mcf

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703661	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703661	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703661	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703661	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703661	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703661	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703661	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703661	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703661	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: Volumes in Bbl ** some operators may have reported NGL under Oil

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703661	Pennzoil Company	1984	1,013	0	0	0	0	0	0	0	0	0	0	0	0
4708703661	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703661	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703661	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703661	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703661	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703661	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703661	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703661	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703661	Original Loc	1st Salt Sand	Well Record	1700	Reasonable	132	Reasonable	1181	Ground Level
4708703661	Original Loc	2nd Salt Sand	Well Record	1850	Reasonable	30	Reasonable	1181	Ground Level
4708703661	Original Loc	3rd Salt Sand	Well Record	1900	Reasonable	126	Reasonable	1181	Ground Level
4708703661	Original Loc	Blue Monday	Well Record	2064	Reasonable	4	Reasonable	1181	Ground Level
4708703661	Original Loc	Greenbrier Group	Well Record	2086	Reasonable	104	Reasonable	1181	Ground Level
4708703661	Original Loc	Big Lime	Well Record	2086	Reasonable	104	Reasonable	1181	Ground Level
4708703661	Original Loc	Big Injun Price&e	Well Record	2190	Reasonable	34	Reasonable	1181	Ground Level

Wireline E-Log Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	L
4708703661	50	2269		G,D,C,*	Y	N	50	2263	440	2269									440	2269	Y	Y	N		

Comment: *logs: caliper, CCL, perforation

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703661gdc.tif
4708703661gpp.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:

- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron–SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:

- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL–casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL–Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708703661	9/24/2013	0
4708703661	10/7/2013	0

There is no Sample data for this well

36661

OG-10
Rev. 1-71

RECEIVED
MAR 01 1983
OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

Quadrangle Tariff 7.5'
Permit No. 087-3661-L1

Rotary X Oil X
Cable ____ Gas ____
Recycling ____ Comb. ____
Water Flood X Storage ____
Disposal ____ ____ (Kind)

Company Pennzoil Company
Address P. O. Box 1588, Parkersburg, WV
Farm W. M. Looney Acres 480
Location (waters) Trace Fork
Well No. 32 Elev. 1180.67
District Smithfield County Roane
The surface of tract is owned in fee by
Doyle Jones
Address Lefthand, WV 25251
Mineral rights are owned by: Keith Crihfield
Address P.O. Box 431, Spencer, WV
Drilling Commenced 9-14-82
Drilling Completed 9-19-82
Initial open flow WIW cu. ft. ____ bbls.
Final production ____ cu. ft. per day ____ bbls.
Well open ____ hrs. before test ____ RP.
Well treatment details:

26101 Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	443	443	175 sks
7			
5 1/2			
4 1/2	2267	2267	175 sks.
3			
2			
Liners Used			

Attach copy of cementing record.

Water Injection Well

Fractured: 11-4-82 w/250 gls. 15% HCL, 173 BGW, 1500# 20/40 sd

Perf: 2195-2207; 2215-2221-18H

Coal was encountered at ____ Feet ____ Inches
Fresh water ____ Feet ____ Salt Water ____ Feet ____
Producing Sand Big Injun Depth ____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sand & Shale			0	1700		
Salt Sand			1700	1832		
Silty Shale			1832	1850		
Salt Sand			1850	1880		
Silty Shale			1880	1900		
Salt Sand			1900	2026		
Little Lime			2026	2064		
Blue Monday			2064	[illegible]		
Pencil Cave			2068	2086		
Big Lime			2086	2190		
Big Injun			2190	2224		
Pocono Shale			2224	2270		
Total Depth				2270		
PBTD				2247		

ROANE 3661-L1

WR-38
Rev. 5/08

API # 47-8703661
Revised

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: Triad Hunter Operator Well No.: 32 W. M. Looney

LOCATION: Elevation: 1180' Quadrangle: Newton
District: Smithfield County: Roane
Latitude: 1440 Feet South of 38 Deg. 40 Min. 00 Sec.
Longitude: 6150 Feet West of 81 Deg. 12 Min. 30 Sec. GPS

Easting 0481633
Northing 4278089 Elev. 1181

Well Type: OIL X GAS ____

Company Triad Hunter
5669 WAllback Rd.
Wallback, WV. 25285

Coal Operator or Owner: N.O Coal

Agent Mike Horan

Coal Operator or Owner

Permit Issued Date 5/3/2013

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

Rick Duckworth and Robert Stewart being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well, say that said work was commenced on the 2 day of August, 2013, and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement	2225/	2125'	495' of 4½"	1772' of 4½"
Cement	1280'	1180'		443; of 8⅝"
Cement	545'	445'		
Cement	100'	0'		
Cel between all plugs.				

Description of monument: 7 " pipe Wita with API numb and that the work of plugging and filling said well was completed on the 7 day of October, 2013

And further deponents saith not. Rick Duckworth
Robert A. Stewart

Sworn and subscribe before me this 28 day of October, 2013

My commission expires: 10-7-23

Timothy E Keaton
Notary Public

OFFICIAL SEAL
Timothy Keaton
Notary Public
State of West Virginia
My Commission Expires
October 07, 2023
1106 Big Sandy Rd
Left Hand, WV 25251

Affidavit reviewed by the Office of Oil and Gas: ____ Title: 10/30/13

Did not witness all plugs

04/18/2014

"Pipeline"

Select County: (087) Roane

Enter Permit #: 3662

Get Data | Reset

Select datatypes: ☐ (Check All)

☑ Location ☑ Production ☑ Plugging
☑ Owner/Completion ☑ Stratigraphy ☑ Sample
☑ Pay/Show/Water ☑ Logs ☑ Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 3662

Report Time: Tuesday, May 19, 2020 5:56:51 PM

Location Information: View Ma

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703662	Roane	3662	Smithfield	Tariff	Otter	38.652148	-81.215019	481290.3	4278198.1

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703662	9/-/1982	Original Loc	Completed	D Jones/W M Looney	35					Pennzoil Company			
4708703662	7/25/2013	Plugging	Completed	Triad Hunter	35		W M Looney			Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_METHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	BH
4708703662	9/-/1982	-/-/-	1104	Ground Level	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2171		2171		0	0	0	0			0	0	0	0	
4708703662	7/25/2013	7/30/2013	1104	Ground Level																							

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703662	9/-/1982	Horizon	Injection	Vertical			2134	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703662	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703662	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703662	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703662	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703662	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703662	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703662	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703662	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703662	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703662	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703662	Pennzoil Company	1984	1,013	0	0	0	0	0	0	0	0	0	0	0	0
4708703662	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703662	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703662	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703662	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703662	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703662	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703662	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703662	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703662	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703662	Original Loc	1st Salt Sand	Well Record	1658	Reasonable	112	Reasonable	1104	Ground Level
4708703662	Original Loc	2nd Salt Sand	Well Record	1784	Reasonable	105	Reasonable	1104	Ground Level
4708703662	Original Loc	3rd Salt Sand	Well Record	1924	Reasonable	16	Reasonable	1104	Ground Level
4708703662	Original Loc	Little Lime	Well Record	1959	Reasonable	27	Reasonable	1104	Ground Level
4708703662	Original Loc	Blue Monday	Well Record	1986	Reasonable	8	Reasonable	1104	Ground Level
4708703662	Original Loc	Greenbrier Group	Well Record	2010	Reasonable	104	Reasonable	1104	Ground Level
4708703662	Original Loc	Big Lime	Well Record	2010	Reasonable	104	Reasonable	1104	Ground Level
4708703662	Original Loc	Big Injun (Price&eq)	Well Record	2114	Reasonable	32	Reasonable	1104	Ground Level

Wireline E-Log Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703662	7	2169		G D C	Y	N	7	2162	350	2169									350	2169	Y	Y	N						

Comment: *logs: caliper

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here
geologic log types:

3662

FILENAME
470870366 dc.tif

d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
e photoelectric adsorption (PE or Pe, etc.)
g gamma ray
i induction (includes dual induction, medium induction, deep induction, etc.)
l laterolog
m dipmeter
n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
o other[1]
s sonic or velocity
t temperature (includes borehole temperature, BHT, differential temperature, etc.)
z spontaneous potential or potential

mechanical log types:

b cement bond
c caliper
o other[1]
p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708703662	7/25/2013	0

There is no Sample data for this well

3662

W.M. Looney 35
8703662 P

OG-10
Rev. - 9-71

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

WELL RECORD

Rotary X Oil X
Cable ____ Gas ____
Recycling ____ Comb. ____
Water Flood X Storage ____
Disposal ____ ____ (Kind)

Quadrangle Tariff 7.5'
Permit No. 087-3662-L1

Company Pennzoil Company
Address P.O. Box 1588, Parkersburg, WV 26101
Farm W. M. Looney Acres 480
Location (waters) Trace Fork
Well No. 35 Elev. 1103.63
District Smithfield County Roane
The surface of tract is owned in fee by
~~Basie O. Jones~~ Triad
Address Lefthand, WV 25251
Mineral rights are owned by Keith Crihfield
Address P.O. Box 431, Spencer, WV
Drilling Commenced 9-9-82
Drilling Completed 9-14-82
Initial open flow WIW cu. ft. ____ bbls.
Final production ____ cu. ft. per day ____ bbls.
Well open ____ hrs. before test ____ RP.
Well treatment details:
Water Injection Well
Fractured: 11-17-82 w/250 gls. 15% HCL, 140 Bbls. 20% gel & 15000# 20/40 sd.
Perf: 2120-2134-15H

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond.			
13-10"			
9 5/8			
8 5/8	356	356	145 sks.
7			
5 1/2			
4 1/2	2178	2178	175 sks.
3			
2			
Liners Used			

Attach copy of cementing record.

Coal was encountered at ____ Feet ____ Inches
Fresh water ____ Feet ____ Salt Water ____ Feet ____
Producing Sand Big Injun Depth ____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand			0	36		
Silt & Sand			36	370		
Shale			370	450		
Sand			450	464		
Silt & Shale			464	534		
Silt & Sand			534	556		
Silt & Shale			556	622		
Sand & Shale			622	1658		
Salt Sand			1658	1770		
Silt & Shale			1770	1784		
Salt Sand			1784	1889		
Shale			1889	1924		
Salt Sand			1924	1940		
Silt & Sand			1940	1959		
Little Lime			1959	1986		
Blue Monday			1986	1994		
Pencil Cave			1994	2010		
Big Lime			2010	2114		
Big Injun			2114	2146		
Pocono Shale			2146	2171		
Total Depth				2171		

WR-38
Rev. 5/08

API # 47-0873662

87-03662

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

W.M. Looney

Farm name: Triad Hunter Operator Well No.: # 35

LOCATION: Elevation: 1103 Quadrangle: Newton
District: Smithfield County: Roane
Latitude: 1230' Feet South of 38 Deg. 40 Min. 00 Sec.
Longitude: 5310' Feet West of 81 Deg. 12 Min. 30 Sec.

Northing 4278198.13
Easting 481290.13

Well Type: OIL ____ GAS ____ Injection

Company Triad Hunter
5669 Wallback Rd.
Wallback WV. 25285

Coal Operator or Owner no coal

Coal Operator or Owner

Agent Tim Keaton
Permit Issued Date 3/29/2013

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

Joseph Duckworth and Cody Hammick being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 30 day of July, 2013 and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement	2165'	2065'		
Cement	1155'	1055'	1145' of 4½"	1130' of 4½
Cement	410'	455'		
Cement	100'	0'		356' of 8 5/8
Gell between all plugs.				

Description of monument: 7" pipe With API numbers and that the work of plugging and filling said well was completed on the 25 day of July, 2013

And further deponents saith not. [signature]
Cody Hammick

Sworn and subscribe before me this 26 day of September, 2013

My commission expires: April 12, 2021

Patricia Summers
Notary Public

Official Seal
Notary Public, State of West Virginia
Patricia L. Summers
679 Bear Fork Rd.
Omaha, WV 25285
My commission expires April 12, 2021

RECEIVED
Office of Oil & Gas
OCT 23 2013
WV Department of Environmental Protection

Affidavit reviewed by the Office of Oil and Gas: [signature] Title: Inspector

Did not witness all plugs

"Pipeline"

Select County: (087) Roane

Enter Permit #: 3663

Get Data | Reset

Select datatypes: (Check All)

- Location
- Production
- Plugging
- Owner/Completion
- Stratigraphy
- Sample
- Pay/Show/Water
- Logs
- Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline Plus" New

3663

WV Geological & Economic Survey:

Well: County = 087 Permit = 3663

Report Time: Wednesday, May 02, 2018 1:22:29 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703663	Roane	3663	Smithfield	Tariff	Otter	38.651392	-81.208688	481841	4278113

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703663	9/4/1982	Original Loc	Completed	Doyle Jones/P A Tallman	67				Anna Lee Collins	Pennzoil Company			
4708703663	6/9/2017	Plugging	Completed	Triad Hunter LLC	67		P A Tallman		T A L Collins	Triad Hunter LLC			
4708703663	-/-/-	Plugging	Permitted	Triad Hunter LLC	68		P A Tallman		T A L Collins	Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	G_BEF	G_AFT	O_BEF	O_AFT	NGL_B
4708703663	9/4/1982	8/30/1982	1172	Ground Level	Tariff(Tlmn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2230		2230	0	0	0	0	
4708703663	6/9/2017	5/22/2017	1193	Ground Level																
4708703663	-/-/-	-/-/-	1091	Ground Level																

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703663	9/4/1982	Horizon	Injection	Vertical			2205	Big Injun (Price&e	0	0			

Production Gas Information: (Volumes in Mcf)

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703663	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703663	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703663	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703663	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703663	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703663	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703663	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703663	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703663	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703663	Pennzoil Company	1984	1,030	0	0	0	0	0	0	0	0	0	0	0	0
4708703663	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703663	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703663	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703663	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703663	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703663	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703663	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703663	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703663	Original Loc	2nd Salt Sand	Well Record	1846	Reasonable	115	Reasonable	1172	Ground Level
4708703663	Original Loc	Little Lime	Well Record	2019	Reasonable	29	Reasonable	1172	Ground Level
4708703663	Original Loc	Blue Monday	Well Record	2048	Reasonable	4	Reasonable	1172	Ground Level
4708703663	Original Loc	Greenbrier Group	Well Record	2071	Reasonable	103	Reasonable	1172	Ground Level
4708703663	Original Loc	Big Lime	Well Record	2071	Reasonable	41	Reasonable	1172	Ground Level
4708703663	Original Loc	Loyalhanna	Well Record	2112	Reasonable	62	Reasonable	1172	Ground Level
4708703663	Original Loc	Big Injun (Price&eq)	Well Record	2174	Reasonable	31	Reasonable	1172	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	L
4708703663	350	2229		G N D C *	Y	N	350	2220	350	2229	350	2229							350	2229	Y	Y	N		

Comment: *logs: caliper, bit size

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703663gdco.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:

- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:

- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708703663	6/9/2017	0

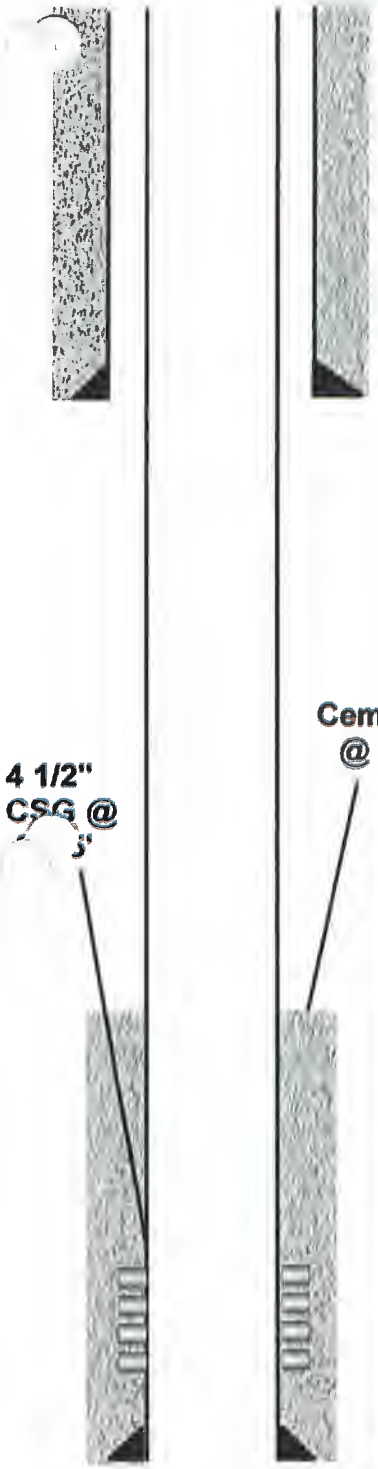
There is no Sample data for this well

☐ Proposed

☒ As is

P.A.TALLMAN # 67- 47-087- 3663 - LI
SMITHFIELD DIST., ROANE CO., W.V.
FIELD : TARIFF.

	Size	Wt.	Grde	Thrd	Depth	Sks/Cmt
CONDUCTOR						
SURFACE	8 5/8"	20 #	H-40	8 RD	401'	200 sks
INTERMEDIATE						
INTERMEDIATE						
PRODUCTION	4 1/2"	9.5 #	K-55	8 RD	2245'	125 sks
TUBING						



Perforation Information
BIG INJUN : 2185' - 2205' w / 21 Holes

Casing and Tubing Information
8 5/8" CSG set @ 401' cemented to surface w/ 200 sks Class A cement
having 3% C.C and 1/4 # flocele/sack.
4 1/2" CSG cemented @ 2245' with 125 sks of 50/50 pozmix w / 2% C.C
and 1/8 # flocele/sack.
Cement Top @ 1537'.

Date	Work-Over Information
	Water Injection well
9/1/82	Ran 9 jts 8 5/8", 20 #, H-40, 8 RD thd CSG w/ S.T.& C. set @ 401' &
	cemented w/ 200 sks Class 'A' cement having 3% C.C and 1/4 # flocele/sk.
9/5/82	Ran 70 jts 4 1/2", 9.5 #, K-55, 8 RD thd CSG w/ S.T.& C. set @ 2245' and
	cemented w/ 500 gals mud flush & w/ 125 sks of 50/50 poz w / 2% Calcium
	Chloride and 1/8 # flocele/sack.
11/17/82	Dowell performed frac w/ 250 gals 15% HCl acid, 145 Bbls 20 # GW and
	1500 lbs of 20/40 sand. B.D.P was 1050 psig, A.T.P was 850 psig, A.T.R
	was 13 B.P.M, I.S.I.P was 950 psig .
5/13/86	Ran 78 jts 2 3/8", 4.6 #, K-55, 10 RD TBG along with packer @ 2176'.
5/15/86	Pumping k-trol, displaced 250 gals xylene, 250 gals 15% HCl. Started
	polymer treatement.
5/16/86	Injected 1390 gals K-trol IVC. Displaced polymer w/ 1.5 BW @ 12 BPD

WELL T.D. 2255'

PREPARED BY:Babaji Chitturi

DATE: 08/06/2002

P.A.TALLMAN # 67- 47-087- 3663 - LI
SMITHFIELD DIST., ROANE CO., W.V.
FIELD : TARIFF.

Date	Work-Over Information
5/24/86	P.O.H with 2-3/8" TBG and HOWCO Packer. Ran back in hole w/ TBG and stinger.
7/30/88	P.O.H w/ 2 3/8" TBG and seal assembly.

PREPARED BY:Babaji Chitturi

DATE: 08/06/2002

3663

OG-10
Rev. - 9-71

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

RECEIVED
MAR 01 1983
OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

Rotary X Oil X
Cable ___ Gas ___
Recycling ___ Comb. ___
Water Flood X Storage ___
Disposal ___ ___ (Kind)

Quadrangle Tariff 7.5'
Permit No. 087-3663-L1

Company Pennzoil Company
Address P. O. Box 1588, Parkersburg, WV
Farm P. A. Tallman Acres 2350
Location (waters) Trace Fork
Well No. 67 Elev. 1171.53
District Smithfield County Roane
The surface of tract is owned in fee by
Doyle Jones
Address Lefthand, WV 25251
Mineral rights are owned by Anna Lee Collins
Address 1009 Main St., Pt. Pleasant, WV
Drilling Commenced 8-30-82
Drilling Completed 9-4-82
Initial open flow WIW cu. ft. ___ bbls.
Final production ___ cu. ft. per day ___ bbls.
Well open ___ hrs. before test ___ RP.
Well treatment details:
Water Injection Well
Fractured: 11-17-82 w/250 gls. 15% HCL, 145 Bbls. 20# gel 500# 20/40 sd
Perf: 2185-2205-21N

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	401	401	200 sks
7			
5 1/2			
4 1/2	2245	2245	125 sks.
3			
2			
Liners Used			

Attach copy of cementing record.

Coal was encountered at ___ Feet ___ Inches
Fresh water ___ Feet ___ Salt Water ___ Feet ___
Producing Sand Big Injun Depth ___

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Silt & Sand			0	70		
Sand			70	400		
Silt & Shale			400	416		
Sand & Shale			416	1846		
Salt Sand			1846	1961		
Silt & Shale			1961	1988		
Sand			1988	2000		
Silt & Sand			2000	2019		
Little Lime			2019	2048		
Blue Monday			2048	2052		
Pencil Cave			2052	2071		
Big Lime			2071	2112		
Loyalhanna			2112	2174		
Big Injun			2174	2185		
Injun			2185	2205		
Pocono Shale			2205	2230		
Total Depth				2230		

ROANE 3663-L1

WR-38
Rev. 5/08

API # 47-87-3663-P

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

RECEIVED
Office of Oil and Gas
SEP 22 2017
WV Department of
Environmental Protection

Farm name: Tallman, P.A. Operator Well No.: 67

LOCATION: Elevation: 1171.5' GL Quadrangle: Tariff
District: Smithfield County: Roane
Latitude: 38.651009 Feet South of 38 Deg. 39 Min. 03.6324 Sec.
Longitude: 81.211461 Feet West of 81 Deg. 12 Min. 40.1261 Sec.

Well Type: OIL _____ GAS water inj.

Company Triad Hunter, LLC
125 Putnam Street
Marietta, OH 45750

Coal Operator or Owner na

Coal Operator or Owner na

Agent Kim Arnold
Permit Issued Date 05/07/2015

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

Rick Duckworth and Robert Stewart being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 22nd day of May, 2017, and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
cement	2230'	2030'	1180' of 4 1/2 inch	1065'
cement	1230'	1130'		
cement	451"	351'		
cement	150'	0		

Description of monument: 5" pipe with API on attached plate and that the work of plugging and filling said well was completed on the 9th day of June 2017.

And further deponents saith not.

Rick Duckworth
Robert A. Stewart

Sworn and subscribe before me this 18 day of June 2017

My commission expires: April 13, 2024

Notary Public

OFFICIAL SEAL
Dawn R. Dobbins
Notary Public
State of West Virginia
My Commission Expire
April 13, 2024
PO Box 265
Gassaway, WV 26624

Affidavit reviewed by the Office of Oil and Gas: Title: 9-22-17
OOG Inspector.

"Pipeline"

Select County: (087) Roane

Enter Permit #: 3664

Get Data | Reset

Select datatypes: (Check All)

- Location
- Production
- Plugging
- Owner/Completion
- Stratigraphy
- Sample
- Pay/Show/Water
- Logs
- Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

3664

WV Geological & Economic Survey:

Well: County = 087 Permit = 3664

Report Time: Wednesday, May 02, 2018 2:24:31 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703664	Roane	3664	Smithfield	Tariff	Otter	38.653189	-81.208714	481839.2	4278312.4

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703664	9/8/1982	Original Loc	Completed	Doyle Jones/P A Tallman	68				Anna Lee Collins	Pennzoil Company			
4708703664	5/16/2017	Plugging	Completed	P.A. Tallman	68		P A Tallman		T A L Collins	Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	G_BEF	G_AFT	O_BEF	O_AFT	NGL_I
4708703664	9/8/1982	9/4/1982	1055	Ground Level	Tariff(Tlmn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2142		2142	0	0	0	0	
4708703664	5/16/2017	5/2/2017	1091	Ground Level																

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703664	9/8/1982	Horizon	Injection	Vertical			2086	Big Injun Price&e	0	0			

Production Gas Information: (Volumes in Mcf)

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703664	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703664	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703664	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703664	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703664	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703664	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703664	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703664	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703664	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703664	Pennzoil Company	1984	1,030	0	0	0	0	0	0	0	0	0	0	0	0
4708703664	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703664	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703664	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703664	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703664	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703664	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703664	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703664	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703664	Original Loc	1st Salt Sand	Well Record	1576	Reasonable	138	Reasonable	1055	Ground Level
4708703664	Original Loc	Little Lime	Well Record	1878	Reasonable	51	Reasonable	1055	Ground Level
4708703664	Original Loc	Blue Monday	Well Record	1929	Reasonable	6	Reasonable	1055	Ground Level
4708703664	Original Loc	Big Lime	Well Record	1952	Reasonable	110	Reasonable	1055	Ground Level
4708703664	Original Loc	Greenbrier Group	Well Record	1952	Reasonable	110	Reasonable	1055	Ground Level
4708703664	Original Loc	Big Injun Price&e	Well Record	2062	Reasonable	16	Reasonable	1055	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	L
4708703664	3	2141		G D C *	Y	N	3	2134	310	2141									310	2141	Y	Y	N		

Comment: *logs: caliper, ccl, perforation

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703664gde.tif
4708703664gpo.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708703664	5/16/2017	0

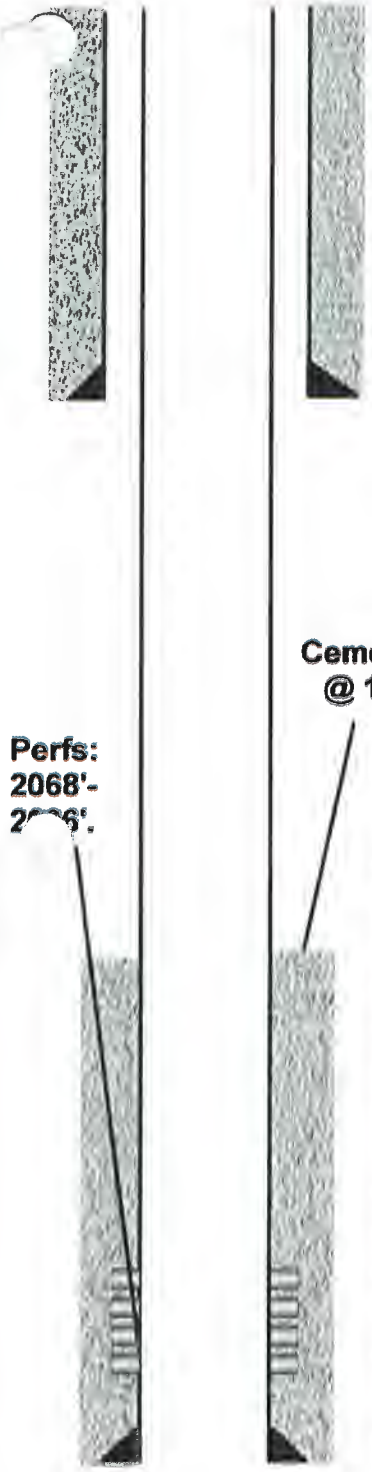
There is no Sample data for this well

☐ Proposed

☒ As is

P.A.TALLMAN # 68- 47-087- 3664 - LI
SMITHFIELD DIST., ROANE CO., W.V.
FIELD : TARIFF.

	Size	Wt.	Grde	Thrd	Depth	Sks/Cmt
CONDUCTOR						
SURFACE	8 5/8"	20 #	H-40	8 RD	302'	125 sks
INTERMEDIATE						
INTERMEDIATE						
PRODUCTION	4 1/2"	9.5 #	K-55	8 RD	2141'	175 sks
TUBING						



Perforation Information
BIG INJUN : 2068' - 2086' w / 19 Holes

Casing and Tubing Information
8 5/8" CSG set @ 302' cemented to surface w/ 125 sks Class A cement
having 3% C.C and 1/4 # flocele/sack.
4 1/2" CSG cemented @ 2141' with 175 sks of 50/50 pozmix w / 2% C.C
and 1/8 # flocele/sack.
Cement Top @ 1150'.

Date	Work-Over Information
	Water Injection well
9/6/82	Ran 7 jts 8 5/8", 20 #, H-40, 8 RD thd CSG w/ S.T.& C. set @ 302' &
	cemented w/ 125 sks Class 'A' cement having 3% C.C and 1/4 # flocele/sk.
9/9/82	Ran 66 jts 4 1/2", 9.5 #, K-55, 8 RD thd CSG w/ S.T.& C. set @ 2141' and
	cemented w/ 500 gals mud flush & w/ 175 sks of 50/50 poz w / 2% Calcium
	Chloride and 1/8 # flocele/sack.
11/17/82	Dowell performed frac w/ 250 gals 15% HCl acid, 145 Bbls 20 # GW and
	1500 lbs of 20/40 sand. B.D.P was 1450 psig, A.T.P was 1050 psig, A.T.R
	was 13 B.P.M, I.S.I.P was 950 psig .

WELL T.D. 2148'

PREPARED BY:Babaji Chitturi

DATE: 08/06/2002

3L664

OG-10
Rev. - 9-71

RECEIVED
MAR 01 1983
OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

Rotary X Oil X
Cable ____ Gas ____
Recycling ____ Comb. ____
Water Flood X Storage ____
Disposal ____ (Kind)

Quadrangle Tariff 7.5'
Permit No. 087-3664-L1

Company Pennzoil Company
Address P. O. Box 1588, Parkersburg, WV 26101
Farm P. A. Tallman Acres 2350
Location (waters) Trace Fork
Well No. 68 Elev. 1054.95
District Smithfield County Roane
The surface of tract is owned in fee by
Doyle D. Jones
Address Lefthand, WV 25251
Mineral rights are owned by Anna Lee Collins
Address 1009 Main St., Pt. Pleasant, WV
Drilling Commenced 9-4-82
Drilling Completed 9-8-82
Initial open flow WIW cu. ft. ____ bbls.
Final production ____ cu. ft. per day ____ bbls.
Well open ____ hrs. before test ____ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	302	302	125 sks.
7			
5 1/2			
4 1/2	2141	2141	175 sks.
3			
2			
Liners Used			

Attach copy of cementing record.

Well treatment details:
Water Injection Well

Fractured: 11-17-82 w/250 gls. 15% HCL, 145 Bbls. 20# gel, 1500# 20/40 sd.

Perf: 2068-2086-19H

Coal was encountered at ____ Feet ____ Inches
Fresh water ____ Feet ____ Salt Water ____ Feet ____
Producing Sand Big Injun Depth ____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Silt & Shale			0	12		
Silt & Sand			12	122		
Sand			122	168		
Silt & Sand			168	251		
Sand			251	266		
Silt & Shale			266	302		
Silt & Shale			302	316		
Shale & Sand			316	1576		
Salt Sand			1576	1714		
Silt & Shale			1714	1742		
Sand			1742	1770		
Silt & Sand			1770	1784		
Sand			1784	1838		
Silt & Shale			1838	1850		
Silt & Sand			1850	1867		
Sand			1867	1878		
Little Lime			1878	1929		
Blue Monday			1929	1935		
Pencil Cave			1935	1952		
Big Lime			1952	2062		
Big Injun			2062	2078		
Pocono Shale			2078	2142		
Total Depth				2142		

ROANE 3664-L1

WR-38
Rev. 5/08

API # 47-87-3664-P

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: Tallman, P.A. Operator Well No.: 68

LOCATION: Elevation: 1055 GL Quadrangle: Tariff
District: Smithfield County: Roane
Latitude: 38.651392 Feet South of 38 Deg. 39 Min. 05.0112 Sec.
Longitude: 81.208688 Feet West of 81 Deg. 12 Min. 31.2766 Sec.

Well Type: OIL _____ GAS water inj.

Company Triad Hunter, LLC
125 Putnam Street
Marietta, OH 45750

Coal Operator or Owner na

Coal Operator or Owner na

Agent Kim Arnold
Permit Issued Date 05/07/2015

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

Rick Duckworth and Robert Stewart being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 2nd day of May, 2017, and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
cement	2140'	1940'	520' of 4 1/2 inch	1621'
cement	1105'	1005'		
cement	550'	450'		
cement	350'	250'		
cement	150'	0		

Description of monument: 5" pipe with API on attached plate and that the work of plugging and filling said well was completed on the 16th day of May, 2017.

And further deponents saith not. Rick Duckworth
Robert A. Stewart

Sworn and subscribe before me this 18 day of June, 2017

My commission expires: April 13, 2024

Notary Public

OFFICIAL SEAL
Dawn R. Dobbins
Notary Public
State of West Virginia
My Commission Expires
April 13, 2024
PO Box 265
Gassaway, WV 26624

Affidavit reviewed by the Office of Oil and Gas: _____ Title: OOG Inspector
9-22-17

10/27/2017

WVGES GEOLOGY UNDERLIES IT ALL
"Pipeline"

Select County: (087) Roane
Enter Permit #: 3674
Get Data | Reset

Select datatypes: (Check All)
- Location
- Owner/Completion
- Pay/Show/Water
- Production
- Stratigraphy
- Logs
- Plugging
- Sample
- Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 3674

Report Time: Tuesday, May 19, 2020 6:18:41 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703674	Roane	3674	Smithfield	Tariff	Other	38.650378	-81.214567	481329.2	4278001.7

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703674	9/-/1982	Original Loc	Completed	D Jones/W M Looney	33					Pennzoil Company			
4708703674	9/16/2013	Plugging	Completed	Triad Hunter	33		W M Looney			Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	F_AFT	TI_AFT	BH
4708703674	9/-/1982	-/-/-	1081	Ground Level	Tariff(Tlmn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2164		2164		0	0	0	0			0	0	0	0	
4708703674	9/16/2013	9/7/2013	1081	Ground Level																							

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703674	9/-/1982	Horizon	Injection	Vertical			2124	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703674	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703674	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703674	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703674	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703674	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703674	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703674	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703674	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703674	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703674	Pennzoil Company	1984	1,013	0	0	0	0	0	0	0	0	0	0	0	0
4708703674	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703674	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703674	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703674	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703674	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703674	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703674	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703674	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703674	Original Loc	3rd Salt Sand	Well Record	1754	Reasonable	180	Reasonable	1081	Ground Level
4708703674	Original Loc	Little Lime	Well Record	1934	Reasonable	34	Reasonable	1081	Ground Level
4708703674	Original Loc	Blue Monday	Well Record	1972	Reasonable	18	Reasonable	1081	Ground Level
4708703674	Original Loc	Big Lime	Well Record	1990	Reasonable	104	Reasonable	1081	Ground Level
4708703674	Original Loc	Greenbrier Group	Well Record	1990	Reasonable	104	Reasonable	1081	Ground Level
4708703674	Original Loc	Big Injun (Price&eq)	Well Record	2094	Reasonable	34	Reasonable	1081	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703674	8	2163		G,D,C	Y	N	8	2156	335	2163									335	2163	Y	Y	N						

Comment: *logs: caliper

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703674gdc.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)

3674

l laterolog
m dipmeter
n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
o other[1]
s sonic or velocity
t temperature (includes borehole temperature, BHT, differential temperature, etc.)
z spontaneous potential or potential

mechanical log types:

b cement bond
c caliper
o other[1]
p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708703674	9/16/2013	0

There is no Sample data for this well

3674

W. M. Looney 33 3674
8703674P

CC-10
Rev. - 9-71

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

WELL RECORD

Rotary X Oil X
Cable ___ Gas ___
Recycling ___ Comb. ___
Water Flood X Storage ___
Disposal ___ ___ (Kind

Quadrangle Tariff 7.5'
Permit No. 087-3674-L1

Company Pennzoil Company
Address P.O.Box 1588, Parkersburg, WV 26101
Farm W. M. Looney Acres 480
Location (waters) Trace Fork
Well No. 33 Elev. 1081.05'
District Smithfield County Roane
The surface of tract is owned in fee by
~~Doris Jenne~~ Trad
Address Left Hand, WV 25251
Mineral rights are owned by Keith Crihfield
Address P.O.Box 431, Spencer, WV
Drilling Commenced 9-19-82
Drilling Completed 9-23-82
Initial open flow WTW cu. ft. ___ bbls.
Final production ___ cu. ft. per day ___ bbls.
Well open ___ hrs. before test ___ RP.
Well treatment details:

Water Injection Well

Fractured: 11-11-82 w/250 gls. 15% HCL, 145 BGW, 1500# 20/40 sd

Perf: 2000-06-6H; 2112-24/12H

Casing and Tubing	Used in Drilling	Left in Well	Cement fill u Cu. ft. (Sks.)
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	335	335	130 sks.
7			
5 1/2			
4 1/2	2176	2176	175 sks.
3			
2			
Liners Used			

Attach copy of cementing record.

Coal was encountered at ___ Feet ___ Inches
Fresh water ___ Feet ___ Salt Water ___ Feet ___
Producing Sand Big Injun Depth ___

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Silt & Sand			0	324		
Silt & Shale			324	406		
Silt, Sand, Shale			406	1604		
Salt Sand			1604	1736		
Silt & Sand			1736	1754		
Salt Sand			1754	1934		
Little Lime			1934	1968		
Blue Monday			1968	1972		
Pencil Cave			1972	1990		
Big Lime			1990	2094		
Big Injun			2094	2128		
Pocono Shale			2128	2164		
Total Depth				2164		

3674

WR-38
DATE:

API # 47-8703674

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

W. M. Looney #33

Farm name: Triad Hunter Operator Well No.: 33

LOCATION: Elevation: 1081' Quadrangle: Newton
District: Smithfield County: Roane
Latitude: _____ Feet South of ____ Deg. ____ Min. ____ Sec.
Longitude: _____ Feet West of ____ Deg. ____ Min. ____ Sec.

Well Type: OIL ____ GAS ____ Luquid Injection

Company: Triad Hunter
5669 Wallback Rd.
Wallback, WV. 25285

Coal Operator or Owner: NO Coal

Coal Operator or Owner: _____

Agent: Mike Horan

Permit Issued Date: 5/01/2013

AFFIDAVIT UTM GPS Northing 4278001.65
Easting 481329.17

STATE OF WEST VIRGINIA,
County of Roane ss:

Joseph Duckworth and Cody Hammack being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well, and Ed Gainer Oil andGas Inspector representing the Director, say that said work was commenced on the 7 day of Sept. 2013 and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement	1950'	1850'	1307 of 4½"	869'
Cement	1357'	1257'		
Cement	1081'	981'		
Cement	385'	0'		
Cell between all plugs.				

Description of monument: 7" pipe with API numbers. and that the work of plugging and filling said well was completed on the 16 day of Sept. 2013

And furthur deponents saith not. Joseph Duckworth
Cody Hammack

Sworn and subscribe before me this 23 day of September, 2013
My commission expires: April 12, 2021
Patricia L. Summers
Notary Public

Inspector
Did not witness all plugs

Official Seal
Notary Public, State of West Virginia
Patricia L. Summers
675 Bear Run Rd.
Orma, WV 25285
My commission expires April 12, 2021

"Pipeline"

Select County: (087) Roane

Enter Permit #: 3675

Get Data | Reset

Select datatypes: (Check All)

- Location
- Owner/Completion
- Pay/Show/Water
- Production
- Stratigraphy
- Logs
- Plugging
- Sample
- Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 87 Permit = 3675

Report Time: Tuesday, May 19, 2020 6:22:12 PM

Location Information: View Ma

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703675	Roane	3675	Smithfield	Tariff	Otter	38.651967	-81.2152	481274.5	4278178.1

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703675	9/-/1982	Original Loc	Completed	D Jones/W M Looney	34					Pennzoil Company			
4708703675	6/1/1993	Worked Over	Completed	Doyle Jones		34			Keith Crihfield	Pennzoil Products Company			
4708703675	10/14/2013	Plugging	Completed	Triad Hunter	34		W M Looney			Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_A
4708703675	9/-/1982	-/-/-	950	Ground Level	Tariff(Tlmn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2048		2048		0	0	0	0			0	0	0	
4708703675	6/1/1993	5/27/1993	950	Ground Level	Tariff(Tlmn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Cable Tool	Acid+Frac	2048		0		0	0	0	0			0	0	0	
4708703675	10/14/2013	-/-/-	1114	Ground Level																						

Comment: 10/14/2013 Revised affidavit submitted

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703675	9/-/1982	Horizon	Injection	Vertical			1982	Big Injun (Price&eq)	0	0			
4708703675	6/1/1993	Horizon	Injection	Vertical	1974	Big Injun (Price&eq)	1982	Big Injun (Price&eq)	0	0			
4708703675	6/1/1993	Horizon	Injection	Vertical	1989	Big Injun (Price&eq)	1999	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703675	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703675	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703675	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703675	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703675	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703675	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703675	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703675	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703675	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703675	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703675	Pennzoil Company	1984	1,013	0	0	0	0	0	0	0	0	0	0	0	0
4708703675	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703675	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703675	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703675	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703675	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703675	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703675	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703675	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703675	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703675	Original Loc	3rd Salt Sand	Well Record	1702	Reasonable	108	Reasonable	950	Ground Level
4708703675	Original Loc	Little Lime	Well Record	1810	Reasonable	32	Reasonable	950	Ground Level
4708703675	Original Loc	Blue Monday	Well Record	1848	Reasonable	18	Reasonable	950	Ground Level
4708703675	Original Loc	Big Lime	Well Record	1866	Reasonable	104	Reasonable	950	Ground Level
4708703675	Original Loc	Greenbrier Group	Well Record	1866	Reasonable	104	Reasonable	950	Ground Level
4708703675	Original Loc	Big Injun (Price&eq)	Well Record	1970	Reasonable	34	Reasonable	950	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703675	10	2047		G D C	Y	N	10	2040	250	2047									250	2047	Y	Y	N						

Comment: *logs: caliper

3675

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703675gdc.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708703675	10/4/2011	0
4708703675	10/14/2013	0

There is no Sample data for this well

3675

W.M. Looney 34 3675
Q703675P

OG-10
Rev. - 9-71

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

Rotary X Oil X
Cable ___ Gas ___
Recycling ___ Comb. ___
Water Flood X Storage ___
Disposal ___ (Kind)

Quadrangle Tariff 7.5'
Permit No. 087-3675-Li

Company Pennzoil Company
Address P.O.Box 1588, Parkersburg, WV 26101
Farm W. M. Looney Acres 480
Location (waters) Trace Fork
Well No. 34 Elev. 950.22'
District Smithfield County Roane
The surface of tract is owned in fee by
~~Boyle Jones~~ Triad
Address Left Hand, WV 25251
Mineral rights are owned by Keith Crihfield
Address P.O.Box 431, Spencer, WV
Drilling Commenced 9-23-82
Drilling Completed 9-27-82
Initial open flow WIW cu. ft. ___ bbls.
Final production ___ cu. ft. per day ___ bbls.
Well open ___ hrs. before test ___ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	250	250	95 sks.
7			
5 1/2			
4 1/2	2038	2038	175 sks.
3			
2			
Liners Used			

Attach copy of cementing record.

Well treatment details:
Water Injection Well
Fractured: 11-11-82 w/250 gls. 15% HCL, 145 BGW, 1500# 20/40
Perf: 1989-99-10H; 1974-82/8H

Coal was encountered at ___ Feet ___ Inches
Fresh water ___ Feet ___ Salt Water ___ Feet ___
Producing Sand Big Injun Depth ___

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Silt, Sand, Shale			0	1500		
Salt Sand			1500	1570		
Silt & Sand			1570	1578		
Salt Sand			1578	1628		
Silt & Sand			1628	1702		
Salt Sand			1702	1810		
Little Lime			1810	1842		
Blue Monday			1842	1848		
Pencil Cave			1848	1866		
~~Big Lime~~			1866	1970		
~~Big Injun~~			1970	2004		
Pocono Shale			2004	2048		
Total Depth				2048		

3675

WR-35
Rev. 8/00

API # 47-8703675

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: W. M. Looney Operator Well No.: 34

LOCATION: Elevation: 1114' Quadrangle: Newton
District: Smithfield County: Doane
Latitude: _____ Feet South of ____ Deg. ____ Min. ____ Sec.
Longitude: _____ Feet West of ____ Deg. ____ Min. ____ Sec.

Easting 481274
Northing 4278178

Well Type: Oil X Gas ____

Company: Triad Hunter
5669 WAllback Rd.
Wallback, WV. 25285

Coal Operator or Owner: NO COAL

Coal Operator or Owner: _____

Agent: Mike Horan
Permit Issued Date: 06/21/2011

RECEIVED
Office of Oil & Gas
MAR 17 2014
WV Department of Environmental Protection

VOID

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Doane ss:

Rick Duckworth and Robert Stewart being duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above named well which commenced on the 3 day of October, 20 11 and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement	2050'	1950'		2080' of 4 1/2" CTS
Cement	1114'	1014'		478' of 8 5/8" csg
Cement	100'	0'		

Description of monument: 8"pipe with API numbers and that the work of plugging and filling said well was completed on the 4 day of October, 20 11

And further deponents saith not. Rick Duckworth
Robert Stewart

Sworn and subscribed before me this 16 day of January, 20 14

My commission expires: 10-7-2022

Timothy E Keaton
Notary Public

OFFICIAL SEAL
Timothy Keaton
Notary Public
State of West Virginia
My Commission Expires
October 07, 2023
1106 Big Sandy Rd
Left Hand, WV 25251

Affidavit reviewed by the Office of Oil and Gas: _____ Title: Inspector

Did Not witness all plugs

"Pipeline"

Select County: (087) Roane

Enter Permit #: 3766

Get Data | Reset

Select datatypes: (Check All)

- Location
- Owner/Completion
- Pay/Show/Water
- Production
- Stratigraphy
- Logs
- Plugging
- Sample
- Btm Hole Loc

Table Definitions
County Code Translations
Permit-Numbering Scheme
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 3766

Report Time: Tuesday, May 19, 2020 6:30:28 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703766	Roane	3766	Smithfield	Tariff	Otter	38.653272	-81.206639	482019.8	4278321.2

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703766	7/27/1983	Original Loc	Completed	Doyle D Jones	69					Pennzoil Company			
4708703766	7/13/2015	Plugging	Completed	Triad Hunter LLC	69		P A Tallman		T A L Collins	Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	BH
4708703766	7/27/1983	-/-/-	932	Ground Level	Tariff(Tlmn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2044		2044		0	0	0	0			0	0	0	0	
4708703766	7/13/2015	7/10/2015	1027	Ground Level																							

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703766	7/27/1983	Horizon	Injection	Vertical	1954		1968	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703766	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703766	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703766	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703766	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703766	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703766	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703766	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703766	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703766	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703766	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703766	Pennzoil Company	1984	1,030	0	0	0	0	0	0	0	0	0	0	0	0
4708703766	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703766	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703766	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703766	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703766	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703766	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703766	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703766	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703766	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703766	Original Loc	3rd Salt Sand	Well Record	1644	Reasonable	89	Reasonable	932	Ground Level
4708703766	Original Loc	Little Lime	Well Record	1753	Reasonable	70	Reasonable	932	Ground Level
4708703766	Original Loc	Pencil Cave	Well Record	1823	Reasonable	15	Reasonable	932	Ground Level
4708703766	Original Loc	Big Lime	Well Record	1838	Reasonable	108	Reasonable	932	Ground Level
4708703766	Original Loc	Greenbrier Group	Well Record	1838	Reasonable	108	Reasonable	932	Ground Level
4708703766	Original Loc	Big Injun (Price&eq)	Well Record	1946	Reasonable	26	Reasonable	932	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703766	4	2042		G,D,C	Y	N	4	2036	204	2042									204	2042	Y	Y	N						

Comment: *logs: caliper

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703766gdc.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:

d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
e photoelectric adsorption (PE or Pe, etc.)

3766

g gamma ray
i induction (includes dual induction, medium induction, deep induction, etc.)
l laterolog
m dipmeter
n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
o other[1]
s sonic or velocity
t temperature (includes borehole temperature, BHT, differential temperature, etc.)
z spontaneous potential or potential

mechanical log types:

b cement bond
c caliper
o other[1]
p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708703766	7/13/2015	0

There is no Sample data for this well

3766

8703766P

RECEIVED
Office of Oil and Gas
MAR 16 2015
WV Department of
Environmental Protection

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

WELL RECORD

Quadrangle Tariff 7.5'

Permit No. 47-087-3766

Rotary X Oil ___
Cable ___ Gas ___
Recycling ___ Comb
Water Flood X Storag
Disposal ___

Company Pennzoil Company
Address P.O. Box 1588, Parkersburg, WV 26101
Farm P. A. Tallman Acres 2350
Location (waters) Sycamore Fork
Well No. 69 Elev. 931.71'
District Smithfield County Roane
The surface of tract is owned in fee by
Doyle O. Jones
Address Left Hand, WV 25251
Mineral rights are owned by Anna Lee Collins
Address 1009 Main St., Point Pleasants, WV
Drilling Commenced 7-23-83
Drilling Completed 7-27-83
Initial open flow WTK cu. ft. ___ bbls.
Final production ___ cu. ft. per day ___ bbls.
Well open ___ hrs. before test ___ RP

Casing and Tubing	Used in Drilling	Left in Well	Cement fi Cu. ft. (S
Size			
20-16			
Cond.			
13-10"			
9 5/8			
8 5/8			
7	210-	210	100 sks
5 1/2			
4 1/2	2034	2034	75 sks
3			
2			
Liners Used			

Attach copy of cementing record.

Well treatment details:

Fractured: 10/5/83 w/250 gals. 15% HCL, 160 BBW, 1500# 20/40 sd

Perf: 1954-1968/19[illegible]

Coal was encountered at NR Feet ___ Inches ___
Fresh water NR Feet ___ Salt Water NR Feet ___
Producing Sand ___ Depth ___

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sand			0	208		
Shale			208	580		
Sand, Shale			580	1644		
Salt Sand			1644	1733		
Shale			1733	1753		
Little Lime			1753	1823		
Pencil Cave			1823	1838		
Big Lime			1838	1946		
Big Injun			1946	1972		
Shale			1972	2044		
Total Depth				2044		

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Rev. 5/08

API # 47-8703766

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: TALLMAN, P.A. Operator Well No.: P.A. TALLMAN 69

LOCATION: Elevation: 932 Quadrangle: TARIFF

District: SMITHFIELD County: ROANE

Latitude: _____ Feet South of _____ Deg. _____ Min. _____ Sec.

Longitude: _____ Feet West of _____ Deg. _____ Min. _____ Sec.

Well Type: OIL _____ GAS _____

Company TRIAD HUNTER, LLC
125 PUTNAM STREET
MARIETTA, OHIO

Coal Operator or Owner

Agent KIM ARNOLD

Coal Operator or Owner

Permit Issued Date 04/30/2015

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of ROANE ss:

TERRY REXROAD and DARRELL SHAMBLIN being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 10 day of JULY, 2015, and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
CEMENT	2030	1809		210' OF 7"
6% GEL	1809	1066	1066' OF 4 1/2	968' OF 4 1/2
CEMENT	1066	840		
6% GEL	840	225		
CEMENT	225	SURFACE		
6% GEL				
CEMENT				

Description of monument: 7" CASING WITH DATE AND API # WELDED ON and that the work of plugging and filling said well was completed on the 13 day of JULY, 2015.

And further deponents saith not.

Sworn and subscribe before me this 3 day of August 2015

My commission expires: 10-25-2023

Brian Marks
Notary Public

OFFICIAL SEAL
Notary Public, State Of West Virginia
BRIAN MARKS
348 Big Creek
Walton, WV. 25286
My Commission Expires October 25, 2023

Affidavit reviewed by the Office of Oil and Gas: _____ Title: OOG Inspector

10-17-17

"Pipeline"

Select County: (087) Roane
Enter Permit #: 3767
Get Data | Reset

Select datatypes: (Check All)
Location | Production | Plugging
Owner/Completion | Stratigraphy | Sample
Pay/Show/Water | Logs | Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 3767

Report Time: Tuesday, May 19, 2020 6:37:45 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703767	Roane	3767	Smithfield	Tariff	Otter	38.654577	-81.210576	481677.5	4278466.8

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703767	6/15/1983	Original Loc	Completed	John Shamblin	36					Pennzoil Company			
4708703767	9/19/2013	Plugging	Completed	Triad Hunter	36		W M Loones			Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	FOR	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	BI
4708703767	6/15/1983	-/-/-	1127	Ground Level	Tariff(Tlmn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2184		2184		0	0	0	0			0	0	0	0	
4708703767	9/19/2013	9/13/2013	1127	Ground Level																							

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703767	6/15/1983	Horizon	Injection	Vertical	2138		2172	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703767	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703767	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703767	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703767	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703767	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703767	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703767	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703767	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703767	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703767	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703767	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703767	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703767	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703767	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703767	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703767	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703767	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703767	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703767	Original Loc	2nd Salt Sand	Well Record	1655	Reasonable	145	Reasonable	1127	Ground Level
4708703767	Original Loc	3rd Salt Sand	Well Record	1820	Reasonable	104	Reasonable	1127	Ground Level
4708703767	Original Loc	Little Lime	Well Record	1980	Reasonable	36	Reasonable	1127	Ground Level
4708703767	Original Loc	Blue Monday	Well Record	2016	Reasonable	6	Reasonable	1127	Ground Level
4708703767	Original Loc	Pencil Cave	Well Record	2022	Reasonable	16	Reasonable	1127	Ground Level
4708703767	Original Loc	Big Lime	Well Record	2038	Reasonable	100	Reasonable	1127	Ground Level
4708703767	Original Loc	Greenbrier Group	Well Record	2038	Reasonable	100	Reasonable	1127	Ground Level
4708703767	Original Loc	Big Injun (Price&eq)	Well Record	2138	Reasonable	34	Reasonable	1127	Ground Level

There is no Wireline (E-Log) data for this well

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708703767	9/19/2013	0

There is no Sample data for this well

3767

W.M. Looney 36 3767

87 03767 P

OG-10
Rev. - 9-71

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Rotary X Oil ____
Cable ____ Gas ____
Recycling ____ Comb. ____
Water Flood X Storage ____
Disposal ____ ____ (Kind)

Quadrangle Tariff 7.5'

Permit No. 47-087-3767

Company Pennzoil Company
Address P. O. Box 1588, Parkersburg, WV 26101
Farm W. M. Looney Acres 480
Location (waters) Trace Fork
Well No. 36 Elev. 1127.08
District Smithfield County Roane
The surface of tract is owned in fee by
~~John Shamblin~~ Triad
Address Left Hand, WV
Mineral rights are owned by Keith Crihfield
Address P.O.Box 431, Spencer, WV
Drilling Commenced 6-11-83
Drilling Completed 6-15-83
Initial open flow WIW cu. ft. ____ bbls.
Final production ____ cu. ft. per day ____ bbls.
Well open ____ hrs. before test ____ RP.
Well treatment details:

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8			
7	362	362	95 sks
5 1/2			
4 1/2	2140	2140	70 sks.
3			
2			
Liners Used			

Attach copy of cementing record.

Fractured: 7/15/83 w/250 gls. 15% HCL, 184 BGW, 1500# 20/40 sd

Coal was encountered at ____ Feet ____ Inches
Fresh water ____ Feet ____ Salt Water ____ Feet ____
Producing Sand ____ Depth ____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sand			0	24		
Silt & Shale			24	48		
Shale			48	55		
Silt & Shale			55	88		
Silt & Sand			88	108		
Shale, Sand, Silt			108	1655		
Salt Sand			1655	1800		
Silt & Sand			1800	1820		
Salt Sand			1820	1924		
Shale, Sand			1924	1980		
Little Lime			1980	2016		
Blue Monday			2016	2022		
Pencil Cave			2022	2038		
~~Big Lime~~			2038	2138		
Big Injun			2138	2172		
Pocono Shale			2172	2184		
Total Depth				3184		

3767

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Rev. 5/08

API # 47-8703767

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: Triad Hunter Operator Well No.: 36 W. M. Looney

LOCATION: Elevation: 1127' Quadrangle: Newton

District: Smithfield County: Roane

Latitude: _____ Feet South of ____ Deg. ____ Min. ____ Sec.

Longitude: _____ Feet West of ____ Deg. ____ Min. ____ Sec.

Northing 4278466.79
Easting 481677.52

Well Type: OIL ____ GAS ____

Company Triad Hunter
5669 Walback Rd.
Wallback WV. 25285

Coal Operator or Owner: No Coal

Coal Operator or Owner: _____

Agent _____

Permit Issued Date 3/29/2013

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

Rick Duckworth and Robert Stewart being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 13 day of Sept., 20__, and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
			450' of 4½"	1690' of 4½"
Cement	2150'	2050'		
Cement	1175'	1075'		362' of 7"
Cement	500'	310'		
Cement	100'	0'		
Gel between all plugs.				

Description of monument: 7" pipe with API numbers and that the work of plugging and filling said well was completed on the 19 day of Sept. 2013

And further deponents saith not. Rick Duckworth
Robert Stewart

Sworn and subscribe before me this 26 day of September 2013

My commission expires: April 17, 2021

Patricia Summers
Notary Public

Affidavit reviewed by the Office of Oil and Gas: _____ Title: Inspector

Did not witness all plugs

RECEIVED
Office of Oil and Gas
SEP 30 2013
WV Department of Environmental Protection

Official Seal
Notary Public, State of West Virginia
Patricia L. Summers
675 Beef Run Rd.
Orma, WV 25268
My commission expires April 17, 2021

3768

"Pipeline"

Select County: 087 Roane

Enter Permit #: 3768

Get Data | Reset

Select datatypes: (Check All)

- Location
- Owner/Completion
- Pay/Show/Water
- Production
- Stratigraphy
- Logs
- Plugging
- Sample
- Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 87 Permit = 3768

Report Time: Tuesday, May 18, 2020 6:40:17 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703768	Roane	3768	Smithfield	Tariff	Otter	38.656753	-81.208541	481855.2	4278707.8

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703768	6/19/1983	Original Loc	Completed	John Shamblin	37					Pennzoil Company			
4708703768	7/12/2013	Plugging	Completed	Triad Hunter	37		W M Looney			Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	BH
4708703768	6/19/1983	-/-/-	1106	Ground Level	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2163		2163		0	0	0	0			0	0	0	0	
4708703768	7/12/2013	7/3/2013	1106	Ground Level																							

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703768	6/19/1983	Horizon	Injection	Vertical	2134		2150	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703768	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703768	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703768	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703768	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703768	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703768	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703768	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703768	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703768	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703768	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703768	Pennzoil Company	1984	1,013	0	0	0	0	0	0	0	0	0	0	0	0
4708703768	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703768	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703768	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703768	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703768	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703768	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703768	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703768	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703768	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703768	Original Loc	2nd Salt Sand	Well Record	1640	Reasonable	165	Reasonable	1106	Ground Level
4708703768	Original Loc	3rd Salt Sand	Well Record	1834	Reasonable	85	Reasonable	1106	Ground Level
4708703768	Original Loc	Little Lime	Well Record	1964	Reasonable	34	Reasonable	1106	Ground Level
4708703768	Original Loc	Blue Monday	Well Record	1998	Reasonable	5	Reasonable	1106	Ground Level
4708703768	Original Loc	Pencil Cave	Well Record	2003	Reasonable	17	Reasonable	1106	Ground Level
4708703768	Original Loc	Greenbrier Group	Well Record	2020	Reasonable	106	Reasonable	1106	Ground Level
4708703768	Original Loc	Big Lime	Well Record	2020	Reasonable	102	Reasonable	1106	Ground Level
4708703768	Original Loc	Keener	Well Record	2122	Reasonable	4	Reasonable	1106	Ground Level
4708703768	Original Loc	Big Injun (Price&eq)	Well Record	2126	Reasonable	28	Reasonable	1106	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703768	2	2176		G D C *	Y	N	2	2176	362	2162									362	2172	Y	Y	N						

Comment: *logs: caliper, CCL

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

3768

FILENAME
47087[illegible]
47087[illegible]

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLUG_DT	DEPTH_FBT
4708703768	7/12/2013	

There is no Sample data for this well

W.M. Looney 37 3768
8703768P

OG-10
Rev. - 9-71

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

WELL RECORD

Rotary X Oil ____
Cable ____ Gas ____
Recycling ____ Comb. ____
Water Flood X Storage ____
Disposal ____ (Kind)

Quadrangle Tariff 7.5'

Permit No. 47-087-3768

Company Pennzoil Company
Address P. O. Box 1588, Parkersburg, WV 26101
Farm W. M. Looney Acres 480
Location (waters) Trace Fork
Well No. 37 Elev. 1105.52
District Smithfield County Roane
The surface of tract is owned in fee by ~~John Shamblin~~ Triad
Address Left Hand, WV
Mineral rights are owned by Keith Crihfield
Address P.O.Box 431, Spencer, WV
Drilling Commenced 6-15-83
Drilling Completed 6-19-83
Initial open flow WIW cu. ft. ____ bbls.
Final production ____ cu. ft. per day ____ bbls.
Well open ____ hrs. before test ____ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond.			
13-10"			
9 5/8			
8 5/8			
7	361	361	90 sks.
5 1/2			
4 1/2	2198	2190	75 sks.
3			
2			
Liners Used			

Attach copy of cementing record.

Well treatment details:
Fractured: 9/28/83 w/250 gls. 15% HCL, 168 Bbls. 20# gel, 1500# 20/40 sd

Perf: 2134-2150/15H

Coal was encountered at ____ Feet ____ Inches
Fresh water ____ Feet ____ Salt Water ____ Feet ____
Producing Sand ____ Depth ____

Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Silt & Sand	0	12		
Shale	12	100		
Sand	100	120		
Silt & Sand	120	127		
Sand	127	145		
Shale	145	256		
Silt, Shale, Sand	256	1640		
Salt Sand	1640	1805		
Shale	1805	1834		
Salt Sand	1834	1919		
Shale, Sand	1919	1964		
Little Lime	1964	1998		
Blue Monday	1998	2003		
Pencil Cave	2003	2020		
Big Lime	2020	2122		
Keener	2122	2126		
Big Injun	2126	2154		
Pocono Shale	2154	2163		
Total Depth		2163		

3768

WR-38
Rev. 5/08

API # 47 8703768

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: Triad Hunter Operator Well No.: ~~Newton~~ W. M. Looney #37

LOCATION: Elevation: 1105' Quadrangle: ~~Newton~~ Tariff 7.5'
District: Smithfield County: Roane
Latitude: _____ et South of _____ y. _____ n. _____ c.
Longitude: _____ et West of _____ eg. _____ min. _____ ec.

Northing 4278707.84'
Easting 481855.15

Well Type: OIL _____ GAS _____ Liquid Injection

Company Triad Hunter
5669 Wallback Rd.
Wallback WV. 25285

Coal Operator or Owner: No coal

Coal Operator or Owner: _____

Agent Tim Keaton
Permit Issued Date 4/9/2013

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

Joe Duckworth and Cody Hammick being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 3 day of July 20 13 and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement	2160'	2060'	870' of 4½"	1250' of 4½"
Cement	1105'	1005'		
Cement	840'	740'		
Cemet	100'			
Gel between all plugs				

Description of monument: 7" pipe with API numbers. and that the work of plugging and filling said well was completed on the 12 day of July 2013

And further deponents saith not. Joe Duckworth
Cody Hammick

Sworn and subscribe before me this 26 day of September 2013

Patricia Summers
Notary Public

Office of Oil and Gas
OCT 23 2013
WV Department of Environmental Protection

Official Seal
Notary Public State of West Virginia
Patricia L. Summers
115 Bear Run Rd.
Cairo, WV 26268
My commission expires April 12, 2021

My commission expires: April 12, 2021

Affidavit reviewed by the Office of Oil and Gas: _____ Title: Inspector

D.O not witness

"Pipeline"

Select County: (087) Roane
Enter Permit #: 3769
Get Data | Reset

Select datatypes: (Check All)
Location | Production | Plugging
Owner/Completion | Stratigraphy | Sample
Pay/Show/Water | Logs | Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 3769

Report Time: Tuesday, May 19, 2020 6:53:58 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703769	Roane	3769	Smithfield	Tariff	Otter	38.658348	-81.207936	481908.2	4278884.7

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703769	6/23/1983	Original Loc	Completed	John Shamblin	38					Pennzoil Company			
4708703769	7/5/2013	Plugging	Completed	Triad Hunter	38		W M Looney			Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	F_AFT	TI_AFT	Bt
4708703769	6/23/1983	-/-/-	1099	Ground Level	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2227		2227		0	0	0	0			0	0	0	0	
4708703769	7/5/2013	6/28/2013	1099	Ground Level																							

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703769	6/23/1983	Horizon	Injection	Vertical	2130		2148	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703769	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703769	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703769	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703769	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703769	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703769	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703769	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703769	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703769	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703769	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703769	Pennzoil Company	1984	1,013	0	0	0	0	0	0	0	0	0	0	0	0
4708703769	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703769	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703769	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703769	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703769	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703769	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703769	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703769	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703769	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703769	Original Loc	2nd Salt Sand	Well Record	1648	Reasonable	136	Reasonable	1099	Ground Level
4708703769	Original Loc	3rd Salt Sand	Well Record	1823	Reasonable	89	Reasonable	1099	Ground Level
4708703769	Original Loc	Little Lime	Well Record	1954	Reasonable	40	Reasonable	1099	Ground Level
4708703769	Original Loc	Blue Monday	Well Record	1994	Reasonable	6	Reasonable	1099	Ground Level
4708703769	Original Loc	Pencil Cave	Well Record	2000	Reasonable	18	Reasonable	1099	Ground Level
4708703769	Original Loc	Big Lime	Well Record	2018	Reasonable	105	Reasonable	1099	Ground Level
4708703769	Original Loc	Greenbrier Group	Well Record	2018	Reasonable	105	Reasonable	1099	Ground Level
4708703769	Original Loc	Big Injun (Price&eq)	Well Record	2123	Reasonable	29	Reasonable	1099	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD	FRO
4708703769	10	2226		G D C*	Y	N	10	2220	344	2226									344	2226	Y	Y	N							

Comment: *logs: caliper, CCL

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here
geologic log types:

3769

FILENAME
4708703769.dc.jp
4708703769.o.tif

d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
e photoelectric adsorption (PE or Pe, etc.)
g gamma ray
i induction (includes dual induction, medium induction, deep induction, etc.)
l laterolog
m dipmeter
n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
o other[1]
s sonic or velocity
t temperature (includes borehole temperature, BHT, differential temperature, etc.)
z spontaneous potential or potential

mechanical log types:

b cement bond
c caliper
o other[1]
p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708703769	7/5/2013	0

There is no Sample data for this well

3769

3769

WR-38
Rev. 5/08

API # 47-8703769

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

W.M. Looney

Farm name: Triad Hunter Operator Well No.: # 38

LOCATION: Elevation: 1099' Quadrangle: Newton
District: Smithfield County: Roane
Latitude: _____ Feet South of _____ Deg. _____ Min. _____ Sec. Northing 4278884.69
Longitude: _____ Feet West of _____ Deg. _____ Min. _____ Sec. Easting 481908.18

Well Type: OIL _____ GAS _____ Injection

Company Triad Hunter
5669 Wallback Rd.
Wallback WV 25285

Coal Operator or Owner No Coal

Coal Operator or Owner

Agent Tim Keaton
Permit Issued Date 4/9/2013

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

Joe Duckworth and Cody Hammick being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 28 day of June, 2013 and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement	2210'	2110'	870' of 4½"	1347' of 4½"
Cement	1150'	1050'		350' of 7"
Cement	920'	820'		
Cement	250'	350'		
Cement	100'	0'		
Gel between all plugs.				

Description of monument: 7" pipe With API numbers. and that the work of plugging and filling said well was completed on the 5 day of July, 2013.

And further deponents saith not. [signature]
[signature]

Sworn and subscribe before me this 26 day of September, 2013

My commission expires: April 12, 2021

Patricia Summers
Notary Public

Affidavit reviewed by the Office of Oil and Gas: [signature] Title: Inspector

Did Not Witness all plugs

RECEIVED
Office of Oil and Gas
OCT 23 2013
Notary Public, State of West Virginia
Patricia L. Summers
675 Deer Run Rd.
My Commission Expires
Environmental Protection

W.M. Looney 38 3769
8703769P

OG-10
Rev. 9-71

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Rotary X Oil ____
Cable ____ Gas ____
Recycling ____ Comb. ____
Water Flood X Storage ____
Disposal ____ ____ (Kind)

Quadrangle Tariff 7.5'

Permit No. 47-087-3769

Company Pennzoil Company
Address P.O.Box 1588, Parkersburg, WV 26101
Farm W. M. Looney Acres 480
Location (waters) Trace Fork
Well No. 38 Elev. 1099.40
District Smithfield County Roane
The surface of tract is owned in fee by
~~John Shamblin~~ Triad
Address LeftHand, WV
Mineral rights are owned by Keith Crihfield
Address P.O.Box 431, Spencer, WV
Drilling Commenced 6-19-83
Drilling Completed 6-23-83
Initial open flow WIW cu. ft. ____ bbls.
Final production ____ cu. ft. per day ____ bbls.
Well open ____ hrs. before test ____ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size			
20-16			
Cond.			
13-10"			
9 5/8			
8 5/8			
7	350	350	120 sks.
5 1/2			
4-1/2	2217	2217	75 sks.
3			
2			
Liners Used			

Attach copy of cementing record.

Well treatment details:
Fractured: 9-28-83 w/250 gls. 15% HCL, 165 bbls. 20# gel, 1500# 20/40 sd.
Perf: 2130-48/1PH

Coal was encountered at ____ Feet ____ Inches
Fresh water ____ Feet ____ Salt Water ____ Feet ____
Producing Sand ____ Depth ____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sand & Silt				74		
Silt & Shale			74	102		
Sand			102	141		
Silt & Sand			141	360		
Silt, Shale, Sand			360	1648		
Salt Sand			1648	1784		
Silt & Sand			1784	1823		
Salt Sand			1823	1912		
Silt, Shale, Sand			1912	1954		
Little Lime			1954	1994		
Blue Monday			1994	2000		
Pencil Cave			2000	2018		
Big Lime			2018	2123		
Big Injun			2123	2152		
Pocono Shale			2152	2227		
Total Depth				2227		

WVGES GEOLOGY UNDERLIES IT ALL

"Pipeline"

Select County: 087 Roane

Enter Permit #: 3771

Get Data | Reset

Select datatypes: ☐ (Check All)

☑ Location ☑ Production ☑ Plugging
☑ Owner/Completion ☑ Stratigraphy ☑ Sample
☑ Pay/Show/Water ☑ Logs ☑ Btm Hole Loc

Table Description
County Code Transactions
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 87 Permit = 3771

Report Time: Tuesday, May 19, 2020 6:55:59 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703771	Roane	3771	Smithfield	Tariff	Otter	38.661684	-81.209973	481731.8	4279255.3

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703771	8/2/1983	Original Loc	Completed	Lee Boggs		100				Pennzoil Company			
4708703771	6/14/2013	Plugging	Completed	Lee Boggs		100	M J Snodgrass			Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	BH
4708703771	8/2/1983	-/-/-	1010	Ground Level	Tariff(Tlmn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2096		2096		0	0	0	0			0	0	0	0	
4708703771	6/14/2013	6/3/2013	1010	Ground Level																							

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703771	8/2/1983	Horizon	Injection	Vertical	2042		2062	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703771	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703771	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703771	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703771	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703771	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703771	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703771	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703771	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703771	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703771	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703771	Pennzoil Company	1984	221	0	0	0	0	0	0	0	0	0	0	0	0
4708703771	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703771	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703771	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703771	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703771	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703771	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703771	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703771	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703771	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703771	Original Loc	Salt Sands (undiff)	Well Record	1548	Reasonable	152	Reasonable	1010	Ground Level
4708703771	Original Loc	Little Lime	Well Record	1856	Reasonable	44	Reasonable	1010	Ground Level
4708703771	Original Loc	Blue Monday	Well Record	1900	Reasonable	8	Reasonable	1010	Ground Level
4708703771	Original Loc	Pencil Cave	Well Record	1908	Reasonable	16	Reasonable	1010	Ground Level
4708703771	Original Loc	Big Lime	Well Record	1924	Reasonable	109	Reasonable	1010	Ground Level
4708703771	Original Loc	Greenbrier Group	Well Record	1924	Reasonable	118	Reasonable	1010	Ground Level
4708703771	Original Loc	Keener	Well Record	2033	Reasonable	9	Reasonable	1010	Ground Level
4708703771	Original Loc	Big Injun (Price&eq)	Well Record	2042	Reasonable	20	Reasonable	1010	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_OF	LOG_MSRD_FRO
4708703771	10	2099		G,D,I,C *			10	2088	328	2094			2027	2099					328	2099	Y	Y	N						

Comment: *logs: caliper, orientation; 25 inch scale

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here
geologic log types:

3771

FILENAME
4708_03771_dc.tif
4708_03771ico.tif

d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
e photoelectric adsorption (PE or Pe, etc.)
g gamma ray
i induction (includes dual induction, medium induction, deep induction, etc.)
l laterolog
m dipmeter
n neutron (includes neutron porosity, sidewall neutron–SWN, etc.)
o other[1]
s sonic or velocity
t temperature (includes borehole temperature, BHT, differential temperature, etc.)
z spontaneous potential or potential

mechanical log types:

b cement bond
c caliper
o other[1]
p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL–Nuclear Cement Top Locator, radioactive tracer, tension

Plugging information:

API	PLG_DT	DEPTH_PBT
4708703771	6/14/2013	0

There is no Sample data for this well

8703771P

OG-10
Rev. - 9-71

RECEIVED
[illegible] - 1983
OIL & GAS DIVISION
DEPT. OF MINES

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Tariff 7.5'

Permit No. 47-087-3771-Li

Rotary X Oil ___
Cable ___ Gas ___
Recycling ___ Comb. ___
Water Flood X Storage ___
Disposal ___ (Kin

Company Pennzoil Company
Address P.O. Box 1588, Parkersburg, WV 26101
Farm M. J. Snodgrass Acres 600
Location (waters) Trace Fork
Well No. 100 Elev. 1010.47'
District Smithfield County Roane
The surface of tract is owned in fee by Lee Boggs
Address Left Hand, WV
Mineral rights are owned by W. Gary Avers
Address P.O. Box 2066, Toluca Lake, Cal
Drilling Commenced 7-31-83
Drilling Completed 8-2-83
Initial open flow WIW cu. ft. ___ bbls.
Final production ___ cu. ft. per day ___ bbls.
Well open ___ hrs. before test ___ RP.
Well treatment details:

Casing and Tubing	Used in Drilling	Left in Well	Cement fill Cu. ft. (Sks
Size 20-16			
Cond.			
13-10"			
9 5/8			
8 5/8	342	342	150 sks.
7			
5 1/2			
4 1/2	2033	2033	110 sks.
3			
2			
Liners Used			

Attach copy of cementing record.

Fractured: [illegible] 22/83
Open Hole: Big Injun w/250 gls. 15% HF acid, 226 BBW, 1500# 20/40 sd.

Coal was encountered at NR Feet ___ Inches
Fresh water NR Feet ___ Salt Water NR Feet ___
Producing Sand ___ Depth ___

Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale	0	10		
Silt & Sand	10	46		
Silt, Shale, Sand	46	1548		
Salt Sand	1548	1700		
Silt, Sand, Shale	1700	1856		
Little Lime	1856	1900		
Blue Monday	1900	1908		
Pencil Cave	1908	1924		
Big Lime	1924	2033		
Keener	2033	2042		
Big Injun	2042	2062		
Pocono Shale	2062	2096		
Total Depth		2096		

ROANE 3771

3771

WR-38
Rev. 5/08

API # 47-8703771

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

M.J. Snodgrass

Farm name: Lee Boggs Operator Well No.: #100

LOCATION: Elevation: 1010' Quadrangle: ~~Smxxhxxxxx~~ Tariff

District: Smithfield County: Roane

Latitude: 12,250' Feet South of 38 Deg. 40 Min. 00 Sec.

Longitude: 1,810' Feet West of 81 Deg. 10 Min. 00 Sec.

Well Type: OIL ____ GAS Injection

Company: Fried Hunter
5669 Wallback Rd.
Wallback WV. 25285

Coal Operator or Owner: No Coal

Coal Operator or Owner:

Agent: Tim Keaton

Permit Issued Date: 4/9/2013

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

Rick Duckworth and Robert Stewart being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 3 day of June, 2013, and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement	1962'	2062'		
Cement	1100'	1200'		
Cement	960'	1060'		
Cement	400'	300'		
Cement	100'	0'		
Gel between all plugs.				

RECEIVED
Office of Oil and Gas
OCT 23 2013
WV Department of Environmental Protection

Description of monument: &" pipe with API numbers. and that the work of plugging and filling said well was completed on the 14 day of June, 2013

And further deponents saith not. Rick Duckworth
Robert Stewart

Sworn and subscribe before me this 26 day of September, 2013

Official Seal
Notary Public, State of West Virginia
Patricia L. Summers
675 Bear Run Rd.
Ontra, WV 25260
My commission expires April 12, 2021

My commission expires: April 12 2021

Patricia L Summers
Notary Public

Affidavit reviewed by the Office of Oil and Gas: [signature] Title: Inspector

Did not witness all plugs

WVGES
GEOLOGY UNDERLIES IT ALL
"Pipeline"

Select County: (087) Roane
Enter Permit #: 3772
Get Data | Reset

Select datatypes: (Check All)
Location | Production | Plugging
Owner/Completion | Stratigraphy | Sample
Pay/Show/Water | Logs | Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 3772

Report Time: Tuesday, May 19, 2020 7:01:08 PM

Location Information: View Ma

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703772	Roane	3772	Smithfield	Tariff	Otter	38.659944	-81.208307	481876.3	4279061.9

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703772	6/28/1983	Original Loc	Completed	Ozva McGlothin	101					Pennzoil Company			
4708703772	6/22/2013	Plu in	Completed	Harr Pennington	101		M J Sno rass			Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	BH
4708703772	6/28/1983	-/-/-	1007	Ground Level	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2125		2125		0	0	0	0			0	0	0	0	
4708703772	6/22/2013	8/15/2013	1007	Ground Level																							

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703772	6/28/1983	Horizon	Injection	Vertical	2032		2060	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells onl Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703772	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703772	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703772	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703772	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703772	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703772	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703772	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703772	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703772	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703772	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703772	Pennzoil Company	1984	221	0	0	0	0	0	0	0	0	0	0	0	0
4708703772	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703772	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703772	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703772	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703772	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703772	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703772	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703772	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703772	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703772	Original Loc	3rd Salt Sand	Well Record	1576	Reasonable	284	Reasonable	1007	Ground Level
4708703772	Original Loc	Little Lime	Well Record	1860	Reasonable	46	Reasonable	1007	Ground Level
4708703772	Original Loc	Blue Monday	Well Record	1906	Reasonable	6	Reasonable	1007	Ground Level
4708703772	Original Loc	Pencil Cave	Well Record	1912	Reasonable	17	Reasonable	1007	Ground Level
4708703772	Original Loc	Big Lime	Well Record	1929	Reasonable	103	Reasonable	1007	Ground Level
4708703772	Original Loc	Greenbrier Group	Well Record	1929	Reasonable	103	Reasonable	1007	Ground Level
4708703772	Original Loc	Big Injun (Price&eq)	Well Record	2032	Reasonable	28	Reasonable	1007	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703772	50	2134		G,D,C,I,N,*	Y	N	50	2134	266	2134	266	2134	306	2134					50	2134	Y	Y	N						

Comment: *logs: caliper, SP, tension, MSI, SW, VS, PHIE

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here
geologic log types:
d density (includes bulk density, compensated density, density porosity, grain density, matrix density, etc.)

3772

47_8703772_dnczo.tif
4708703772pindczo.tif
4708703772_izc_.tif

e photoelectric adsorption (PE or Pe, etc.)
g gamma ray
i induction (includes dual induction, medium induction, deep induction, etc.)
l lateralog
m dipmeter
n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
o other[1]
s sonic or velocity
t temperature (includes borehole temperature, BHT, differential temperature, etc.)
z spontaneous potential or potential

mechanical log types:

b cement bond
c caliper
o other[1]
p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708703772	6/22/2013	0

There is no Sample data for this well

3722

Snodgrass 101 3772
8703772 P

OG-10
Rev. - 9-71

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

Quadrangle Tariff 7.5'

Permit No. 47-087-3772-Li

Rotary X Oil X
Cable ___ Gas ___
Recycling ___ Comb. ___
Water Flood X Storage ___
Disposal ___ (Kind)

Company Pennzoil Company
Address P.O.Box 1588 Parkersburg, WV 26101
Farm M. J. Snodgrass Acres 600
Location (waters) Sycamore Fork
Well No. 101 Elev. 1007
District Smithfield County Roane
The surface of tract is owned in fee by
~~Ozua McGlothlin~~ Hary Pennington
Address Left Hand, WV
Mineral rights are owned by W. Gary Ayers
Address P.O.Box 2066, Toluca, Calif. 91602
Drilling Commenced 6-24-83
Drilling Completed 6-28-83
Initial open flow TTW cu. ft. ___ bbls.
Final production ___ cu. ft. per day ___ bbls.
Well open ___ hrs. before test ___ RP.
Well treatment details:
Fractured: 10/5/83 w/250 gls. 15% HF acid, 160 BGW, 1500# 20/40 s
Big Injun

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size			
20-16			
Cond.			
13-10"			
9 5/8			
8 5/8	307	307	150 sks.
7			
5 1/2			
4 1/2	2123	2123	140 sks.
3			
2			
Liners Used			

Attach copy of cementing record.

Coal was encountered at ___ Feet ___ Inches
Fresh water ___ Feet ___ Salt Water ___ Feet ___
Producing Sand ___ Depth ___

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sand, Silt, Shale			0	100		
Silt & Sand			100	310		
Shale			310	336		
Silt & Shale			336	402		
Sand			402	410		
Silt, Shale, Sand			410	1576		
Salt Sand			1576	1860		
Little Lime			1860	1906		
Blue Monday			1906	1912		
Pencil Cave			1912	1929		
Big Lime			1929	2032		
Big Injun			2032	2060		
Pocono Shale			2060	2125		
Total Depth				2125		

3772

WR-38
Rev. 5/08

API # 47-8701772

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

M. J. Snodgrass

Farm name: Harry Pennington Operator Well No.: #101

LOCATION: Elevation: 1007' Quadrangle: Tariff
District: Smithfield County: Roane
Latitude: _____ Feet South of _____ Deg. _____ Min. _____ Sec.
Longitude: _____ Feet West of _____ Deg. _____ Min. _____ Sec.

Well Type: OIL _____ GAS _____ Injection

Company Triad Hunter Coal Operator
5669 Wallback Rd. or Owner
Wallback WV 25285
Coal Operator
Agent Tim keaton or Owner
Permit Issued Date 4/9/2013

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

Joe Duckworth and Cody Hammick being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 15 day of June 2013 and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement	2110'	2010'	870' of 4½"	1253' of 4½"
Cement	1055'	955'		307 of 8 5/8
Cement	920'	820'		
Cement	100'	0'		

RECEIVED
Office of Oil and Gas
OCT 28 2013
WV Department of Environmental Protection

Description of monument: 7" pipe with API numbers and that the work of plugging and filling said well was completed on the 22 day of June 2013

And further deponents saith not. [signature]
[signature]

Sworn and subscribe before me this 26 day of September 2013

My commission expires: April 12, 2021 Patricia Summers
Notary Public

Official Seal
Notary Public, State of West Virginia
Patricia L. Summers
575 Bear Run Rd.
Orma, WV 25268
My commission expires April 12, 2021

Affidavit reviewed by the Office of Oil and Gas: [signature] Title: Inspector

Did not witness all plugs

WVGES GEOLOGY UNDERLIES IT ALL "Pipeline"

Select County: (087) Roane
Enter Permit #: 3773
Get Data | Reset

Select datatypes: (Check All)
Location, Owner/Completion, Pay/Show/Water, Production, Stratigraphy, Logs, Plugging, Sample, Btm Hole Loc

Table Descriptions
Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 87 Permit = 3773

Report Time: Tuesday, May 19, 2020 7:04:19 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703773	Roane	3773	Smithfield	Tariff	Otter	38.560524	-81.206088	482069.5	4279125.8

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703773	7/3/1983	Original Loc	Completed	George McQuain	102					Pennzoil Company			
4708703773	6/11/2013	Plugging	Completed	Gladys Carver	102		M J Snodgrass			Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	B
4708703773	7/3/1983	-/-/-	1015	Ground Level	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2135		2135		0	0	0	0			0	0	0	0	
4708703773	6/11/2013	6/6/2013	1015	Ground Level																							

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703773	7/3/1983	Horizon	Injection	Vertical	2054		2062	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703773	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703773	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703773	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703773	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703773	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703773	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703773	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703773	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703773	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703773	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703773	Pennzoil Company	1984	221	0	0	0	0	0	0	0	0	0	0	0	0
4708703773	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703773	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703773	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703773	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703773	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703773	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703773	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703773	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703773	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703773	Original Loc	Little Lime	Well Record	1865	Reasonable	47	Reasonable	1015	Ground Level
4708703773	Original Loc	Blue Monday	Well Record	1912	Reasonable	4	Reasonable	1015	Ground Level
4708703773	Original Loc	Pencil Cave	Well Record	1916	Reasonable	20	Reasonable	1015	Ground Level
4708703773	Original Loc	Greenbrier Group	Well Record	1936	Reasonable	104	Reasonable	1015	Ground Level
4708703773	Original Loc	Big Lime	Well Record	1936	Reasonable	104	Reasonable	1015	Ground Level
4708703773	Original Loc	Big Injun (Price&eq)	Well Record	2040	Reasonable	28	Reasonable	1015	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703773	4	2134		G,D,C,*	Y	N	4	2128	298	2132									298	2134	Y	Y	N						

Comment: *logs: caliper, CCL, perforation

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703773gdc.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here
geologic log types:
d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
e photoelectric adsorption (PE or Pe, etc.)

3773

4708703773gpo.tif

g gamma ray
i induction (includes dual induction, medium induction, deep induction, etc.)
l laterolog
m dipmeter
n neutron (includes neutron porosity, sidewall neutron–SWN, etc.)
o other[1]
s sonic or velocity
t temperature (includes borehole temperature, BHT, differential temperature, etc.)
z spontaneous potential or potential

mechanical log types:

b cement bond
c caliper
o other[1]
p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708703773	6/11/2013	0

There is no Sample data for this well

3713

3773

WR-38
Rev. 5/08

API # 47-8703773

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

M. J. Snodgrass

Farm name: Gladys Carper Operator Well No.: # 102

LOCATION: Elevation: 1014' Quadrangle: Tariff
District: Smithfield County: Roane
Latitude: 11,120' Feet South of 38 Deg. 40 Min. 00 Sec.
Longitude: 2,270' Feet West of 81 Deg. 10 Min. 00 Sec.

Northing 4279125.81
EASTING Injection 482069.52

Well Type: OIL _____ GAS _____

Company: Triad Hunter
5669 Wallback Rd
Wallback WV. 25285

Coal Operator or Owner: No Coal

Coal Operator or Owner:

Agent: Tim Keaton

Permit Issued Date: 4/9/2013

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

Rick Duckworth and Robert Stewart being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 6 day of June 2013 and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement	2025'	1925'		
Cement	1340'	1240'		
Cement	1040'	940'		
Cement	100'	0'		

RECEIVED
Office of Oil and Gas
OCT 23 2013
WV Department of Environmental Protection

Description of monument: 7" pipe with API numbers. and that the work of plugging and filling said well was completed on the 11 day of June 2013

And further deponents saith not. Rick Duckworth
Robert Stewart

Notary Public State of West Virginia
Patricia L. Summers
675 Beer Run Rd.
Grove, WV 25268
My commission expires April 12, 2021

Sworn and subscribe before me this 26 day of September, 2013

My commission expires: April 12, 2021 Patricia Summers
Notary Public

Affidavit reviewed by the Office of Oil and Gas: _____ Title: Inspector

Did not witness all plugs

Snodgrass 102
8703773P

3773

OG-10
Rev. - 5-71

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Tariff 7.5'

Permit No. 47-087-3773-Li

Rotary X Oil.
Cable ___ Gas
Recycling ___ Con
Water Flood X Stor
Disposal ___

Company Pennzoil Company
Address P.O. Box 1586, Parkersburg, WV 26101
Farm M. J. Snodgrass Acres 600
Location (waters) Trace Fork
Well No. 102 Elev. 1014.81'
District Smithfield County Roane
The surface of tract is owned in fee by
~~George McQuain~~ Lee Boggs
Address Left Hand, WV
Mineral rights are owned by W. Gary Ayers
Address P.O Box 2066 Tolusa Lake, Cal
Drilling Commenced 6-29-83
Drilling Completed 7-3-83
Initial open flow WIW cu. ft. ___ bbls.
Final production ___ cu. ft. per day ___ bbls.
Well open ___ hrs. before test ___ RP.
Well treatment details:

Casing and Tubing	Used in Drilling	Left in Well	Cement Cu. ft.
Size			
20-16			
Cond.			
13-10"			
9 5/8			
8 5/8	297	297	110 s
7			
5 1/2			
[illegible]	2122	2122	75 s
3			
2			
Liners Used			

Attach copy of cementing record.

Fractured: 9-29-83 Big Injun w/250 gls. 15 % HCL, 160 BGW, 1500# 20/40 sc

Perf: 2054-2062/16H

Coal was encountered at NR Feet ___ Inches
Fresh water NR Feet ___ Salt Water NR Feet ___
Producing Sand ___ Depth ___

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sand			0	10		
Shale			10	20		
Sand			20	100		
Shale, Sand			100	1704		
Silt, Sand			1704	1752		
Sand, Shale			1752	1835		
Silt, Shale			1835	1850		
Sand			1850	1865		
Little Lime			1865	1912		
Blue Monday			1912	1916		
Pencil Cave			1916	1936		
Big Lime			1936	2040		
Big Injun			2040	2068		
Pocono Shale			2068	2135		
Total Depth				2135		

"Pipeline"

Select County: (087) Roane
Enter Permit #: 3777
Get Data | Reset

Select datatypes: (Check All)
- Location
- Owner/Completion
- Pay/Show/Water
- Production
- Stratigraphy
- Logs
- Plugging
- Sample
- Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 3777

Report Time: Tuesday, May 19, 2020 7:10:10 PM

Location Information: View Ma

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703777	Roane	3777	Smithfield	[illegible]	[illegible]	[illegible]68	-81.206456	482036.8	4278820.1

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703777	7/17/1983	Original Loc	Completed	Delmas Conley		72				Pennzoil Company			
4708703777	4/15/1986	Worked Over	Completed	Delmas Conley	72					Pennzoil Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	T_AFT	TI_AI
4708703777	7/17/1983	7/13/1983	923	Ground Level	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2048		2048		0	0	0	0			0	0	0	
4708703777	4/15/1986	-/-/1986	923	Ground Level	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Development Well	Development Well	Oil	unknown	unknown	2048		0		0	0	0	1			0	0	0	

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703777	7/17/1983	Horizon	Injection	Vertical	1958	Big Injun (Price&eq)	1968	Big Injun (Price&eq)	0	0			
4708703777	4/15/1986	Pay	Oil	Vertical	1958	Big Injun (Price&eq)	1968	Big Injun (Price&eq)	0	1			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703777	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703777	Pennzoil Company	1984	1.030	0	0	0	0	0	0	0	0	0	0	0	0

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703777	Original Loc	Little Lime	Well Record	1784	Reasonable	40	Reasonable	924	Ground Level
4708703777	Original Loc	Blue Monday	Well Record	1824	Reasonable	8	Reasonable	924	Ground Level
4708703777	Original Loc	Pencil Cave	Well Record	1832	Reasonable	15	Reasonable	924	Ground Level
4708703777	Original Loc	Big Lime	Well Record	1847	Reasonable	107	Reasonable	924	Ground Level
4708703777	Original Loc	Big Injun (Price&eq)	Well Record	1954	Reasonable	22	Reasonable	924	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703777	16	2046		G,D,C,I,S.*	Y	N	16	2046	143	2046			200	2029			1128	2014	174	2046	Y	Y	N						

Comment: *logs: caliper, tension, PE, CCL, cement bond, perforation dept

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703777gbpso.tif
4708703777gdc.tif
4708703777gdceo.tif
4708703777glo.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

3777

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708703777	10/22/1992	0

There is no Sample data for this well

3777

3777

CC-10
Rev. 1-81

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Rotary X Oil
Cable ____ Gas
Recycling ____ Comb
Water Flood X Stor
Disposal ____

Quadrangle Tariff 7.5'

Permit No. 47-087-3777-L1

Company Pennzoil Company
Address P.O. Box 1588 Parkersburg WV 26101
Farm P. A. Tallman Acres 2350
Location (waters) Sycamore Fork
Well No. 72 Elev. 924'
District Smithfield County Roane
The surface of tract is owned in fee by
Delmas Conley
Address Left Hand, WV
Mineral rights are owned by Anna Lee Collins
Address 1000 Main St. Point Pleasant WV
Drilling Commenced 7-15-83
Drilling Completed 7-17-83
Initial open flow MCF cu. ft. ____ bbls.
Final production ____ cu. ft. per day ____ bbls.
Well open ____ hrs. before test ____ RP.
Well treatment details:

Casing and Tubing	Used in Drilling	Left in Well	Cement Cu. ft.
Size-			
20-16			
Cond.			
13-10"			
9 5/8			
8 5/8			
7	212	212	100
5 1/2			
4 1/2	2044	2044	70
3			
2			
Liners Used			

Attach copy of cementing record.

Fractured: 8/29/83 Big Injun w/250 gls. 15% HCL. 160 BGW. 1500 # 20/40 s

Perf: 1958-68/10H

Coal was encountered at NP Feet ____ Inches
Fresh water NP Feet ____ Salt Water NP Feet
Producing Sand ____ Depth ____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sand			0	25		
Silt & Sand			25	198		
Silt & Shale			198	242		
Silt,Shale,Sand			242	1462		
Salt Sand			1462	1744		
Silt,Shale,Sand			1744	1784		
Little Lime			1784	1824		
Blue Monday			1824	1832		
Pencil Cave			1832	1847		
Big Lime			1847	1954		
Big Injun			1954	1976		
Pocono Shale			1976	2048		
Total Depth				2048		

3777

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks

Date Oct 22 1983

PENN. OIL CO.

APPROVED [illegible] Owner

3111

WR-38
28-Sep-92

RECEIVED
DEC 29 92
WV Division of Environmental Protection

API # 47- 87-03777-P

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
SECTION OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: CONLEY, ROY Operator Well No.:P.A. TALLMAN#72

LOCATION: Elevation: 923.61 Quadrangle: TARIFF
District: SMITHFIELD County: ROANE
Latitude: 3290 Feet South of 38 Deg. 40 Min. 0 Sec.
Longitude 11350 Feet West of 81 Deg. 10 Min. 0 Sec.

Well Type: OIL X GAS ____

Company: Pennzoil Products Company
P.O. Box 5519
Vienna, WV 26105

Coal Operator or Owner N/A

Agent: J.A. Crews

Coal Operator or Owner ____

Permit Issued: 09/28/92

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

Daniel M. Moore and Harold Sewers being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well, and Homer Dougherty Oil and Gas Inspector representing the Director, say that said work was commenced on the 20th day of October, 19 92, and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED		LEFT
Cement	2010	1735	4 1/2	1191.5	841.5
Gel	1735	1150	7	0	212
Cement	1150	1050			
Gel	1050	290			
Cement	290	190			
Gel	190	50			
Cement	50	Surface			

Description of monument: 1 Joint 4 1/2" Casing extending 30" above surface.
and that the work of plugging and filling said well was completed on the 22nd day of October, 19 92.

And furthur deponents saith not.

Daniel M. Moore
Harold Sewers

Sworn and subscribe before me this 16th day of December, 19 92
My commission expires: June 7 2000

Notary Public

Oil and Gas Inspector: H. H. Dougherty

ROANE 3777-P

WVGES GEOLOGY UNDERLIES IT ALL "Pipeline"

Select County: (087) Roane
Enter Permit #: 3876
Get Data | Reset

Select datatypes: (Check All)
Location, Production, Plugging, Owner/Completion, Stratigraphy, Sample, Pay/Show/Water, Logs, Btm Hole Loc

Table Descriptions
County Code Translations
Permit Number Descriptions
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 87 Permit = 3876

Report Time: Tuesday, May 19, 2020 7:13:42 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703876	Roane	3876	Smithfield	Tariff	Otter	38.883134	-81.210577	481679.6	4279416.3

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703876	10/18/1984	Original Loc	Completed	Lee Boggs		105				Pennzoil Company			
4708703876	5/31/2013	Plugging	Completed	Lee Boggs	105		M J Snodgrass			Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FIELD	ROD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	B
4708703876	10/18/1984	6/2/1984	1052	Ground Level	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2144		2144		0	0	0	0			0	0	0	0	
4708703876	5/31/2013	5/21/2013	1051	Ground Level																							

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703876	10/18/1984	Water	Fresh Water	Vertical			65						0
4708703876	10/18/1984	Water	Fresh Water	Vertical			160						0
4708703876	10/18/1984	Water	Salt Water	Vertical			1600						0
4708703876	10/18/1984	Horizon	Injection	Vertical	2055		2096	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703876	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703876	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703876	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703876	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703876	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703876	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703876	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703876	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703876	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703876	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703876	Pennzoil Company	1984	221	0	0	0	0	0	0	0	0	0	0	0	0
4708703876	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703876	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703876	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703876	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703876	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703876	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703876	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703876	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703876	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703876	Original Loc	3rd Salt Sand	Well Record	1536	Reasonable	228	Reasonable	1052	Ground Level
4708703876	Original Loc	Little Lime	Well Record	1878	Reasonable	57	Reasonable	1052	Ground Level
4708703876	Original Loc	Blue Monday	Well Record	1935	Reasonable	6	Reasonable	1052	Ground Level
4708703876	Original Loc	Big Lime	Well Record	1958	Reasonable	109	Reasonable	1052	Ground Level
4708703876	Original Loc	Greenbrier Group	Well Record	1958	Reasonable	109	Reasonable	1052	Ground Level
4708703876	Original Loc	Big Injun (Price&eq)	Well Record	2067	Reasonable	33	Reasonable	1052	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703876	20	2138		G.D.C.*	Y	N	20	2126	424	2132									424	2138	Y	Y	N						

Comment: *logs: caliper, CCL, cement bond

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

3876

FILENAME
4708_03876_bo.tif
47_8703876_dc-(1

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:

- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:

- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_FBT
4708703876	5/31/2013	0

There is no Sample data for this well

3876

FORM IV-35
(REVERSE)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Fractured: 10-18-84

Big Injun: w/250 gls. 15% HCL, 170 BW, 1500# 20/40 sd

Perforated: 2080-2096/16H

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Silt & Shale	0	64	
Sand	64	82	
Shale	82	228	
Silt,Sand	228	414	
Shale	414	610	
Sand,Shale,Silt	610	1536	
Salt Sand	1536	1794	
Shale,Sand	1794	1878	
Little Lime	1878	1935	
Blue Monday	1935	1941	
Pencil Cave	1941	1958	
Big Lime	1958	2067	
Big Injun	2067	2100	
Shale	2100	2144	
Total Depth		2144	

(Attach separate sheets as necessary)

Pennzoil Company
Well Operator

By: Curtis A. Lewis

Date: January 10, 1985

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

WR-38
Rev. 5/08

API # 47/8703876

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

M. T. Snodgrass

Farm name: Lee Boggs Operator Well No.: # 105

LOCATION: Elevation: 1051' Quadrangle: Newton
District: Smithfield County: Roane
Latitude: _____ Feet South of ____ Deg. ____ Min. ____ Sec. Northing 4279416.30
Longitude: _____ Feet West of ____ Deg. ____ Min. ____ Sec. Easting 481679.64

Well Type: OIL ____ GAS ____ Injection

Company Triad Hunter
5669 Wallback Rd.
Wallback WV. 25285

Coal Operator or Owner: No Coal

Coal Operator or Owner: _____

Agent Tim Keaton
Permit Issued Date 4/9/2013

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

Rick Duckworth and Robert Stewart being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 21 day of May 2013 and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement	2100'	2000'	1440' of 4½"	431' of 4½"
Cement	1440'	1340'		431' of 7"
Cement	1100	1000'		
Cement	480'	380'		
Cement	100'	0'		
Gel between all plugs.				

Description of monument: 7" pipe with API numbers. and that the work of plugging and filling said well was completed on the 31 day of May, 2013.

And further deponents saith not. Rick Duckworth
Robert Stewart

Official Seal
Notary Public, State of West Virginia
Patricia L. Summers
175 Bear Run Rd.
Orma, WV 25268
My commission expires April 12, 2021

Sworn and subscribe before me this 26 day of September, 2013

My commission expires: April 12, 2021

Patricia Summers
Notary Public

Affidavit reviewed by the Office of Oil and Gas: _____ Title: Inspector

Did not witness all plugs

WVGES GEOLOGY UNDERLIES IT ALL "Pipeline"

Select County: (087) Roane
Enter Permit #: 3877
Get Data | Reset

Select datatypes: (Check All)
Location | Production | Plugging
Owner/Completion | Stratigraphy | Sample
Pay/Show/Water | Logs | Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 87 Permit = 3877

Report Time: Tuesday, May 19, 2020 7:14:21 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703877	Roane	3877	Smithfield	Tariff	Otter	38.55179	-81.206653	482018	4278089

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703877	6/6/1984	Original Loc	Completed	Doyle D Jones	74					Pennzoil Company			
4708703877	7/17/2015	Plugging	Completed	Triad Hunter LLC	74		P A Tallman		T A L Collins	Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	B
4708703877	6/6/1984	-/-/-	907	Ground Level	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Nat/Open H	1994		1994		0	0	0	0			0	0	0	0	
4708703877	7/17/2015	7/15/2015	980	Ground Level																							

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703877	6/6/1984	Water	Fresh Water	Vertical			104						0
4708703877	6/6/1984	Water	Salt Water	Vertical			1633						0
4708703877	6/6/1984	Horizon	Injection	Vertical	1910	Big Injun (Price&e	1935	Big Injun (Price&e	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703877	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703877	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703877	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703877	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703877	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703877	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703877	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703877	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703877	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703877	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703877	Pennzoil Company	1984	1,030	0	0	0	0	0	0	0	0	0	0	0	0
4708703877	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703877	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703877	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703877	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703877	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703877	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703877	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703877	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703877	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703877	Original Loc	Little Lime	Well Record	1740	Reasonable	40	Reasonable	907	Ground Level
4708703877	Original Loc	Pencil Cave	Well Record	1780	Reasonable	32	Reasonable	907	Ground Level
4708703877	Original Loc	Greenbrier Group	Well Record	1812	Reasonable	114	Reasonable	907	Ground Level
4708703877	Original Loc	Big Lime	Well Record	1812	Reasonable	114	Reasonable	907	Ground Level
4708703877	Original Loc	Big Injun (Price&eq	Well Record	1926	Reasonable	16	Qstmble Pick	907	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703877	6	1992		G,D,C,*	Y	N	6	1986	256	1992									252	1992	Y	Y	N						

Comment: *logs: caliper, CCL, cement bond, formation bond

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here
geologic log types:
d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)

3877

4708703877gbo.tif
4708703877gdc.tif

e photoelectric adsorption (PE or Pe, etc.)
g gamma ray
i induction (includes dual induction, medium induction, deep induction, etc.)
l laterolog
m dipmeter
n neutron (includes neutron porosity, sidewall neutron–SWN, etc.)
o other[1]
s sonic or velocity
t temperature (includes borehole temperature, BHT, differential temperature, etc.)
z spontaneous potential or potential

mechanical log types:

b cement bond
c caliper
o other[1]
p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL–casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL–Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708703877	7/17/2015	0

There is no Sample data for this well

3817

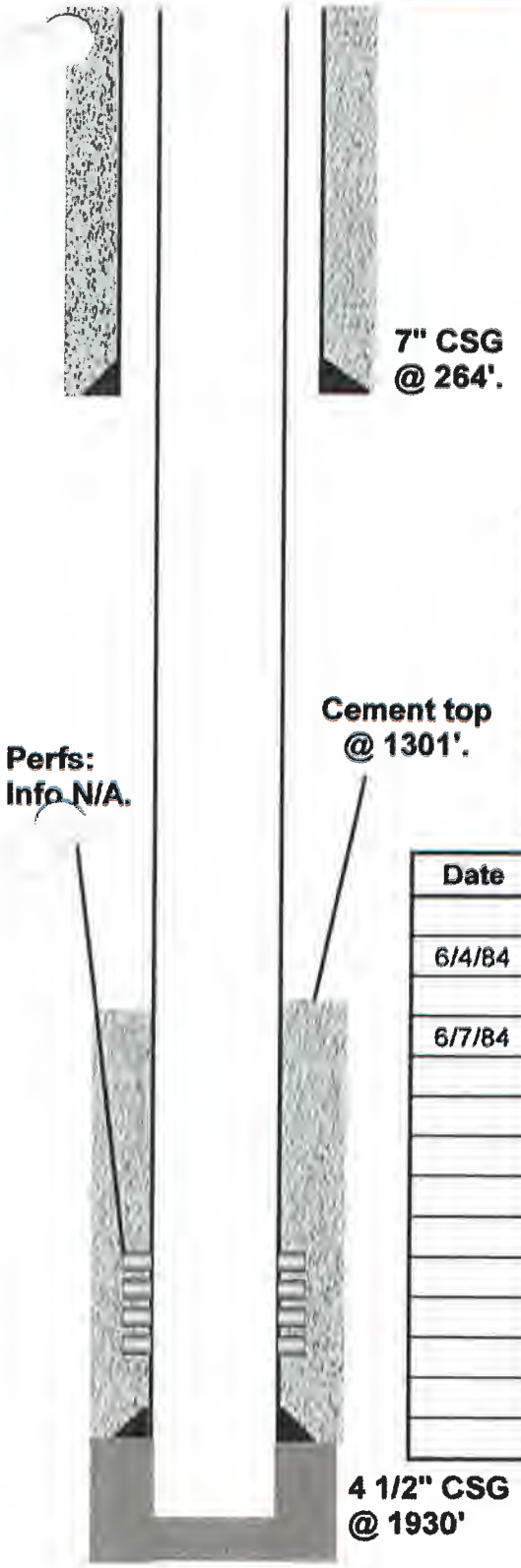
Proposed

X As is

P.A.TALLMAN # 74- 47-087- 3877 - LI
SMITHFIELD DIST., ROANE CO., W.V.
FIELD : TARIFF.

3877

	Size	Wt.	Grde	Thrd	Depth	Sks/Cmt
CONDUCTOR						
SURFACE	7"	17 #	H-40	8 RD	264'	85 sks
INTERMEDIATE						
INTERMEDIATE						
PRODUCTION	4 1/2"	9.5 #	J-55	8 RD	1930'	50 sks
TUBING						



Perforation Information
BIG INJUN : Perforations information N/A.
Open hole @ 1930'-1988'

Casing and Tubing Information
7" CSG set @ 264' cemented to surface w/ 85 sks Class A cement
having 3% C.C and 1/4 # flocele/sack.
4 1/2" CSG cemented @ 1930' with 50 sks of 50/50 pozmix w / 2% C.C
and 1/8 # flocele/sack.
Cement Top @ 1301'.

Date	Work-Over Information
	Water Injection Well
6/4/84	Ran 6 jts 7", 17 #, H-40, 8 RD thd CSG w/ S.T.& C. set @ 264' &
	cemented w/ 85 sks Class 'A' cement having 3% C.C and 1/4 # flocele/sk.
6/7/84	Ran 49 jts 4 1/2", 9.5 #, J-55, 8 RD thd CSG w/ S.T.& C. set @ 1930'
	and cemented w/ 500 gals mud flush & w/ 50 sks of 50/50 poz w / 2%
	Calcium Chloride and 1/8 # flocele/sack.

WELL T.D. 1988'

PREPARED BY:Babaji Chitturi

DATE: 08/06/2002

8703877P

3877

IV-35
(Rev 8-81)

State of West Virginia
Department of Mines
Oil and Gas Division

Date December 4, 1984
Operator's
Well No. 74
Farm P. A. Tallman
API No. 47 - 087 - 3877-Li

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___/ Gas ___/ Liquid Injection X / Waste Disposal ___/
(If "Gas," Production ___/ Underground Storage ___/ Deep ___/ Shallow ___/)

LOCATION: Elevation: 906.58 Watershed Sycamore Fork
District: Smithfield County Roane Quadrangle Tariff 7.5'

COMPANY Pennzoil Company
ADDRESS P.O. Box 1588, Parkersburg, WV 26101
DESIGNATED AGENT James A. Crews
ADDRESS P. O. Box 1588, Parkersburg, WV 26101
SURFACE OWNER Doyle D. Jones
ADDRESS P.O. Box 926, Spencer, WV 25257
MINERAL RIGHTS OWNER Anna Lee Collins
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK Homer Dougherty ADDRESS Linden Rt., Box 3-A Looneyville, WV
PERMIT ISSUED 5-3-84
DRILLING COMMENCED 6-2-84
DRILLING COMPLETED 6-6-84
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8			
7	264	264	85 sks
5 1/2			
4 1/2	1930	1930	50 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Big Injun Depth 1820-1942 feet
Depth of completed well 1994 feet Rotary X / Cable ___ / Tools ___
Water strata depth: Fresh 104-124 feet; Salt 1633-1742 feet
Coal seam depths: ___ Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Water Injection Well Pay zone depth ___ feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow ___ Mcf/d Final open flow ___ Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure ___ psig (surface measurement) after ___ hours shut in
(If applicable due to multiple completion--)
Second producing formation ___ Pay zone depth ___ feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow ___ Mcf/d Oil: Final open flow ___ Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure ___ psig (surface measurement) after ___ hours shut in

RECEIVED Office of Oil and Gas MAR 16 2015 WV Department of Environmental Protection

RECEIVED Office of Oil and Gas MAR 16 2015 WV Department of Environmental Protection

(Continue on reverse side)

FORM IV-35
(REVERSE)

8703877P

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

3877

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand	0	36	
Siltstone	36	104	
Sand	104	124	
Shale, Siltstone,Sand	124	1400	
Salt Sand	1400	1740	
Little Lime	1740	1780	
Pencil Cave	1780	1812	
Big Lime	1812	1926	
Big Injun	1926	1942	
Focono Shale	1942	1994	
Total Depth		1994	

RECEIVED
Office of Oil and Gas
MAR 16 2005
WV Department of
Environmental Protection

(Attach separate sheets as necessary)

Pennzoil Company
Well Operator

By: Curtis A Lucas

Date: 12-4-84

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

3877

WR-38
Rev. 5/08

API # 47-8703877

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: TALLMAN, P.A. Operator Well No.: P.A. TALLMAN 74

LOCATION: Elevation: 907 Quadrangle: TARIFF
District: SMITHFIELD County: ROANE
Latitude: _____ Feet South of _____ Deg. _____ Min. _____ Sec.
Longitude: _____ Feet West of _____ Deg. _____ Min. _____ Sec.

Well Type: OIL _____ GAS _____

Company TRIAD HUNTER, LLC
125 PUTNAM STREET
MARIETTA, OHIO

Coal Operator or Owner _____

Coal Operator or Owner _____

Agent KIM ARNOLD
Permit Issued Date 04/30/2015

RECEIVED
Office of Oil and Gas
JUL 12 2017
WV Department of
Environmental Protection

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of ROANE ss:

TERRY REXROAD and DARRELL SHAMBLIN being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 15 day of JULY, 2015, and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
CEMENT	1990	1745		264' OF 7"
6% GEL	1745	1050	1050' OF 4 1/2	940' OF 4 1/2
CEMENT	1050	800		
6% GEL	800	315		
CEMENT	315	SURFACE		
6% GEL				
CEMENT				

Description of monument: 7" CASING WITH DATE AND API # WELDED ON and that the work of plugging and filling said well was completed on the 17 day of JULY, 2015.

And further deponents saith not.

Darrel Shamblin

Sworn and subscribe before me this 3 day of August, 2015

OFFICIAL SEAL
Notary Public, State Of West Virginia
BRIAN MARKS
349 Big Creek
Walton, WV 25286
My Commission Expires October 25, 2023

My commission expires: 10-25-2023

Brian Marks
Notary Public

Affidavit reviewed by the Office of Oil and Gas: _____ Title: Gas Inspector

07/28/2017

"Pipeline"

Select County: (087) Roane

Enter Permit #: 3968

Get Data | Reset

Select datatypes: (Check All)

- Location
- Production
- Plugging
- Owner/Completion
- Stratigraphy
- Sample
- Pay/Show/Water
- Logs
- Btm Hole Loc

Table Descri tio
Coun Co e Tra sla
Permit-Numbering Series
Usage Notes
Contact Infor atio
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 3968

Report Time: Tuesday, May 19, 2020 7:26:32 PM

Location Information: View Ma

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703968	Roane	3968	Smithfield	Tariff	Otter	38.656898	-81.212056	481549.4	4278724.6

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703968	5/12/1986	Original Loc	Completed	Calvin Rogers	47					Pennzoil Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT
4708703968	5/12/1986	5/7/1986	883	Ground Level	Tariff (Timn)	Big Injun (Price&eq)	Big Injun Price&eq	Development Well	Unsuccessful	Dry w/ Gas Show	Rotary	Acid+Frac	2027		2027		0	0	0	0				0	0	0

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703968	5/12/1986	Show	Gas	Vertical	1904	Big Injun (Price&eq)	1924	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703968	Pennzoil Products Company	1989	2,020	241	228	314	198	174	213	192	104	119	98	61	78
4708703968	Pennzoil Products Company	1990	1,043	59	64	82	76	64	84	86	91	119	100	124	114
4708703968	Pennzoil Products Company	1991	653	84	79	56	61	60	47	52	52	50	38	42	32
4708703968	Pennzoil Products Company	1992	318	39	30	33	32	29	33	36	22	21	19	9	15
4708703968	Pennzoil Products Company	1993	121	13	9	22	8	8	9	10	1	10	9	0	22
4708703968	Pennzoil Products Company	1994	57	4	1	0	0	0	12	10	8	6	6	2	8
4708703968	Pennzoil Products Company	1995	5	1	3	0	1	0	0	0	0	0	0	0	0
4708703968	Pennzoil Products Company	1996	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Pennzoil Products Company	1997	1	0	0	0	0	0	0	0	0	0	1	0	0
4708703968	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708703968	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708703968	Triad Resources, Inc.	2004	88	6	5	8	9	9	11	8	9	11	8	4	0
4708703968	Triad Resources, Inc.	2005	5	5	0	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Resources, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Resources, Inc.	2007	5	0	0	0	0	0	0	0	0	0	0	0	5
4708703968	Triad Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Resources, Inc.	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Hunter LLC	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Hunter LLC	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Hunter LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Hunter LLC	2014	18	0	0	0	0	3	1	2	2	3	2	3	2
4708703968	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Ground Resources LLC	2018	44	0	0	44	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703968	Pennzoil Products Company	1989	5,196	914	766	694	679	404	283	260	288	182	192	204	330
4708703968	Pennzoil Products Company	1990	3,136	247	255	222	221	249	296	284	292	326	282	226	236
4708703968	Pennzoil Products Company	1991	1,563	163	180	195	165	142	124	130	106	113	82	91	72
4708703968	Pennzoil Products Company	1992	702	75	78	73	77	79	56	54	47	26	52	44	41
4708703968	Pennzoil Products Company	1993	359	67	39	32	32	28	6	29	28	0	82	13	3
4708703968	Pennzoil Products Company	1994	206	2	0	0	37	33	28	21	20	7	27	15	16
4708703968	Pennzoil Products Company	1995	6	0	6	0	0	0	0	0	0	0	0	0	0
4708703968	Pennzoil Products Company	1996	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Pennzoil Products Company	1997	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708703968	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708703968	Triad Resources, Inc.	2004	329	31	31	31	31	30	30	22	28	24	23	21	27
4708703968	Triad Resources, Inc.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Resources, Inc.	2006	5	0	5	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Resources, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Resources, Inc.	2008	2	0	0	0	0	0	0	0	0	0	0	0	2
4708703968	Triad Resources, Inc.	2009	2	0	0	0	0	0	0	0	0	0	0	0	2
4708703968	Triad Hunter LLC	2010	2	0	0	0	0	0	0	0	0	0	0	0	2
4708703968	Triad Hunter LLC	2011	2	0	0	0	0	0	0	0	0	0	0	0	2
4708703968	Triad Hunter LLC	2012	2	0	0	0	0	0	0	0	0	0	0	0	2
4708703968	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0

3968

4708703968	Triad Hunter LLC	2016	0											
4708703968	Ground Resources, LLC	2017	0											
4708703968	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703968	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Hunter LLC	2016	0												
4708703968	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703968	Triad Hunter LLC	2016	0												
4708703968	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703968	Original Loc	Little Lime	Well Record	1720	Reasonable	43	Reasonable	883	Ground Level
4708703968	Original Loc	Big Lime	Well Record	1784	Reasonable	106	Reasonable	883	Ground Level
4708703968	Original Loc	Keener	Well Record	1890	Reasonable	10	Reasonable	883	Ground Level
4708703968	Original Loc	Big Injun Price&eq	Well Record	1900	Reasonable	24	Reasonable	883	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MORD	FRO
4708703968	0	2024		G.D.C.*	Y	N	0	2020	241	2024									241	2024	Y	Y	N							

Comment: *logs: caliper, CCL, perforation

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703968gdc.tif
4708703968[illegible].tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

58668

3968

IR-35

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date October 23, 1986
Operator's Well No. 47
Farm W. M. Looney
API No. 47 - 087 - 3968

WELL OPERATOR'S REPORT OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil X / Gas ___ / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production ___ / Underground Storage ___ / Deep ___ / Shallow ___ /)

LOCATION: Elevation: 883' Watershed Trace Fork
District: Smithfield County Roane Quadrangle Tariff 7.5'

COMPANY Pennzoil Company
ADDRESS P.O. Box 1588, Parkersburg, WV 26102
DESIGNATED AGENT James A. Crews
ADDRESS P.O. Box 1588, Parkersburg, WV 26102
SURFACE OWNER Calvin Rogers
ADDRESS Box 71, Lefthand, WV
MINERAL RIGHTS OWNER Keith Crihfield
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK Homer Dougherty ADDRESS Linden Rt., Box 3-A, Looneyville, WV
PERMIT ISSUED 3-22-86
DRILLING COMMENCED 5-7-86
DRILLING COMPLETED 5-12-86
IF APPLICABLE: DRILLING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	257	257	120 sks.
7			
5 1/2			
4 1/2	2012	2012	120 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Big Injun Depth 1900 feet
Depth of completed well 1904 feet Rotary X / Cable Tools ___
Water strata depth: Fresh N/A feet; Salt ___ feet
Coal seam depths: ___ Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Big Injun Pay zone depth 1904 feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow ___ Mcf/d Final open flow ___ Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure ___ psig (surface measurement) after ___ hours shut in
(If applicable due to multiple completion--)
Second producing formation ___ Pay zone depth ___ feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow ___ Mcf/d Oil: Final open flow ___ Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure ___ psig (surface measurement) after ___ hours shut in

(Continue on reverse side)

Roane 3968

3968

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Fractured: 6-20-86

Perforated: 1904-1923/20H

Big Injun w/250 gls. 15% HCL; 145 bbls. 20# gelled water, 1500# 20/40 sd

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand	0	40	
Silty Shale	40	120	
Sand	120	142	
Silty Shale	142	222	
Silty Sand	222	276	
Silty Shale	276	475	
Shale	475	563	
Sand	563	657	
Silty Shale	657	670	
Sand	670	694	
Silty Sand	694	716	
Shale, Sand	716	1720	
Little Lime	1720	1763	
Blue Monday	1763	1768	
Pencil Cave	1768	1784	
Big Lime	1784	1890	
Keener	1890	1900	
Big Injun	1900	1924	
Pocono Shale	1924	2027	
Total Depth		2027	

(Attach separate sheets as necessary)

Pennzoil Company
Well Operator

By: Curtis A. Lewis

Date: 10-27-86

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

WVGES GEOLOGY UNDERLIES IT ALL

"Pipeline"

Select County: (087) Roane

Enter Permit #: 3974

Get Data | Reset

Select datatypes: ☐ (Check All)

☑ Location ☑ Production ☑ Plugging
☑ Owner/Completion ☑ Stratigraphy ☑ Sample
☑ Pay/Show/Water ☑ Logs ☑ Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 3974

Report Time: Tuesday, May 19, 2020 7:41:42 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703974	Roane	3974	Smithfield	Tariff	Otter	38.655173	-81.171312	485094.3	4278636.8

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703974	4/16/2013	Plugging	Completed	Ronald L Rogers	44					Triad Hunter LLC			
4708703974	-/-/-	Original Loc	Completed	Calvin Rogers	44					Pennzoil Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FIG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	BH_P_BEF	BH_
4708703974	4/16/2013	4/16/2013	1073	Ground Level																								
4708703974	-/-/-	-/-/-						unclassified	unclassified	not available	unknown	unknown																

There is no Pay data for this well

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703974	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703974	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703974	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703974	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703974	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703974	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703974	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703974	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703974	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703974	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703974	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703974	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703974	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703974	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703974	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703974	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703974	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703974	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

There is no Stratigraphy data for this well

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703974	32	2028		G,N,D,C *	Y	N	32	2007	270	2028	270	2016	280	2022					270	2026	Y	Y	N						

Comment: *logs: caliper, bit size

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703974gdncp.tif
4708703974cl.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron–SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond

NO ORIGINAL DRILL LOG 3974

c caliper
o other[1]
p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708703974	4/16/2013	0

There is no Sample data for this well

3974

3974

WR-38
Rev. 5/08

API # 47-8703974

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: Ronald L. Rogers Operator Well No.: W.M.Looney #44

LOCATION: Elevation: 1073' Quadrangle: Tariff
District: Gary County: Roane
Latitude: _____ Feet South of ____ Deg. ____ Min. ____ Sec.
Longitude: _____ Feet West of ____ Deg. ____ Min. ____ Sec.

Northing 4278636.80
Easting 485094.30

Well Type: OIL X GAS ____

Company Triad Hunter
5669 Wall back Rd
Wallback WV. 25285

Coal Operator or Owner: NO Coal

Coal Operator or Owner: _____

Agent Tim Reaton

Permit Issued Date 3/29/2012

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

Rick Duckworth and Robert Stewart being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 16 day of April 2013 and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement	2050'	1950.	1050' of 4½"	1000' of 4½"
Cement	1100'	1000'		
Cement	800'	700'		
Cement	100'	0'		
Gel between all plugs.				

Description of monument: 7" pipe with API number. and that the work of plugging and filling said well was completed on the 16 day of April, 2013

And further deponents saith not.

Rick Duckworth
Robert Stewart

Sworn and subscribe before me this 9 day of October, 2013

My commission expires: April 12, 2021

Patricia Summers
Notary Public

Affidavit reviewed by the Office of Oil and Gas: _____ Title: Inspector

Did not witness all plugs

RECEIVED
Office of Oil and Gas
2015
WV Department of
Environmental Protection

Official Seal
Notary Public, State of West Virginia
Patricia L. Summers
675 Beer Run Rd.
Orma, WV 25268
My commission expires April 12, 2021

WVGES GEOLOGY UNDERLIES IT ALL "Pipeline"

Select County: 087 Roane
Enter Permit #: 3976
Get Data | Reset

Select datatypes: (Check All)
Location | Production | Plugging
Owner/Completion | Stratigraphy | Sample
Pay/Show/Water | Logs | Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 3976

Report Time: Tuesday, May 19, 2020 7:53:04 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703976	Roane	3976	Smithfield	Tariff	Otter	38.660501	-81.214955	481298	4279125

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703976	5/20/1986	Original Loc	Completed	James C Lloyd	46					Pennzoil Company			
4708703976	-/-/-	Plugging	Permitted	James Lloyd	46		W M Looney		T A L Collins	Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	BH
4708703976	5/20/1986	5/16/1986	1012	Ground Level	Tariff(Tlmn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2152		2152		0	0	0	0			0	0	0	0	
4708703976	-/-/-	-/-/-	972	Ground Level																							

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703976	5/20/1986	Water	Salt Water	Vertical			1850						0
4708703976	5/20/1986	Horizon	Injection	Vertical	2034	Big Injun (Price&eq)	2048	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703976	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703976	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703976	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703976	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703976	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703976	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703976	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703976	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703976	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703976	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703976	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703976	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703976	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703976	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703976	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703976	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703976	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703976	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703976	Original Loc	1st Salt Sand	Well Record	1542	Reasonable	180	Reasonable	1012	Ground Level
4708703976	Original Loc	2nd Salt Sand	Well Record	1732	Reasonable	53	Reasonable	1012	Ground Level
4708703976	Original Loc	3rd Salt Sand	Well Record	1820	Reasonable	30	Reasonable	1012	Ground Level
4708703976	Original Loc	Little Lime	Well Record	1850	Reasonable	35	Reasonable	1012	Ground Level
4708703976	Original Loc	Blue Monday	Well Record	1885	Reasonable	5	Reasonable	1012	Ground Level
4708703976	Original Loc	Pencil Cave	Well Record	1890	Reasonable	18	Reasonable	1012	Ground Level
4708703976	Original Loc	Big Lime	Well Record	1908	Reasonable	105	Reasonable	1012	Ground Level
4708703976	Original Loc	Keener	Well Record	2013	Reasonable	7	Reasonable	1012	Ground Level
4708703976	Original Loc	Big Injun (Price&eq)	Well Record	2020	Reasonable	28	Reasonable	1012	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703976	10	2150		G D C *	Y	N	10	2146	395	2150									398	2150	Y	Y	N						

Comment: *logs: caliper, CCL, perforation depth

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here
geologic log types:

3976

FILENAME
4708703976gdc.tif
4708 03976 o .tif

d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
e photoelectric adsorption (PE or Pe, etc.)
g gamma ray
i induction (includes dual induction, medium induction, deep induction, etc.)
l laterolog
m dipmeter
n neutron (includes neutron porosity, sidewall neutron–SWN, etc.)
o other[1]
s sonic or velocity
t temperature (includes borehole temperature, BHT, differential temperature, etc.)
z spontaneous potential or potential

mechanical log types:

b cement bond
c caliper
o other[1]
p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL–casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL–Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

3976

3976

R-35

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date N 25 986
Operator's
Well No. 46
Farm W. M. Looney
API No. 47 - 087 - 3976-Li

4708703976

WELL OPERATOR'S REPORT OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas ___ / Liquid Injection X / Waste Disposal ___ /
(If "Gas," Production ___ / Underground Storage ___ / Deep ___ / Shallow ___ /)

LOCATION: Elevation: 1012' Watershed Trace Fork
District: Smithfield County Roane Quadrangle Tariff 7.5'

COMPANY Pennzoil Company
ADDRESS P.O. Box 1588, Parkersburg, WV 26102
DESIGNATED AGENT James A. Crews
ADDRESS P.O. Box 1588, Parkersburg, WV 26102
SURFACE OWNER James Lloyd
ADDRESS Lefthand, WV 25251
MINERAL RIGHTS OWNER Keith Crihfield
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK Homer Dougherty ADDRESS Linden Rt., Bpx 3A, Looneyville WV
PERMIT ISSUED 4-16-86
DRILLING COMMENCED 5-16-86
DRILLING COMPLETED 5-20-86
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	415	415	200 sks
7			
5 1/2			
4 1/2	2142	2142	120 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Big Injun Depth 2020 feet
Depth of completed well 2152 feet Rotary X / Cable Tools
Water strata depth: Fresh n/a feet; Salt 1850 feet
Coal seam depths: n/a Is coal being mined in the area? no

OPEN FLOW DATA
Producing formation WIW Pay zone depth ___ feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow ___ Mcf/d Final open flow ___ Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure ___ psig (surface measurement) after ___ hours shut in
(If applicable due to multiple completion—)
Second producing formation ___ Pay zone depth ___ feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow ___ Mcf/d Oil: Final open flow ___ Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure ___ psig (surface measurement) after ___ hours shut in

Received
Office of Oil & Gas
MAR 16 2015

(Continue on reverse side)

3976

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

4708703976

Fractured: 6-23-86

Perforated: 2034-48/15H

Big Injun w/250 gls. 15% HCL, 145 bbls., 20# gelled water, 1500# 20/40 sd.

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fr and salt water, coal, oil and
Sand	0	30	
Silty Sand	30	52	
Silty Shale	52	134	
Sand	134	142	
Silty Shale	142	252	
Sand, Shale	252	1542	
1st Salt Sand	1542	1722	
Shale	1722	1732	
2nd Salt Sand	1732	1785	
Shale	1785	1820	
3rd Salt Sand	1820	1850	
Little Lime	1850	1885	
Blue Monday	1885	1890	
Pencil Cave	1890	1908	
Big Lime	1908	2013	
Keener	2013	2020	
Big Injun	2020	2048	
Pocono Shale	2048	2152	
Total Depth		2152	

Received
Office of Oil & Gas
MAR 16 2015

(Attach separate sheets if necessary)

Pennzoil Company
Well Operator

By: [signature]

Date: 11-86

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a
detailed geological record of all formations,
including, encountered in the drilling of a well."

3976

WR-38
Rev. 5/08

API # 47-87-3976-P

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: Lloyd, James Operator Well No.: W.M. Looney, #46

LOCATION: Elevation: 1012' GL Quadrangle: Tariff
District: Smithfield County: Roane
Latitude: _____ Feet South of _____ Deg. _____ Min. _____ Sec.
Longitude: _____ Feet West of _____ Deg. _____ Min. _____ Sec.

Well Type: OIL _____ GAS X water inj.

Company Triad Hunter, LLC
125 Putnam Street
Marietta, OH 45750

Coal Operator or Owner na

Coal Operator or Owner na

Agent Kim Arnold
Permit Issued Date 06/11/2015

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

Rick Duckworth and Robert Stewart being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 10th day of October 2016, and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
cement	2140'	1940'	4 1/2" 1050'	1092'
cement	1100'	960'		
cement	465'	365'		
cement	150'	0		

Description of monument: 5 1/2" pipe with API # on attached plate and that the work of plugging and filling said well was completed on the 18th day of October, 2016.

And further deponents saith not. Rick Duckworth
Robert A. Stewart

Sworn and subscribe before me this 26th day of October, 2016

My commission expires: April 13, 2024

Notary Public

OFFICIAL SEAL
Dawn R. Dobbins
Notary Public
State of West Virginia
My Commission Expires
April 13, 2024
PO Box 265
Gassaway, WV 26624

WVGES GEOLOGY UNDERLIES IT ALL "Pipeline"

Select County: (087) Roane
Enter Permit #: 3977
Get Data | Reset

Select datatypes: (Check All)
Location | Production | Plugging
Owner/Completion | Stratigraphy | Sample
Pay/Show/Water | Logs | Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Scheme
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 87 Permit = 3977

Report Time: Tuesday, May 19, 2020 7:55:46 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703977	Roane	3977	Smithfield	Tariff	Otter	38.658169	-81.213569	481418	4278866

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703977	6/9/1986	Original Loc	Completed	Harley Conley	45					Pennzoil Company			
4708703977	3/31/1995	Worked Over	Completed	James C Lloyd	45		W M Looney		Keith Crihfield	Pennzoil Products Company			
4708703977	3/26/2012	Plugging	Completed	James Lloyd	45		W M Looney			Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT
4708703977	6/9/1986	6/4/1986	1097	Ground Level	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2237		2237		0	0	0	0			0	0	0	0
4708703977	3/31/1995	3/31/1995	1097	Ground Level	Tariff(Timn)	Price Fm & equivs	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Cable Tool	unknown	2169		0		0	0	0	0			0	0	0	0
4708703977	3/26/2012	3/17/2012	1120	Ground Level																						

Comment: 3/26/2012 Plat hard to read

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703977	6/9/1986	Water	Salt Water	Vertical			1910						0
4708703977	6/9/1986	Horizon	Injection	Vertical	2121	Big Injun (Price&eq)	2138	Big Injun (Price&eq)	0	0			
4708703977	3/31/1995	Horizon	Injection	Vertical	2115	Big Injun (Price&eq)	2139	Big Injun (Price&eq)	0	0			

Production Gas Information: Volumes in Mcf * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703977	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703977	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703977	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703977	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703977	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703977	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703977	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703977	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703977	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: Volumes in Bbl ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703977	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703977	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703977	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703977	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703977	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703977	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703977	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703977	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703977	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphic Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703977	Original Loc	1st Salt Sand	Well Record	1605	Reasonable	191	Reasonable	1097	Ground Level
4708703977	Original Loc	2nd Salt Sand	Well Record	1830	Reasonable	42	Reasonable	1097	Ground Level
4708703977	Original Loc	3rd Salt Sand	Well Record	1910	Reasonable	28	Reasonable	1097	Ground Level
4708703977	Original Loc	Little Lime	Well Record	1938	Reasonable	37	Reasonable	1097	Ground Level
4708703977	Original Loc	Blue Monday	Well Record	1975	Reasonable	7	Reasonable	1097	Ground Level
4708703977	Original Loc	Pencil Cave	Well Record	1982	Reasonable	17	Reasonable	1097	Ground Level
4708703977	Original Loc	Big Lime	Well Record	1999	Reasonable	103	Reasonable	1097	Ground Level
4708703977	Original Loc	Keener	Well Record	2102	Reasonable	13	Reasonable	1097	Ground Level
4708703977	Original Loc	Big Injun (Price&eq)	Well Record	2115	Reasonable	24	Reasonable	1097	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703977	6	2237		G,D,N,C *	Y	N	6	2015	478	2237	478								478	2236	Y	Y	N						

Comment: *logs: caliper, bit size

3977

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703977gdnco.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708703977	3/26/2012	0

There is no Sample data for this well

3577

3977

R-35

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date Nov 25, 1986
Operator's
Well No. 1045
Farm W. M. Looney
API No. 47 - 0875 - 3977-Li

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas ___ / Liquid Injection X / Waste Disposal ___ /
(If "Gas," Production ___ / Underground Storage ___ / Deep ___ / Shallow ___ /)

LOCATION: Elevation: 1097' Watershed Trace Fork
District: Smithfield County Roane Quadrangle Tariff 7.5'

COMPANY Pennzoil Company
ADDRESS P.O. Box 1588, Parkersburg, WV 26102
DESIGNATED AGENT James A. Crews
ADDRESS P.O. Box 1588, Parkersburg, WV 26102
SURFACE OWNER Mr. Harley Conley
ADDRESS Box 69, Lefthand, WV
MINERAL RIGHTS OWNER Keith [illegible]eld
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK Homer Dougherty ADDRESS Linden Rt. Box 3-A, Looneyville, WV
PERMIT ISSUED 4-16-85
DRILLING COMMENCED 6-4-86
DRILLING COMPLETED 6-9-86
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	499	499	225 sks.
7			
5 1/2			
4 1/2	2224	2224	120 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Big Injun Depth 2175 feet
Depth of completed well 2237 feet Rotary X / Cable Tools
Water strata depth: Fresh n/a feet; Salt 1910 feet
Coal seam depths: n/a Is coal being mined in the area? no

OPEN FLOW DATA
Producing formation WIW Pay zone depth ___ feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow ___ Mcf/d Final open flow ___ Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure ___ psig (surface measurement) after ___ hours shut in
(If applicable due to multiple completion—)
Second producing formation ___ Pay zone depth ___ feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow ___ Mcf/d Oil: Final open flow ___ Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure ___ psig (surface measurement) after ___ hours shut in

(Continue on reverse side)

3977

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Fractured: 6-23-86

Big Injun w/250 gls. 15% HCL, 145 bbls. 20# gelled water, 1500# 20/40 sd.

Perforated: 2121-2138/18H

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Silty Shale	0	72	
Silty Sand	72	104	
Sand	104	134	
Silty Shale	134	178	
Sand, Shale	178	1605	
1st Salt Sand	1605	1796	
Shale	1796	1830	
2nd Sale Sand	1830	1872	
Shale	1872	1910	
3rd Salt Sand	1910	1938	
Little Lime	1938	1975	
Blue Monday	1975	1982	
Pencil Cave	1982	1999	
Big Lime	1999	2102	
Keener	2102	2115	
Big Injun	2115	2139	
Pocono Shale	2139	2237	
Total Depth		2237	

(Attach separate sheets as necessary)

Pennzoil Company
Well Operator

By: Curtis A Lewis

Date: 11-25-86

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

3977

WR-38
Rev. 5/08

API # 47-8703977

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: Jim Loyd Operator Well No.: 45 Wm. Looney

LOCATION: Elevation: 1097' Quadrangle: Tariff
District: Geary County: Roane
Latitude: _____ Feet South of ____ Deg. ____ Min. ____ Sec.
Longitude: _____ Feet West of ____ Deg. ____ Min. ____ Sec.
Northing 4278866.30
Easting 481418.10

Well Type: OIL X GAS ____

Company Triad Hunter
5669 Wallback Rd.
Wallback WV. 25285

Coal Operator or Owner: 710 Coal

Coal Operator or Owner: _____

Agent Tim Keaton
Permit Issued Date 5/1/12

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

Rick Duckworth and Robert Stewart being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 17 day of 03 20 12 and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
			780' of 4½"	1420 of 4½"
Cement	2190'	2070'		
Cement	1650'	1550'		
Cement	1150'	1000'		
Cement	100'	0'		

Gel between all plugs.

Description of monument: 7" pipe With API numbers. and that the work of plugging and filling said well was completed on the 26 day of March 2012

And further deponents saith not.

Rick Duckworth
Robert Stewart

Sworn and subscribe before me this 9 day of October 20 13

My commission expires: April 12, 2021

Patricia Summers
Notary Public

Affidavit reviewed by the Office of Oil and Gas: _____ Title: Inspector

Did not witness all plugs

RECEIVED
Office of Oil and Gas
WV Department of
Environmental Protection

Official Seal
Notary Public State of West Virginia
Patricia L. Summers
675 Deer Run Rd.
Orma, WV 25268
My commission expires April 12, 2021

4079

"Pipeline"

Select County: (087) Roane

Enter Permit #: 4079

Get Data | Reset

Select datatypes: (Check All)

- Location
- Production
- Plugging
- Owner/Completion
- Stratigraphy
- Sample
- Pay/Show/Water
- Logs
- Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information

WV Geological & Economic Survey:

Well: County = 087 Permit = 4079

Report Time: Tuesday, May 19, 2020 9:05:58 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708704079	Roane	4079	Smithfield	Tariff	Otter	38.656317	-81.216115	481196	4278661

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708704079	8/28/1988	Original Loc	Completed	Carl McGlothlin	48					Pennzoil Company			
4708704079	6/1/1993	Worked Over	Completed	Carl McGlothlin		48			Keith Crihfield	Pennzoil Products Company			
4708704079	-/-/-	Plugging	Permitted	David King	48		W M Looney		T A L Collins	Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF
4708704079	8/28/1988	8/24/1988	1109	Ground Level	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water injection	Rotary	Acid+Frac	2220		2220		0
4708704079	6/1/1993	5/27/1993	1109	Ground Level	Tariff(Timn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Service Well	Unsuccessful	Water injection	Cable Tool	Acid+Frac	2220		0		0
4708704079	-/-/-	-/-/-	1132	Ground Level													

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708704079	6/1/1993	Horizon	Injection	Vertical	2127	Big Injun (Price&eq)	2131	Big Injun (Price&eq)	0	0			
4708704079	8/28/1988	Horizon	Injection	Vertical	2127	Big Injun (Price&eq)	2148	Big Injun (Price&eq)	0	0			
4708704079	6/1/1993	Horizon	Injection	Vertical	2138	Big Injun (Price&eq)	2148	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708704079	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704079	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704079	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704079	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704079	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704079	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704079	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704079	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704079	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708704079	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704079	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704079	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704079	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704079	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704079	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704079	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704079	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704079	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708704079	Original Loc	1st Salt Sand	Well Record	1618	Reasonable	162	Reasonable	1109	Ground Level
4708704079	Original Loc	2nd Salt Sand	Well Record	1818	Reasonable	132	Reasonable	1109	Ground Level
4708704079	Original Loc	Little Lime	Well Record	1950	Reasonable	30	Reasonable	1109	Ground Level
4708704079	Original Loc	Pencil Cave	Well Record	1980	Reasonable	26	Reasonable	1109	Ground Level
4708704079	Original Loc	Big Lime	Well Record	2005	Reasonable	110	Reasonable	1109	Ground Level
4708704079	Original Loc	Big Injun (Price&eq)	Well Record	2116	Reasonable	33	Reasonable	1109	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5
4708704079	10	2220		G D C *	Y	N	10	2220	500	2220									10	2220	Y	Y

Comment: *logs: caliper, CCL, perforation depth

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708704079gdc.tif
4708704079gpo.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:

- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:

- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

4079

WR-35

27-Jun-88

API # 47- 87-04079

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: McGLOTHLIN, CARL Operator Well No.: W.M. LOONEY 48

LOCATION: Elevation: 1109.00 Quadrangle: TARIFF

District: SMITHFIELD County: ROANE
Latitude: 3850 Feet South of 38 Deg. 40Min. 0 Sec.
Longitude 2250 Feet West of 81 Deg. 12 Min. 30 Sec.

Company: PENNZOIL PRODUCTS COMPANY
P. O. BOX 5519
VIENNA, WV

Agent: JAMES A. CREWS

Inspector: HOMER DOUGHERTY
Permit Issued: 06/28/88
Well work Commenced: 8-24-88
Well work Completed: 8-28-88
Verbal Plugging
Permission granted on: _____
Rotary __X__ Cable _____ Rig
Total Depth (feet) 2220
Fresh water depths (ft) _____

Salt water depths (ft) _____

Is coal being mined in area (Y/N)? N
Coal Depths (ft): _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8	525	525	To surface
4-1/2	2199	2199	160 sks.

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth (ft) 2116
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow * MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours
* Water Injection Well
Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Curtis A. Lucas

For: PENNZOIL PRODUCTS COMPANY

By: Curtis A. Lucas
Date: November 7, 1988

4019

Perforations: 2127-2131; 2138-2148; - 11 holes

Frac w/250 gal. HF acid, 150 Bbls. gelled H_2O. 500# 20/40 sand.

Sand & Shale	0-104
Sand	104-148
Slate	148-170
Sand	170-470
Slate	470-778
Sand	778-905
Slate	905-970
Sand & Shale	970-1470
Sand	1470-1515
Shale	1515-1618
Salt Sand	1618-1780
Shale	1780-1818
Salt Sand	1818-1950
Little Lime	1950-1980
Pencil Cave	1980-2006
Big Lime	2006-2116
Big Injun	2116-2149
Pocono Shale	2149-2220

WR-38
Rev. 5/08

API # 47-87-4079-P

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: McGlothlin,Carl Operator Well No.: W.M.Looney #48

LOCATION: Elevation: 1109'GL Quadrangle: Tariff
District: Smithfield County: Roane
Latitude: _____ Feet South of _____ Deg. _____ Min. _____ Sec.
Longitude: _____ Feet West of _____ Deg. _____ Min. _____ Sec.

Well Type: OIL _____ GAS water inj.

Company Triad Hunter,LLC
125 Putnam Street
Marietta,Ohio 45750

Agent Kim Arnold
Permit Issued Date 06-11-2015

Coal Operator or Owner N/A

Coal Operator or Owner N/A

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

Rick Duckworth and Robert Stewart being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 1st. day of November 2016, and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
cement	2150'	1950'	1090 4 1/2	1109'
cement	1090'	990'		
cement	575'	475'		
cement	150'	0		

Description of monument: 5 1/2 pipe with API# on attached plate and that the work of plugging and filling said well was completed on the 4th. day of November, 2016.

And further deponents saith not.

Rick Duckworth

Robert R. Stewart

Sworn and subscribe before me this 3rd day of November, 2016

My commission expires: April 13 2024

Notary Public

OFFICIAL SEAL
Dawn R. Dobbins
Notary Public
State of West Virginia
My Commission Expires
April 13, 2024
PO Box 265
Gassaway, WV 26624

WVGES GEOLOGY UNDERLIES IT ALL

"Pipeline"

Select County: (087) Roane

Enter Permit #: 4080

Get Data | Reset

Select datatypes: (Check All)

- Location
- Production
- Plugging
- Owner/Completion
- Stratigraphy
- Sample
- Pay/Show/Water
- Logs
- Btm Hole Loc

Table Descriptions
County Code Translation
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 4080

Report Time: Tuesday, May 19, 2020 8:17:00 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708704080	Roane	4080	Smithfield	Tariff	Otter	38.657615	-81.215832	481221	4278805

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708704080	9/1/1988	Original Loc	Completed	Carl McGlothlin	49					Pennzoil Company			
4708704080	6/1/1993	Worked Over	Completed	James C Lloyd		49			Keith Crihfield	Pennzoil Products Company			
4708704080	6/20/2017	Plugging	Completed	James Lloyd	49		W M Looney		T A L Collins	Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AF
4708704080	9/1/1988	8/26/1988	1215	Ground Level	Tariff(Tlmn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2306		2306		0	0	0	0			0	0	0	
4708704080	6/1/1993	5/27/1993	1215	Ground Level	Tariff(Tlmn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Cable Tool	Acid+Frac	2306		0		0	0	0	0			0	0	0	
4708704080	6/20/2017	6/13/2017	1209	Ground Level																						

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708704080	6/1/1993	Horizon	Injection	Vertical	2230	Big Injun (Price&eq)	2236	Big Injun (Price&eq)	0	0			
4708704080	9/1/1988	Horizon	Injection	Vertical	2230	Big Injun (Price&eq)	2257	Big Injun (Price&eq)	0	0			
4708704080	6/1/1993	Horizon	Injection	Vertical	2246	Big Injun (Price&eq)	2257	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708704080	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704080	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704080	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704080	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704080	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704080	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704080	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704080	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704080	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708704080	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704080	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704080	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704080	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704080	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704080	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704080	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704080	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704080	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708704080	Original Loc	1st Salt Sand	Well Record	1743	Reasonable	167	Reasonable	1215	Ground Level
4708704080	Original Loc	2nd Salt Sand	Well Record	1982	Reasonable	73	Reasonable	1215	Ground Level
4708704080	Original Loc	Little Lime	Well Record	2055	Reasonable	31	Reasonable	1215	Ground Level
4708704080	Original Loc	Pencil Cave	Well Record	2086	Reasonable	28	Reasonable	1215	Ground Level
4708704080	Original Loc	Big Lime	Well Record	2114	Reasonable	112	Reasonable	1215	Ground Level
4708704080	Original Loc	Big Injun (Price&eq)	Well Record	2226	Reasonable	33	Reasonable	1215	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708704080	150	2308		G D C *	Y	N	150	2298	450	2306									450	2308	Y	Y	N						

Comment: *logs: caliper, CCL, perforation

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here
geologic log types:

4080

FILENAME
4708704080_d_tif
4708704080_o.tif

d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
e photoelectric adsorption (PE or Pe, etc.)
g gamma ray
i induction (includes dual induction, medium induction, deep induction, etc.)
l laterolog
m dipmeter
n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
o other[1]
s sonic or velocity
t temperature (includes borehole temperature, BHT, differential temperature, etc.)
z spontaneous potential or potential

mechanical log types:

b cement bond
c caliper
o other[1]
p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708704080	6/20/2017	0

There is no Sample data for this well

A-35

4080

27-Jun-88

API # 47- 87-04080

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

4708704080

Well Operator's Report of Well Work

Farm name: McGLOTHLIN, CARL Operator Well No.: W.M. LOONEY 49

LOCATION: Elevation: 1215.00 Quadrangle: TARIFF

District: SMITHFIELD County: ROANE
Latitude: 3300 Feet South of 38 Deg. 40Min. 0 Sec.
Longitude 2200 Feet West of 81 Deg. 12 Min. 30 Sec.

Company: PENNZOIL PRODUCTS COMPANY
P. O. BOX 5519
VIENNA, WV

Agent: JAMES A. CREWS

Inspector: HOMER DOUGHERTY
Permit Issued: 06/28/88
Well work Commenced: 8-26-88
Well work Completed: 9-1-88
Verbal Plussing
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 2306
Fresh water depths (ft) _____
Salt water depths (ft) _____
Is coal being mined in area (Y/N)? N
Coal Depths (ft): _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8	655	655	To surface
4-1/2	2291	2291	160 sks.

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth (ft) 2226
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow * MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours
* Water Injection Well
Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Received
Office of Oil & Gas
MAR 16 2015

For: PENNZOIL PRODUCTS COMPANY
By: Curtis A. Lucas
Date: November 15, 1988

4080

4708704080

Perforations: 2230-2236; 2246-2257

Frac w/250 gal. HF acid, 150 Bbls. gelled H_2O, 1500# 20/40 sand.

87-4080

Sand	0-100
Shale	100-217
Sand	217-253
Slate	253-570
Sand	570-600
Slate	600-900
Sand & Shale	900-1743
Salt Sand	1743-1910
Shale	1910-1982
Salt Sand	1982-2055
Little Lime	2055-2086
Pencil Cave	2086-2114
Big Lime	2114-2226
Big Injun	2226-2259
Pocono Shale	2259-2306

Received
Office of Oil & Gas
MAR 16 2015

4080

WR-38
Rev. 5/08

API # 47-87-4080-P

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: McGlothlin, Carl Operator Well No.: WM Looney 49

LOCATION: Elevation: 1215' GL Quadrangle: Tariff
District: Smithfield County: Roane
Latitude: 3300 Feet South of 38 Deg. 40 Min. 0 Sec.
Longitude: 2200 Feet West of 81 Deg. 12 Min. 30 Sec.

Well Type: OIL _____ GAS water inj

Company Triad Hunter, LLC
125 Putnam Street
Marietta, OH 45750

Coal Operator or Owner na

Agent Kim Arnold

Coal Operator or Owner na

Permit Issued Date 06/11/2015

RECEIVED
Office of Oil and Gas
JUL 12 2017
WV Department of
Environmental Protection

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

Rick Duckworth and Robert Stewart being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 13th day of June 2017, and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
cement	2290'	2090'	1200' of 4 1/2 inch	1091'
cement	1250'	1150'		
cement	705'	605'		
cement	150'	0		

Description of monument: 5 1/2" pipe with API on attached plate and that the work of plugging and filling said well was completed on the 20th day of June 2017.

And further deponents saith not. Rick Duckworth
Robert A. Stewart

Sworn and subscribe before me this 9th day of July 2017

My commission expires: April 13, 2024

Notary Public

OFFICIAL SEAL
Dawn R. Dobbins
Notary Public
State of West Virginia
My Commission Expires
April 13, 2024
PO Box 265
Gassaway, WV 26624

Affidavit reviewed by the Office of Oil and Gas: _____ Title: OOG Inspector
7-11-17

WVGES
GEOLOGY UNDERLIES IT ALL
"Pipeline"

Select County: (087) Roane
Enter Permit #: 4168
Get Data | Reset

Select datatypes: (Check All)
- Location
- Owner/Completion
- Pay/Show/Water
- Production
- Stratigraphy
- Logs
- Plugging
- Sample
- Btm Hole Loc

Table Descriptions
County Code Translation
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 87 Permit = 4168

Report Time: Tuesday, May 19, 2020 8:17:22 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708704168	Roane	4168	Smithfield	Tariff	Otter	38.659073	-81.21816	481018.8	4278967.3

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708704168	10/24/1991	Original Loc	Completed	James C Lloyd		51			Keith Crihfield	Pennzoil Products Company			
4708704168	-/-/-	Worked Over	Permitted	James Lloyd	51		W M Looney		Triad Hunter LLC et al	Triad Hunter LLC	2240	Big Injun (Price&eq)	

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	OD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	F_AFT	TI_AFT	BH_
4708704168	10/24/1991	8/16/1991	1115	Ground Level	Tariff(Timn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil	Rotary	Acid+Frac	2240		2240		0	0	0	0			0	0	0	0	
4708704168	-/-/-	-/-/-	1115	Ground Level																							

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708704168	10/24/1991	Pay	Oil	Vertical	2113	Big Injun (Price&eq)	2142	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708704168	Pennzoil Products Company	1992	364	0	57	60	50	37	37	41	30	14	18	14	6
4708704168	Pennzoil Products Company	1993	92	5	4	7	4	7	8	12	6	14	11	9	5
4708704168	Pennzoil Products Company	1994	86	8	6	4	7	7	7	6	6	11	13	10	11
4708704168	Pennzoil Products Company	1995	725	22	97	197	142	33	24	126	0	58	7	8	11
4708704168	Pennzoil Products Company	1996	92	10	7	5	5	5	7	11	2	11	10	9	10
4708704168	Pennzoil Products Company	1997	38	13	9	6	0	3	6	1	0	0	0	0	0
4708704168	Pennzoil Products Company	1998	53	0	0	1	6	6	4	7	9	10	10	0	0
4708704168	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708704168	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708704168	Triad Resources, Inc.	2004	88	6	5	8	9	9	11	8	9	11	8	4	0
4708704168	Triad Resources, Inc.	2005	101	9	6	12	2	3	7	8	12	9	12	12	9
4708704168	Triad Resources, Inc.	2006	93	10	8	6	6	8	8	8	8	8	8	8	7
4708704168	Triad Resources, Inc.	2007	62	8	7	7	5	2	2	6	6	6	4	5	4
4708704168	Triad Resources, Inc.	2008	74	5	4	4	4	4	5	4	3	7	8	12	14
4708704168	Triad Resources, Inc.	2009	34	8	3	2	2	5	5	3	0	3	1	1	1
4708704168	Triad Hunter LLC	2010	39	6	2	3	3	3	5	5	4	3	3	2	0
4708704168	Triad Hunter LLC	2011	11	1	1	1	1	0	3	1	1	1	1	0	0
4708704168	Triad Hunter LLC	2012	15	1	1	1	2	2	2	1	2	2	1	0	0
4708704168	Triad Hunter LLC	2013	12	1	1	1	1	1	1	1	1	1	1	1	1
4708704168	Triad Hunter LLC	2014	8	1	1	1	0	1	0	1	0	1	1	1	0
4708704168	Triad Hunter LLC	2015	6	0	0	0	1	3	1	1	0	0	0	0	0
4708704168	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704168	Ground Resources, LLC	2017	218	0	0	0	0	0	0	49	43	37	34	22	33
4708704168	Ground Resources, LLC	2018	249	0	0	44	0	28	23	0	25	33	36	32	28

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708704168	Pennzoil Products Company	1992	935	159	141	106	103	111	92	43	58	51	26	21	24
4708704168	Pennzoil Products Company	1993	437	27	24	39	34	39	48	57	44	37	25	32	31
4708704168	Pennzoil Products Company	1994	465	27	31	34	30	30	28	57	58	43	48	46	33
4708704168	Pennzoil Products Company	1995	599	56	47	38	33	36	53	41	44	61	65	50	75
4708704168	Pennzoil Products Company	1996	452	39	38	37	28	32	36	27	34	35	37	60	49
4708704168	Pennzoil Products Company	1997	176	41	39	41	39	16	0	0	0	0	0	0	0
4708704168	Pennzoil Products Company	1998	367	33	38	44	37	33	32	37	34	37	42	0	0
4708704168	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708704168	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708704168	Triad Resources, Inc.	2004	329	31	31	31	31	30	30	22	28	24	23	21	27
4708704168	Triad Resources, Inc.	2005	1,218	108	71	82	97	81	124	95	97	110	144	116	93
4708704168	Triad Resources, Inc.	2006	1,243	68	99	106	126	67	85	106	96	136	97	118	139
4708704168	Triad Resources, Inc.	2007	1,448	118	139	92	160	115	134	117	125	104	117	107	120
4708704168	Triad Resources, Inc.	2008	1,501	115	157	79	141	103	70	123	126	175	155	100	157
4708704168	Triad Resources, Inc.	2009	983	41	0	91	134	117	94	84	83	70	106	92	71
4708704168	Triad Hunter LLC	2010	476	101	14	79	15	14	90	14	15	99	14	21	0
4708704168	Triad Hunter LLC	2011	975	72	97	82	69	84	81	77	82	83	89	95	64
4708704168	Triad Hunter LLC	2012	834	49	63	54	40	68	101	37	109	78	84	65	86
4708704168	Triad Hunter LLC	2013	874	81	85	95	67	80	94	48	69	50	56	70	79
4708704168	Triad Hunter LLC	2014	810	61	53	69	69	71	64	57	83	73	60	73	77
4708704168	Triad Hunter LLC	2015	676	75	42	29	71	56	75	56	28	61	42	100	41
4708704168	Triad Hunter LLC	2016	218					33	22	24	33	23	33	26	22
4708704168	Ground Resources, LLC	2017	326	32	18	31	31	25	27	30	22	25	35	28	22
4708704168	Ground Resources, LLC	2018	313	20	23	22	29	28	30	21	23	20	37	32	28

9166

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708704168	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704168	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704168	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704168	Triad Hunter LLC	2016	0												
4708704168	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708704168	Triad Hunter LLC	2016	0												
4708704168	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708704168	Original Loc	Salt Sands (undiff)	Well Record	1610	Reasonable	320	Reasonable	1115	Ground Level
4708704168	Original Loc	Little Lime	Well Record	1945	Reasonable	35	Reasonable	1115	Ground Level
4708704168	Original Loc	Pencil Cave	Well Record	1980	Reasonable	20	Reasonable	1115	Ground Level
4708704168	Original Loc	Big Lime	Well Record	2000	Reasonable	110	Reasonable	1115	Ground Level
4708704168	Original Loc	Big Injun (Price&eq)	Well Record	2110	Reasonable	32	Reasonable	1115	Ground Level
4708704168	Original Loc	Undf PRICE btw INJN	Well Record	2142	Reasonable	0	Reasonable	1115	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH6	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708704168	30	2233		G,I,N,D,C	Y	N	30	2218	504	2222	504	2232	504	2224					504	2233	Y	Y	N						

Comment: *logs: caliper

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
470870416 dinc.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:

- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron–SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:

- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL–casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL–Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

4168

WR-35

RECEIVED
JAN 29 92
Division of Energy
Oil and Gas Section

4168

02-Jul-91
API # 47- 87-04168

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

Reviewed TMG
Recorded

Well Operator's Report of Well Work

Farm name: LLOYD, JAMES C. ETAL. Operator Well No.: W.M. LOONEY #51

LOCATION: Elevation: 1115.00 Quadrangle: TARIFF

District: SMITHFIELD County: ROANE
Latitude: 2800 Feet South of 38 Deg. 40Min. 0 Sec.
Longitude 2850 Feet West of 81 Deg. 12 Min. 30 Sec.

Company: PENNZOIL PRODUCTS COMPANY
P. O. BOX 5519
VIENNA, WV 26105-5519

Agent: JAMES A. CREWS

Inspector: HOMER DOUGHERTY
Permit Issued: 07/02/91
Well work Commenced: 8/16/91
Well work Completed: 10/24/91
Verbal Plugging
Permission granted on:
Rotary X Cable Rig
Total Depth (feet) 2240
Fresh water depths (ft) N/A

Salt water depths (ft) N/A

Is coal being mined in area (Y/N)? N
Coal Depths (ft): N/A

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
8 5/8"	517.65'	517.65'	410 Sks.
4 1/2"	2219.97'	2219.97'	150 Sks.

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth (ft) 2110-2142
Gas: Initial open flow - - MCF/d Oil: Initial open flow - - Bbl/d
Final open flow - - MCF/d Final open flow Show Bbl/d
Time of open flow between initial and final tests - - Hours
Static rock Pressure N/A psig (surface pressure) after - - Hours

Second producing formation Pay zone depth (ft)
Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d
Final open flow MCF/d Final open flow Bbl/d
Time of open flow between initial and final tests Hours
Static rock Pressure psig (surface pressure) after Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: PENNZOIL PRODUCTS COMPANY

By: Timothy P. Roush
Date: January 21, 1992

ROANE 4168

4168

FRACTURE RECORD

PERFORATED: Big Injun 2113-2142 with 21 holes

FRACTURED: Big Injun w/250 gal. regular HF Acid, 157 bbl. gelled water, 1500# 20/40 sand

WELL LOG

0 - 110	Sandy Shale
110 - 150	Sand
150 - 785	Sandy Shale
785 - 945	Sand
945 - 985	Shale
985 - 1135	Sand
1135 - 1205	Shale
1205 - 1245	Sand
1245 - 1300	Shale
1300 - 1365	Sand
1365 - 1610	Shaley Sand
1610 - 1930	Salt Sand
1930 - 1945	Shale
1945 - 1980	Little Lime
1980 - 2000	Pencil Cave
2000 - 2110	Big Lime
2110 - 2142	Big Injun
2142 - 2240	Pocono Shale
T.D. = 2240	

2/3/2

"Pipeline"

Select County: 087 Roane

Enter Permit #: 4421

Get Data | Reset

Select datatypes: (Check All)

- Location
- Owner/Completion
- Pay/Show/Water
- Production
- Stratigraphy
- Logs
- Plugging
- Sample
- Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Number Search
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 4421

Report Time: Tuesday, May 19, 2020 8:32:52 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708704421	Roane	4421	Smithfield	Tariff	Otter	38.565349	-81.212426	481518.3	4279207.5

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708704421	11/2/2004	Original Loc	Completed	Wm M Looney		200410	Anthony Hofstad		Keith Crihfield	Triad Resources Inc.	5900	Devonian Sh	

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	BH_P_BEF	BH
4708704421	11/2/2004	10/26/2004	1084	Ground Level	Tariff Timn	Onondaga Ls	Marcellus Fm	Development Well	Development Well	Gas	Rotary	Acid+Frac	5920		5920			20							400	96		

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708704421	11/2/2004	Water	Salt Water	Vertical			715						
4708704421	11/2/2004	Pay	Gas	Vertical	5053	Alexander	5058	Alexander					
4708704421	11/2/2004	Pay	Gas	Vertical	5199	Alexander	5204	Alexander					
4708704421	11/2/2004	Pay	Gas	Vertical	5486	Sonyea Fm	5491	Sonyea Fm					
4708704421	11/2/2004	Pay	Gas	Vertical	5694	Genesee Fm	5699	Genesee Fm					
4708704421	11/2/2004	Pay	Gas	Vertical	5796	Marcellus Fm	5801	Marcellus Fm					
4708704421	11/2/2004	Pay	Gas	Vertical	5872	Marcellus Fm	5876	Marcellus Fm					

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708704421	Triad Resources, Inc.	2005	2,398	375	356	229	173	241	189	145	183	162	120	134	91
4708704421	Triad Resources, Inc.	2006	756	82	81	85	78	81	75	77	74	69	54	0	0
4708704421	Triad Resources, Inc.	2007	796	59	35	84	88	85	74	76	45	67	70	72	41
4708704421	Triad Resources, Inc.	2008	853	89	61	63	78	64	75	78	86	95	75	42	47
4708704421	Triad Resources, Inc.	2009	588	102	78	128	50	25	55	0	0	0	0	150	0
4708704421	Triad Hunter LLC	2010	2,402	101	186	215	161	236	341	311	320	132	257	142	0
4708704421	Triad Hunter LLC	2011	444	98	70	71	31	9	2	3	8	8	54	83	7
4708704421	Triad Hunter LLC	2012	540	43	49	57	63	76	55	56	55	60	26	0	0
4708704421	Triad Hunter LLC	2013	127	5	6	13	11	15	20	16	9	14	6	8	4
4708704421	Triad Hunter LLC	2014	161	7	4	5	4	20	31	24	28	23	9	4	1
4708704421	Triad Hunter LLC	2015	28	0	0	0	0	0	14	14	0	0	0	0	0
4708704421	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704421	Ground Resources, LLC	2017	92	0	0	0	0	0	0	0	0	0	0	0	92
4708704421	Ground Resources LLC	2018	302	85	69	85	63	3	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708704421	Triad Resources, Inc.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704421	Triad Resources, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704421	Triad Resources, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704421	Triad Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704421	Triad Resources, Inc.	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704421	Triad Hunter LLC	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704421	Triad Hunter LLC	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704421	Triad Hunter LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704421	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704421	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704421	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704421	Triad Hunter LLC	2016	216					33	22	24	33	23	33	26	22
4708704421	Ground Resources, LLC	2017	0												
4708704421	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708704421	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704421	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704421	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704421	Triad Hunter LLC	2016	0												
4708704421	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708704421	Triad Hunter LLC	2016	0												
4708704421	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM

4421

4708704421	Original Loc	Little Lime	Well Record	1950	Reasonable	40	Reasonable	1084	Ground Level
4708704421	Original Loc	Pencil Cave	Well Record	1980	Reasonable	15	Reasonable	1084	Ground Level
4708704421	Original Loc	Big Lime	Well Record	2005	Reasonable	105	Reasonable	1084	Ground Level
4708704421	Original Loc	Big Injun (undiff)	Well Record	2110	Reasonable	36	Reasonable	1084	Ground Level
4708704421	Original Loc	Sunbury Sh	Well Record	2498	Reasonable	22	Reasonable	1084	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708704421	954	5925		G C D I *		N	954	5883	2182	5914	2182	5900	2188	5919	2172	5925			2182	5925	N	Y				1094	1084	1063	109

Comment: *logs: differential temperature, caliper, bit size, tension, gas detector, PE, density porosity, matrix density, density correction, perforations, amp, TT, CCL, VDL.

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708704421gbpo.tif
4708704421gcio.tif
4708704421gondteo.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

4421

WR-35

DATE: APRIL 6, 2005
API #: 47-087-04421

4421

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: LOONEY Operator Well No.: 200410

LOCATION: Elevation: 1084 Quadrangle: TARIFF

District: SMITHFIELD County: ROANE
Latitude: 2,025 Feet South of 38 Deg. 40 Min. 00 Sec.
Longitude 1,225 Feet West of 81 Deg. 12 Min. 30 Sec.

Company: TRIAD RESOURCES, INC

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: P.O. BOX 430				
REND OHIO 45773	13"	31'	31'	
Agent: KIMBERLY ARNOLD				
Inspector: ED GAINER	9 5/8"	254'	214'	C.T.S
Date Permit Issued: 9/15/04				
Date Well Work Commenced: 10/26/04	7"	2261'	2210'	C.T.S.
Date Well Work Completed: 11/2/04				
Verbal Plugging:	4 1/2"	5920'	5904	283.4
Date Permission granted on:				CU. FT.
Rotary X Cable Rig				
Total Depth (feet): 5920				
Fresh Water Depth (ft.): NONE				
Salt Water Depth (ft.): 715'				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): N/A				

OPEN FLOW DATA

Producing formation DEVONIAN SHALE Pay zone depth (ft) 5486'-5[illegible]
Gas: Initial open flow - MCF/d Oil: Initial open flow - Bbl/d
Final open flow - MCF/d Final open flow - Bbl/d
Time of open flow between initial and final tests - Hours
Static rock Pressure - psig (surface pressure) after - Hours

RECEIVED
[illegible] Gas
MAY 0 3 2005
WV D[illegible]
Environmen[illegible]

Second producing formation ALEXANDER Pay zone depth (ft) 5053'-5204'
Gas: Initial open flow - MCF/d Oil: Initial open flow - Bbl/d
Final open flow 20 MCF/d Final open flow - Bbl/d
Time of open flow between initial and final tests Hours
Static rock Pressure 400 psig (surface pressure) after 96 Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed: Rocky Roberts ROCKY ROBERTS
By: VICE PRES. EXPLORATION & DEVELOPMENT
Date: APRIL 6, 2005

1277

PERFORATIONS

5053' - 5058'	20	HOLES	0.39" HSC
5199' - 5204'	20	HOLES	0.39" HSC
5486' - 5491'	20	HOLES	0.39" HSC
5694' - 5699'	20	HOLES	0.39" HSC
5796' - 5801'	20	HOLES	0.39" HSC
5876' - 5872'	24	HOLES	0.39" HSC

FRACTURE TREATMENT

1ST STAGE

580 GAL 15% HCl
256 BBL TREATED WATER
650,000 SCF N_2
16,200 - lbs 20/40 SAND

BREAKDOWN: 2829 PSIG
AVG PRESS: 3647 PSIG
AVG. RATE: 9.5 b.p.m.
ISIP: 3927 PSIG
5-MIN SIP: N/A

2ND STAGE

1500 GAL 15% HCl
313 BBL WATER
878,800 SCF N_2
61,400 - lb 20/40 SAND

BREAKDOWN: 3600 PSIG
AVG PRESS: 2559 PSIG
AVG RATE: 8.7 b.p.m
ISIP: 1458 PSIG
5-MIN SIP: 1357 PSIG

FORMATIONS

SALT SANDS	976' - 1874'
LITTLE LIME	1950' - 1990'
PENCIL CAVE	1990' - 2005'
BIG LIME	2005' - 2110'
BIG INJUN	2110' - 2146'
COFFEE SHALE	2498' - 2520'
DEVONIAN SHALE	2520' - 5920'

4421

PHOTO DENSITY
COMPENSATED NEUTRON
ULTRASONIC GAS DETECTOR

ALLEGHENY WIRELINE SERVICES, INC.

COMPANY	Triad Resources Inc.
WELL	Wm. M. Looney #200410
FIELD	Tariff 7.5' Quadrangle
PROVINCE/COUNTY	Smithfield / Roane
COUNTRY/STATE	Usa / West Virginia
LOCATION	Latitude 2,025' South of 38°40'00"
	Longitude 1,225' West of 81°12'30"

LSD	SEC	TWP	RGE	Other Services
				ARRAY INDUCTION

API Number 47-087-04421
Permit Number 04121

Perm. Datum G.L. , Elevation 1084 feet
Log M[illegible] From K.B. 10 Ft above Permanent Datum
Drilling [illegible]asured From K.B.

Elevations:
KB 1094.00 feet
DF 1063.00 feet
GL 1084.00 feet

Da[illegible]	02-Nov-2004	
[illegible] Number	1	
Depth Driller	5920.00	feet
Depth Logger	[illegible]	feet
First Reading	[illegible]920.00	feet
Last Reading	0.00	feet
Casing Driller	2220.00	feet
Casing Logger	2182.00	feet
Bit Size	6.25	inches
Hole Fluid Type	None	
Density / Viscosity		
PH / Fluid Loss		
Sample Source		
Rm @ Measured Temp		
Rmf @ Measured Temp		
Rmc @ Measured Temp		
Source Rmf / R[illegible]		
Rm @ BHT		
Time Since Circulation	4.5 Hrs.	
Max Recorded Temp	124.00	deg F
Equipment Name	Compact	
Equipment / Base	268	Dunbar
Recorded By	S. Pete	
Witnessed By	Mr. Kesterson	Mr. Roberts
Field Ticket	26364	

BOREHOLE RECORD

Bit Size inches	Depth From feet	Depth To feet
12.375	0.000	223.983
8.875	223.983	2219.980
6.250	2219.980	5919.980

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
	9.625	0.000	223.983	0.00
	7.000	0.000	2219.980	0.00

REMARKS

Fluid Density 1.0 G/CC
Matrix Density 2.71 From TD to Casing
Watershed Trace Fork

At Customer Request No Gamma Ray To Surface Needed
Thank You For Using Allegheny Wireline Services

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.

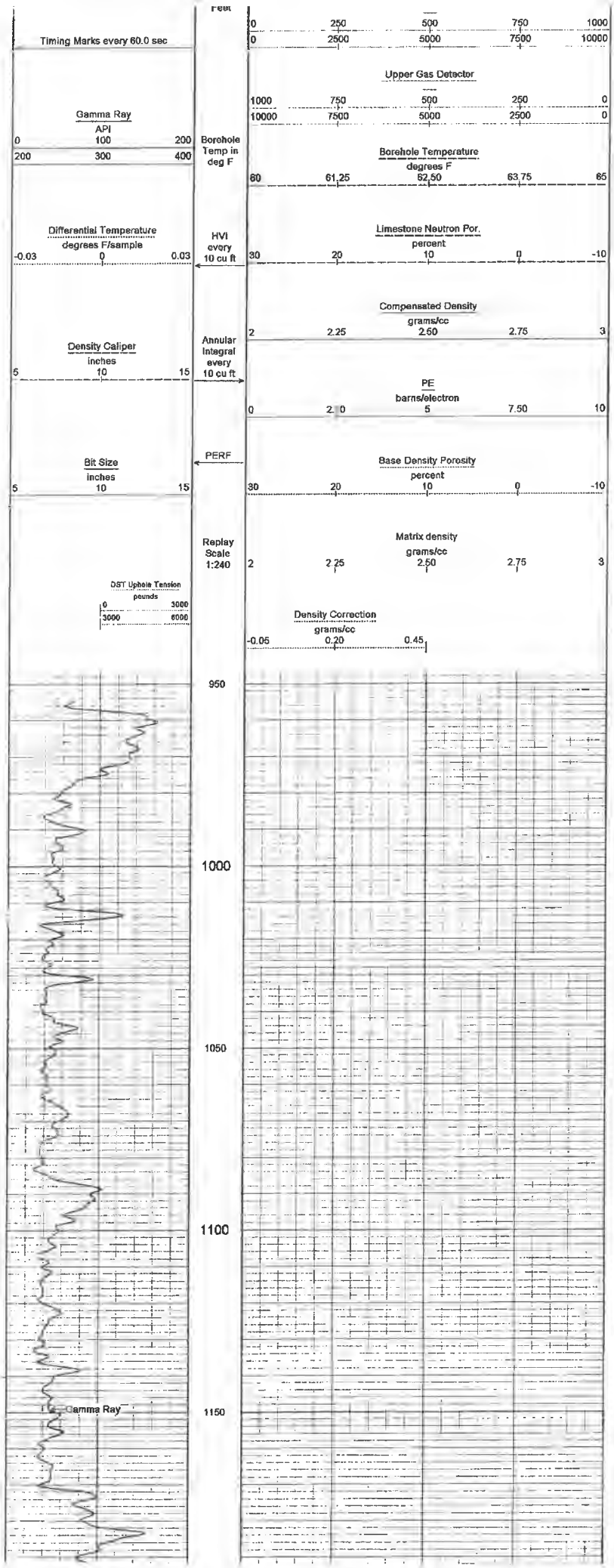
MAIN LOG

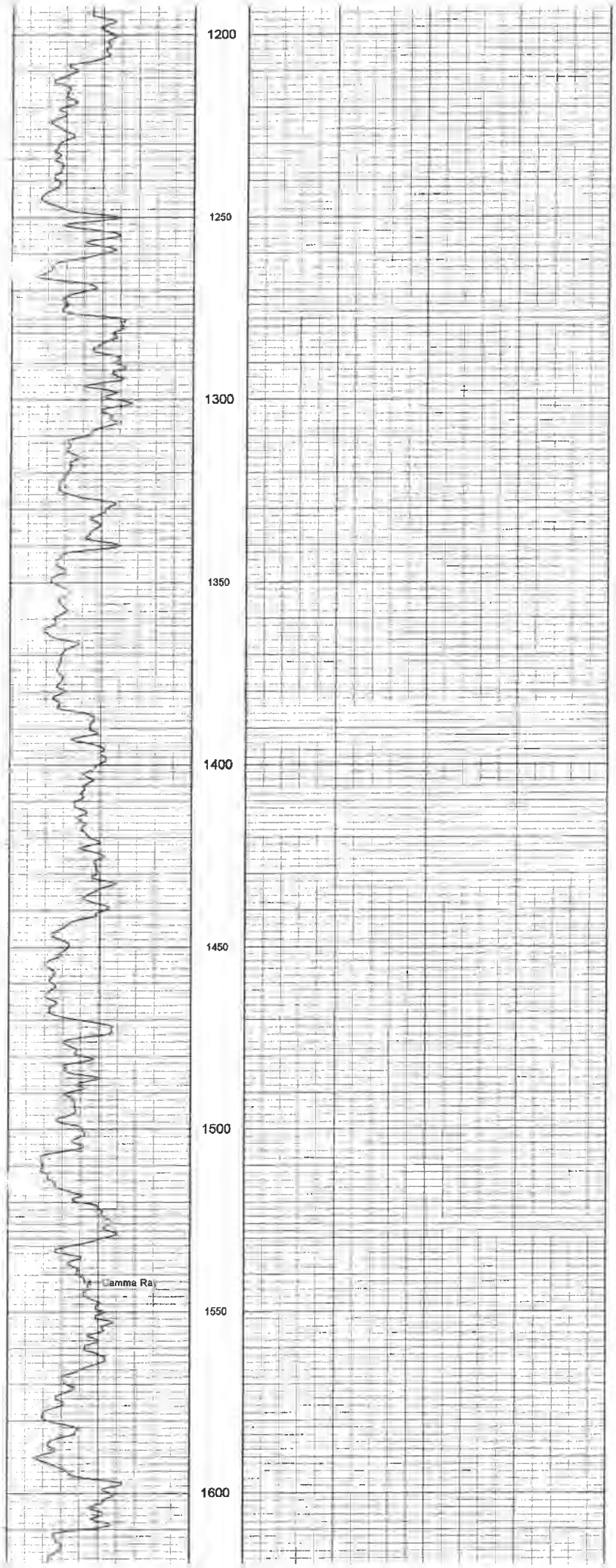
Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\Minimus\Pete\11 02 04 TRI Looney 200410\Up_002.dta
System Configuration Dates: Logged 09-SEP-2003; Processed 09-SEP-2003; Plotted 25-JUN-2003.

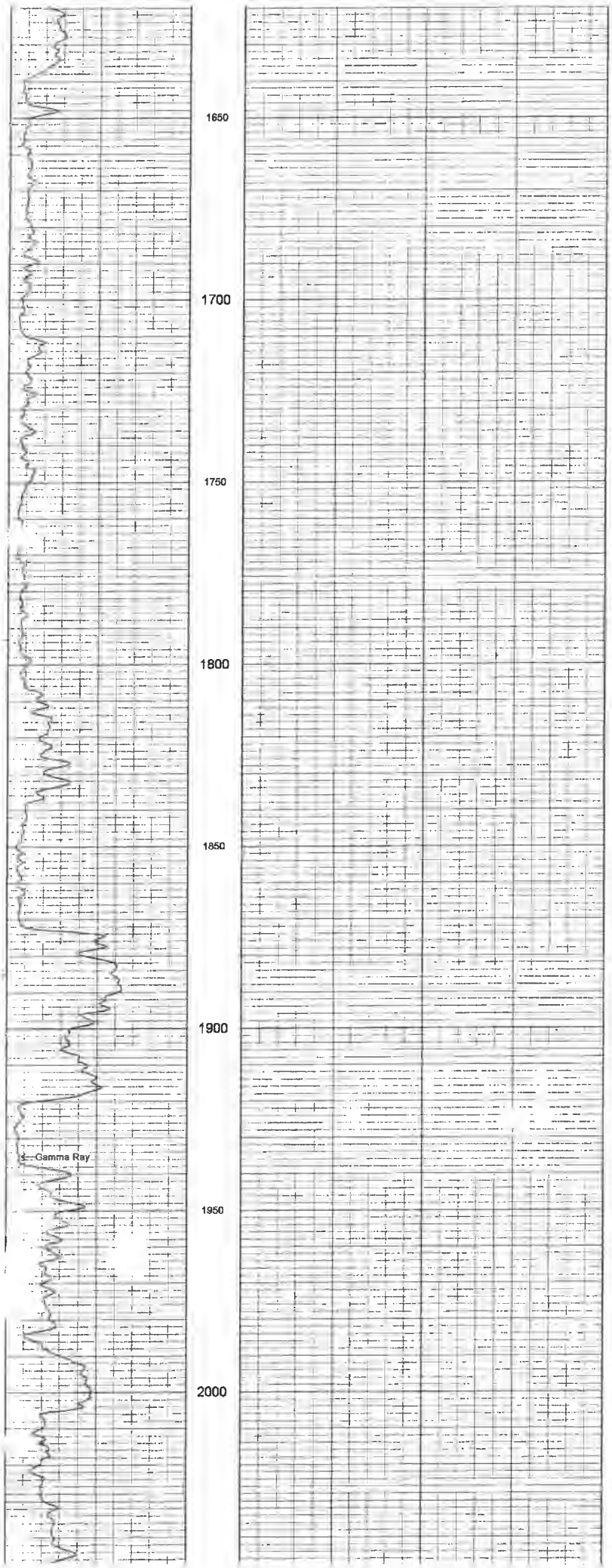
Plotted on 02-NOV-2004 10:29
Recorded on 02-NOV-2004 07:54

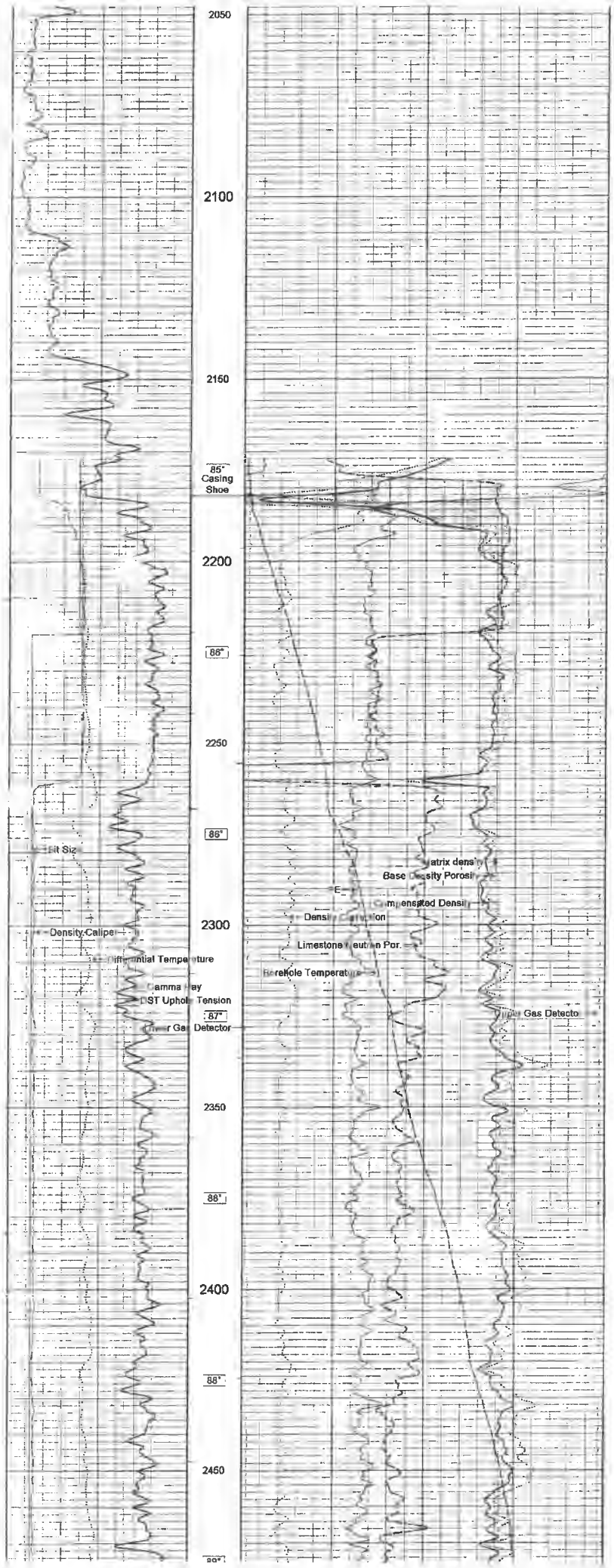
Depth In

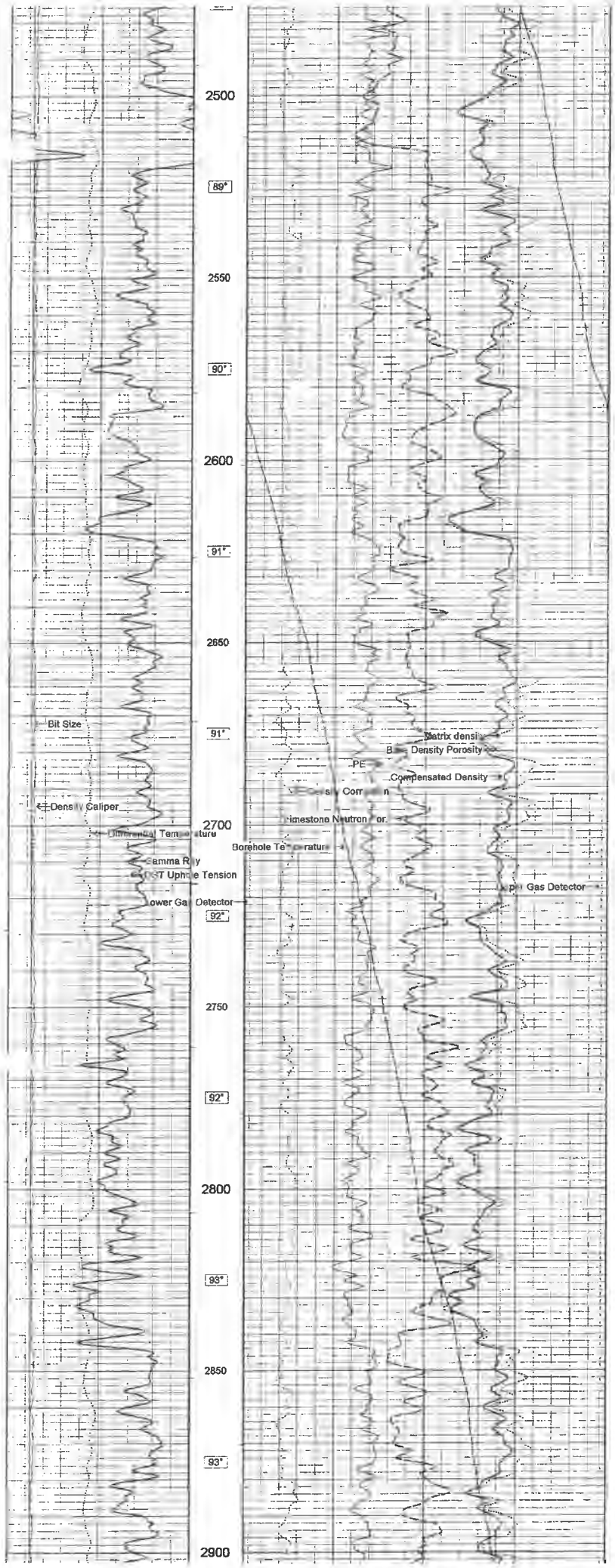
Lower Gas Detector

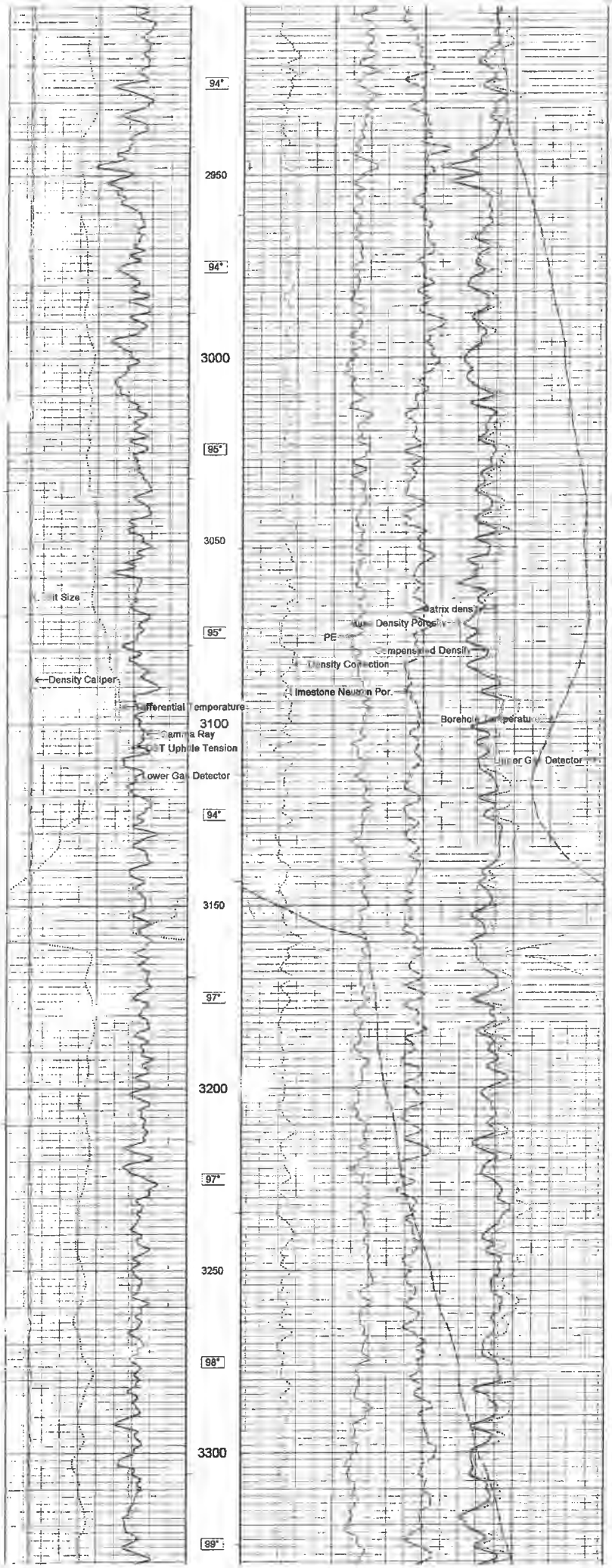

Feet
Timing Marks every 60.0 sec
Gamma Ray
API
0 100 200
200 300 400
Differential Temperature
degrees F/sample
-0.03 0 0.03
Density Caliper
inches
5 10 15
Bit Size
inches
5 10 15
DST Uphole Tension
pounds
0 3000
3000 6000
Borehole Temp in deg F
HVI every 10 cu ft
Annular Integral every 10 cu ft
PERF
Replay Scale 1:240
950
1000
1050
1100
1150
Gamma Ray
0 250 500 750 1000
0 2500 5000 7500 10000
Upper Gas Detector
1000 750 500 250 0
10000 7500 5000 2500 0
Borehole Temperature
degrees F
60 61.25 62.50 63.75 65
Limestone Neutron Por.
percent
30 20 10 0 -10
Compensated Density
grams/cc
2 2.25 2.50 2.75 3
PE
barns/electron
0 2.50 5 7.50 10
Base Density Porosity
percent
30 20 10 0 -10
Matrix density
grams/cc
2 2.25 2.50 2.75 3
Density Correction
grams/cc
-0.05 0.20 0.45

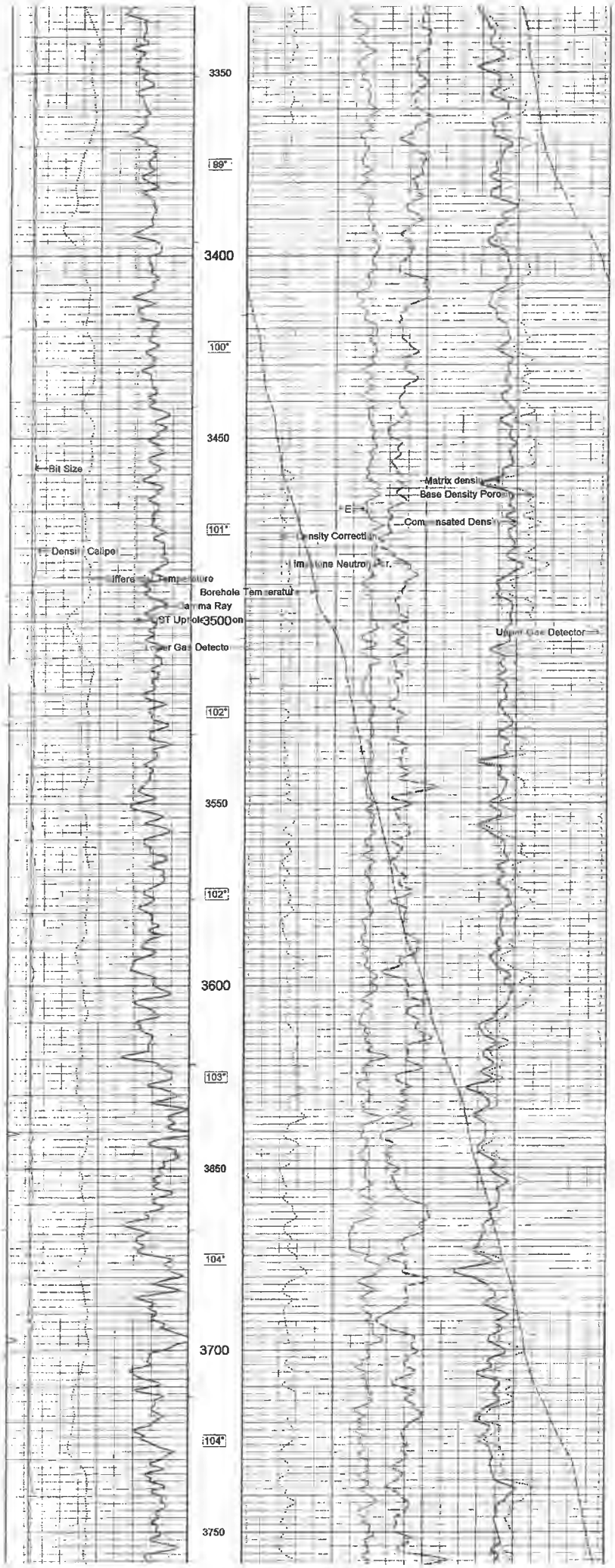

1200
1250
1300
1350
1400
1450
1500
Gamma Ray
1550
1600

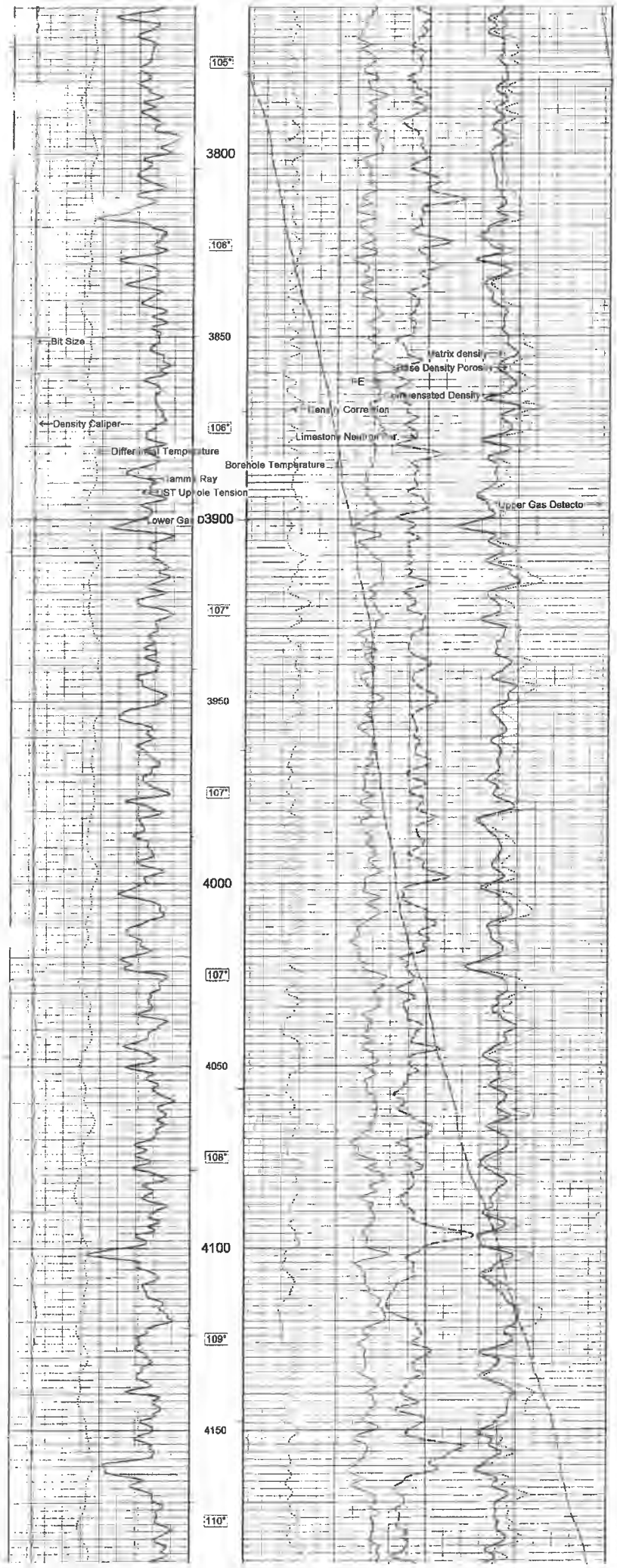

1650
1700
1750
1800
1850
1900
Gamma Ray
1950
2000

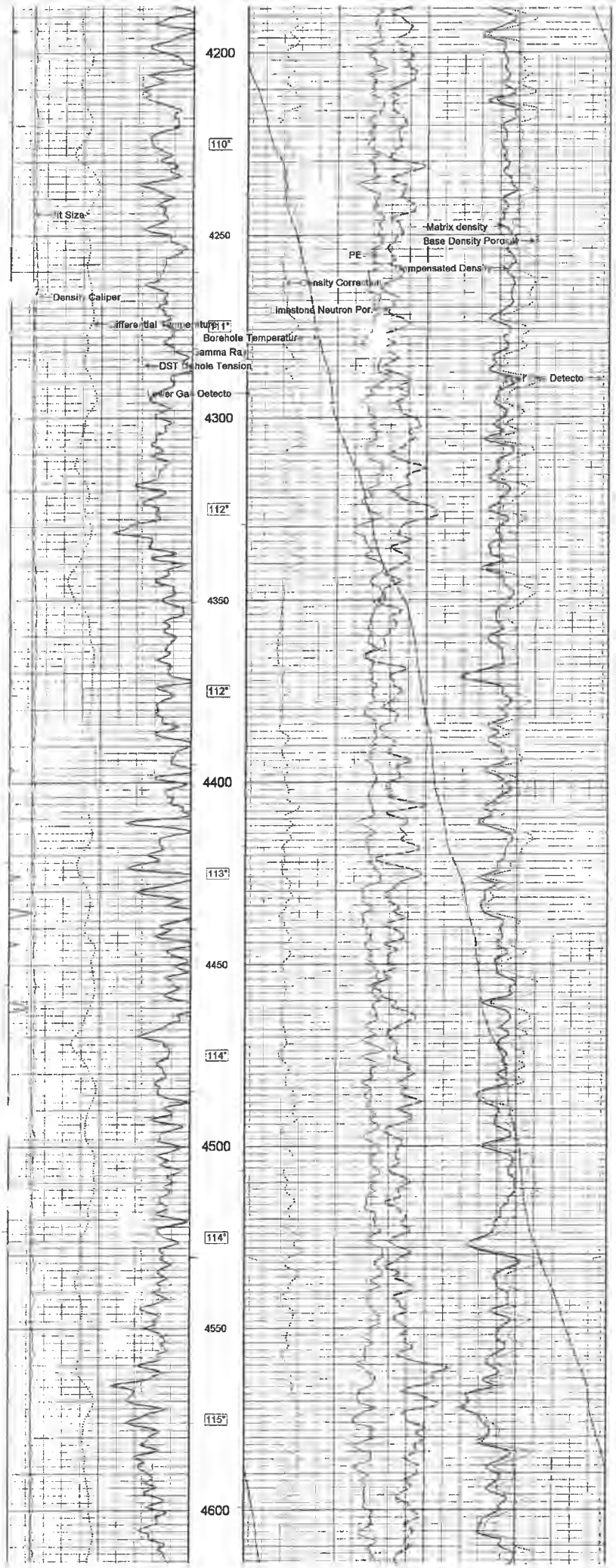

2050
2100
2150
85°
Casing
Shoe
2200
86°
2250
86°
Bit Size
Density Caliper
Differential Temperature
Gamma Ray
DST Upholt Tension
87°
Gas Detector
2300
2350
88°
2400
88°
2450
Matrix density
Base Density Porosity
Compensated Density
Density Correction
Limestone Neutron Por.
Borehole Temperature
Gas Detector

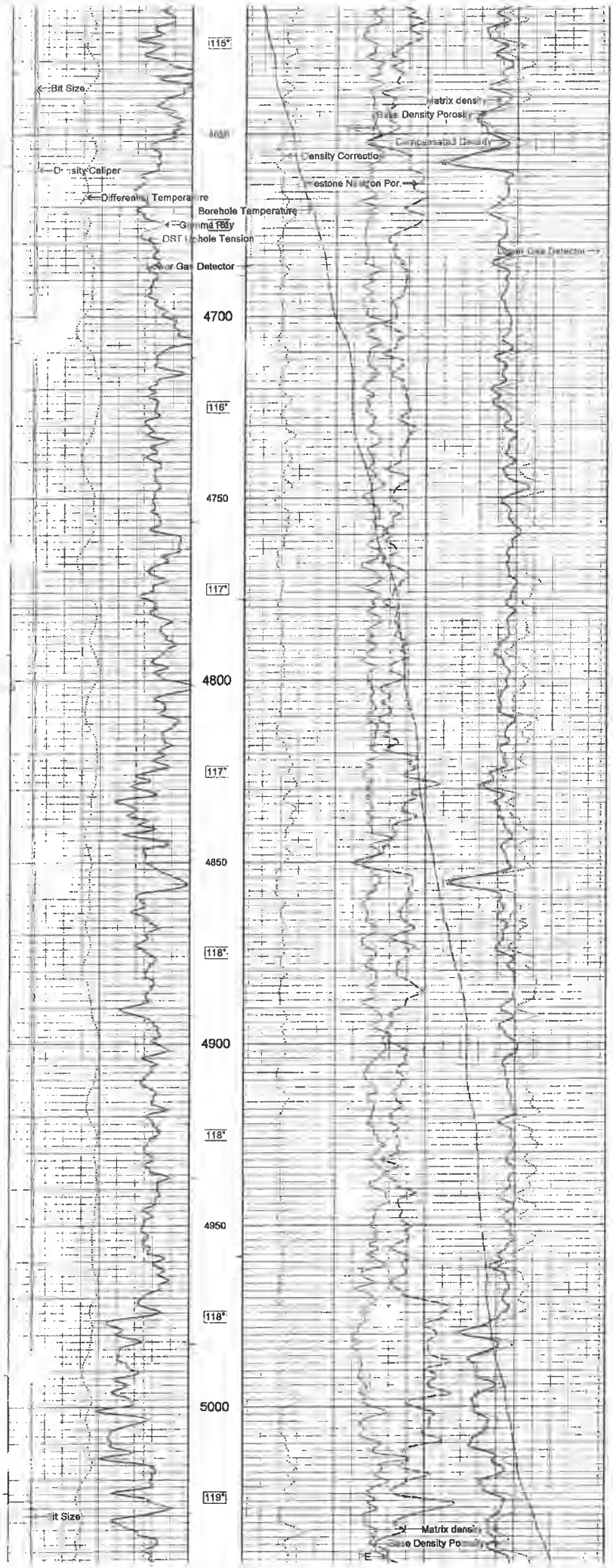

2500
89°
2550
90°
2600
91°
2650
91°
Bit Size
Density Caliper
2700
Borehole Temperature
Gamma Ray
Uphole Tension
Lower Gas Detector
92°
2750
92°
2800
93°
2850
93°
2900
Matrix density
Density Porosity
PE
Compensated Density
Limestone Neutron Porosity
Gas Detector

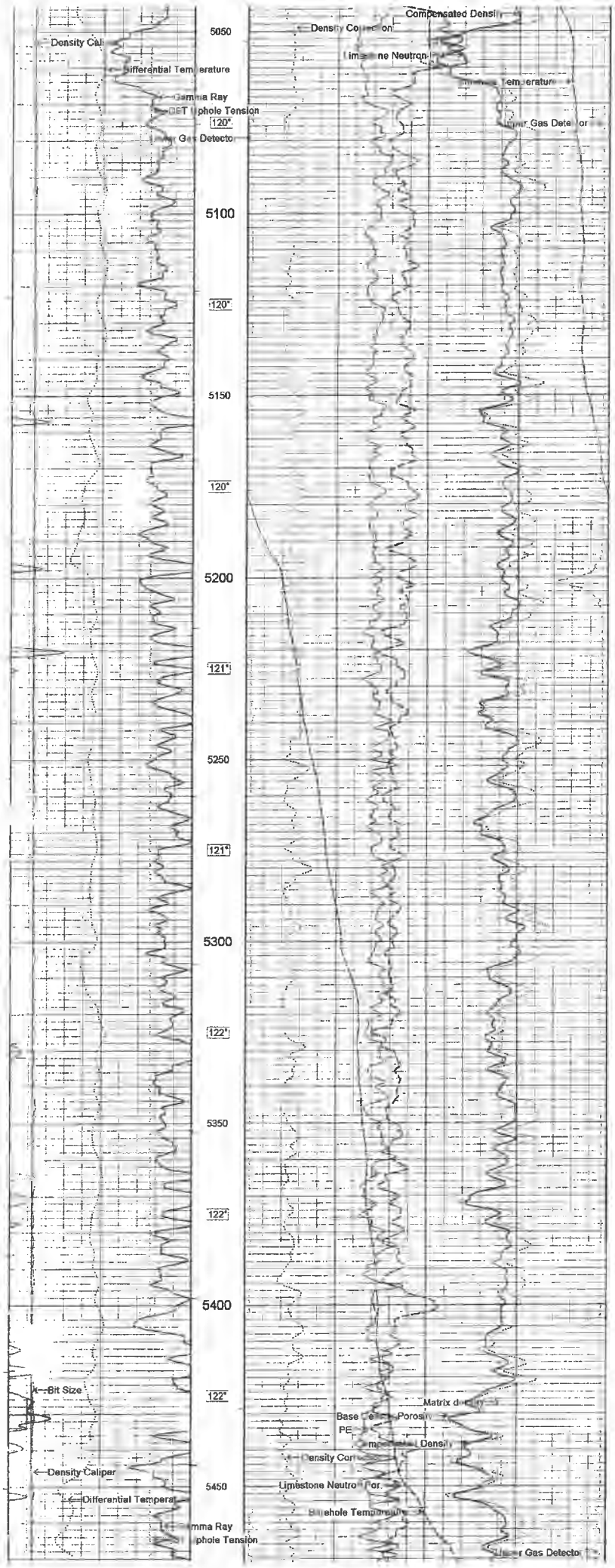

94°
2950
94°
3000
95°
3050
95°
Density Caliper
Differential Temperature
3100
Gamma Ray
Uphole Tension
Lower Gas Detector
94°
3150
97°
3200
97°
3250
98°
3300
99°
Density Porosity
PE
Density Correction
Limestone Neutron Por.
Borehole Temperature
Upper Gas Detector


3350
99°
3400
100°
3450
Bit Size
101°
Borehole Temperature
Gamma Ray
3500
102°
3550
102°
3600
103°
3650
104°
3700
104°
3750
Matrix density
Base Density Porosity
Compensated Density
Density Correction
Limestone Neutron Por.
Upper Gas Detector

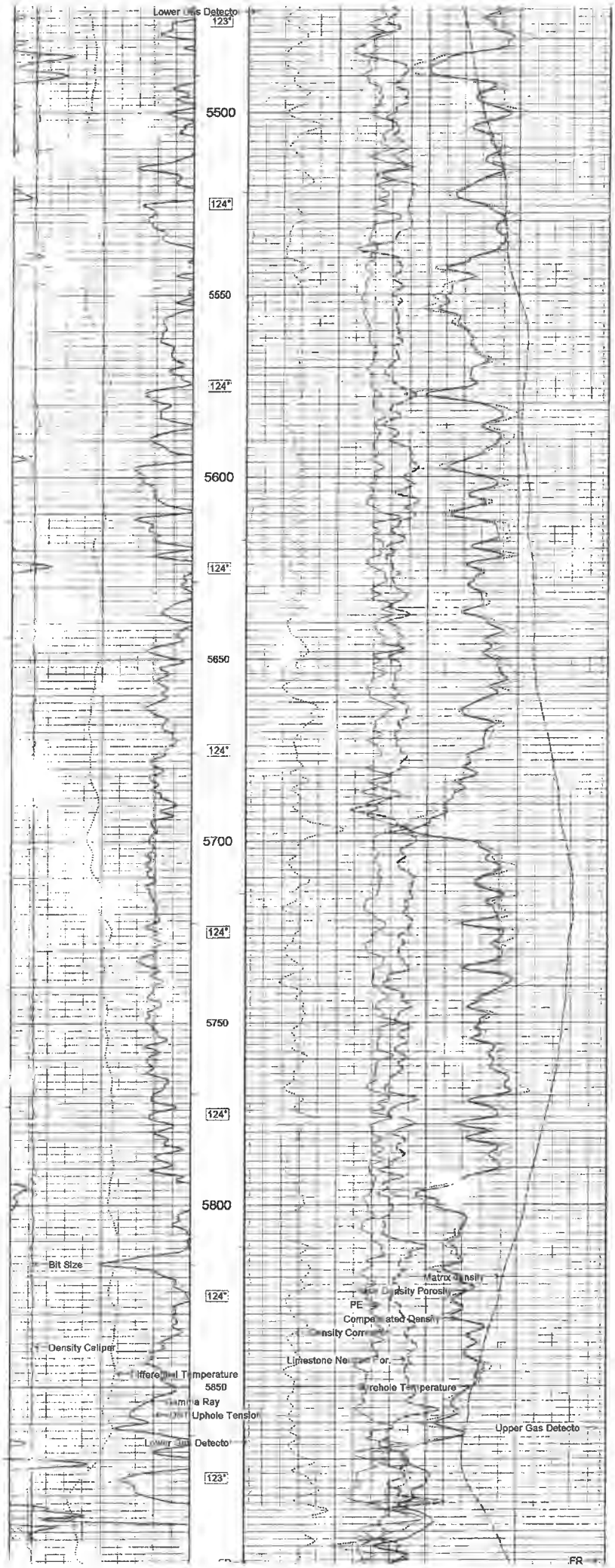

105"
3800
108"
3850
Bit Size
Density Caliper
106"
Borehole Temperature
Upper Gas Detecto
3900
107"
3950
107"
4000
107"
4050
108"
4100
109"
4150
110"


4200
110°
4250
Matrix density
PE
Borehole Temperatur
4300
112°
4350
112°
4400
113°
4450
114°
4500
114°
4550
115°
4600


115"
Bit Size
Density Caliper
Differential Temperature
Borehole Temperature
Gamma Ray
DST Borehole Tension
Gas Detector
4700
116"
4750
117"
4800
117"
4850
118"
4900
118"
4950
118"
5000
119"
Bit Size
Density Correction
Matrix density
Density Porosity
Compensated Density
Limestone Neutron Por.
Gas Detector
Matrix density
Density Porosity



Density Cal
Differential Temperature
Gamma Ray
DET Uphole Tension
Upper Gas Detector
5050
5100
5150
5200
5250
5300
5350
5400
5450
120°
121°
122°
Bit Size
Density Caliper
Differential Temperat
Gamma Ray
Uphole Tension
Compensated Density
Density Correction
Limestone Neutron
Temperature
Upper Gas Detector
Matrix density
Base Density Porosity
PE
Compensated Density
Density Correction
Limestone Neutron Por.
Borehole Temperature
Upper Gas Detector


Lower Gas Detecto
123"
5500
124"
5550
124"
5600
124"
5650
124"
5700
124"
5750
124"
5800
Bit Size
124"
Density Caliper
Differential Temperature
5850
Gamma Ray
Uphole Tension
Lower Gas Detecto
123"
Matrix Density
Density Porosity
PE
Compensated Density
Density Correction
Limestone Neutron Por
Borehole Temperature
Upper Gas Detecto
FR

5900

123°

6938

Depth in Feet

Timing Marks every 60.0 sec

Gamma Ray
API
0 100 200
200 300 400

Differential Temperature
degrees F/sample
-0.03 0 0.03

Density Caliper
inches
5 10 15

Bit Size
inches
5 10 15

DST Uphole Tension
pounds
0 3000
3000 6000

Borehole Temp in deg F

HVI every 10 cu ft

Annular Integral every 10 cu ft

PERF

Replay Scale 1:240

Lower Gas Detector
0 250 500 750 1000
0 2500 5000 7500 10000

Upper Gas Detector
1000 750 500 250 0
10000 7500 5000 2500 0

Borehole Temperature
degrees F
60 61.25 62.50 63.75 65

Limestone Neutron Por.
percent
30 20 10 0 -10

Compensated Density
grams/cc
2 2.25 2.50 2.75 3

PE
barns/electron
0 2.50 5 7.50 10

Base Density Porosity
percent
30 20 10 0 -10

Matrix density
grams/cc
2 2.25 2.50 2.75 3

Density Correction
grams/cc
-0.05 0.20 0.45

Depth Based Data - Maximum Sampling Increment 10.0cm
Filename C:\Minimus\Petel\11 02 04 TRI Looney 200410\Up_002.dta
System Configuration Dates: Logged 09-SEP-2003: Processed 09-SEP-2003 Plotted 25-JUN-2003

Plotted on 02-NOV-2004 10:31
Recorded on 02-NOV-2004 07:54

MAIN LOG

REPEAT SECTION

Depth Based Data - Maximum Sampling Increment 10.0cm
Filename. C:\Minimus\Petel\11 02 04 TRI Looney 200410\Up.dta
System Configuration Dates: Logged 09-SEP-2003: Plotted 25-JUN-2003:

Plotted on 02-NOV-2004 10:31
Recorded on 02-NOV-2004 07:42

Depth in Feet

Timing Marks every 60.0 sec

Gamma Ray
API
0 100 200
200 300 400

Differential Temperature
degrees F/sample
-0.03 0 0.03

Density Caliper
inches
5 10 15

Bit Size
inches
5 10 15

Borehole Temp in deg F

HVI every 10 cu ft

Annular Integral every 10 cu ft

PERF

Replay

Lower Gas Detector
0 250 500 750 1000
0 2500 5000 7500 10000

Upper Gas Detector
1000 750 500 250 0
10000 7500 5000 2500 0

Borehole Temperature
degrees F
60 61.25 62.50 63.75 65

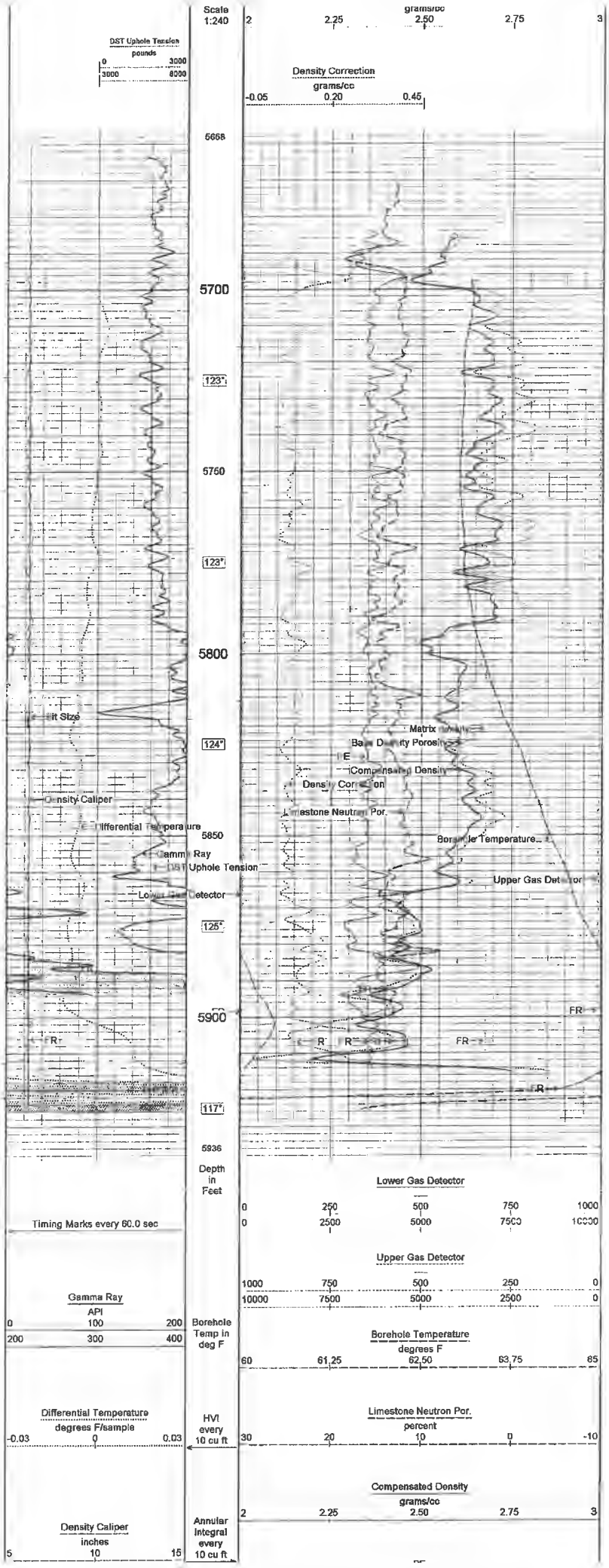
Limestone Neutron Por.
percent
30 20 10 0 -10

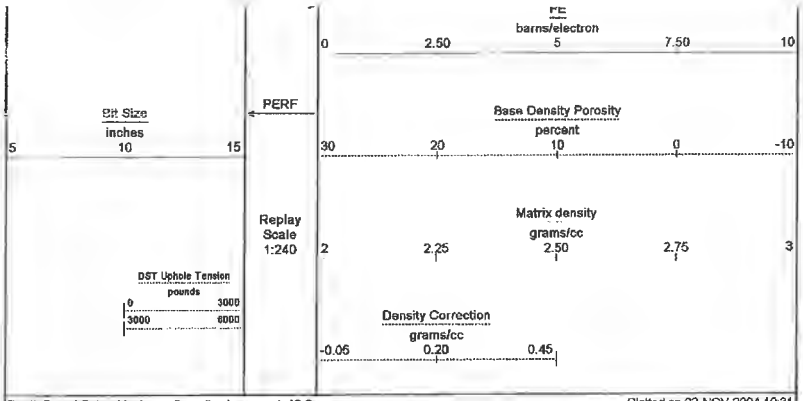
Compensated Density
grams/cc
2 2.25 2.50 2.75 3

PE
barns/electron
0 2.50 7.[illegible] 10

Base Density Porosity
percent
30 20 10 0 -10

Matrix density


Scale 1:240
DST Uphole Tension
pounds
0 3000
3000 6000
Density Correction
grams/cc
-0.05 0.20 0.45
grams/cc
2 2.25 2.50 2.75 3
5668
5700
123"
5750
123"
5800
124"
5850
125"
5900
117"
5936
Bit Size
Density Caliper
Differential Temperature
Gamma Ray
DST Uphole Tension
Lower Gas Detector
Matrix Density
Base Density Porosity
Compensated Density
Density Correction
Limestone Neutron Por.
Borehole Temperature
Upper Gas Detector
FR
Depth in Feet
Lower Gas Detector
0 250 500 750 1000
0 2500 5000 7500 10000
Timing Marks every 60.0 sec
Upper Gas Detector
1000 750 500 250 0
10000 7500 5000 2500 0
Gamma Ray
API
0 100 200
200 300 400
Borehole Temp in deg F
Borehole Temperature
degrees F
60 61.25 62.50 63.75 65
Differential Temperature
degrees F/sample
-0.03 0 0.03
HVI every 10 cu ft
Limestone Neutron Por.
percent
30 20 10 0 -10
Compensated Density
grams/cc
2 2.25 2.50 2.75 3
Density Caliper
inches
5 10 15
Annular Integral every 10 cu ft



Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 02-NOV-2004 10:31
Filename: C:\Minimus\Pete\11 02 04 TRI Looney 200410\Up.dta — Recorded on 02-NOV-2004 07:42
System Configuration Dates: Logged 09-SEP-2003; Plotted 25-JUN-2003;

REPEAT SECTION

BEFORE SURVEY CALIBRATION

C:\Minimus\Pete\11 02 04 TRI Looney 200410\Up_002.dta

General Constants All 000

General Parameters

Mud Resistivity	1000.000	ohm-metres
Mud Resistivity Temperature	68.000	degrees F
Water Level	10000.000	feet
Density/Neutron Processing	Water Level Switch	

Hole/Annular Volume and Differential Caliper Parameters

HVOL Caliper 1	Density Caliper	
HVOL Caliper 2	Density Caliper	
Annular Volume Diameter	4.500	inches
Caliper for Differential Caliper	Density Caliper	

Rws Parameters

Porosity used	Base Density Porosity	
Resistivity used	Deep Induction	
RWA Constant A	0.610	
RWA Constant M	2.150	

Gamma Calibration MCG 117

Field Calibration on 22-OCT-2004 10:32

	Measured	Calibrated (API)
Background	48	27
Calibrator (Gross)	1796	1013
Calibrator (Net)	1749	986

Gamma Constants MCG 117

Gamma Calibrator Number	48	
Mud Density	1.00	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

SP Calibration MCG 117

Field Calibration on 9-OCT-2004,11:44

	Measured	Calibrated (mV)
Reference 1	1.0	1.0
Reference 2	0.0	0.0

High Resolution Temperature Calibration MCG 117

Field Calibration on 12-AUG-2004,09:01

	Measured	Calibrated(Deg F)
Lower	0.00	0.00
Upper	0.00	0.00

High Resolution Temperature Constants MCG 117

Pre-filter Length	11

Neutron Calibration MDN 100

Base Calibration on 19-OCT-2004,11:42
Field Check on

Base Calibration

	Measured Near	Measured Far	Calibrated (cps) Near	Calibrated (cps) Far
	3210	101	3714	110
Ratio	31.915		33.764	

Field Calibrator at Base

	Calibrated (cps)	
	1009	1506
Ratio	0.670	

Field Check

	Calibrated (cps)	
	0	0
Ratio	0.000	

Neutron Constants MDN 100

Neutron Source Id	000	
Neutron Jig Number	000	
Epithermal Neutron	No	
Caliper Source for Processing	Density Caliper	
Stand-off	0.00	inches
Mud Density	1.00	gm/cc
Limestone Sigma	7.10	cu
Sandstone Sigma	4.26	cu
Dolomite Sigma	4.70	cu
Formation Pressure Source	Constant Value	
Formation Pressure	0.00	kpsi
Temperature Source	Constant Value	
Temperature	68.00	degrees F
Mud Salinity	0.00	kppm
Formation Fluid Salinity Source	Constant Value	
Formation Fluid Salinity	0.00	kppm
Barite Mud Correction	Not Applied	

Photo Density Calibration MPD 098

Base Calibration on 22-OCT-2004 11:07
Field Check on

Density Calibration

Base Calibration

	Measured Near	Measured Far	Calibrated (sdu) Near	Calibrated (sdu) Far
Reference 1	57557	19865	53248	19390
Reference 2	26639	2644	25045	2537

Field Check at Base

	1004.7	1204.0

Field Check

	0.0	0.0

PE Calibration

Base Calibration

	Measured WS	Measured WH	Ratio	Calibrated Ratio

Background	188	868		
Reference 1	18507	57350	0.324	0.320
Reference 2	7212	26490	0.274	0.274

Field Check at Base

188.2	867.6

Field Check

0.0	0.0

Density Constants MPD 098

Density Source Id	259	
Nylon Calibrator Number	DNC-D-534	
Aluminium/Fe Calibrator Number	DAC-D-534	
Density Shoe Profile	8 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.00	gm/cc
Mud Density Z/A Correction	1.11	
Mud Filtrate Density	1.00	gm/cc
Dry Hole Mud Filtrate Density	1.00	gm/cc
DNCT	-0.01	gm/cc
CRCT	0.00	gm/cc

Matrix Density (gm/cc)	Depth (ft)
2.71	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	

Caliper Calibration MPD 098

Base Calibration on 22-OCT-2004,10:47
Field Calibration on

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	14334	3.99
2	24331	5.96
3	34448	7.99
4	44016	9.86
5	55200	11.93
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
0.00	0.00

Induction Calibration MAI 100

Base Calibration on 9-JUN-2004,15:27
Field Check on

Base Calibration

Test Loop Calibration	Measured		Calibrated (mmho/m)	
Channel	Low	High	Low	High
1	16.5	479.1	9.3	968.2
2	5.2	377.4	7.6	821.4
3	3.0	262.9	5.2	566.0
4	1.4	133.5	2.6	279.2

Array Temperature 68.0 Deg F

Channel	Base Check (mmho/m)	Field Check (mmho/m)
1	12.6	0.0
2	32.2	0.0
3	29.1	0.0
4	20.6	0.0
Deep	16.9	0.0
Medium	42.9	0.0
Shallow	49.5	0.0
Array Temperature	68.0	0.0 Deg F

Induction Constants MAI 100

Induction Model	VECTAR	
Caliper Source for Borehole Correction	BIT	
Hole Size for Borehole Correction	N/A	inches
Stand-off	0.50	inches
Number of Fins on Stand-off	6.0000	
Stand-off Fin Width	0.5000	inches
Rm Source for Borehole Correction	Constant Value	
Squasher Start	0.0020	mhos/metre

Borehole Normalisation

DRM1	0.0000	DRC1	0.0000
DRM2	0.0000	DRC2	0.0000
MRM1	0.0000	MRC1	0.0000
MRM2	0.0000	MRC2	0.0000
SRM1	0.0000	SRC1	0.0000
SRM2	0.0000	SRC2	0.0000

Calibration Site Corrections

Channel 1	0.00	mmhos/metre
Channel 2	0.00	mmhos/metre
Channel 3	0.00	mmhos/metre
Channel 4	0.00	mmhos/metre

Apparent Porosity and Water Saturation Constants

Archie Constant (A)	1.00	
Cementation Exponent (M)	2.00	
Saturation Exponent (N)	2.00	
Saturation of Water for Apor	100.00	percent
Resistivity of Water for Apor and Sw	0.05	ohm-m
Resistivity of Mud Filtrate for Sw	0.00	ohm-m

High Resolution Temperature Calibration MAI 100

Field Calibration on 9-APR-2004,10:38

	Measured	Calibrated(Deg F)
Lower	1.00	1.00
Upper	100.00	101.00

High Resolution Temperature Constants MAI 100

Pre-filter Length 11

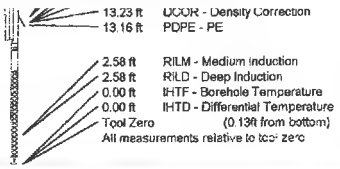
DOWNHOLE EQUIPMENT

C:\Minimus\Pete\11 02 04 TRI Looney 200410\Up_002.dta

Compact Gamma MCG 117 Length: 8.70 ft	Weight: 63.9 lb	33.72 ft	GRGC - Gamma Ray
Compact Neutron MDN 100 Length: 5.04 ft	Weight: 50.7 lb	27.60 ft	NPRL - Limestone Neutron Por
Compact Gas detector MGD 15 Length: 4.87 ft	Weight: 35.3 lb	21.59 ft	GDLO - Lower Gas Detector
Compact Density/Caliper MPD 98 Length: 9.59 ft	Weight: 90.4 lb	13.92 ft	AVOL - Annular Volume
		13.92 ft	HVOL - Hole Volume
		13.92 ft	CLDC - Density Caliper
		13.23 ft	MTXD - Matrix density
		13.23 ft	DPOR - Base Density Porosity
		13.23 ft	DEN - Compensated Density

Compact Induction
MAI 100 Length: 10.81 ft Weight: 48.5 lb

Total Length: 39.01 ft Weight: 288.8 lb



COMPANY	Triad Resources Inc.
WELL	Wm. M. Looney #200410
FIELD	Tariff 7.5' Quadrangle
PROVINCE/COUNTY	Smithfield / Roane
COUNTRY/STATE	Usa / West Virginia

Elevation Kelly Bushing	1094.00	feet	First Reading	5920.00	feet
Elevation Drill Floor	1063.00	feet	Depth Driller	5920.00	feet
Elevation Ground Level	1084.00	feet	Depth Logger	5922.00	feet

ALLEGHENY WIRELINE SERVICES, INC.

PHOTO DENSITY
COMPENSATED NEUTRON
ULTRASONIC GAS DETECTOR

WVGES GEOLOGY UNDERLIES IT ALL
"Pipeline"

Select County: (087) Roane
Enter Permit #: 4623
Get Data | Reset

Select datatypes: (Check All)
☑ Location ☑ Production ☑ Plugging
☑ Owner/Completion ☑ Stratigraphy ☑ Sample
☑ Pay/Show/Water ☑ Logs ☑ Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 4623

Report Time: Tuesday, May 19, 2020 8:42:45 PM

Location Information: (View Map)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708704623	Roane	4623	Smithfield	Tariff	Otter	38.665165	-81.195546	482987.8	4279638.8

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708704623	6/12/2008	Original Loc	Completed	Joyce Bailey & Billy Ray Elmore		M J Snodgrass 813			M J Snodgrass Heirs et al	Triad Resources Inc.	2500	Squaw	

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	BH
4708704623	6/12/2008	6/4/2008	1092	Ground Level	Tariff (Tmn)	Price Fm & equivs	Big Injun (Price&eq)	Development Well	Development Well	Oil and Gas	Rotary	Acid+Frac	2326		2326				35	15							

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708704623	6/12/2008	Water	Salt Water	Vertical			1672						
4708704623	6/12/2008	Pay	Oil & Gas	Vertical	2122	Big Injun (Price&eq)	2132	Big Injun (Price&eq)					

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708704623	Triad Resources, Inc.	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704623	Triad Hunter LLC	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704623	Triad Hunter LLC	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704623	Triad Hunter LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704623	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704623	Triad Hunter LLC	2014	12	0	0	0	0	1	2	1	1	1	3	1	2
4708704623	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704623	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704623	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704623	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708704623	Triad Resources, Inc.	2009	2	0	0	0	0	0	0	0	0	0	0	0	2
4708704623	Triad Hunter LLC	2010	2	0	0	0	0	0	0	0	0	0	0	0	2
4708704623	Triad Hunter LLC	2011	2	0	0	0	0	0	0	0	0	0	0	0	2
4708704623	Triad Hunter LLC	2012	1	0	0	0	0	0	0	0	0	0	0	0	1
4708704623	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704623	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704623	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704623	Triad Hunter LLC	2016	0												
4708704623	Ground Resources, LLC	2017	0												
4708704623	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708704623	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704623	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704623	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704623	Triad Hunter LLC	2016	0												
4708704623	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708704623	Triad Hunter LLC	2016	0												
4708704623	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708704623	Original Loc	unidentified coal	Well Record	821	Reasonable	3	Reasonable	1092	Ground Level
4708704623	Original Loc	unidentified coal	Well Record	1178	Reasonable	4	Reasonable	1092	Ground Level
4708704623	Original Loc	unidentified coal	Well Record	1410	Reasonable	4	Reasonable	1092	Ground Level
4708704623	Original Loc	unidentified coal	Well Record	1500	Reasonable	6	Reasonable	1092	Ground Level
4708704623	Original Loc	Maxton	Well Record	1723	Reasonable	24	Reasonable	1092	Ground Level
4708704623	Original Loc	Little Lime	Well Record	1882	Reasonable	35	Reasonable	1092	Ground Level
4708704623	Original Loc	Pencil Cave	Well Record	1951	Reasonable	16	Reasonable	1092	Ground Level
4708704623	Original Loc	Greenbrier Group	Well Record	2003	Reasonable	118	Reasonable	1092	Ground Level
4708704623	Original Loc	Big Lime	Well Record	2003	Reasonable	118	Reasonable	1092	Ground Level
4708704623	Original Loc	Big Injun (Price&eq)	Well Record	2121	Reasonable	19	Reasonable	1092	Ground Level

Wireline (E-Log) Information:

4623

4623

PERFORATION INTERVALS AND FRACTURE TREATMENT:

FIRST STAGE: ***Big Injun (cased hole log depths do not match open hole log depths)***

2122' - 2132' 40 holes 0.39" HSC

FLUID TYPE:	**Fresh water**		**73,043**	**GALS**
ACID TYPE:	**15% HCl**	**1,000**	**GALS**	
NITROGEN:		**SCF**		
SAND:	**30,000**	**LBS**		
BREAKDOWN PRESS:	**1,850**	**PSIG**		
AVG. TREATING PRESS:	**1,800**	**PSIG**		
AVG. RATE:	**30**	**BPM**		
ISIP:	**1,450**	**PSIG**		
5-MIN SIP:	**950**	**PSIG**		

SECOND STAGE:

FLUID TYPE:	**Fresh water**			**GALS**
ACID TYPE:			**GALS**	
NITROGEN:		**SCF**		
SAND:		**LBS**		
BREAKDOWN PRESS:		**PSIG**		
AVG. TREATING PRESS:		**PSIG**		
AVG. RATE:		**BPM**		
ISIP:		**PSIG**		
5-MIN SIP:		**PSIG**		

THIRD STAGE:

FLUID TYPE:				**GALS**
ACID TYPE:			**GALS**	
NITROGEN:		**SCF**		
SAND:		**LBS**		
BREAKDOWN PRESS:		**PSIG**		
AVG. TREATING PRESS:		**PSIG**		
AVG. RATE:		**BPM**		
ISIP:		**PSIG**		
5-MIN SIP:		**PSIG**		

FORMATIONS:

	TOP	BOTTOM
Sand and Shale	0'	141'
Sand	141'	160'
Shale and Silt	160'	257'
Sand	257'	288'
Shale	288'	767'
Sand	767'	909'
Shale	909'	921'
Coal	921'	924'
Shale	924'	944'
Sand	944'	1178'
Coal	1178'	1182'
Sand	1182'	1272'
Shale	1272'	1287'
Sand And Siltstone	1287'	1410'
Coal	1410'	1414'
Shale and Sand	1414'	1530'
Coal	1530'	1536'
Shale	1536'	1601'
Sand	1601'	1789'
Shale	1789'	1816'
Sand	1816'	1891'
Shale	1891'	1922'
Maxton	1922'	1946'
Little Lime	1952'	1987'
Pencil Cave	1987'	2003'
Big Lime	2003'	2121'
Big Injun	2121'	2140'
Shale	2140'	T.D.

"Pipeline"

Select County: (087) Roane

Enter Permit #: 3659

Get Data | Reset

Select datatypes: (Check All)

- Location
- Owner/Completion
- Pay/Show/Water
- Production
- Stratigraphy
- Logs
- Plugging
- Sample
- Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information

WV Geological & Economic Survey:

Well: County = 87 Permit = 3659

Report Time: Tuesday, May 19, 2020 1:46:53 AM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703659	Roane	3659	Smithfield	Tariff	Otter	38.653417	-81.211958	481557	4278336.3

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_FM
4708703659	10/-/1982	Original Loc	Completed	J Shamblin/W Looney	30					Pennzoil Company			
4708703659	10/7/2013	Plugging	Completed	Triad Hunter	30		W M Looney			Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	FIRST_DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	BR
4708703659	10/-/1982	-/-/-	1077	Ground Level	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2174		2174		0	0	0	0			0	0	0	0
4708703659	10/7/2013	10/1/2013	1077	Ground Level																						

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703659	10/-/1982	Horizon	Injection	Vertical			2122	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708703659	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703659	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703659	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703659	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703659	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703659	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703659	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703659	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703659	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703659	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
4708703659	Pennzoil Company	1984	1,013	0	0	0	0	0	0	0	0	0	0	0	0
4708703659	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703659	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703659	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703659	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703659	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703659	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703659	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703659	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703659	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703659	Original Loc	1st Salt Sand	Well Record	1628	Reasonable	114	Reasonable	1077	Ground Level
4708703659	Original Loc	2nd Salt Sand	Well Record	1771	Reasonable	37	Reasonable	1077	Ground Level
4708703659	Original Loc	3rd Salt Sand	Well Record	1822	Reasonable	52	Reasonable	1077	Ground Level
4708703659	Original Loc	Little Lime	Well Record	1926	Reasonable	38	Reasonable	1077	Ground Level
4708703659	Original Loc	Blue Monday	Well Record	1968	Reasonable	8	Reasonable	1077	Ground Level
4708703659	Original Loc	Greenbrier Group	Well Record	1988	Reasonable	104	Reasonable	1077	Ground Level
4708703659	Original Loc	Big Lime	Well Record	1988	Reasonable	104	Reasonable	1077	Ground Level
4708703659	Original Loc	Big Injun (Price&eq)	Well Record	2092	Reasonable	32	Reasonable	1077	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	SOURCE	FIL	LOGR	AVWE	BEAT	BS	NORMALIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH6	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703659	9	2173			G	C				9	2168	356	2173									356	2173	Y	Y	N						

Comment: *logs: caliper

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:

d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)

FILENAME

3659

W.M. Looney 30
8703659P

OG-10
Rev. - 9-71

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

Quadrangle Tariff 7.5'
Permit No. 087-3659-Li

Rotary X Oil X
Cable ____ Gas ____
Recycling ____ Comb. ____
Water Flood X Storage ____
Disposal ____ ____ (Kind)

Company: Pennzoil Company
Address P. O. Box 1588, Parkersburg, WV 26101
Farm W. M. Looney Acres 480
Location (waters) Trace Fork
Well No. 30 Elev. 1076.63
District Smithfield County Boone
The surface of tract is owned in fee by
~~John E. Shamblin~~ Triad
Address Lefthand, WV 25251
Mineral rights are owned by Keith Crihfield
Address P.O.Box 431, Spencer, WV
Drilling Commenced 9-27-82
Drilling Completed 10-1-82
Initial open flow WIW cu. ft. ____ bbls.
Final production ____ cu. ft. per day ____ bbls.
Well open ____ hrs. before test ____ RP.
Well treatment details:
Water Injection Well
Fractured: 11-17-82 w/250 gls. 15% HCL, 145 Bbl. 20# Gel, 1500# 20/40 sd
Perf: 2102-2122-21H

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	356	355	140 sks.
7			
5 1/2			
4 1/2	2164	2164	175 sks.
3			
2			
Liners Used			

Attach copy of cementing record.

Coal was encountered at ____ Feet ____ Inches
Fresh water ____ Feet ____ Salt Water ____ Feet ____
Producing Sand Big Injun Depth ____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sand			0	356		
Shale			356	432		
Sand			432	448		
Shale & Sand			448	1628		
Salt Sand			1628	1742		
Silty Shale			1742	1771		
Salt Sand			1771	1808		
Silty Sand			1808	1822		
Salt Sand			1822	1874		
Silty Shale			1874	1900		
Sand			1900	1916		
Silty Sand			1916	1928		
Little Lime			1928	1966		
Blue Monday			1966	1974		
Pencil Cave			1974	1988		
Big Lime			1988	2092		
Big Injun			2092	2124		
Pocono Shale			2124	2174		
Total Depth				2174		

WR-38
Rev. 5/08

API # 47-8703659

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: Triad Hunter Operator Well No.: # 30

LOCATION: Elevation: 1076' Quadrangle: Newton
District: Smithfield County: Roane
Latitude: _____ Feet South of ____ Deg. ____ Min. ____ Sec.
Longitude: _____ Feet West of ____ Deg. ____ Min. ____ Sec.

Northing 4278338
Easting 481557

Well Type: OIL X GAS ____

Company: Triad Hunter
5669 Wallback Rd.
Wallback, WV.25285

Coal Operator or Owner: no Coal

Agent: Mike Horan

Coal Operator or Owner: _____

Permit Issued Date: 4/8/2013

RECEIVED
Office of Oil & Gas
MAR 17 2014
WV Department of
Environmental Protection

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

Rick Duckworth and Robert Stewart being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 1 day of Oct., 2013 and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement	2150'	2050'	498' of 4½"	1684 of 4½"
Cement	1125'	1020'		355' of 8 5/8"
Cement	530'	430'		
Cement	405'	305'		
Cement	100'	0'		
Gel between all plugs				

Description of monument: 7" pipe with API numbers, and that the work of plugging and filling said well was completed on the 7 day of Oct., 2013.

And further deponents saith not.

Rick Duckworth
Robert Stewart

OFFICIAL SEAL
Timothy Keaton
Notary Public
State of West Virginia
My Commission Expires
October 07, 2023
1106 Big Sandy Rd
Left Hand, WV 25251

Sworn and subscribe before me this 14 day of October, 2013

My commission expires: 10-7-2023

Timothy Keaton
Notary Public

Affidavit reviewed by the Office of Oil and Gas: _____ Title: Inspector

Did not witness all plugs

3661

"Pipeline"

Select County: (087) Roane

Enter Permit #: 3661

Get Data | Reset

Select datatypes: (Check All)

- Location
- Production
- Plugging
- Owner/Completion
- Stratigraphy
- Sample
- Pay/Show/Water
- Logs
- Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 3661

Report Time: Wednesday, May 02, 2018 1:44:17 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703661	Roane	3661	Smithfield	Tariff	Otter	38.551174	-81.211074	481633.3	4278089.3

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703661	9/-/1982	Original Loc	Completed	D Jones/W M Looney	32					Pennzoil Company			
4708703661	10/7/2013	Plugging	Completed	Tirad Hunter	32					Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	G_BEF	G_AFT	O_BEF	O_AFT	NGL_I
4708703661	9/-/1982	-/-/-	1181	Ground Level	Tariff(Tlmn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2270		2270	0	0	0	0	
4708703661	10/7/2013	8/2/2013	1181	Ground Level																

Comment: 10/7/2013 Revised affidavit submitted.

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703661	9/-/1982	Horizon	Injection	Vertical			2221	Big Injun Price&e	0	0			

Production Gas Information: Volumes in Mcf

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703661	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703661	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703661	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703661	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703661	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703661	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703661	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703661	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703661	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: Volumes in Bbl ** some operators may have reported NGL under Oil

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703661	Pennzoil Company	1984	1,013	0	0	0	0	0	0	0	0	0	0	0	0
4708703661	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703661	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703661	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703661	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703661	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703661	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703661	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703661	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703661	Original Loc	1st Salt Sand	Well Record	1700	Reasonable	132	Reasonable	1181	Ground Level
4708703661	Original Loc	2nd Salt Sand	Well Record	1850	Reasonable	30	Reasonable	1181	Ground Level
4708703661	Original Loc	3rd Salt Sand	Well Record	1900	Reasonable	126	Reasonable	1181	Ground Level
4708703661	Original Loc	Blue Monday	Well Record	2064	Reasonable	4	Reasonable	1181	Ground Level
4708703661	Original Loc	Greenbrier Group	Well Record	2086	Reasonable	104	Reasonable	1181	Ground Level
4708703661	Original Loc	Big Lime	Well Record	2086	Reasonable	104	Reasonable	1181	Ground Level
4708703661	Original Loc	Big Injun Price&e	Well Record	2190	Reasonable	34	Reasonable	1181	Ground Level

Wireline E-Log Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	L
4708703661	50	2269		G,D,C,*	Y	N	50	2263	440	2269									440	2269	Y	Y	N		

Comment: *logs: caliper, CCL, perforation

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703661gdc.tif
4708703661gpp.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:

- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron–SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:

- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL–casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL–Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708703661	9/24/2013	0
4708703661	10/7/2013	0

There is no Sample data for this well

36661

OG-10
Rev. 1-71

RECEIVED
MAR 01 1983
OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

Quadrangle Tariff 7.5'
Permit No. 087-3661-L1

Rotary X Oil X
Cable ____ Gas ____
Recycling ____ Comb. ____
Water Flood X Storage ____
Disposal ____ ____ (Kind)

Company Pennzoil Company
Address P. O. Box 1588, Parkersburg, WV
Farm W. M. Looney Acres 480
Location (waters) Trace Fork
Well No. 32 Elev. 1180.67
District Smithfield County Roane
The surface of tract is owned in fee by
Doyle Jones
Address Lefthand, WV 25251
Mineral rights are owned by: Keith Crihfield
Address P.O. Box 431, Spencer, WV
Drilling Commenced 9-14-82
Drilling Completed 9-19-82
Initial open flow WIW cu. ft. ____ bbls.
Final production ____ cu. ft. per day ____ bbls.
Well open ____ hrs. before test ____ RP.
Well treatment details:

26101 Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	443	443	175 sks
7			
5 1/2			
4 1/2	2267	2267	175 sks.
3			
2			
Liners Used			

Attach copy of cementing record.

Water Injection Well

Fractured: 11-4-82 w/250 gls. 15% HCL, 173 BGW, 1500# 20/40 sd

Perf: 2195-2207; 2215-2221-18H

Coal was encountered at ____ Feet ____ Inches
Fresh water ____ Feet ____ Salt Water ____ Feet ____
Producing Sand Big Injun Depth ____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sand & Shale			0	1700		
Salt Sand			1700	1832		
Silty Shale			1832	1850		
Salt Sand			1850	1880		
Silty Shale			1880	1900		
Salt Sand			1900	2026		
Little Lime			2026	2064		
Blue Monday			2064	[illegible]		
Pencil Cave			2068	2086		
Big Lime			2086	2190		
Big Injun			2190	2224		
Pocono Shale			2224	2270		
Total Depth				2270		
PBTD				2247		

ROANE 3661-L1

WR-38
Rev. 5/08

API # 47-8703661
Revised

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: Triad Hunter Operator Well No.: 32 W. M. Looney

LOCATION: Elevation: 1180' Quadrangle: Newton
District: Smithfield County: Roane
Latitude: 1440 Feet South of 38 Deg. 40 Min. 00 Sec.
Longitude: 6150 Feet West of 81 Deg. 12 Min. 30 Sec. GPS

Easting 0481633
Northing 4278089 Elev. 1181

Well Type: OIL X GAS ____

Company Triad Hunter
5669 WAllback Rd.
Wallback, WV. 25285

Coal Operator or Owner: N.O Coal

Agent Mike Horan

Coal Operator or Owner

Permit Issued Date 5/3/2013

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

Rick Duckworth and Robert Stewart being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well, say that said work was commenced on the 2 day of August, 2013, and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement	2225/	2125'	495' of 4½"	1772' of 4½"
Cement	1280'	1180'		443; of 8⅝"
Cement	545'	445'		
Cement	100'	0'		
Cel between all plugs.				

Description of monument: 7 " pipe Wita with API numb and that the work of plugging and filling said well was completed on the 7 day of October, 2013

And further deponents saith not. Rick Duckworth
Robert A. Stewart

Sworn and subscribe before me this 28 day of October, 2013

My commission expires: 10-7-23

Timothy E Keaton
Notary Public

OFFICIAL SEAL
Timothy Keaton
Notary Public
State of West Virginia
My Commission Expires
October 07, 2023
1106 Big Sandy Rd
Left Hand, WV 25251

Affidavit reviewed by the Office of Oil and Gas: ____ Title: 10/30/13

Did not witness all plugs

04/18/2014

"Pipeline"

Select County: (087) Roane

Enter Permit #: 3662

Get Data | Reset

Select datatypes: ☐ (Check All)

☑ Location ☑ Production ☑ Plugging
☑ Owner/Completion ☑ Stratigraphy ☑ Sample
☑ Pay/Show/Water ☑ Logs ☑ Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 3662

Report Time: Tuesday, May 19, 2020 5:56:51 PM

Location Information: View Ma

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703662	Roane	3662	Smithfield	Tariff	Otter	38.652148	-81.215019	481290.3	4278198.1

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703662	9/-/1982	Original Loc	Completed	D Jones/W M Looney	35					Pennzoil Company			
4708703662	7/25/2013	Plugging	Completed	Triad Hunter	35		W M Looney			Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_METHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	BH
4708703662	9/-/1982	-/-/-	1104	Ground Level	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2171		2171		0	0	0	0			0	0	0	0	
4708703662	7/25/2013	7/30/2013	1104	Ground Level																							

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703662	9/-/1982	Horizon	Injection	Vertical			2134	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703662	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703662	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703662	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703662	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703662	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703662	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703662	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703662	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703662	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703662	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703662	Pennzoil Company	1984	1,013	0	0	0	0	0	0	0	0	0	0	0	0
4708703662	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703662	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703662	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703662	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703662	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703662	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703662	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703662	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703662	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703662	Original Loc	1st Salt Sand	Well Record	1658	Reasonable	112	Reasonable	1104	Ground Level
4708703662	Original Loc	2nd Salt Sand	Well Record	1784	Reasonable	105	Reasonable	1104	Ground Level
4708703662	Original Loc	3rd Salt Sand	Well Record	1924	Reasonable	16	Reasonable	1104	Ground Level
4708703662	Original Loc	Little Lime	Well Record	1959	Reasonable	27	Reasonable	1104	Ground Level
4708703662	Original Loc	Blue Monday	Well Record	1986	Reasonable	8	Reasonable	1104	Ground Level
4708703662	Original Loc	Greenbrier Group	Well Record	2010	Reasonable	104	Reasonable	1104	Ground Level
4708703662	Original Loc	Big Lime	Well Record	2010	Reasonable	104	Reasonable	1104	Ground Level
4708703662	Original Loc	Big Injun (Price&eq)	Well Record	2114	Reasonable	32	Reasonable	1104	Ground Level

Wireline E-Log Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703662	7	2169		G D C	Y	N	7	2162	350	2169									350	2169	Y	Y	N						

Comment: *logs: caliper

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here
geologic log types:

3662

FILENAME
470870366 dc.tif

d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
e photoelectric adsorption (PE or Pe, etc.)
g gamma ray
i induction (includes dual induction, medium induction, deep induction, etc.)
l laterolog
m dipmeter
n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
o other[1]
s sonic or velocity
t temperature (includes borehole temperature, BHT, differential temperature, etc.)
z spontaneous potential or potential

mechanical log types:

b cement bond
c caliper
o other[1]
p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708703662	7/25/2013	0

There is no Sample data for this well

3662

W.M. Looney 35
8703662 P

OG-10
Rev. - 9-71

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

WELL RECORD

Rotary X Oil X
Cable ____ Gas ____
Recycling ____ Comb. ____
Water Flood X Storage ____
Disposal ____ ____ (Kind)

Quadrangle Tariff 7.5'
Permit No. 087-3662-L1

Company Pennzoil Company
Address P.O. Box 1588, Parkersburg, WV 26101
Farm W. M. Looney Acres 480
Location (waters) Trace Fork
Well No. 35 Elev. 1103.63
District Smithfield County Roane
The surface of tract is owned in fee by
~~Basie O. Jones~~ Triad
Address Lefthand, WV 25251
Mineral rights are owned by Keith Crihfield
Address P.O. Box 431, Spencer, WV
Drilling Commenced 9-9-82
Drilling Completed 9-14-82
Initial open flow WIW cu. ft. ____ bbls.
Final production ____ cu. ft. per day ____ bbls.
Well open ____ hrs. before test ____ RP.
Well treatment details:
Water Injection Well
Fractured: 11-17-82 w/250 gls. 15% HCL, 140 Bbls. 20% gel & 15000# 20/40 sd.
Perf: 2120-2134-15H

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond.			
13-10"			
9 5/8			
8 5/8	356	356	145 sks.
7			
5 1/2			
4 1/2	2178	2178	175 sks.
3			
2			
Liners Used			

Attach copy of cementing record.

Coal was encountered at ____ Feet ____ Inches
Fresh water ____ Feet ____ Salt Water ____ Feet ____
Producing Sand Big Injun Depth ____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand			0	36		
Silt & Sand			36	370		
Shale			370	450		
Sand			450	464		
Silt & Shale			464	534		
Silt & Sand			534	556		
Silt & Shale			556	622		
Sand & Shale			622	1658		
Salt Sand			1658	1770		
Silt & Shale			1770	1784		
Salt Sand			1784	1889		
Shale			1889	1924		
Salt Sand			1924	1940		
Silt & Sand			1940	1959		
Little Lime			1959	1986		
Blue Monday			1986	1994		
Pencil Cave			1994	2010		
Big Lime			2010	2114		
Big Injun			2114	2146		
Pocono Shale			2146	2171		
Total Depth				2171		

WR-38
Rev. 5/08

API # 47-0873662

87-03662

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

W.M. Looney

Farm name: Triad Hunter Operator Well No.: # 35

LOCATION: Elevation: 1103 Quadrangle: Newton
District: Smithfield County: Roane
Latitude: 1230' Feet South of 38 Deg. 40 Min. 00 Sec.
Longitude: 5310' Feet West of 81 Deg. 12 Min. 30 Sec.

Northing 4278198.13
Easting 481290.13

Well Type: OIL ____ GAS ____ Injection

Company Triad Hunter
5669 Wallback Rd.
Wallback WV. 25285

Coal Operator or Owner no coal

Coal Operator or Owner

Agent Tim Keaton
Permit Issued Date 3/29/2013

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

Joseph Duckworth and Cody Hammick being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 30 day of July, 2013 and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement	2165'	2065'		
Cement	1155'	1055'	1145' of 4½"	1130' of 4½
Cement	410'	455'		
Cement	100'	0'		356' of 8 5/8
Gell between all plugs.				

Description of monument: 7" pipe With API numbers and that the work of plugging and filling said well was completed on the 25 day of July, 2013

And further deponents saith not. [signature]
Cody Hammick

Sworn and subscribe before me this 26 day of September, 2013

My commission expires: April 12, 2021

Patricia Summers
Notary Public

Official Seal
Notary Public, State of West Virginia
Patricia L. Summers
679 Bear Fork Rd.
Omaha, WV 25285
My commission expires April 12, 2021

RECEIVED
Office of Oil & Gas
OCT 23 2013
WV Department of Environmental Protection

Affidavit reviewed by the Office of Oil and Gas: [signature] Title: Inspector

Did not witness all plugs

"Pipeline"

Select County: (087) Roane

Enter Permit #: 3663

Get Data | Reset

Select datatypes: (Check All)

- Location
- Production
- Plugging
- Owner/Completion
- Stratigraphy
- Sample
- Pay/Show/Water
- Logs
- Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline Plus" New

3663

WV Geological & Economic Survey:

Well: County = 087 Permit = 3663

Report Time: Wednesday, May 02, 2018 1:22:29 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703663	Roane	3663	Smithfield	Tariff	Otter	38.651392	-81.208688	481841	4278113

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703663	9/4/1982	Original Loc	Completed	Doyle Jones/P A Tallman	67				Anna Lee Collins	Pennzoil Company			
4708703663	6/9/2017	Plugging	Completed	Triad Hunter LLC	67		P A Tallman		T A L Collins	Triad Hunter LLC			
4708703663	-/-/-	Plugging	Permitted	Triad Hunter LLC	68		P A Tallman		T A L Collins	Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	G_BEF	G_AFT	O_BEF	O_AFT	NGL_B
4708703663	9/4/1982	8/30/1982	1172	Ground Level	Tariff(Tlmn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2230		2230	0	0	0	0	
4708703663	6/9/2017	5/22/2017	1193	Ground Level																
4708703663	-/-/-	-/-/-	1091	Ground Level																

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703663	9/4/1982	Horizon	Injection	Vertical			2205	Big Injun (Price&e	0	0			

Production Gas Information: (Volumes in Mcf)

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703663	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703663	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703663	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703663	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703663	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703663	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703663	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703663	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703663	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703663	Pennzoil Company	1984	1,030	0	0	0	0	0	0	0	0	0	0	0	0
4708703663	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703663	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703663	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703663	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703663	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703663	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703663	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703663	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703663	Original Loc	2nd Salt Sand	Well Record	1846	Reasonable	115	Reasonable	1172	Ground Level
4708703663	Original Loc	Little Lime	Well Record	2019	Reasonable	29	Reasonable	1172	Ground Level
4708703663	Original Loc	Blue Monday	Well Record	2048	Reasonable	4	Reasonable	1172	Ground Level
4708703663	Original Loc	Greenbrier Group	Well Record	2071	Reasonable	103	Reasonable	1172	Ground Level
4708703663	Original Loc	Big Lime	Well Record	2071	Reasonable	41	Reasonable	1172	Ground Level
4708703663	Original Loc	Loyalhanna	Well Record	2112	Reasonable	62	Reasonable	1172	Ground Level
4708703663	Original Loc	Big Injun (Price&eq)	Well Record	2174	Reasonable	31	Reasonable	1172	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	L
4708703663	350	2229		G N D C *	Y	N	350	2220	350	2229	350	2229							350	2229	Y	Y	N		

Comment: *logs: caliper, bit size

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703663gdco.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:

- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:

- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708703663	6/9/2017	0

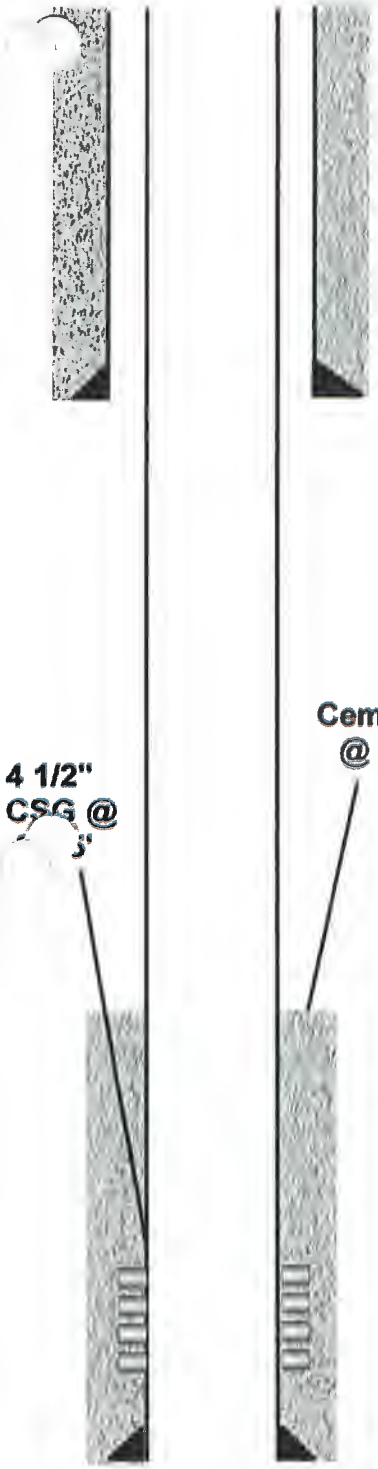
There is no Sample data for this well

☐ Proposed

☒ As is

P.A.TALLMAN # 67- 47-087- 3663 - LI
SMITHFIELD DIST., ROANE CO., W.V.
FIELD : TARIFF.

	Size	Wt.	Grde	Thrd	Depth	Sks/Cmt
CONDUCTOR						
SURFACE	8 5/8"	20 #	H-40	8 RD	401'	200 sks
INTERMEDIATE						
INTERMEDIATE						
PRODUCTION	4 1/2"	9.5 #	K-55	8 RD	2245'	125 sks
TUBING						



Perforation Information
BIG INJUN : 2185' - 2205' w / 21 Holes

Casing and Tubing Information
8 5/8" CSG set @ 401' cemented to surface w/ 200 sks Class A cement
having 3% C.C and 1/4 # flocele/sack.
4 1/2" CSG cemented @ 2245' with 125 sks of 50/50 pozmix w / 2% C.C
and 1/8 # flocele/sack.
Cement Top @ 1537'.

Date	Work-Over Information
	Water Injection well
9/1/82	Ran 9 jts 8 5/8", 20 #, H-40, 8 RD thd CSG w/ S.T.& C. set @ 401' &
	cemented w/ 200 sks Class 'A' cement having 3% C.C and 1/4 # flocele/sk.
9/5/82	Ran 70 jts 4 1/2", 9.5 #, K-55, 8 RD thd CSG w/ S.T.& C. set @ 2245' and
	cemented w/ 500 gals mud flush & w/ 125 sks of 50/50 poz w / 2% Calcium
	Chloride and 1/8 # flocele/sack.
11/17/82	Dowell performed frac w/ 250 gals 15% HCl acid, 145 Bbls 20 # GW and
	1500 lbs of 20/40 sand. B.D.P was 1050 psig, A.T.P was 850 psig, A.T.R
	was 13 B.P.M, I.S.I.P was 950 psig .
5/13/86	Ran 78 jts 2 3/8", 4.6 #, K-55, 10 RD TBG along with packer @ 2176'.
5/15/86	Pumping k-trol, displaced 250 gals xylene, 250 gals 15% HCl. Started
	polymer treatement.
5/16/86	Injected 1390 gals K-trol IVC. Displaced polymer w/ 1.5 BW @ 12 BPD

WELL T.D. 2255'

PREPARED BY:Babaji Chitturi

DATE: 08/06/2002

P.A.TALLMAN # 67- 47-087- 3663 - LI
SMITHFIELD DIST., ROANE CO., W.V.
FIELD : TARIFF.

Date	Work-Over Information
5/24/86	P.O.H with 2-3/8" TBG and HOWCO Packer. Ran back in hole w/ TBG and stinger.
7/30/88	P.O.H w/ 2 3/8" TBG and seal assembly.

PREPARED BY:Babaji Chitturi

DATE: 08/06/2002

3663

OG-10
Rev. - 9-71

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

RECEIVED
MAR 01 1983
OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

Rotary X Oil X
Cable ___ Gas ___
Recycling ___ Comb. ___
Water Flood X Storage ___
Disposal ___ ___ (Kind)

Quadrangle Tariff 7.5'
Permit No. 087-3663-L1

Company Pennzoil Company
Address P. O. Box 1588, Parkersburg, WV
Farm P. A. Tallman Acres 2350
Location (waters) Trace Fork
Well No. 67 Elev. 1171.53
District Smithfield County Roane
The surface of tract is owned in fee by
Doyle Jones
Address Lefthand, WV 25251
Mineral rights are owned by Anna Lee Collins
Address 1009 Main St., Pt. Pleasant, WV
Drilling Commenced 8-30-82
Drilling Completed 9-4-82
Initial open flow WIW cu. ft. ___ bbls.
Final production ___ cu. ft. per day ___ bbls.
Well open ___ hrs. before test ___ RP.
Well treatment details:
Water Injection Well
Fractured: 11-17-82 w/250 gls. 15% HCL, 145 Bbls. 20# gel 500# 20/40 sd
Perf: 2185-2205-21N

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	401	401	200 sks
7			
5 1/2			
4 1/2	2245	2245	125 sks.
3			
2			
Liners Used			

Attach copy of cementing record.

Coal was encountered at ___ Feet ___ Inches
Fresh water ___ Feet ___ Salt Water ___ Feet ___
Producing Sand Big Injun Depth ___

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Silt & Sand			0	70		
Sand			70	400		
Silt & Shale			400	416		
Sand & Shale			416	1846		
Salt Sand			1846	1961		
Silt & Shale			1961	1988		
Sand			1988	2000		
Silt & Sand			2000	2019		
Little Lime			2019	2048		
Blue Monday			2048	2052		
Pencil Cave			2052	2071		
Big Lime			2071	2112		
Loyalhanna			2112	2174		
Big Injun			2174	2185		
Injun			2185	2205		
Pocono Shale			2205	2230		
Total Depth				2230		

ROANE 3663-L1

WR-38
Rev. 5/08

API # 47-87-3663-P

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

RECEIVED
Office of Oil and Gas
SEP 22 2017
WV Department of
Environmental Protection

Farm name: Tallman, P.A. Operator Well No.: 67

LOCATION: Elevation: 1171.5' GL Quadrangle: Tariff
District: Smithfield County: Roane
Latitude: 38.651009 Feet South of 38 Deg. 39 Min. 03.6324 Sec.
Longitude: 81.211461 Feet West of 81 Deg. 12 Min. 40.1261 Sec.

Well Type: OIL _____ GAS water inj.

Company Triad Hunter, LLC
125 Putnam Street
Marietta, OH 45750

Coal Operator or Owner na

Coal Operator or Owner na

Agent Kim Arnold
Permit Issued Date 05/07/2015

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

Rick Duckworth and Robert Stewart being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 22nd day of May, 2017, and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
cement	2230'	2030'	1180' of 4 1/2 inch	1065'
cement	1230'	1130'		
cement	451"	351'		
cement	150'	0		

Description of monument: 5" pipe with API on attached plate and that the work of plugging and filling said well was completed on the 9th day of June 2017.

And further deponents saith not.

Rick Duckworth
Robert A. Stewart

Sworn and subscribe before me this 18 day of June 2017

My commission expires: April 13, 2024

Notary Public

OFFICIAL SEAL
Dawn R. Dobbins
Notary Public
State of West Virginia
My Commission Expire
April 13, 2024
PO Box 265
Gassaway, WV 26624

Affidavit reviewed by the Office of Oil and Gas: Title: 9-22-17
OOG Inspector.

"Pipeline"

Select County: (087) Roane

Enter Permit #: 3664

Get Data | Reset

Select datatypes: (Check All)

- Location
- Production
- Plugging
- Owner/Completion
- Stratigraphy
- Sample
- Pay/Show/Water
- Logs
- Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

3664

WV Geological & Economic Survey:

Well: County = 087 Permit = 3664

Report Time: Wednesday, May 02, 2018 2:24:31 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703664	Roane	3664	Smithfield	Tariff	Otter	38.653189	-81.208714	481839.2	4278312.4

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703664	9/8/1982	Original Loc	Completed	Doyle Jones/P A Tallman	68				Anna Lee Collins	Pennzoil Company			
4708703664	5/16/2017	Plugging	Completed	P.A. Tallman	68		P A Tallman		T A L Collins	Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	G_BEF	G_AFT	O_BEF	O_AFT	NGL_I
4708703664	9/8/1982	9/4/1982	1055	Ground Level	Tariff(Tlmn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2142		2142	0	0	0	0	
4708703664	5/16/2017	5/2/2017	1091	Ground Level																

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703664	9/8/1982	Horizon	Injection	Vertical			2086	Big Injun Price&e	0	0			

Production Gas Information: (Volumes in Mcf)

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703664	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703664	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703664	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703664	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703664	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703664	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703664	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703664	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703664	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703664	Pennzoil Company	1984	1,030	0	0	0	0	0	0	0	0	0	0	0	0
4708703664	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703664	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703664	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703664	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703664	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703664	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703664	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703664	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703664	Original Loc	1st Salt Sand	Well Record	1576	Reasonable	138	Reasonable	1055	Ground Level
4708703664	Original Loc	Little Lime	Well Record	1878	Reasonable	51	Reasonable	1055	Ground Level
4708703664	Original Loc	Blue Monday	Well Record	1929	Reasonable	6	Reasonable	1055	Ground Level
4708703664	Original Loc	Big Lime	Well Record	1952	Reasonable	110	Reasonable	1055	Ground Level
4708703664	Original Loc	Greenbrier Group	Well Record	1952	Reasonable	110	Reasonable	1055	Ground Level
4708703664	Original Loc	Big Injun Price&e	Well Record	2062	Reasonable	16	Reasonable	1055	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	L
4708703664	3	2141		G D C *	Y	N	3	2134	310	2141									310	2141	Y	Y	N		

Comment: *logs: caliper, ccl, perforation

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703664gde.tif
4708703664gpo.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708703664	5/16/2017	0

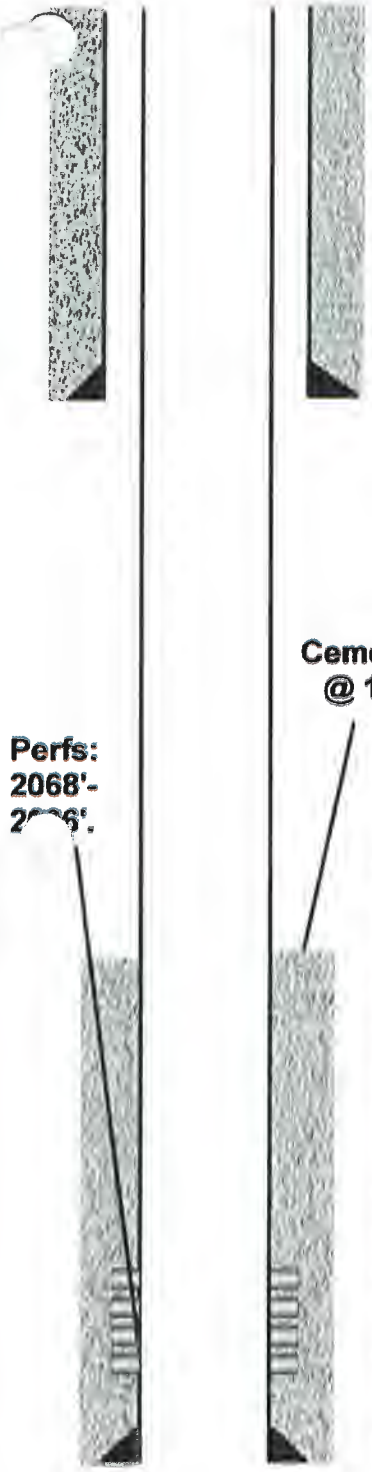
There is no Sample data for this well

☐ Proposed

☒ As is

P.A.TALLMAN # 68- 47-087- 3664 - LI
SMITHFIELD DIST., ROANE CO., W.V.
FIELD : TARIFF.

	Size	Wt.	Grde	Thrd	Depth	Sks/Cmt
CONDUCTOR						
SURFACE	8 5/8"	20 #	H-40	8 RD	302'	125 sks
INTERMEDIATE						
INTERMEDIATE						
PRODUCTION	4 1/2"	9.5 #	K-55	8 RD	2141'	175 sks
TUBING						



Perforation Information
BIG INJUN : 2068' - 2086' w / 19 Holes

Casing and Tubing Information
8 5/8" CSG set @ 302' cemented to surface w/ 125 sks Class A cement
having 3% C.C and 1/4 # flocele/sack.
4 1/2" CSG cemented @ 2141' with 175 sks of 50/50 pozmix w / 2% C.C
and 1/8 # flocele/sack.
Cement Top @ 1150'.

Date	Work-Over Information
	Water Injection well
9/6/82	Ran 7 jts 8 5/8", 20 #, H-40, 8 RD thd CSG w/ S.T.& C. set @ 302' &
	cemented w/ 125 sks Class 'A' cement having 3% C.C and 1/4 # flocele/sk.
9/9/82	Ran 66 jts 4 1/2", 9.5 #, K-55, 8 RD thd CSG w/ S.T.& C. set @ 2141' and
	cemented w/ 500 gals mud flush & w/ 175 sks of 50/50 poz w / 2% Calcium
	Chloride and 1/8 # flocele/sack.
11/17/82	Dowell performed frac w/ 250 gals 15% HCl acid, 145 Bbls 20 # GW and
	1500 lbs of 20/40 sand. B.D.P was 1450 psig, A.T.P was 1050 psig, A.T.R
	was 13 B.P.M, I.S.I.P was 950 psig .

WELL T.D. 2148'

PREPARED BY:Babaji Chitturi

DATE: 08/06/2002

3L664

OG-10
Rev. - 9-71

RECEIVED
MAR 01 1983
OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

Rotary X Oil X
Cable ____ Gas ____
Recycling ____ Comb. ____
Water Flood X Storage ____
Disposal ____ (Kind)

Quadrangle Tariff 7.5'
Permit No. 087-3664-L1

Company Pennzoil Company
Address P. O. Box 1588, Parkersburg, WV 26101
Farm P. A. Tallman Acres 2350
Location (waters) Trace Fork
Well No. 68 Elev. 1054.95
District Smithfield County Roane
The surface of tract is owned in fee by
Doyle D. Jones
Address Lefthand, WV 25251
Mineral rights are owned by Anna Lee Collins
Address 1009 Main St., Pt. Pleasant, WV
Drilling Commenced 9-4-82
Drilling Completed 9-8-82
Initial open flow WIW cu. ft. ____ bbls.
Final production ____ cu. ft. per day ____ bbls.
Well open ____ hrs. before test ____ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	302	302	125 sks.
7			
5 1/2			
4 1/2	2141	2141	175 sks.
3			
2			
Liners Used			

Attach copy of cementing record.

Well treatment details:
Water Injection Well

Fractured: 11-17-82 w/250 gls. 15% HCL, 145 Bbls. 20# gel, 1500# 20/40 sd.

Perf: 2068-2086-19H

Coal was encountered at ____ Feet ____ Inches
Fresh water ____ Feet ____ Salt Water ____ Feet ____
Producing Sand Big Injun Depth ____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Silt & Shale			0	12		
Silt & Sand			12	122		
Sand			122	168		
Silt & Sand			168	251		
Sand			251	266		
Silt & Shale			266	302		
Silt & Shale			302	316		
Shale & Sand			316	1576		
Salt Sand			1576	1714		
Silt & Shale			1714	1742		
Sand			1742	1770		
Silt & Sand			1770	1784		
Sand			1784	1838		
Silt & Shale			1838	1850		
Silt & Sand			1850	1867		
Sand			1867	1878		
Little Lime			1878	1929		
Blue Monday			1929	1935		
Pencil Cave			1935	1952		
Big Lime			1952	2062		
Big Injun			2062	2078		
Pocono Shale			2078	2142		
Total Depth				2142		

ROANE 3664-L1

WR-38
Rev. 5/08

API # 47-87-3664-P

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: Tallman, P.A. Operator Well No.: 68

LOCATION: Elevation: 1055 GL Quadrangle: Tariff
District: Smithfield County: Roane
Latitude: 38.651392 Feet South of 38 Deg. 39 Min. 05.0112 Sec.
Longitude: 81.208688 Feet West of 81 Deg. 12 Min. 31.2766 Sec.

Well Type: OIL _____ GAS water inj.

Company Triad Hunter, LLC
125 Putnam Street
Marietta, OH 45750

Coal Operator or Owner na

Coal Operator or Owner na

Agent Kim Arnold
Permit Issued Date 05/07/2015

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

Rick Duckworth and Robert Stewart being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 2nd day of May, 2017, and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
cement	2140'	1940'	520' of 4 1/2 inch	1621'
cement	1105'	1005'		
cement	550'	450'		
cement	350'	250'		
cement	150'	0		

Description of monument: 5" pipe with API on attached plate and that the work of plugging and filling said well was completed on the 16th day of May, 2017.

And further deponents saith not. Rick Duckworth
Robert A. Stewart

Sworn and subscribe before me this 18 day of June, 2017

My commission expires: April 13, 2024

Notary Public

OFFICIAL SEAL
Dawn R. Dobbins
Notary Public
State of West Virginia
My Commission Expires
April 13, 2024
PO Box 265
Gassaway, WV 26624

Affidavit reviewed by the Office of Oil and Gas: _____ Title: OOG Inspector
9-22-17

10/27/2017

WVGES GEOLOGY UNDERLIES IT ALL
"Pipeline"

Select County: (087) Roane
Enter Permit #: 3674
Get Data | Reset

Select datatypes: (Check All)
- Location
- Owner/Completion
- Pay/Show/Water
- Production
- Stratigraphy
- Logs
- Plugging
- Sample
- Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 3674

Report Time: Tuesday, May 19, 2020 6:18:41 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703674	Roane	3674	Smithfield	Tariff	Other	38.650378	-81.214567	481329.2	4278001.7

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703674	9/-/1982	Original Loc	Completed	D Jones/W M Looney	33					Pennzoil Company			
4708703674	9/16/2013	Plugging	Completed	Triad Hunter	33		W M Looney			Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	F_AFT	TI_AFT	BH
4708703674	9/-/1982	-/-/-	1081	Ground Level	Tariff(Tlmn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2164		2164		0	0	0	0			0	0	0	0	
4708703674	9/16/2013	9/7/2013	1081	Ground Level																							

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703674	9/-/1982	Horizon	Injection	Vertical			2124	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703674	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703674	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703674	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703674	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703674	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703674	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703674	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703674	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703674	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703674	Pennzoil Company	1984	1,013	0	0	0	0	0	0	0	0	0	0	0	0
4708703674	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703674	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703674	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703674	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703674	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703674	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703674	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703674	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703674	Original Loc	3rd Salt Sand	Well Record	1754	Reasonable	180	Reasonable	1081	Ground Level
4708703674	Original Loc	Little Lime	Well Record	1934	Reasonable	34	Reasonable	1081	Ground Level
4708703674	Original Loc	Blue Monday	Well Record	1972	Reasonable	18	Reasonable	1081	Ground Level
4708703674	Original Loc	Big Lime	Well Record	1990	Reasonable	104	Reasonable	1081	Ground Level
4708703674	Original Loc	Greenbrier Group	Well Record	1990	Reasonable	104	Reasonable	1081	Ground Level
4708703674	Original Loc	Big Injun (Price&eq)	Well Record	2094	Reasonable	34	Reasonable	1081	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703674	8	2163		G,D,C	Y	N	8	2156	335	2163									335	2163	Y	Y	N						

Comment: *logs: caliper

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703674gdc.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)

3674

l laterolog
m dipmeter
n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
o other[1]
s sonic or velocity
t temperature (includes borehole temperature, BHT, differential temperature, etc.)
z spontaneous potential or potential

mechanical log types:

b cement bond
c caliper
o other[1]
p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708703674	9/16/2013	0

There is no Sample data for this well

3674

W. M. Looney 33 3674
8703674P

CC-10
Rev. - 9-71

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

WELL RECORD

Rotary X Oil X
Cable ___ Gas ___
Recycling ___ Comb. ___
Water Flood X Storage ___
Disposal ___ ___ (Kind

Quadrangle Tariff 7.5'
Permit No. 087-3674-L1

Company Pennzoil Company
Address P.O.Box 1588, Parkersburg, WV 26101
Farm W. M. Looney Acres 480
Location (waters) Trace Fork
Well No. 33 Elev. 1081.05'
District Smithfield County Roane
The surface of tract is owned in fee by
~~Doris Jenne~~ Trad
Address Left Hand, WV 25251
Mineral rights are owned by Keith Crihfield
Address P.O.Box 431, Spencer, WV
Drilling Commenced 9-19-82
Drilling Completed 9-23-82
Initial open flow WTW cu. ft. ___ bbls.
Final production ___ cu. ft. per day ___ bbls.
Well open ___ hrs. before test ___ RP.
Well treatment details:

Water Injection Well

Fractured: 11-11-82 w/250 gls. 15% HCL, 145 BGW, 1500# 20/40 sd

Perf: 2000-06-6H; 2112-24/12H

Casing and Tubing	Used in Drilling	Left in Well	Cement fill u Cu. ft. (Sks.)
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	335	335	130 sks.
7			
5 1/2			
4 1/2	2176	2176	175 sks.
3			
2			
Liners Used			

Attach copy of cementing record.

Coal was encountered at ___ Feet ___ Inches
Fresh water ___ Feet ___ Salt Water ___ Feet ___
Producing Sand Big Injun Depth ___

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Silt & Sand			0	324		
Silt & Shale			324	406		
Silt, Sand, Shale			406	1604		
Salt Sand			1604	1736		
Silt & Sand			1736	1754		
Salt Sand			1754	1934		
Little Lime			1934	1968		
Blue Monday			1968	1972		
Pencil Cave			1972	1990		
Big Lime			1990	2094		
Big Injun			2094	2128		
Pocono Shale			2128	2164		
Total Depth				2164		

3674

WR-38
DATE:

API # 47-8703674

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

W. M. Looney #33

Farm name: Triad Hunter Operator Well No.: 33

LOCATION: Elevation: 1081' Quadrangle: Newton
District: Smithfield County: Roane
Latitude: _____ Feet South of ____ Deg. ____ Min. ____ Sec.
Longitude: _____ Feet West of ____ Deg. ____ Min. ____ Sec.

Well Type: OIL ____ GAS ____ Luquid Injection

Company: Triad Hunter
5669 Wallback Rd.
Wallback, WV. 25285

Coal Operator or Owner: NO Coal

Coal Operator or Owner: _____

Agent: Mike Horan

Permit Issued Date: 5/01/2013

AFFIDAVIT UTM GPS Northing 4278001.65
Easting 481329.17

STATE OF WEST VIRGINIA,
County of Roane ss:

Joseph Duckworth and Cody Hammack being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well, and Ed Gainer Oil andGas Inspector representing the Director, say that said work was commenced on the 7 day of Sept. 2013 and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement	1950'	1850'	1307 of 4½"	869'
Cement	1357'	1257'		
Cement	1081'	981'		
Cement	385'	0'		
Cell between all plugs.				

Description of monument: 7" pipe with API numbers. and that the work of plugging and filling said well was completed on the 16 day of Sept. 2013

And furthur deponents saith not. Joseph Duckworth
Cody Hammack

Sworn and subscribe before me this 23 day of September, 2013
My commission expires: April 12, 2021
Patricia L. Summers
Notary Public

Inspector
Did not witness all plugs

Official Seal
Notary Public, State of West Virginia
Patricia L. Summers
675 Bear Run Rd.
Orma, WV 25285
My commission expires April 12, 2021

"Pipeline"

Select County: (087) Roane

Enter Permit #: 3675

Get Data | Reset

Select datatypes: (Check All)

- Location
- Owner/Completion
- Pay/Show/Water
- Production
- Stratigraphy
- Logs
- Plugging
- Sample
- Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 87 Permit = 3675

Report Time: Tuesday, May 19, 2020 6:22:12 PM

Location Information: View Ma

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703675	Roane	3675	Smithfield	Tariff	Otter	38.651967	-81.2152	481274.5	4278178.1

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703675	9/-/1982	Original Loc	Completed	D Jones/W M Looney	34					Pennzoil Company			
4708703675	6/1/1993	Worked Over	Completed	Doyle Jones		34			Keith Crihfield	Pennzoil Products Company			
4708703675	10/14/2013	Plugging	Completed	Triad Hunter	34		W M Looney			Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_A
4708703675	9/-/1982	-/-/-	950	Ground Level	Tariff(Tlmn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2048		2048		0	0	0	0			0	0	0	
4708703675	6/1/1993	5/27/1993	950	Ground Level	Tariff(Tlmn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Cable Tool	Acid+Frac	2048		0		0	0	0	0			0	0	0	
4708703675	10/14/2013	-/-/-	1114	Ground Level																						

Comment: 10/14/2013 Revised affidavit submitted

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703675	9/-/1982	Horizon	Injection	Vertical			1982	Big Injun (Price&eq)	0	0			
4708703675	6/1/1993	Horizon	Injection	Vertical	1974	Big Injun (Price&eq)	1982	Big Injun (Price&eq)	0	0			
4708703675	6/1/1993	Horizon	Injection	Vertical	1989	Big Injun (Price&eq)	1999	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703675	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703675	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703675	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703675	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703675	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703675	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703675	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703675	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703675	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703675	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703675	Pennzoil Company	1984	1,013	0	0	0	0	0	0	0	0	0	0	0	0
4708703675	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703675	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703675	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703675	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703675	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703675	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703675	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703675	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703675	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703675	Original Loc	3rd Salt Sand	Well Record	1702	Reasonable	108	Reasonable	950	Ground Level
4708703675	Original Loc	Little Lime	Well Record	1810	Reasonable	32	Reasonable	950	Ground Level
4708703675	Original Loc	Blue Monday	Well Record	1848	Reasonable	18	Reasonable	950	Ground Level
4708703675	Original Loc	Big Lime	Well Record	1866	Reasonable	104	Reasonable	950	Ground Level
4708703675	Original Loc	Greenbrier Group	Well Record	1866	Reasonable	104	Reasonable	950	Ground Level
4708703675	Original Loc	Big Injun (Price&eq)	Well Record	1970	Reasonable	34	Reasonable	950	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703675	10	2047		G D C	Y	N	10	2040	250	2047									250	2047	Y	Y	N						

Comment: *logs: caliper

3675

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703675gdc.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708703675	10/4/2011	0
4708703675	10/14/2013	0

There is no Sample data for this well

3675

W.M. Looney 34 3675
Q703675P

OG-10
Rev. - 9-71

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

Rotary X Oil X
Cable ___ Gas ___
Recycling ___ Comb. ___
Water Flood X Storage ___
Disposal ___ (Kind)

Quadrangle Tariff 7.5'
Permit No. 087-3675-Li

Company Pennzoil Company
Address P.O.Box 1588, Parkersburg, WV 26101
Farm W. M. Looney Acres 480
Location (waters) Trace Fork
Well No. 34 Elev. 950.22'
District Smithfield County Roane
The surface of tract is owned in fee by
~~Boyle Jones~~ Triad
Address Left Hand, WV 25251
Mineral rights are owned by Keith Crihfield
Address P.O.Box 431, Spencer, WV
Drilling Commenced 9-23-82
Drilling Completed 9-27-82
Initial open flow WIW cu. ft. ___ bbls.
Final production ___ cu. ft. per day ___ bbls.
Well open ___ hrs. before test ___ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	250	250	95 sks.
7			
5 1/2			
4 1/2	2038	2038	175 sks.
3			
2			
Liners Used			

Attach copy of cementing record.

Well treatment details:
Water Injection Well
Fractured: 11-11-82 w/250 gls. 15% HCL, 145 BGW, 1500# 20/40
Perf: 1989-99-10H; 1974-82/8H

Coal was encountered at ___ Feet ___ Inches
Fresh water ___ Feet ___ Salt Water ___ Feet ___
Producing Sand Big Injun Depth ___

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Silt, Sand, Shale			0	1500		
Salt Sand			1500	1570		
Silt & Sand			1570	1578		
Salt Sand			1578	1628		
Silt & Sand			1628	1702		
Salt Sand			1702	1810		
Little Lime			1810	1842		
Blue Monday			1842	1848		
Pencil Cave			1848	1866		
~~Big Lime~~			1866	1970		
~~Big Injun~~			1970	2004		
Pocono Shale			2004	2048		
Total Depth				2048		

3675

WR-35
Rev. 8/00

API # 47-8703675

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: W. M. Looney Operator Well No.: 34

LOCATION: Elevation: 1114' Quadrangle: Newton
District: Smithfield County: Doane
Latitude: _____ Feet South of ____ Deg. ____ Min. ____ Sec.
Longitude: _____ Feet West of ____ Deg. ____ Min. ____ Sec.

Easting 481274
Northing 4278178

Well Type: Oil X Gas ____

Company: Triad Hunter
5669 WAllback Rd.
Wallback, WV. 25285

Coal Operator or Owner: NO COAL

Coal Operator or Owner: _____

Agent: Mike Horan
Permit Issued Date: 06/21/2011

RECEIVED
Office of Oil & Gas
MAR 17 2014
WV Department of Environmental Protection

VOID

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Doane ss:

Rick Duckworth and Robert Stewart being duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above named well which commenced on the 3 day of October, 20 11 and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement	2050'	1950'		2080' of 4 1/2" CTS
Cement	1114'	1014'		478' of 8 5/8" csg
Cement	100'	0'		

Description of monument: 8"pipe with API numbers and that the work of plugging and filling said well was completed on the 4 day of October, 20 11

And further deponents saith not. Rick Duckworth
Robert Stewart

Sworn and subscribed before me this 16 day of January, 20 14

My commission expires: 10-7-2022

Timothy E Keaton
Notary Public

OFFICIAL SEAL
Timothy Keaton
Notary Public
State of West Virginia
My Commission Expires
October 07, 2023
1106 Big Sandy Rd
Left Hand, WV 25251

Affidavit reviewed by the Office of Oil and Gas: _____ Title: Inspector

Did Not witness all plugs

"Pipeline"

Select County: (087) Roane

Enter Permit #: 3766

Get Data | Reset

Select datatypes: (Check All)

- Location
- Owner/Completion
- Pay/Show/Water
- Production
- Stratigraphy
- Logs
- Plugging
- Sample
- Btm Hole Loc

Table Definitions
County Code Translations
Permit-Numbering Scheme
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 3766

Report Time: Tuesday, May 19, 2020 6:30:28 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703766	Roane	3766	Smithfield	Tariff	Otter	38.653272	-81.206639	482019.8	4278321.2

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703766	7/27/1983	Original Loc	Completed	Doyle D Jones	69					Pennzoil Company			
4708703766	7/13/2015	Plugging	Completed	Triad Hunter LLC	69		P A Tallman		T A L Collins	Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	BH
4708703766	7/27/1983	-/-/-	932	Ground Level	Tariff(Tlmn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2044		2044		0	0	0	0			0	0	0	0	
4708703766	7/13/2015	7/10/2015	1027	Ground Level																							

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703766	7/27/1983	Horizon	Injection	Vertical	1954		1968	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703766	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703766	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703766	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703766	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703766	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703766	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703766	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703766	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703766	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703766	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703766	Pennzoil Company	1984	1,030	0	0	0	0	0	0	0	0	0	0	0	0
4708703766	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703766	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703766	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703766	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703766	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703766	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703766	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703766	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703766	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703766	Original Loc	3rd Salt Sand	Well Record	1644	Reasonable	89	Reasonable	932	Ground Level
4708703766	Original Loc	Little Lime	Well Record	1753	Reasonable	70	Reasonable	932	Ground Level
4708703766	Original Loc	Pencil Cave	Well Record	1823	Reasonable	15	Reasonable	932	Ground Level
4708703766	Original Loc	Big Lime	Well Record	1838	Reasonable	108	Reasonable	932	Ground Level
4708703766	Original Loc	Greenbrier Group	Well Record	1838	Reasonable	108	Reasonable	932	Ground Level
4708703766	Original Loc	Big Injun (Price&eq)	Well Record	1946	Reasonable	26	Reasonable	932	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703766	4	2042		G,D,C	Y	N	4	2036	204	2042									204	2042	Y	Y	N						

Comment: *logs: caliper

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703766gdc.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:

d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
e photoelectric adsorption (PE or Pe, etc.)

3766

g gamma ray
i induction (includes dual induction, medium induction, deep induction, etc.)
l laterolog
m dipmeter
n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
o other[1]
s sonic or velocity
t temperature (includes borehole temperature, BHT, differential temperature, etc.)
z spontaneous potential or potential

mechanical log types:

b cement bond
c caliper
o other[1]
p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708703766	7/13/2015	0

There is no Sample data for this well

3766

8703766P

RECEIVED
Office of Oil and Gas
MAR 16 2015
WV Department of
Environmental Protection

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

WELL RECORD

Quadrangle Tariff 7.5'

Permit No. 47-087-3766

Rotary X Oil ___
Cable ___ Gas ___
Recycling ___ Comb
Water Flood X Storag
Disposal ___

Company Pennzoil Company
Address P.O. Box 1588, Parkersburg, WV 26101
Farm P. A. Tallman Acres 2350
Location (waters) Sycamore Fork
Well No. 69 Elev. 931.71'
District Smithfield County Roane
The surface of tract is owned in fee by
Doyle O. Jones
Address Left Hand, WV 25251
Mineral rights are owned by Anna Lee Collins
Address 1009 Main St., Point Pleasants, WV
Drilling Commenced 7-23-83
Drilling Completed 7-27-83
Initial open flow WTK cu. ft. ___ bbls.
Final production ___ cu. ft. per day ___ bbls.
Well open ___ hrs. before test ___ RP

Casing and Tubing	Used in Drilling	Left in Well	Cement fi Cu. ft. (S
Size			
20-16			
Cond.			
13-10"			
9 5/8			
8 5/8			
7	210-	210	100 sks
5 1/2			
4 1/2	2034	2034	75 sks
3			
2			
Liners Used			

Attach copy of cementing record.

Well treatment details:

Fractured: 10/5/83 w/250 gals. 15% HCL, 160 BBW, 1500# 20/40 sd

Perf: 1954-1968/19[illegible]

Coal was encountered at NR Feet ___ Inches ___
Fresh water NR Feet ___ Salt Water NR Feet ___
Producing Sand ___ Depth ___

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sand			0	208		
Shale			208	580		
Sand, Shale			580	1644		
Salt Sand			1644	1733		
Shale			1733	1753		
Little Lime			1753	1823		
Pencil Cave			1823	1838		
Big Lime			1838	1946		
Big Injun			1946	1972		
Shale			1972	2044		
Total Depth				2044		

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Rev. 5/08

API # 47-8703766

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: TALLMAN, P.A. Operator Well No.: P.A. TALLMAN 69

LOCATION: Elevation: 932 Quadrangle: TARIFF

District: SMITHFIELD County: ROANE

Latitude: _____ Feet South of _____ Deg. _____ Min. _____ Sec.

Longitude: _____ Feet West of _____ Deg. _____ Min. _____ Sec.

Well Type: OIL _____ GAS _____

Company TRIAD HUNTER, LLC
125 PUTNAM STREET
MARIETTA, OHIO

Coal Operator or Owner

Agent KIM ARNOLD

Coal Operator or Owner

Permit Issued Date 04/30/2015

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of ROANE ss:

TERRY REXROAD and DARRELL SHAMBLIN being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 10 day of JULY, 2015, and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
CEMENT	2030	1809		210' OF 7"
6% GEL	1809	1066	1066' OF 4 1/2	968' OF 4 1/2
CEMENT	1066	840		
6% GEL	840	225		
CEMENT	225	SURFACE		
6% GEL				
CEMENT				

Description of monument: 7" CASING WITH DATE AND API # WELDED ON and that the work of plugging and filling said well was completed on the 13 day of JULY, 2015.

And further deponents saith not.

Sworn and subscribe before me this 3 day of August 2015

My commission expires: 10-25-2023

Brian Marks
Notary Public

OFFICIAL SEAL
Notary Public, State Of West Virginia
BRIAN MARKS
348 Big Creek
Walton, WV. 25286
My Commission Expires October 25, 2023

Affidavit reviewed by the Office of Oil and Gas: _____ Title: OOG Inspector

10-17-17

"Pipeline"

Select County: (087) Roane
Enter Permit #: 3767
Get Data | Reset

Select datatypes: (Check All)
Location | Production | Plugging
Owner/Completion | Stratigraphy | Sample
Pay/Show/Water | Logs | Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 3767

Report Time: Tuesday, May 19, 2020 6:37:45 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703767	Roane	3767	Smithfield	Tariff	Otter	38.654577	-81.210576	481677.5	4278466.8

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703767	6/15/1983	Original Loc	Completed	John Shamblin	36					Pennzoil Company			
4708703767	9/19/2013	Plugging	Completed	Triad Hunter	36		W M Loones			Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	FOR	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	BI
4708703767	6/15/1983	-/-/-	1127	Ground Level	Tariff(Tlmn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2184		2184		0	0	0	0			0	0	0	0	
4708703767	9/19/2013	9/13/2013	1127	Ground Level																							

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703767	6/15/1983	Horizon	Injection	Vertical	2138		2172	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703767	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703767	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703767	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703767	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703767	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703767	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703767	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703767	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703767	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703767	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703767	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703767	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703767	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703767	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703767	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703767	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703767	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703767	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703767	Original Loc	2nd Salt Sand	Well Record	1655	Reasonable	145	Reasonable	1127	Ground Level
4708703767	Original Loc	3rd Salt Sand	Well Record	1820	Reasonable	104	Reasonable	1127	Ground Level
4708703767	Original Loc	Little Lime	Well Record	1980	Reasonable	36	Reasonable	1127	Ground Level
4708703767	Original Loc	Blue Monday	Well Record	2016	Reasonable	6	Reasonable	1127	Ground Level
4708703767	Original Loc	Pencil Cave	Well Record	2022	Reasonable	16	Reasonable	1127	Ground Level
4708703767	Original Loc	Big Lime	Well Record	2038	Reasonable	100	Reasonable	1127	Ground Level
4708703767	Original Loc	Greenbrier Group	Well Record	2038	Reasonable	100	Reasonable	1127	Ground Level
4708703767	Original Loc	Big Injun (Price&eq)	Well Record	2138	Reasonable	34	Reasonable	1127	Ground Level

There is no Wireline (E-Log) data for this well

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708703767	9/19/2013	0

There is no Sample data for this well

3767

W.M. Looney 36 3767

87 03767 P

OG-10
Rev. - 9-71

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Rotary X Oil ____
Cable ____ Gas ____
Recycling ____ Comb. ____
Water Flood X Storage ____
Disposal ____ ____ (Kind)

Quadrangle Tariff 7.5'

Permit No. 47-087-3767

Company Pennzoil Company
Address P. O. Box 1588, Parkersburg, WV 26101
Farm W. M. Looney Acres 480
Location (waters) Trace Fork
Well No. 36 Elev. 1127.08
District Smithfield County Roane
The surface of tract is owned in fee by
~~John Shamblin~~ Triad
Address Left Hand, WV
Mineral rights are owned by Keith Crihfield
Address P.O.Box 431, Spencer, WV
Drilling Commenced 6-11-83
Drilling Completed 6-15-83
Initial open flow WIW cu. ft. ____ bbls.
Final production ____ cu. ft. per day ____ bbls.
Well open ____ hrs. before test ____ RP.
Well treatment details:

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8			
7	362	362	95 sks
5 1/2			
4 1/2	2140	2140	70 sks.
3			
2			
Liners Used			

Attach copy of cementing record.

Fractured: 7/15/83 w/250 gls. 15% HCL, 184 BGW, 1500# 20/40 sd

Coal was encountered at ____ Feet ____ Inches
Fresh water ____ Feet ____ Salt Water ____ Feet ____
Producing Sand ____ Depth ____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sand			0	24		
Silt & Shale			24	48		
Shale			48	55		
Silt & Shale			55	88		
Silt & Sand			88	108		
Shale, Sand, Silt			108	1655		
Salt Sand			1655	1800		
Silt & Sand			1800	1820		
Salt Sand			1820	1924		
Shale, Sand			1924	1980		
Little Lime			1980	2016		
Blue Monday			2016	2022		
Pencil Cave			2022	2038		
~~Big Lime~~			2038	2138		
Big Injun			2138	2172		
Pocono Shale			2172	2184		
Total Depth				3184		

3767

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Rev. 5/08

API # 47-8703767

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: Triad Hunter Operator Well No.: 36 W. M. Looney

LOCATION: Elevation: 1127' Quadrangle: Newton

District: Smithfield County: Roane

Latitude: _____ Feet South of ____ Deg. ____ Min. ____ Sec.

Longitude: _____ Feet West of ____ Deg. ____ Min. ____ Sec.

Northing 4278466.79
Easting 481677.52

Well Type: OIL ____ GAS ____

Company Triad Hunter
5669 Walback Rd.
Wallback WV. 25285

Coal Operator or Owner: No Coal

Coal Operator or Owner: _____

Agent _____

Permit Issued Date 3/29/2013

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

Rick Duckworth and Robert Stewart being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 13 day of Sept., 20__, and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
			450' of 4½"	1690' of 4½"
Cement	2150'	2050'		
Cement	1175'	1075'		362' of 7"
Cement	500'	310'		
Cement	100'	0'		
Gel between all plugs.				

Description of monument: 7" pipe with API numbers and that the work of plugging and filling said well was completed on the 19 day of Sept. 2013

And further deponents saith not. Rick Duckworth
Robert Stewart

Sworn and subscribe before me this 26 day of September 2013

My commission expires: April 17, 2021

Patricia Summers
Notary Public

Affidavit reviewed by the Office of Oil and Gas: _____ Title: Inspector

Did not witness all plugs

RECEIVED
Office of Oil and Gas
SEP 30 2013
WV Department of Environmental Protection

Official Seal
Notary Public, State of West Virginia
Patricia L. Summers
675 Beef Run Rd.
Orma, WV 25268
My commission expires April 17, 2021

3768

"Pipeline"

Select County: 087 Roane

Enter Permit #: 3768

Get Data | Reset

Select datatypes: (Check All)

- Location
- Owner/Completion
- Pay/Show/Water
- Production
- Stratigraphy
- Logs
- Plugging
- Sample
- Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 87 Permit = 3768

Report Time: Tuesday, May 18, 2020 6:40:17 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703768	Roane	3768	Smithfield	Tariff	Otter	38.656753	-81.208541	481855.2	4278707.8

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703768	6/19/1983	Original Loc	Completed	John Shamblin	37					Pennzoil Company			
4708703768	7/12/2013	Plugging	Completed	Triad Hunter	37		W M Looney			Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	BH
4708703768	6/19/1983	-/-/-	1106	Ground Level	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2163		2163		0	0	0	0			0	0	0	0	
4708703768	7/12/2013	7/3/2013	1106	Ground Level																							

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703768	6/19/1983	Horizon	Injection	Vertical	2134		2150	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703768	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703768	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703768	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703768	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703768	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703768	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703768	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703768	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703768	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703768	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703768	Pennzoil Company	1984	1,013	0	0	0	0	0	0	0	0	0	0	0	0
4708703768	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703768	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703768	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703768	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703768	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703768	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703768	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703768	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703768	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703768	Original Loc	2nd Salt Sand	Well Record	1640	Reasonable	165	Reasonable	1106	Ground Level
4708703768	Original Loc	3rd Salt Sand	Well Record	1834	Reasonable	85	Reasonable	1106	Ground Level
4708703768	Original Loc	Little Lime	Well Record	1964	Reasonable	34	Reasonable	1106	Ground Level
4708703768	Original Loc	Blue Monday	Well Record	1998	Reasonable	5	Reasonable	1106	Ground Level
4708703768	Original Loc	Pencil Cave	Well Record	2003	Reasonable	17	Reasonable	1106	Ground Level
4708703768	Original Loc	Greenbrier Group	Well Record	2020	Reasonable	106	Reasonable	1106	Ground Level
4708703768	Original Loc	Big Lime	Well Record	2020	Reasonable	102	Reasonable	1106	Ground Level
4708703768	Original Loc	Keener	Well Record	2122	Reasonable	4	Reasonable	1106	Ground Level
4708703768	Original Loc	Big Injun (Price&eq)	Well Record	2126	Reasonable	28	Reasonable	1106	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703768	2	2176		G D C *	Y	N	2	2176	362	2162									362	2172	Y	Y	N						

Comment: *logs: caliper, CCL

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

3768

FILENAME
47087[illegible]
47087[illegible]

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLUG_DT	DEPTH_FBT
4708703768	7/12/2013	

There is no Sample data for this well

W.M. Looney 37 3768
8703768P

OG-10
Rev. - 9-71

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

WELL RECORD

Rotary X Oil ____
Cable ____ Gas ____
Recycling ____ Comb. ____
Water Flood X Storage ____
Disposal ____ (Kind)

Quadrangle Tariff 7.5'

Permit No. 47-087-3768

Company Pennzoil Company
Address P. O. Box 1588, Parkersburg, WV 26101
Farm W. M. Looney Acres 480
Location (waters) Trace Fork
Well No. 37 Elev. 1105.52
District Smithfield County Roane
The surface of tract is owned in fee by ~~John Shamblin~~ Triad
Address Left Hand, WV
Mineral rights are owned by Keith Crihfield
Address P.O.Box 431, Spencer, WV
Drilling Commenced 6-15-83
Drilling Completed 6-19-83
Initial open flow WIW cu. ft. ____ bbls.
Final production ____ cu. ft. per day ____ bbls.
Well open ____ hrs. before test ____ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond.			
13-10"			
9 5/8			
8 5/8			
7	361	361	90 sks.
5 1/2			
4 1/2	2198	2190	75 sks.
3			
2			
Liners Used			

Attach copy of cementing record.

Well treatment details:
Fractured: 9/28/83 w/250 gls. 15% HCL, 168 Bbls. 20# gel, 1500# 20/40 sd

Perf: 2134-2150/15H

Coal was encountered at ____ Feet ____ Inches
Fresh water ____ Feet ____ Salt Water ____ Feet ____
Producing Sand ____ Depth ____

Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Silt & Sand	0	12		
Shale	12	100		
Sand	100	120		
Silt & Sand	120	127		
Sand	127	145		
Shale	145	256		
Silt, Shale, Sand	256	1640		
Salt Sand	1640	1805		
Shale	1805	1834		
Salt Sand	1834	1919		
Shale, Sand	1919	1964		
Little Lime	1964	1998		
Blue Monday	1998	2003		
Pencil Cave	2003	2020		
Big Lime	2020	2122		
Keener	2122	2126		
Big Injun	2126	2154		
Pocono Shale	2154	2163		
Total Depth		2163		

3768

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Rev. 5/08

API # 47 8703768

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: Triad Hunter Operator Well No.: ~~Newton~~ W. M. Looney #37

LOCATION: Elevation: 1105' Quadrangle: ~~Newton~~ Tariff 7.5'
District: Smithfield County: Roane
Latitude: _____ et South of _____ y. _____ n. _____ c.
Longitude: _____ et West of _____ eg. _____ min. _____ ec.

Northing 4278707.84'
Easting 481855.15

Well Type: OIL _____ GAS _____ Liquid Injection

Company Triad Hunter
5669 Wallback Rd.
Wallback WV. 25285

Coal Operator or Owner: No coal

Coal Operator or Owner: _____

Agent Tim Keaton
Permit Issued Date 4/9/2013

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

Joe Duckworth and Cody Hammick being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 3 day of July 20 13 and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement	2160'	2060'	870' of 4½"	1250' of 4½"
Cement	1105'	1005'		
Cement	840'	740'		
Cemet	100'			
Gel between all plugs				

Description of monument: 7" pipe with API numbers. and that the work of plugging and filling said well was completed on the 12 day of July 2013

And further deponents saith not. Joe Duckworth
Cody Hammick

Sworn and subscribe before me this 26 day of September 2013

Patricia Summers
Notary Public

Office of Oil and Gas
OCT 23 2013
WV Department of Environmental Protection

Official Seal
Notary Public State of West Virginia
Patricia L. Summers
115 Bear Run Rd.
Cairo, WV 26268
My commission expires April 12, 2021

My commission expires: April 12, 2021

Affidavit reviewed by the Office of Oil and Gas: _____ Title: Inspector

D.O not witness

"Pipeline"

Select County: (087) Roane
Enter Permit #: 3769
Get Data | Reset

Select datatypes: (Check All)
Location | Production | Plugging
Owner/Completion | Stratigraphy | Sample
Pay/Show/Water | Logs | Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 3769

Report Time: Tuesday, May 19, 2020 6:53:58 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703769	Roane	3769	Smithfield	Tariff	Otter	38.658348	-81.207936	481908.2	4278884.7

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703769	6/23/1983	Original Loc	Completed	John Shamblin	38					Pennzoil Company			
4708703769	7/5/2013	Plugging	Completed	Triad Hunter	38		W M Looney			Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	F_AFT	TI_AFT	Bt
4708703769	6/23/1983	-/-/-	1099	Ground Level	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2227		2227		0	0	0	0			0	0	0	0	
4708703769	7/5/2013	6/28/2013	1099	Ground Level																							

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703769	6/23/1983	Horizon	Injection	Vertical	2130		2148	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703769	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703769	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703769	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703769	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703769	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703769	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703769	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703769	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703769	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703769	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703769	Pennzoil Company	1984	1,013	0	0	0	0	0	0	0	0	0	0	0	0
4708703769	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703769	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703769	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703769	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703769	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703769	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703769	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703769	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703769	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703769	Original Loc	2nd Salt Sand	Well Record	1648	Reasonable	136	Reasonable	1099	Ground Level
4708703769	Original Loc	3rd Salt Sand	Well Record	1823	Reasonable	89	Reasonable	1099	Ground Level
4708703769	Original Loc	Little Lime	Well Record	1954	Reasonable	40	Reasonable	1099	Ground Level
4708703769	Original Loc	Blue Monday	Well Record	1994	Reasonable	6	Reasonable	1099	Ground Level
4708703769	Original Loc	Pencil Cave	Well Record	2000	Reasonable	18	Reasonable	1099	Ground Level
4708703769	Original Loc	Big Lime	Well Record	2018	Reasonable	105	Reasonable	1099	Ground Level
4708703769	Original Loc	Greenbrier Group	Well Record	2018	Reasonable	105	Reasonable	1099	Ground Level
4708703769	Original Loc	Big Injun (Price&eq)	Well Record	2123	Reasonable	29	Reasonable	1099	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD	FRO
4708703769	10	2226		G D C*	Y	N	10	2220	344	2226									344	2226	Y	Y	N							

Comment: *logs: caliper, CCL

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here
geologic log types:

3769

FILENAME
4708703769.dc.jp
4708703769.o.tif

d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
e photoelectric adsorption (PE or Pe, etc.)
g gamma ray
i induction (includes dual induction, medium induction, deep induction, etc.)
l laterolog
m dipmeter
n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
o other[1]
s sonic or velocity
t temperature (includes borehole temperature, BHT, differential temperature, etc.)
z spontaneous potential or potential

mechanical log types:

b cement bond
c caliper
o other[1]
p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708703769	7/5/2013	0

There is no Sample data for this well

3769

3769

WR-38
Rev. 5/08

API # 47-8703769

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

W.M. Looney

Farm name: Triad Hunter Operator Well No.: # 38

LOCATION: Elevation: 1099' Quadrangle: Newton
District: Smithfield County: Roane
Latitude: _____ Feet South of _____ Deg. _____ Min. _____ Sec. Northing 4278884.69
Longitude: _____ Feet West of _____ Deg. _____ Min. _____ Sec. Easting 481908.18

Well Type: OIL _____ GAS _____ Injection

Company Triad Hunter
5669 Wallback Rd.
Wallback WV 25285

Coal Operator or Owner No Coal

Coal Operator or Owner

Agent Tim Keaton
Permit Issued Date 4/9/2013

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

Joe Duckworth and Cody Hammick being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 28 day of June, 2013 and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement	2210'	2110'	870' of 4½"	1347' of 4½"
Cement	1150'	1050'		350' of 7"
Cement	920'	820'		
Cement	250'	350'		
Cement	100'	0'		
Gel between all plugs.				

Description of monument: 7" pipe With API numbers. and that the work of plugging and filling said well was completed on the 5 day of July, 2013.

And further deponents saith not. [signature]
[signature]

Sworn and subscribe before me this 26 day of September, 2013

My commission expires: April 12, 2021

Patricia Summers
Notary Public

Affidavit reviewed by the Office of Oil and Gas: [signature] Title: Inspector

Did Not Witness all plugs

RECEIVED
Office of Oil and Gas
OCT 23 2013
Notary Public, State of West Virginia
Patricia L. Summers
675 Deer Run Rd.
My Commission Expires
Environmental Protection

W.M. Looney 38 3769
8703769P

OG-10
Rev. 9-71

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Rotary X Oil ____
Cable ____ Gas ____
Recycling ____ Comb. ____
Water Flood X Storage ____
Disposal ____ ____ (Kind)

Quadrangle Tariff 7.5'

Permit No. 47-087-3769

Company Pennzoil Company
Address P.O.Box 1588, Parkersburg, WV 26101
Farm W. M. Looney Acres 480
Location (waters) Trace Fork
Well No. 38 Elev. 1099.40
District Smithfield County Roane
The surface of tract is owned in fee by
~~John Shamblin~~ Triad
Address LeftHand, WV
Mineral rights are owned by Keith Crihfield
Address P.O.Box 431, Spencer, WV
Drilling Commenced 6-19-83
Drilling Completed 6-23-83
Initial open flow WIW cu. ft. ____ bbls.
Final production ____ cu. ft. per day ____ bbls.
Well open ____ hrs. before test ____ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size			
20-16			
Cond.			
13-10"			
9 5/8			
8 5/8			
7	350	350	120 sks.
5 1/2			
4-1/2	2217	2217	75 sks.
3			
2			
Liners Used			

Attach copy of cementing record.

Well treatment details:
Fractured: 9-28-83 w/250 gls. 15% HCL, 165 bbls. 20# gel, 1500# 20/40 sd.
Perf: 2130-48/1PH

Coal was encountered at ____ Feet ____ Inches
Fresh water ____ Feet ____ Salt Water ____ Feet ____
Producing Sand ____ Depth ____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sand & Silt				74		
Silt & Shale			74	102		
Sand			102	141		
Silt & Sand			141	360		
Silt, Shale, Sand			360	1648		
Salt Sand			1648	1784		
Silt & Sand			1784	1823		
Salt Sand			1823	1912		
Silt, Shale, Sand			1912	1954		
Little Lime			1954	1994		
Blue Monday			1994	2000		
Pencil Cave			2000	2018		
Big Lime			2018	2123		
Big Injun			2123	2152		
Pocono Shale			2152	2227		
Total Depth				2227		

8703771P

OG-10
Rev. - 9-71

RECEIVED
[illegible] - 1983
OIL & GAS DIVISION
DEPT. OF MINES

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Tariff 7.5'

Permit No. 47-087-3771-Li

Rotary X Oil ___
Cable ___ Gas ___
Recycling ___ Comb. ___
Water Flood X Storage ___
Disposal ___ (Kin

Company Pennzoil Company
Address P.O. Box 1588, Parkersburg, WV 26101
Farm M. J. Snodgrass Acres 600
Location (waters) Trace Fork
Well No. 100 Elev. 1010.47'
District Smithfield County Roane
The surface of tract is owned in fee by Lee Boggs
Address Left Hand, WV
Mineral rights are owned by W. Gary Avers
Address P.O. Box 2066, Toluca Lake, Cal
Drilling Commenced 7-31-83
Drilling Completed 8-2-83
Initial open flow WIW cu. ft. ___ bbls.
Final production ___ cu. ft. per day ___ bbls.
Well open ___ hrs. before test ___ RP.
Well treatment details:

Casing and Tubing	Used in Drilling	Left in Well	Cement fill Cu. ft. (Sks
Size 20-16			
Cond.			
13-10"			
9 5/8			
8 5/8	342	342	150 sks.
7			
5 1/2			
4 1/2	2033	2033	110 sks.
3			
2			
Liners Used			

Attach copy of cementing record.

Fractured: [illegible] 22/83
Open Hole: Big Injun w/250 gls. 15% HF acid, 226 BBW, 1500# 20/40 sd.

Coal was encountered at NR Feet ___ Inches
Fresh water NR Feet ___ Salt Water NR Feet ___
Producing Sand ___ Depth ___

Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale	0	10		
Silt & Sand	10	46		
Silt, Shale, Sand	46	1548		
Salt Sand	1548	1700		
Silt, Sand, Shale	1700	1856		
Little Lime	1856	1900		
Blue Monday	1900	1908		
Pencil Cave	1908	1924		
Big Lime	1924	2033		
Keener	2033	2042		
Big Injun	2042	2062		
Pocono Shale	2062	2096		
Total Depth		2096		

ROANE 3771

3771

WR-38
Rev. 5/08

API # 47-8703771

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

M.J. Snodgrass

Farm name: Lee Boggs Operator Well No.: #100

LOCATION: Elevation: 1010' Quadrangle: ~~Smxxhxxxxx~~ Tariff

District: Smithfield County: Roane

Latitude: 12,250' Feet South of 38 Deg. 40 Min. 00 Sec.

Longitude: 1,810' Feet West of 81 Deg. 10 Min. 00 Sec.

Well Type: OIL ____ GAS Injection

Company: Fried Hunter
5669 Wallback Rd.
Wallback WV. 25285

Coal Operator or Owner: No Coal

Coal Operator or Owner:

Agent: Tim Keaton

Permit Issued Date: 4/9/2013

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

Rick Duckworth and Robert Stewart being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 3 day of June, 2013, and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement	1962'	2062'		
Cement	1100'	1200'		
Cement	960'	1060'		
Cement	400'	300'		
Cement	100'	0'		
Gel between all plugs.				

RECEIVED
Office of Oil and Gas
OCT 23 2013
WV Department of Environmental Protection

Description of monument: &" pipe with API numbers. and that the work of plugging and filling said well was completed on the 14 day of June, 2013

And further deponents saith not. Rick Duckworth
Robert Stewart

Sworn and subscribe before me this 26 day of September, 2013

Official Seal
Notary Public, State of West Virginia
Patricia L. Summers
675 Bear Run Rd.
Ontra, WV 25260
My commission expires April 12, 2021

My commission expires: April 12 2021

Patricia L Summers
Notary Public

Affidavit reviewed by the Office of Oil and Gas: [signature] Title: Inspector

Did not witness all plugs

WVGES GEOLOGY UNDERLIES IT ALL

"Pipeline"

Select County: 087 Roane

Enter Permit #: 3771

Get Data | Reset

Select datatypes: ☐ (Check All)

☑ Location ☑ Production ☑ Plugging
☑ Owner/Completion ☑ Stratigraphy ☑ Sample
☑ Pay/Show/Water ☑ Logs ☑ Btm Hole Loc

Table Description
County Code Transactions
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 87 Permit = 3771

Report Time: Tuesday, May 19, 2020 6:55:59 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703771	Roane	3771	Smithfield	Tariff	Otter	38.661684	-81.209973	481731.8	4279255.3

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703771	8/2/1983	Original Loc	Completed	Lee Boggs		100				Pennzoil Company			
4708703771	6/14/2013	Plugging	Completed	Lee Boggs		100	M J Snodgrass			Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	BH
4708703771	8/2/1983	-/-/-	1010	Ground Level	Tariff(Tlmn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2096		2096		0	0	0	0			0	0	0	0	
4708703771	6/14/2013	6/3/2013	1010	Ground Level																							

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703771	8/2/1983	Horizon	Injection	Vertical	2042		2062	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703771	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703771	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703771	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703771	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703771	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703771	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703771	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703771	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703771	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703771	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703771	Pennzoil Company	1984	221	0	0	0	0	0	0	0	0	0	0	0	0
4708703771	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703771	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703771	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703771	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703771	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703771	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703771	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703771	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703771	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703771	Original Loc	Salt Sands (undiff)	Well Record	1548	Reasonable	152	Reasonable	1010	Ground Level
4708703771	Original Loc	Little Lime	Well Record	1856	Reasonable	44	Reasonable	1010	Ground Level
4708703771	Original Loc	Blue Monday	Well Record	1900	Reasonable	8	Reasonable	1010	Ground Level
4708703771	Original Loc	Pencil Cave	Well Record	1908	Reasonable	16	Reasonable	1010	Ground Level
4708703771	Original Loc	Big Lime	Well Record	1924	Reasonable	109	Reasonable	1010	Ground Level
4708703771	Original Loc	Greenbrier Group	Well Record	1924	Reasonable	118	Reasonable	1010	Ground Level
4708703771	Original Loc	Keener	Well Record	2033	Reasonable	9	Reasonable	1010	Ground Level
4708703771	Original Loc	Big Injun (Price&eq)	Well Record	2042	Reasonable	20	Reasonable	1010	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_OF	LOG_MSRD_FRO
4708703771	10	2099		G,D,I,C *			10	2088	328	2094			2027	2099					328	2099	Y	Y	N						

Comment: *logs: caliper, orientation; 25 inch scale

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here
geologic log types:

3771

FILENAME
4708_03771_dc.tif
4708_03771ico.tif

d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
e photoelectric adsorption (PE or Pe, etc.)
g gamma ray
i induction (includes dual induction, medium induction, deep induction, etc.)
l laterolog
m dipmeter
n neutron (includes neutron porosity, sidewall neutron–SWN, etc.)
o other[1]
s sonic or velocity
t temperature (includes borehole temperature, BHT, differential temperature, etc.)
z spontaneous potential or potential

mechanical log types:

b cement bond
c caliper
o other[1]
p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL–Nuclear Cement Top Locator, radioactive tracer, tension

Plugging information:

API	PLG_DT	DEPTH_PBT
4708703771	6/14/2013	0

There is no Sample data for this well

WVGES
GEOLOGY UNDERLIES IT ALL
"Pipeline"

Select County: (087) Roane
Enter Permit #: 3772
Get Data | Reset

Select datatypes: (Check All)
Location | Production | Plugging
Owner/Completion | Stratigraphy | Sample
Pay/Show/Water | Logs | Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 3772

Report Time: Tuesday, May 19, 2020 7:01:08 PM

Location Information: View Ma

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703772	Roane	3772	Smithfield	Tariff	Otter	38.659944	-81.208307	481876.3	4279061.9

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703772	6/28/1983	Original Loc	Completed	Ozva McGlothin	101					Pennzoil Company			
4708703772	6/22/2013	Plu in	Completed	Harr Pennington	101		M J Sno rass			Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	BH
4708703772	6/28/1983	-/-/-	1007	Ground Level	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2125		2125		0	0	0	0			0	0	0	0	
4708703772	6/22/2013	8/15/2013	1007	Ground Level																							

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703772	6/28/1983	Horizon	Injection	Vertical	2032		2060	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells onl Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703772	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703772	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703772	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703772	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703772	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703772	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703772	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703772	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703772	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703772	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703772	Pennzoil Company	1984	221	0	0	0	0	0	0	0	0	0	0	0	0
4708703772	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703772	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703772	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703772	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703772	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703772	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703772	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703772	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703772	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703772	Original Loc	3rd Salt Sand	Well Record	1576	Reasonable	284	Reasonable	1007	Ground Level
4708703772	Original Loc	Little Lime	Well Record	1860	Reasonable	46	Reasonable	1007	Ground Level
4708703772	Original Loc	Blue Monday	Well Record	1906	Reasonable	6	Reasonable	1007	Ground Level
4708703772	Original Loc	Pencil Cave	Well Record	1912	Reasonable	17	Reasonable	1007	Ground Level
4708703772	Original Loc	Big Lime	Well Record	1929	Reasonable	103	Reasonable	1007	Ground Level
4708703772	Original Loc	Greenbrier Group	Well Record	1929	Reasonable	103	Reasonable	1007	Ground Level
4708703772	Original Loc	Big Injun (Price&eq)	Well Record	2032	Reasonable	28	Reasonable	1007	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703772	50	2134		G,D,C,I,N,*	Y	N	50	2134	266	2134	266	2134	306	2134					50	2134	Y	Y	N						

Comment: *logs: caliper, SP, tension, MSI, SW, VS, PHIE

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here
geologic log types:
d density (includes bulk density, compensated density, density porosity, grain density, matrix density, etc.)

3772

47_8703772_dnczo.tif
4708703772pindczo.tif
4708703772_izc_.tif

e photoelectric adsorption (PE or Pe, etc.)
g gamma ray
i induction (includes dual induction, medium induction, deep induction, etc.)
l lateralog
m dipmeter
n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
o other[1]
s sonic or velocity
t temperature (includes borehole temperature, BHT, differential temperature, etc.)
z spontaneous potential or potential

mechanical log types:

b cement bond
c caliper
o other[1]
p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708703772	6/22/2013	0

There is no Sample data for this well

3722

Snodgrass 101 3772
8703772 P

OG-10
Rev. - 9-71

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

Quadrangle Tariff 7.5'

Permit No. 47-087-3772-Li

Rotary X Oil X
Cable ___ Gas ___
Recycling ___ Comb. ___
Water Flood X Storage ___
Disposal ___ (Kind)

Company Pennzoil Company
Address P.O.Box 1588 Parkersburg, WV 26101
Farm M. J. Snodgrass Acres 600
Location (waters) Sycamore Fork
Well No. 101 Elev. 1007
District Smithfield County Roane
The surface of tract is owned in fee by
~~Ozua McGlothlin~~ Hary Pennington
Address Left Hand, WV
Mineral rights are owned by W. Gary Ayers
Address P.O.Box 2066, Toluca, Calif. 91602
Drilling Commenced 6-24-83
Drilling Completed 6-28-83
Initial open flow TTW cu. ft. ___ bbls.
Final production ___ cu. ft. per day ___ bbls.
Well open ___ hrs. before test ___ RP.
Well treatment details:
Fractured: 10/5/83 w/250 gls. 15% HF acid, 160 BGW, 1500# 20/40 s
Big Injun

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size			
20-16			
Cond.			
13-10"			
9 5/8			
8 5/8	307	307	150 sks.
7			
5 1/2			
4 1/2	2123	2123	140 sks.
3			
2			
Liners Used			

Attach copy of cementing record.

Coal was encountered at ___ Feet ___ Inches
Fresh water ___ Feet ___ Salt Water ___ Feet ___
Producing Sand ___ Depth ___

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sand, Silt, Shale			0	100		
Silt & Sand			100	310		
Shale			310	336		
Silt & Shale			336	402		
Sand			402	410		
Silt, Shale, Sand			410	1576		
Salt Sand			1576	1860		
Little Lime			1860	1906		
Blue Monday			1906	1912		
Pencil Cave			1912	1929		
Big Lime			1929	2032		
Big Injun			2032	2060		
Pocono Shale			2060	2125		
Total Depth				2125		

3772

WR-38
Rev. 5/08

API # 47-8701772

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

M. J. Snodgrass

Farm name: Harry Pennington Operator Well No.: #101

LOCATION: Elevation: 1007' Quadrangle: Tariff
District: Smithfield County: Roane
Latitude: _____ Feet South of _____ Deg. _____ Min. _____ Sec.
Longitude: _____ Feet West of _____ Deg. _____ Min. _____ Sec.

Well Type: OIL _____ GAS _____ Injection

Company Triad Hunter Coal Operator
5669 Wallback Rd. or Owner
Wallback WV 25285
Coal Operator
Agent Tim keaton or Owner
Permit Issued Date 4/9/2013

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

Joe Duckworth and Cody Hammick being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 15 day of June 2013 and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement	2110'	2010'	870' of 4½"	1253' of 4½"
Cement	1055'	955'		307 of 8 5/8
Cement	920'	820'		
Cement	100'	0'		

RECEIVED
Office of Oil and Gas
OCT 28 2013
WV Department of Environmental Protection

Description of monument: 7" pipe with API numbers and that the work of plugging and filling said well was completed on the 22 day of June 2013

And further deponents saith not. [signature]
[signature]

Sworn and subscribe before me this 26 day of September 2013

My commission expires: April 12, 2021 Patricia Summers
Notary Public

Official Seal
Notary Public, State of West Virginia
Patricia L. Summers
575 Bear Run Rd.
Orma, WV 25268
My commission expires April 12, 2021

Affidavit reviewed by the Office of Oil and Gas: [signature] Title: Inspector

Did not witness all plugs

WVGES GEOLOGY UNDERLIES IT ALL "Pipeline"

Select County: (087) Roane
Enter Permit #: 3773
Get Data | Reset

Select datatypes: (Check All)
Location, Owner/Completion, Pay/Show/Water, Production, Stratigraphy, Logs, Plugging, Sample, Btm Hole Loc

Table Descriptions
Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 87 Permit = 3773

Report Time: Tuesday, May 19, 2020 7:04:19 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703773	Roane	3773	Smithfield	Tariff	Otter	38.560524	-81.206088	482069.5	4279125.8

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703773	7/3/1983	Original Loc	Completed	George McQuain	102					Pennzoil Company			
4708703773	6/11/2013	Plugging	Completed	Gladys Carver	102		M J Snodgrass			Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	B
4708703773	7/3/1983	-/-/-	1015	Ground Level	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2135		2135		0	0	0	0			0	0	0	0	
4708703773	6/11/2013	6/6/2013	1015	Ground Level																							

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703773	7/3/1983	Horizon	Injection	Vertical	2054		2062	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703773	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703773	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703773	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703773	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703773	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703773	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703773	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703773	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703773	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703773	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703773	Pennzoil Company	1984	221	0	0	0	0	0	0	0	0	0	0	0	0
4708703773	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703773	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703773	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703773	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703773	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703773	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703773	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703773	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703773	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703773	Original Loc	Little Lime	Well Record	1865	Reasonable	47	Reasonable	1015	Ground Level
4708703773	Original Loc	Blue Monday	Well Record	1912	Reasonable	4	Reasonable	1015	Ground Level
4708703773	Original Loc	Pencil Cave	Well Record	1916	Reasonable	20	Reasonable	1015	Ground Level
4708703773	Original Loc	Greenbrier Group	Well Record	1936	Reasonable	104	Reasonable	1015	Ground Level
4708703773	Original Loc	Big Lime	Well Record	1936	Reasonable	104	Reasonable	1015	Ground Level
4708703773	Original Loc	Big Injun (Price&eq)	Well Record	2040	Reasonable	28	Reasonable	1015	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703773	4	2134		G,D,C,*	Y	N	4	2128	298	2132									298	2134	Y	Y	N						

Comment: *logs: caliper, CCL, perforation

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703773gdc.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here
geologic log types:
d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
e photoelectric adsorption (PE or Pe, etc.)

3773

4708703773gpo.tif

g gamma ray
i induction (includes dual induction, medium induction, deep induction, etc.)
l laterolog
m dipmeter
n neutron (includes neutron porosity, sidewall neutron–SWN, etc.)
o other[1]
s sonic or velocity
t temperature (includes borehole temperature, BHT, differential temperature, etc.)
z spontaneous potential or potential

mechanical log types:

b cement bond
c caliper
o other[1]
p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708703773	6/11/2013	0

There is no Sample data for this well

3713

3773

WR-38
Rev. 5/08

API # 47-8703773

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

M. J. Snodgrass

Farm name: Gladys Carper Operator Well No.: # 102

LOCATION: Elevation: 1014' Quadrangle: Tariff
District: Smithfield County: Roane
Latitude: 11,120' Feet South of 38 Deg. 40 Min. 00 Sec.
Longitude: 2,270' Feet West of 81 Deg. 10 Min. 00 Sec.

Northing 4279125.81
EASTING Injection 482069.52

Well Type: OIL _____ GAS _____

Company: Triad Hunter
5669 Wallback Rd
Wallback WV. 25285

Coal Operator or Owner: No Coal

Coal Operator or Owner:

Agent: Tim Keaton

Permit Issued Date: 4/9/2013

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

Rick Duckworth and Robert Stewart being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 6 day of June 2013 and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement	2025'	1925'		
Cement	1340'	1240'		
Cement	1040'	940'		
Cement	100'	0'		

RECEIVED
Office of Oil and Gas
OCT 23 2013
WV Department of Environmental Protection

Description of monument: 7" pipe with API numbers. and that the work of plugging and filling said well was completed on the 11 day of June 2013

And further deponents saith not. Rick Duckworth
Robert Stewart

Notary Public State of West Virginia
Patricia L. Summers
675 Beer Run Rd.
Grove, WV 25268
My commission expires April 12, 2021

Sworn and subscribe before me this 26 day of September, 2013

My commission expires: April 12, 2021 Patricia Summers
Notary Public

Affidavit reviewed by the Office of Oil and Gas: _____ Title: Inspector

Did not witness all plugs

Snodgrass 102
8703773P

3773

OG-10
Rev. - 5-71

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Tariff 7.5'

Permit No. 47-087-3773-Li

Rotary X Oil.
Cable ___ Gas
Recycling ___ Con
Water Flood X Stor
Disposal ___

Company Pennzoil Company
Address P.O. Box 1586, Parkersburg, WV 26101
Farm M. J. Snodgrass Acres 600
Location (waters) Trace Fork
Well No. 102 Elev. 1014.81'
District Smithfield County Roane
The surface of tract is owned in fee by
~~George McQuain~~ Lee Boggs
Address Left Hand, WV
Mineral rights are owned by W. Gary Ayers
Address P.O Box 2066 Tolusa Lake, Cal
Drilling Commenced 6-29-83
Drilling Completed 7-3-83
Initial open flow WIW cu. ft. ___ bbls.
Final production ___ cu. ft. per day ___ bbls.
Well open ___ hrs. before test ___ RP.
Well treatment details:

Casing and Tubing	Used in Drilling	Left in Well	Cement Cu. ft.
Size			
20-16			
Cond.			
13-10"			
9 5/8			
8 5/8	297	297	110 s
7			
5 1/2			
[illegible]	2122	2122	75 s
3			
2			
Liners Used			

Attach copy of cementing record.

Fractured: 9-29-83 Big Injun w/250 gls. 15 % HCL, 160 BGW, 1500# 20/40 sc

Perf: 2054-2062/16H

Coal was encountered at NR Feet ___ Inches
Fresh water NR Feet ___ Salt Water NR Feet ___
Producing Sand ___ Depth ___

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sand			0	10		
Shale			10	20		
Sand			20	100		
Shale, Sand			100	1704		
Silt, Sand			1704	1752		
Sand, Shale			1752	1835		
Silt, Shale			1835	1850		
Sand			1850	1865		
Little Lime			1865	1912		
Blue Monday			1912	1916		
Pencil Cave			1916	1936		
Big Lime			1936	2040		
Big Injun			2040	2068		
Pocono Shale			2068	2135		
Total Depth				2135		

"Pipeline"

Select County: (087) Roane
Enter Permit #: 3777
Get Data | Reset

Select datatypes: (Check All)
- Location
- Owner/Completion
- Pay/Show/Water
- Production
- Stratigraphy
- Logs
- Plugging
- Sample
- Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 3777

Report Time: Tuesday, May 19, 2020 7:10:10 PM

Location Information: View Ma

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703777	Roane	3777	Smithfield	[illegible]	[illegible]	[illegible]68	-81.206456	482036.8	4278820.1

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703777	7/17/1983	Original Loc	Completed	Delmas Conley		72				Pennzoil Company			
4708703777	4/15/1986	Worked Over	Completed	Delmas Conley	72					Pennzoil Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	T_AFT	TI_AI
4708703777	7/17/1983	7/13/1983	923	Ground Level	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2048		2048		0	0	0	0			0	0	0	
4708703777	4/15/1986	-/-/1986	923	Ground Level	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Development Well	Development Well	Oil	unknown	unknown	2048		0		0	0	0	1			0	0	0	

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703777	7/17/1983	Horizon	Injection	Vertical	1958	Big Injun (Price&eq)	1968	Big Injun (Price&eq)	0	0			
4708703777	4/15/1986	Pay	Oil	Vertical	1958	Big Injun (Price&eq)	1968	Big Injun (Price&eq)	0	1			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703777	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703777	Pennzoil Company	1984	1.030	0	0	0	0	0	0	0	0	0	0	0	0

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703777	Original Loc	Little Lime	Well Record	1784	Reasonable	40	Reasonable	924	Ground Level
4708703777	Original Loc	Blue Monday	Well Record	1824	Reasonable	8	Reasonable	924	Ground Level
4708703777	Original Loc	Pencil Cave	Well Record	1832	Reasonable	15	Reasonable	924	Ground Level
4708703777	Original Loc	Big Lime	Well Record	1847	Reasonable	107	Reasonable	924	Ground Level
4708703777	Original Loc	Big Injun (Price&eq)	Well Record	1954	Reasonable	22	Reasonable	924	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703777	16	2046		G,D,C,I,S.*	Y	N	16	2046	143	2046			200	2029			1128	2014	174	2046	Y	Y	N						

Comment: *logs: caliper, tension, PE, CCL, cement bond, perforation dept

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703777gbpso.tif
4708703777gdc.tif
4708703777gdceo.tif
4708703777glo.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

3777

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708703777	10/22/1992	0

There is no Sample data for this well

3777

3777

CC-10
Rev. 1-81

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Rotary X Oil
Cable ____ Gas
Recycling ____ Comb
Water Flood X Stor
Disposal ____

Quadrangle Tariff 7.5'

Permit No. 47-087-3777-L1

Company Pennzoil Company
Address P.O. Box 1588 Parkersburg WV 26101
Farm P. A. Tallman Acres 2350
Location (waters) Sycamore Fork
Well No. 72 Elev. 924'
District Smithfield County Roane
The surface of tract is owned in fee by
Delmas Conley
Address Left Hand, WV
Mineral rights are owned by Anna Lee Collins
Address 1000 Main St. Point Pleasant WV
Drilling Commenced 7-15-83
Drilling Completed 7-17-83
Initial open flow MCF cu. ft. ____ bbls.
Final production ____ cu. ft. per day ____ bbls.
Well open ____ hrs. before test ____ RP.
Well treatment details:

Casing and Tubing	Used in Drilling	Left in Well	Cement Cu. ft.
Size-			
20-16			
Cond.			
13-10"			
9 5/8			
8 5/8			
7	212	212	100
5 1/2			
4 1/2	2044	2044	70
3			
2			
Liners Used			

Attach copy of cementing record.

Fractured: 8/29/83 Big Injun w/250 gls. 15% HCL. 160 BGW. 1500 # 20/40 s

Perf: 1958-68/10H

Coal was encountered at NP Feet ____ Inches
Fresh water NP Feet ____ Salt Water NP Feet
Producing Sand ____ Depth ____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sand			0	25		
Silt & Sand			25	198		
Silt & Shale			198	242		
Silt,Shale,Sand			242	1462		
Salt Sand			1462	1744		
Silt,Shale,Sand			1744	1784		
Little Lime			1784	1824		
Blue Monday			1824	1832		
Pencil Cave			1832	1847		
Big Lime			1847	1954		
Big Injun			1954	1976		
Pocono Shale			1976	2048		
Total Depth				2048		

3777

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks

Date Oct 22 1983

PENN. OIL CO.

APPROVED [illegible] Owner

3111

WR-38
28-Sep-92

RECEIVED
DEC 29 92
WV Division of Environmental Protection

API # 47- 87-03777-P

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
SECTION OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: CONLEY, ROY Operator Well No.:P.A. TALLMAN#72

LOCATION: Elevation: 923.61 Quadrangle: TARIFF
District: SMITHFIELD County: ROANE
Latitude: 3290 Feet South of 38 Deg. 40 Min. 0 Sec.
Longitude 11350 Feet West of 81 Deg. 10 Min. 0 Sec.

Well Type: OIL X GAS ____

Company: Pennzoil Products Company
P.O. Box 5519
Vienna, WV 26105

Coal Operator or Owner N/A

Agent: J.A. Crews

Coal Operator or Owner ____

Permit Issued: 09/28/92

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

Daniel M. Moore and Harold Sewers being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well, and Homer Dougherty Oil and Gas Inspector representing the Director, say that said work was commenced on the 20th day of October, 19 92, and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED		LEFT
Cement	2010	1735	4 1/2	1191.5	841.5
Gel	1735	1150	7	0	212
Cement	1150	1050			
Gel	1050	290			
Cement	290	190			
Gel	190	50			
Cement	50	Surface			

Description of monument: 1 Joint 4 1/2" Casing extending 30" above surface.
and that the work of plugging and filling said well was completed on the 22nd day of October, 19 92.

And furthur deponents saith not.

Daniel M. Moore
Harold Sewers

Sworn and subscribe before me this 16th day of December, 19 92
My commission expires: June 7 2000

Notary Public

Oil and Gas Inspector: H. H. Dougherty

ROANE 3777-P

WVGES GEOLOGY UNDERLIES IT ALL "Pipeline"

Select County: (087) Roane
Enter Permit #: 3876
Get Data | Reset

Select datatypes: (Check All)
Location, Production, Plugging, Owner/Completion, Stratigraphy, Sample, Pay/Show/Water, Logs, Btm Hole Loc

Table Descriptions
County Code Translations
Permit Number Descriptions
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 87 Permit = 3876

Report Time: Tuesday, May 19, 2020 7:13:42 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703876	Roane	3876	Smithfield	Tariff	Otter	38.883134	-81.210577	481679.6	4279416.3

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703876	10/18/1984	Original Loc	Completed	Lee Boggs		105				Pennzoil Company			
4708703876	5/31/2013	Plugging	Completed	Lee Boggs	105		M J Snodgrass			Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FIELD	ROD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	B
4708703876	10/18/1984	6/2/1984	1052	Ground Level	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2144		2144		0	0	0	0			0	0	0	0	
4708703876	5/31/2013	5/21/2013	1051	Ground Level																							

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703876	10/18/1984	Water	Fresh Water	Vertical			65						0
4708703876	10/18/1984	Water	Fresh Water	Vertical			160						0
4708703876	10/18/1984	Water	Salt Water	Vertical			1600						0
4708703876	10/18/1984	Horizon	Injection	Vertical	2055		2096	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703876	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703876	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703876	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703876	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703876	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703876	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703876	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703876	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703876	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703876	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703876	Pennzoil Company	1984	221	0	0	0	0	0	0	0	0	0	0	0	0
4708703876	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703876	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703876	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703876	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703876	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703876	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703876	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703876	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703876	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703876	Original Loc	3rd Salt Sand	Well Record	1536	Reasonable	228	Reasonable	1052	Ground Level
4708703876	Original Loc	Little Lime	Well Record	1878	Reasonable	57	Reasonable	1052	Ground Level
4708703876	Original Loc	Blue Monday	Well Record	1935	Reasonable	6	Reasonable	1052	Ground Level
4708703876	Original Loc	Big Lime	Well Record	1958	Reasonable	109	Reasonable	1052	Ground Level
4708703876	Original Loc	Greenbrier Group	Well Record	1958	Reasonable	109	Reasonable	1052	Ground Level
4708703876	Original Loc	Big Injun (Price&eq)	Well Record	2067	Reasonable	33	Reasonable	1052	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703876	20	2138		G.D.C.*	Y	N	20	2126	424	2132									424	2138	Y	Y	N						

Comment: *logs: caliper, CCL, cement bond

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

3876

FILENAME
4708_03876_bo.tif
47_8703876_dc-(1

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:

- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:

- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_FBT
4708703876	5/31/2013	0

There is no Sample data for this well

3876

FORM IV-35
(REVERSE)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Fractured: 10-18-84

Big Injun: w/250 gls. 15% HCL, 170 BW, 1500# 20/40 sd

Perforated: 2080-2096/16H

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Silt & Shale	0	64	
Sand	64	82	
Shale	82	228	
Silt,Sand	228	414	
Shale	414	610	
Sand,Shale,Silt	610	1536	
Salt Sand	1536	1794	
Shale,Sand	1794	1878	
Little Lime	1878	1935	
Blue Monday	1935	1941	
Pencil Cave	1941	1958	
Big Lime	1958	2067	
Big Injun	2067	2100	
Shale	2100	2144	
Total Depth		2144	

(Attach separate sheets as necessary)

Pennzoil Company
Well Operator

By: Curtis A. Lewis

Date: January 10, 1985

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

WR-38
Rev. 5/08

API # 47/8703876

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

M. T. Snodgrass

Farm name: Lee Boggs Operator Well No.: # 105

LOCATION: Elevation: 1051' Quadrangle: Newton
District: Smithfield County: Roane
Latitude: _____ Feet South of ____ Deg. ____ Min. ____ Sec. Northing 4279416.30
Longitude: _____ Feet West of ____ Deg. ____ Min. ____ Sec. Easting 481679.64

Well Type: OIL ____ GAS ____ Injection

Company Triad Hunter
5669 Wallback Rd.
Wallback WV. 25285

Coal Operator or Owner: No Coal

Coal Operator or Owner: _____

Agent Tim Keaton
Permit Issued Date 4/9/2013

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

Rick Duckworth and Robert Stewart being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 21 day of May 2013 and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement	2100'	2000'	1440' of 4½"	431' of 4½"
Cement	1440'	1340'		431' of 7"
Cement	1100	1000'		
Cement	480'	380'		
Cement	100'	0'		
Gel between all plugs.				

Description of monument: 7" pipe with API numbers. and that the work of plugging and filling said well was completed on the 31 day of May, 2013.

And further deponents saith not. Rick Duckworth
Robert Stewart

Official Seal
Notary Public, State of West Virginia
Patricia L. Summers
175 Bear Run Rd.
Orma, WV 25268
My commission expires April 12, 2021

Sworn and subscribe before me this 26 day of September, 2013

My commission expires: April 12, 2021

Patricia Summers
Notary Public

Affidavit reviewed by the Office of Oil and Gas: _____ Title: Inspector

Did not witness all plugs

WVGES GEOLOGY UNDERLIES IT ALL "Pipeline"

Select County: (087) Roane
Enter Permit #: 3877
Get Data | Reset

Select datatypes: (Check All)
Location | Production | Plugging
Owner/Completion | Stratigraphy | Sample
Pay/Show/Water | Logs | Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 87 Permit = 3877

Report Time: Tuesday, May 19, 2020 7:14:21 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703877	Roane	3877	Smithfield	Tariff	Otter	38.55179	-81.206653	482018	4278089

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703877	6/6/1984	Original Loc	Completed	Doyle D Jones	74					Pennzoil Company			
4708703877	7/17/2015	Plugging	Completed	Triad Hunter LLC	74		P A Tallman		T A L Collins	Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	B
4708703877	6/6/1984	-/-/-	907	Ground Level	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Nat/Open H	1994		1994		0	0	0	0			0	0	0	0	
4708703877	7/17/2015	7/15/2015	980	Ground Level																							

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703877	6/6/1984	Water	Fresh Water	Vertical			104						0
4708703877	6/6/1984	Water	Salt Water	Vertical			1633						0
4708703877	6/6/1984	Horizon	Injection	Vertical	1910	Big Injun (Price&e	1935	Big Injun (Price&e	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703877	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703877	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703877	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703877	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703877	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703877	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703877	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703877	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703877	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703877	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703877	Pennzoil Company	1984	1,030	0	0	0	0	0	0	0	0	0	0	0	0
4708703877	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703877	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703877	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703877	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703877	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703877	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703877	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703877	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703877	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703877	Original Loc	Little Lime	Well Record	1740	Reasonable	40	Reasonable	907	Ground Level
4708703877	Original Loc	Pencil Cave	Well Record	1780	Reasonable	32	Reasonable	907	Ground Level
4708703877	Original Loc	Greenbrier Group	Well Record	1812	Reasonable	114	Reasonable	907	Ground Level
4708703877	Original Loc	Big Lime	Well Record	1812	Reasonable	114	Reasonable	907	Ground Level
4708703877	Original Loc	Big Injun (Price&eq	Well Record	1926	Reasonable	16	Qstmble Pick	907	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703877	6	1992		G,D,C,*	Y	N	6	1986	256	1992									252	1992	Y	Y	N						

Comment: *logs: caliper, CCL, cement bond, formation bond

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here
geologic log types:
d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)

3877

4708703877gbo.tif
4708703877gdc.tif

e photoelectric adsorption (PE or Pe, etc.)
g gamma ray
i induction (includes dual induction, medium induction, deep induction, etc.)
l laterolog
m dipmeter
n neutron (includes neutron porosity, sidewall neutron–SWN, etc.)
o other[1]
s sonic or velocity
t temperature (includes borehole temperature, BHT, differential temperature, etc.)
z spontaneous potential or potential

mechanical log types:

b cement bond
c caliper
o other[1]
p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL–casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL–Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708703877	7/17/2015	0

There is no Sample data for this well

3817

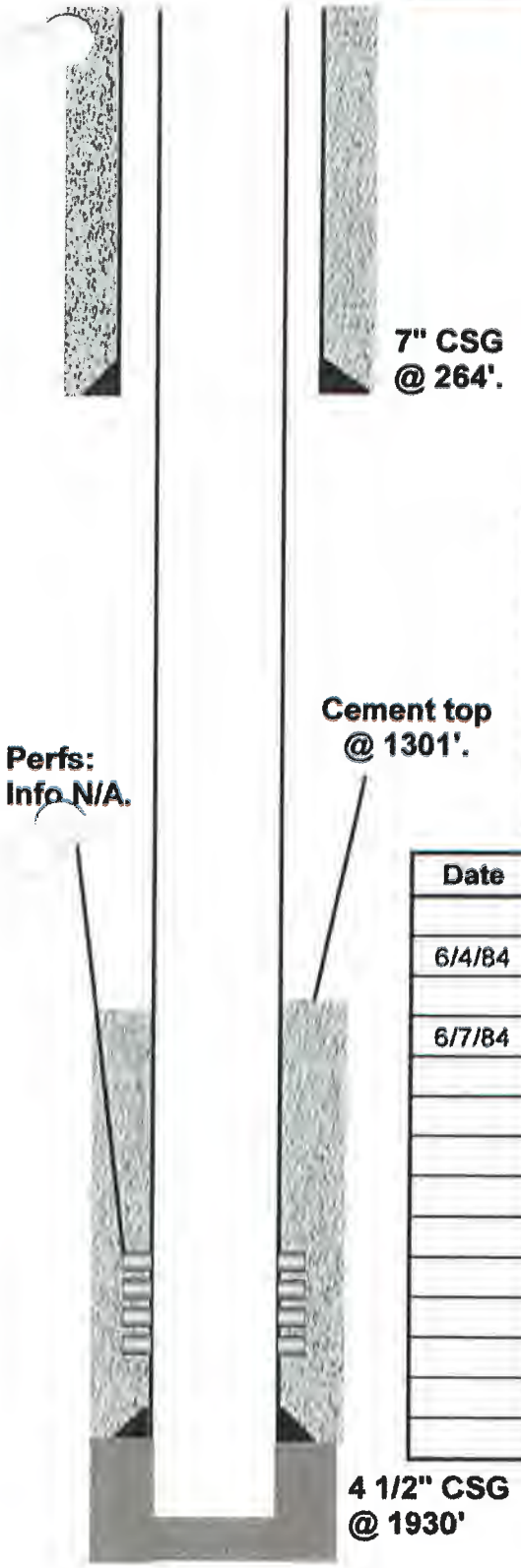
Proposed

X As is

P.A.TALLMAN # 74- 47-087- 3877 - LI
SMITHFIELD DIST., ROANE CO., W.V.
FIELD : TARIFF.

3877

	Size	Wt.	Grde	Thrd	Depth	Sks/Cmt
CONDUCTOR						
SURFACE	7"	17 #	H-40	8 RD	264'	85 sks
INTERMEDIATE						
INTERMEDIATE						
PRODUCTION	4 1/2"	9.5 #	J-55	8 RD	1930'	50 sks
TUBING						



Perforation Information
BIG INJUN : Perforations information N/A.
Open hole @ 1930'-1988'

Casing and Tubing Information
7" CSG set @ 264' cemented to surface w/ 85 sks Class A cement
having 3% C.C and 1/4 # flocele/sack.
4 1/2" CSG cemented @ 1930' with 50 sks of 50/50 pozmix w / 2% C.C
and 1/8 # flocele/sack.
Cement Top @ 1301'.

Date	Work-Over Information
	Water Injection Well
6/4/84	Ran 6 jts 7", 17 #, H-40, 8 RD thd CSG w/ S.T.& C. set @ 264' &
	cemented w/ 85 sks Class 'A' cement having 3% C.C and 1/4 # flocele/sk.
6/7/84	Ran 49 jts 4 1/2", 9.5 #, J-55, 8 RD thd CSG w/ S.T.& C. set @ 1930'
	and cemented w/ 500 gals mud flush & w/ 50 sks of 50/50 poz w / 2%
	Calcium Chloride and 1/8 # flocele/sack.

WELL T.D. 1988'

PREPARED BY:Babaji Chitturi

DATE: 08/06/2002

8703877P

3877

IV-35
(Rev 8-81)

State of West Virginia
Department of Mines
Oil and Gas Division

Date December 4, 1984
Operator's
Well No. 74
Farm P. A. Tallman
API No. 47 - 087 - 3877-Li

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___/ Gas ___/ Liquid Injection X / Waste Disposal ___/
(If "Gas," Production ___/ Underground Storage ___/ Deep ___/ Shallow ___/)

LOCATION: Elevation: 906.58 Watershed Sycamore Fork
District: Smithfield County Roane Quadrangle Tariff 7.5'

COMPANY Pennzoil Company
ADDRESS P.O. Box 1588, Parkersburg, WV 26101
DESIGNATED AGENT James A. Crews
ADDRESS P. O. Box 1588, Parkersburg, WV 26101
SURFACE OWNER Doyle D. Jones
ADDRESS P.O. Box 926, Spencer, WV 25257
MINERAL RIGHTS OWNER Anna Lee Collins
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK Homer Dougherty ADDRESS Linden Rt., Box 3-A Looneyville, WV
PERMIT ISSUED 5-3-84
DRILLING COMMENCED 6-2-84
DRILLING COMPLETED 6-6-84
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8			
7	264	264	85 sks
5 1/2			
4 1/2	1930	1930	50 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Big Injun Depth 1820-1942 feet
Depth of completed well 1994 feet Rotary X / Cable ___ / Tools ___
Water strata depth: Fresh 104-124 feet; Salt 1633-1742 feet
Coal seam depths: ___ Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Water Injection Well Pay zone depth ___ feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow ___ Mcf/d Final open flow ___ Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure ___ psig (surface measurement) after ___ hours shut in
(If applicable due to multiple completion--)
Second producing formation ___ Pay zone depth ___ feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow ___ Mcf/d Oil: Final open flow ___ Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure ___ psig (surface measurement) after ___ hours shut in

RECEIVED Office of Oil and Gas MAR 16 2015 WV Department of Environmental Protection

RECEIVED Office of Oil and Gas MAR 16 2015 WV Department of Environmental Protection

(Continue on reverse side)

FORM IV-35
(REVERSE)

8703877P

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

3877

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand	0	36	
Siltstone	36	104	
Sand	104	124	
Shale, Siltstone,Sand	124	1400	
Salt Sand	1400	1740	
Little Lime	1740	1780	
Pencil Cave	1780	1812	
Big Lime	1812	1926	
Big Injun	1926	1942	
Focono Shale	1942	1994	
Total Depth		1994	

RECEIVED
Office of Oil and Gas
MAR 16 2005
WV Department of
Environmental Protection

(Attach separate sheets as necessary)

Pennzoil Company
Well Operator

By: Curtis A Lucas

Date: 12-4-84

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

3877

WR-38
Rev. 5/08

API # 47-8703877

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: TALLMAN, P.A. Operator Well No.: P.A. TALLMAN 74

LOCATION: Elevation: 907 Quadrangle: TARIFF
District: SMITHFIELD County: ROANE
Latitude: _____ Feet South of _____ Deg. _____ Min. _____ Sec.
Longitude: _____ Feet West of _____ Deg. _____ Min. _____ Sec.

Well Type: OIL _____ GAS _____

Company TRIAD HUNTER, LLC
125 PUTNAM STREET
MARIETTA, OHIO

Coal Operator or Owner _____

Coal Operator or Owner _____

Agent KIM ARNOLD
Permit Issued Date 04/30/2015

RECEIVED
Office of Oil and Gas
JUL 12 2017
WV Department of
Environmental Protection

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of ROANE ss:

TERRY REXROAD and DARRELL SHAMBLIN being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 15 day of JULY, 2015, and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
CEMENT	1990	1745		264' OF 7"
6% GEL	1745	1050	1050' OF 4 1/2	940' OF 4 1/2
CEMENT	1050	800		
6% GEL	800	315		
CEMENT	315	SURFACE		
6% GEL				
CEMENT				

Description of monument: 7" CASING WITH DATE AND API # WELDED ON and that the work of plugging and filling said well was completed on the 17 day of JULY, 2015.

And further deponents saith not.

Darrel Shamblin

Sworn and subscribe before me this 3 day of August, 2015

OFFICIAL SEAL
Notary Public, State Of West Virginia
BRIAN MARKS
349 Big Creek
Walton, WV 25286
My Commission Expires October 25, 2023

My commission expires: 10-25-2023

Brian Marks
Notary Public

Affidavit reviewed by the Office of Oil and Gas: _____ Title: Gas Inspector

07/28/2017

"Pipeline"

Select County: (087) Roane

Enter Permit #: 3968

Get Data | Reset

Select datatypes: (Check All)

- Location
- Production
- Plugging
- Owner/Completion
- Stratigraphy
- Sample
- Pay/Show/Water
- Logs
- Btm Hole Loc

Table Descri tio
Coun Co e Tra sla
Permit-Numbering Series
Usage Notes
Contact Infor atio
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 3968

Report Time: Tuesday, May 19, 2020 7:26:32 PM

Location Information: View Ma

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703968	Roane	3968	Smithfield	Tariff	Otter	38.656898	-81.212056	481549.4	4278724.6

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703968	5/12/1986	Original Loc	Completed	Calvin Rogers	47					Pennzoil Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT
4708703968	5/12/1986	5/7/1986	883	Ground Level	Tariff (Timn)	Big Injun (Price&eq)	Big Injun Price&eq	Development Well	Unsuccessful	Dry w/ Gas Show	Rotary	Acid+Frac	2027		2027		0	0	0	0				0	0	0

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703968	5/12/1986	Show	Gas	Vertical	1904	Big Injun (Price&eq)	1924	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703968	Pennzoil Products Company	1989	2,020	241	228	314	198	174	213	192	104	119	98	61	78
4708703968	Pennzoil Products Company	1990	1,043	59	64	82	76	64	84	86	91	119	100	124	114
4708703968	Pennzoil Products Company	1991	653	84	79	56	61	60	47	52	52	50	38	42	32
4708703968	Pennzoil Products Company	1992	318	39	30	33	32	29	33	36	22	21	19	9	15
4708703968	Pennzoil Products Company	1993	121	13	9	22	8	8	9	10	1	10	9	0	22
4708703968	Pennzoil Products Company	1994	57	4	1	0	0	0	12	10	8	6	6	2	8
4708703968	Pennzoil Products Company	1995	5	1	3	0	1	0	0	0	0	0	0	0	0
4708703968	Pennzoil Products Company	1996	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Pennzoil Products Company	1997	1	0	0	0	0	0	0	0	0	0	1	0	0
4708703968	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708703968	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708703968	Triad Resources, Inc.	2004	88	6	5	8	9	9	11	8	9	11	8	4	0
4708703968	Triad Resources, Inc.	2005	5	5	0	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Resources, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Resources, Inc.	2007	5	0	0	0	0	0	0	0	0	0	0	0	5
4708703968	Triad Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Resources, Inc.	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Hunter LLC	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Hunter LLC	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Hunter LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Hunter LLC	2014	18	0	0	0	0	3	1	2	2	3	2	3	2
4708703968	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Ground Resources LLC	2018	44	0	0	44	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703968	Pennzoil Products Company	1989	5,196	914	766	694	679	404	283	260	288	182	192	204	330
4708703968	Pennzoil Products Company	1990	3,136	247	255	222	221	249	296	284	292	326	282	226	236
4708703968	Pennzoil Products Company	1991	1,563	163	180	195	165	142	124	130	106	113	82	91	72
4708703968	Pennzoil Products Company	1992	702	75	78	73	77	79	56	54	47	26	52	44	41
4708703968	Pennzoil Products Company	1993	359	67	39	32	32	28	6	29	28	0	82	13	3
4708703968	Pennzoil Products Company	1994	206	2	0	0	37	33	28	21	20	7	27	15	16
4708703968	Pennzoil Products Company	1995	6	0	6	0	0	0	0	0	0	0	0	0	0
4708703968	Pennzoil Products Company	1996	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Pennzoil Products Company	1997	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Pennzoil Products Company	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708703968	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708703968	Triad Resources, Inc.	2004	329	31	31	31	31	30	30	22	28	24	23	21	27
4708703968	Triad Resources, Inc.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Resources, Inc.	2006	5	0	5	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Resources, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Resources, Inc.	2008	2	0	0	0	0	0	0	0	0	0	0	0	2
4708703968	Triad Resources, Inc.	2009	2	0	0	0	0	0	0	0	0	0	0	0	2
4708703968	Triad Hunter LLC	2010	2	0	0	0	0	0	0	0	0	0	0	0	2
4708703968	Triad Hunter LLC	2011	2	0	0	0	0	0	0	0	0	0	0	0	2
4708703968	Triad Hunter LLC	2012	2	0	0	0	0	0	0	0	0	0	0	0	2
4708703968	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0

3968

4708703968	Triad Hunter LLC	2016	0											
4708703968	Ground Resources, LLC	2017	0											
4708703968	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703968	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703968	Triad Hunter LLC	2016	0												
4708703968	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703968	Triad Hunter LLC	2016	0												
4708703968	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703968	Original Loc	Little Lime	Well Record	1720	Reasonable	43	Reasonable	883	Ground Level
4708703968	Original Loc	Big Lime	Well Record	1784	Reasonable	106	Reasonable	883	Ground Level
4708703968	Original Loc	Keener	Well Record	1890	Reasonable	10	Reasonable	883	Ground Level
4708703968	Original Loc	Big Injun Price&eq	Well Record	1900	Reasonable	24	Reasonable	883	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MORD	FRO
4708703968	0	2024		G.D.C.*	Y	N	0	2020	241	2024									241	2024	Y	Y	N							

Comment: *logs: caliper, CCL, perforation

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703968gdc.tif
4708703968[illegible].tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

58668

3968

IR-35

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date October 23, 1986
Operator's Well No. 47
Farm W. M. Looney
API No. 47 - 087 - 3968

WELL OPERATOR'S REPORT OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil X / Gas ___ / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production ___ / Underground Storage ___ / Deep ___ / Shallow ___ /)

LOCATION: Elevation: 883' Watershed Trace Fork
District: Smithfield County Roane Quadrangle Tariff 7.5'

COMPANY Pennzoil Company
ADDRESS P.O. Box 1588, Parkersburg, WV 26102
DESIGNATED AGENT James A. Crews
ADDRESS P.O. Box 1588, Parkersburg, WV 26102
SURFACE OWNER Calvin Rogers
ADDRESS Box 71, Lefthand, WV
MINERAL RIGHTS OWNER Keith Crihfield
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK Homer Dougherty ADDRESS Linden Rt., Box 3-A, Looneyville, WV
PERMIT ISSUED 3-22-86
DRILLING COMMENCED 5-7-86
DRILLING COMPLETED 5-12-86
IF APPLICABLE: DRILLING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	257	257	120 sks.
7			
5 1/2			
4 1/2	2012	2012	120 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Big Injun Depth 1900 feet
Depth of completed well 1904 feet Rotary X / Cable Tools ___
Water strata depth: Fresh N/A feet; Salt ___ feet
Coal seam depths: ___ Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Big Injun Pay zone depth 1904 feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow ___ Mcf/d Final open flow ___ Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure ___ psig (surface measurement) after ___ hours shut in
(If applicable due to multiple completion--)
Second producing formation ___ Pay zone depth ___ feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow ___ Mcf/d Oil: Final open flow ___ Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure ___ psig (surface measurement) after ___ hours shut in

(Continue on reverse side)

Roane 3968

3968

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Fractured: 6-20-86

Perforated: 1904-1923/20H

Big Injun w/250 gls. 15% HCL; 145 bbls. 20# gelled water, 1500# 20/40 sd

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand	0	40	
Silty Shale	40	120	
Sand	120	142	
Silty Shale	142	222	
Silty Sand	222	276	
Silty Shale	276	475	
Shale	475	563	
Sand	563	657	
Silty Shale	657	670	
Sand	670	694	
Silty Sand	694	716	
Shale, Sand	716	1720	
Little Lime	1720	1763	
Blue Monday	1763	1768	
Pencil Cave	1768	1784	
Big Lime	1784	1890	
Keener	1890	1900	
Big Injun	1900	1924	
Pocono Shale	1924	2027	
Total Depth		2027	

(Attach separate sheets as necessary)

Pennzoil Company
Well Operator

By: Curtis A. Lewis

Date: 10-27-86

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

3968

COMPENSATED DENSITY LOG

COMPANY:PENNZOIL CO.
WELL:W. H. LOONEY #47
FIELD:TARIFF (SMITHFIELD DIST)
COUNTY:ROANE STATE:WV
PERMIT #:47-087-3968
DATE:05-12-86

LOCATION

SEC: TWP: RGE:

OTHER SERVICES

NONE

PERM. DATUM:GROUND LEVEL
LOG MF:KELLY BUSHING
DRILLING MF:KELLYBUSHING

ELEVATION
KB:889'
DF:888'
GL:883'

BOREHOLE RECORD

NUMBER	BIT	FROM	TO
ONE	11"	270'	SURF.
TWO	7 7/8"	1806'	270'
THREE	6 3/4'	2032'	1806'

RUN NUMBER	ONE
DEPTH-DRILLER	2032'
DEPTH-LOGGER	2022'
BOTTOM INTERVAL	2025'
TOP INTERVAL	10'
TYPE FLUID IN HOLE	KCL
SALINITY	N/A
DENSITY	N/A
LEVEL	FULL
MAX REC TEMP DEG F	N.R.
RECORDED BY	D.STEWART
WITNESSED BY	G.SMITH, N.MUTLOWER

CASING RECORD

NUMBER	SIZE	WGT	FROM	TO
ONE	8 5/8"	24#	252'	SURF.

REMARKS:
P9 = 2.68 GM/CC 236' - 1730'
1890' - 2025'
2.71 GM/CC 1790' - 1890'

OPERATING RIG TIME: 1.5 HR.

EQUIPMENT DATA

NUMBER	1.0	DIS CTS	3.0	2.0	DIS CTS	1.0
ONE	1156	187	989	590		

CFT CH DENSITOMETER DATA

NUMBER	ART SCALE	DIS CTS	STD CPS
ONE	0------100	35	155

GAMMA RAY CH DENSITOMETER DATA

LOGGING DATA

RUN NUMBER	ONE
TOOL NUMBER	2236
SOURCE NUMBER	N-255
PANEL NUMBER	261
LOGGING UNIT	84174
LOCATION	CHWS.

NUMBER	INTERVAL	SPEED	GR
RUN ONE	10' 2025'	30	2

Density Correction

GRAMS/CC

0 +.2

Gamma Ray

API UNITS

0 200

Caliper

INCHES

6 16

Density Porosity

POROSITY

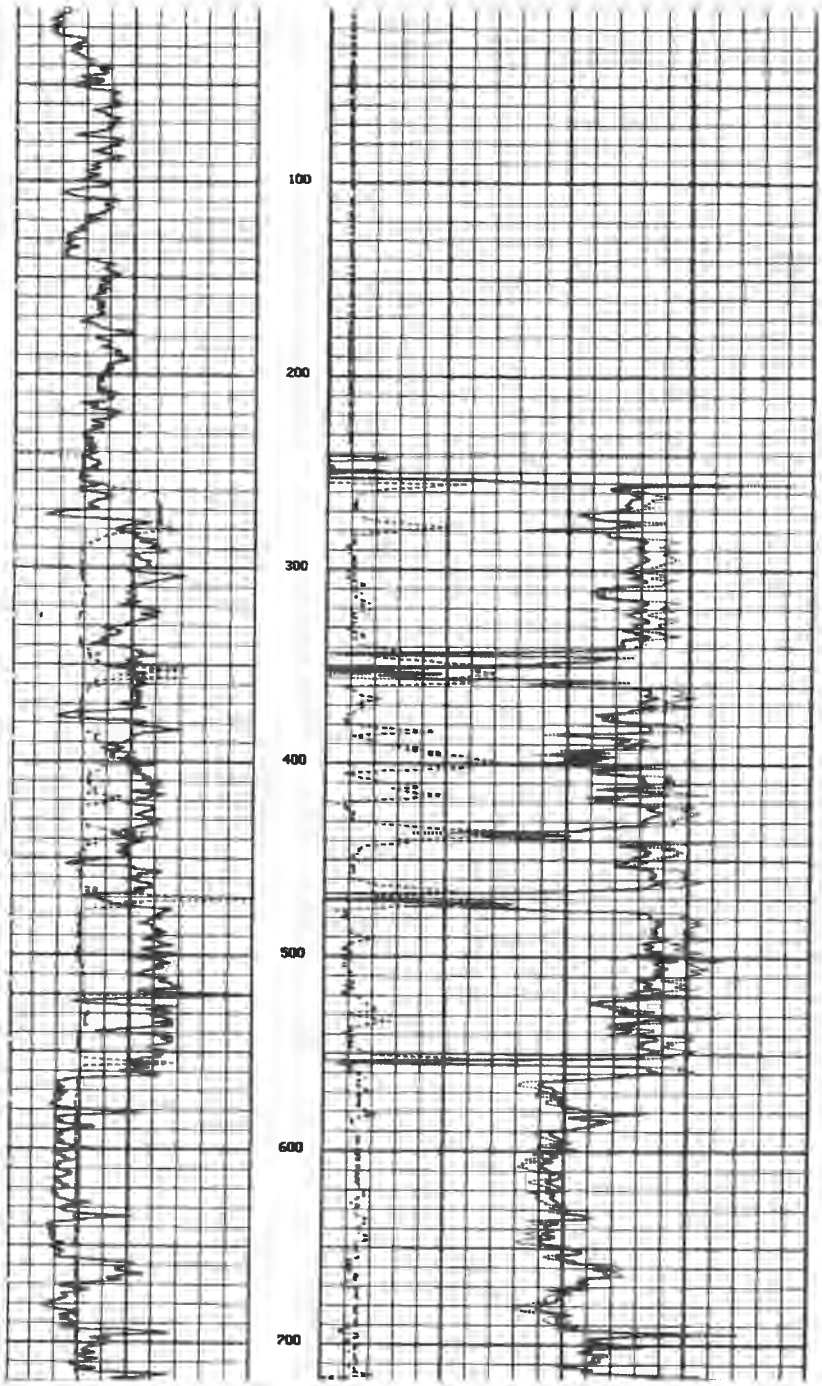
30 20 10 0 -10

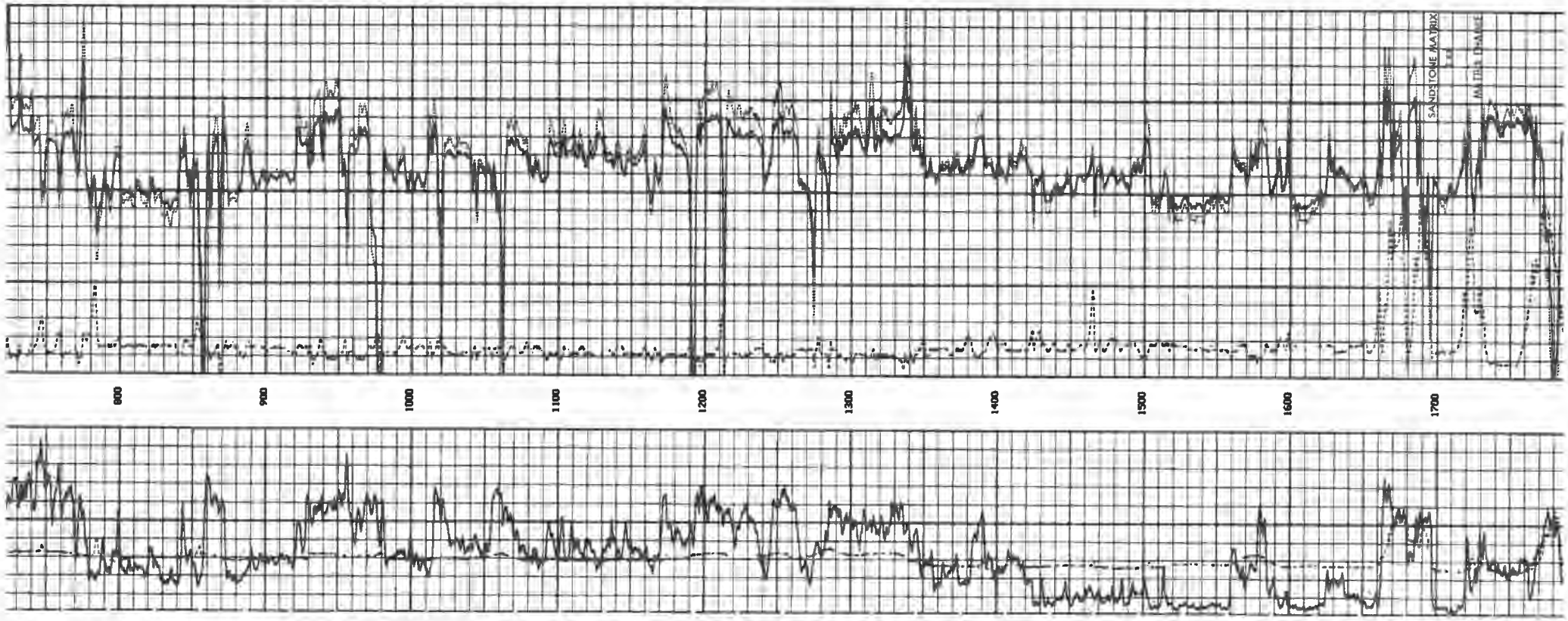
Bulk Density

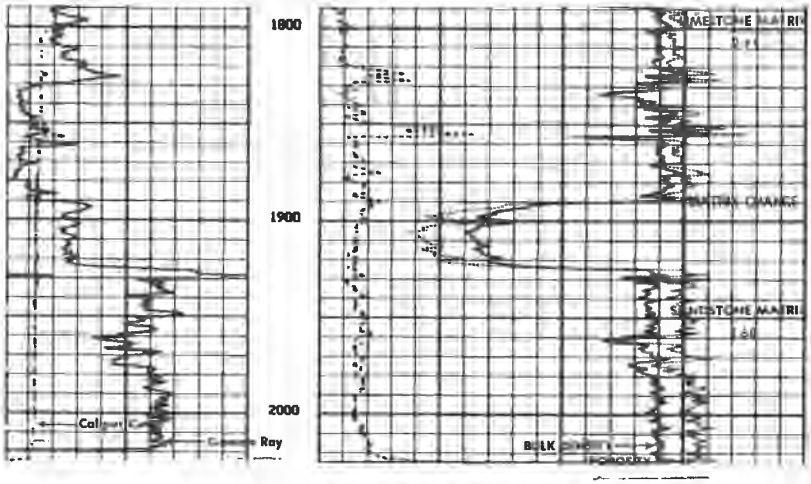
GRAMS/CC

2.0 2.5 3.0

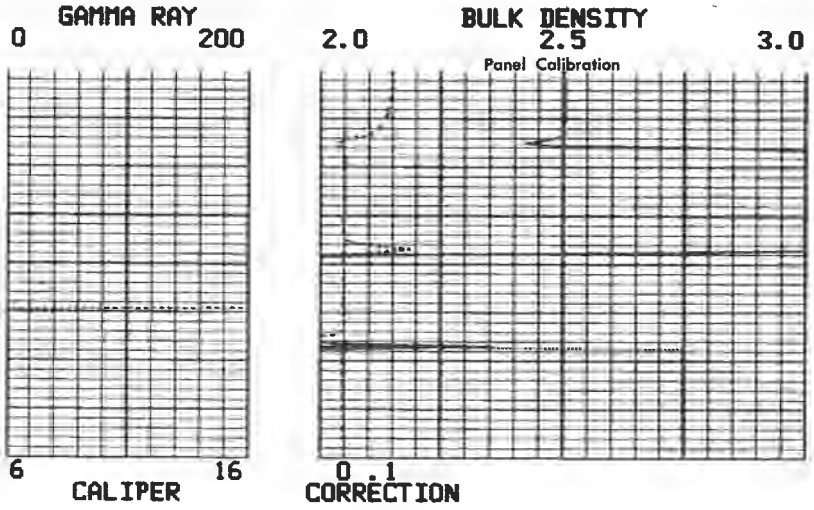
LOGGING SECTION

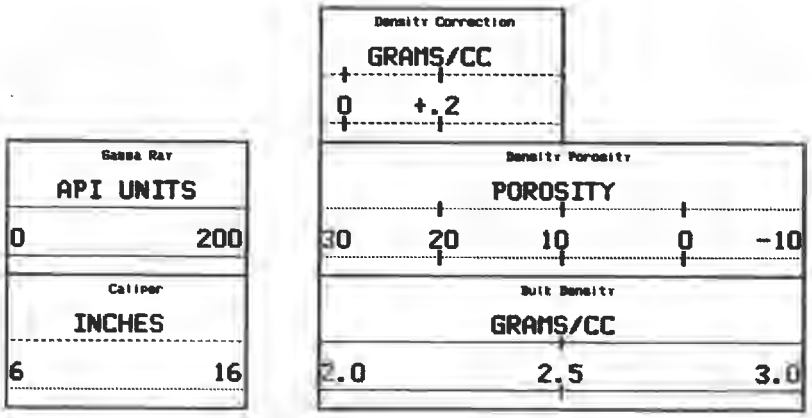



SANDSTONE MATRIX
MATRIX CHANGE
800
900
1000
1100
1200
1300
1400
1500
1600
1700

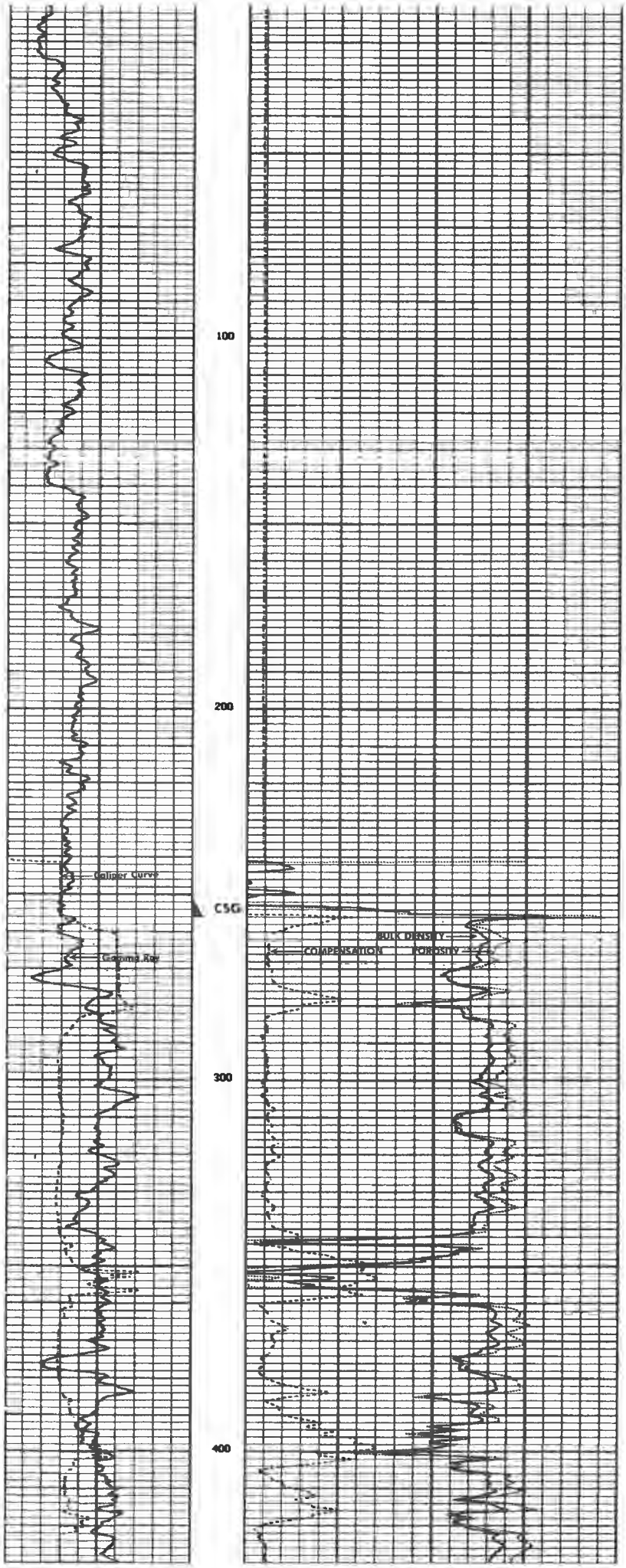


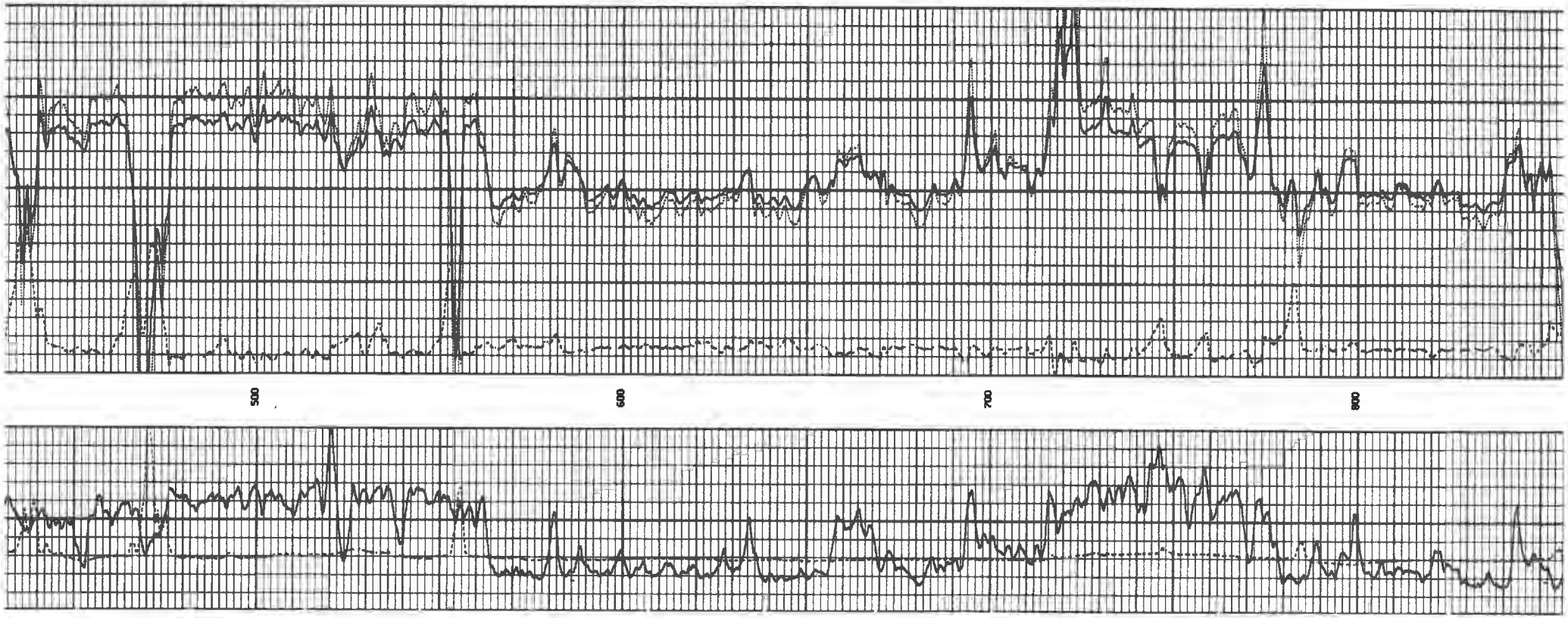
AFTER SURVEY CALIBRATIONS

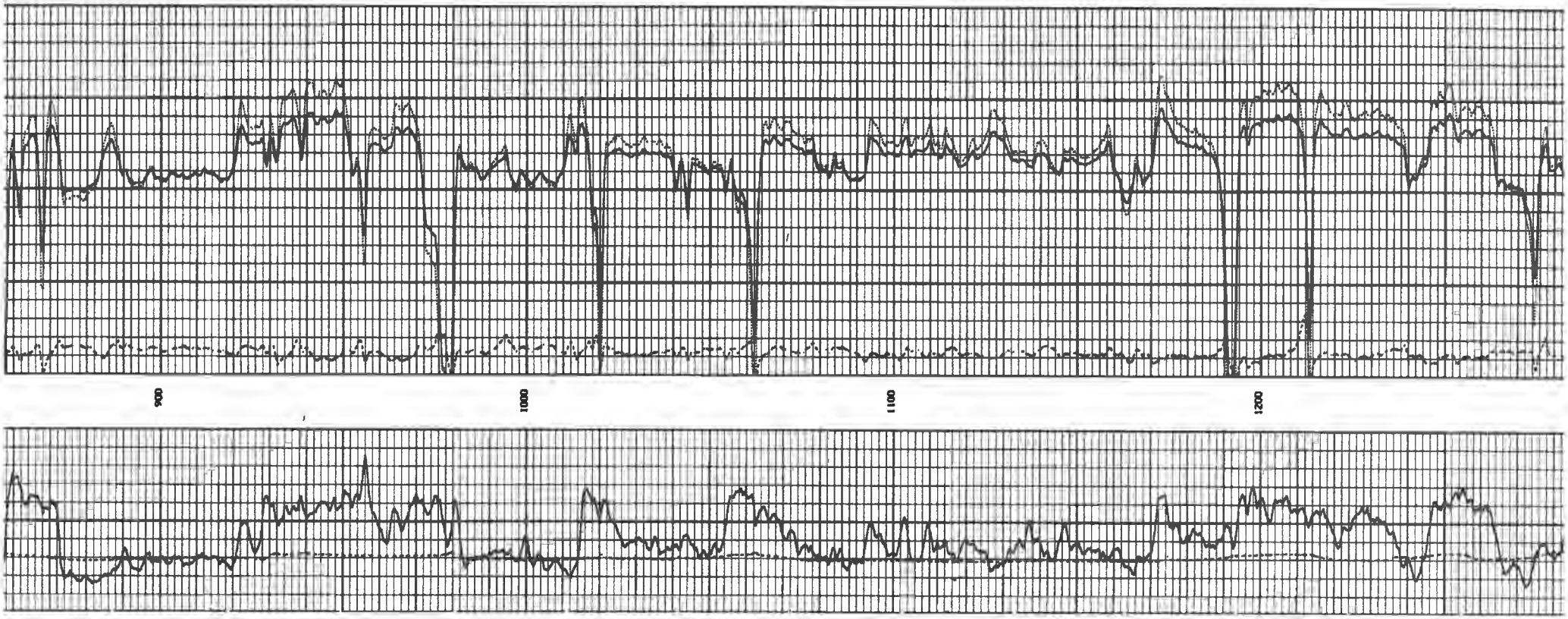




LOGGING SECTION


100
200
Caliper Curve
CSG
Gamma Ray
BULK DENSITY
COMPENSATION
POROSITY
300
400

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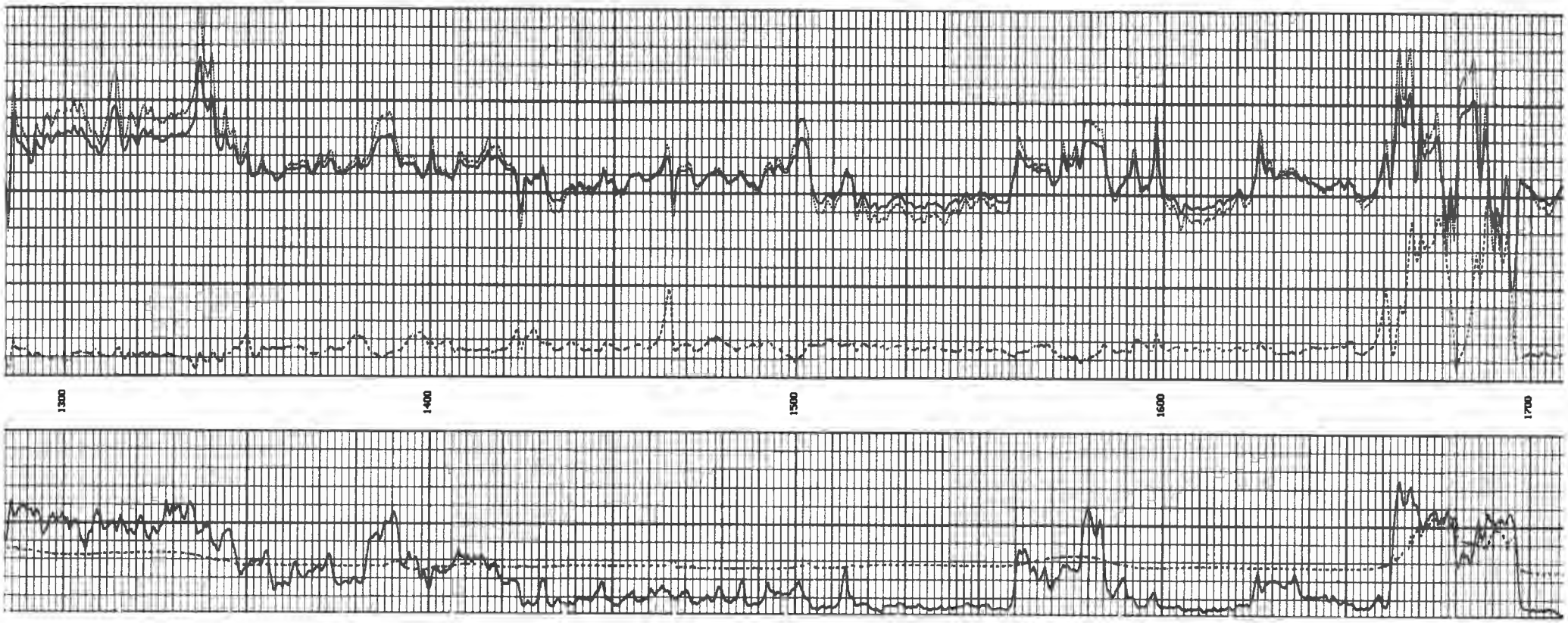
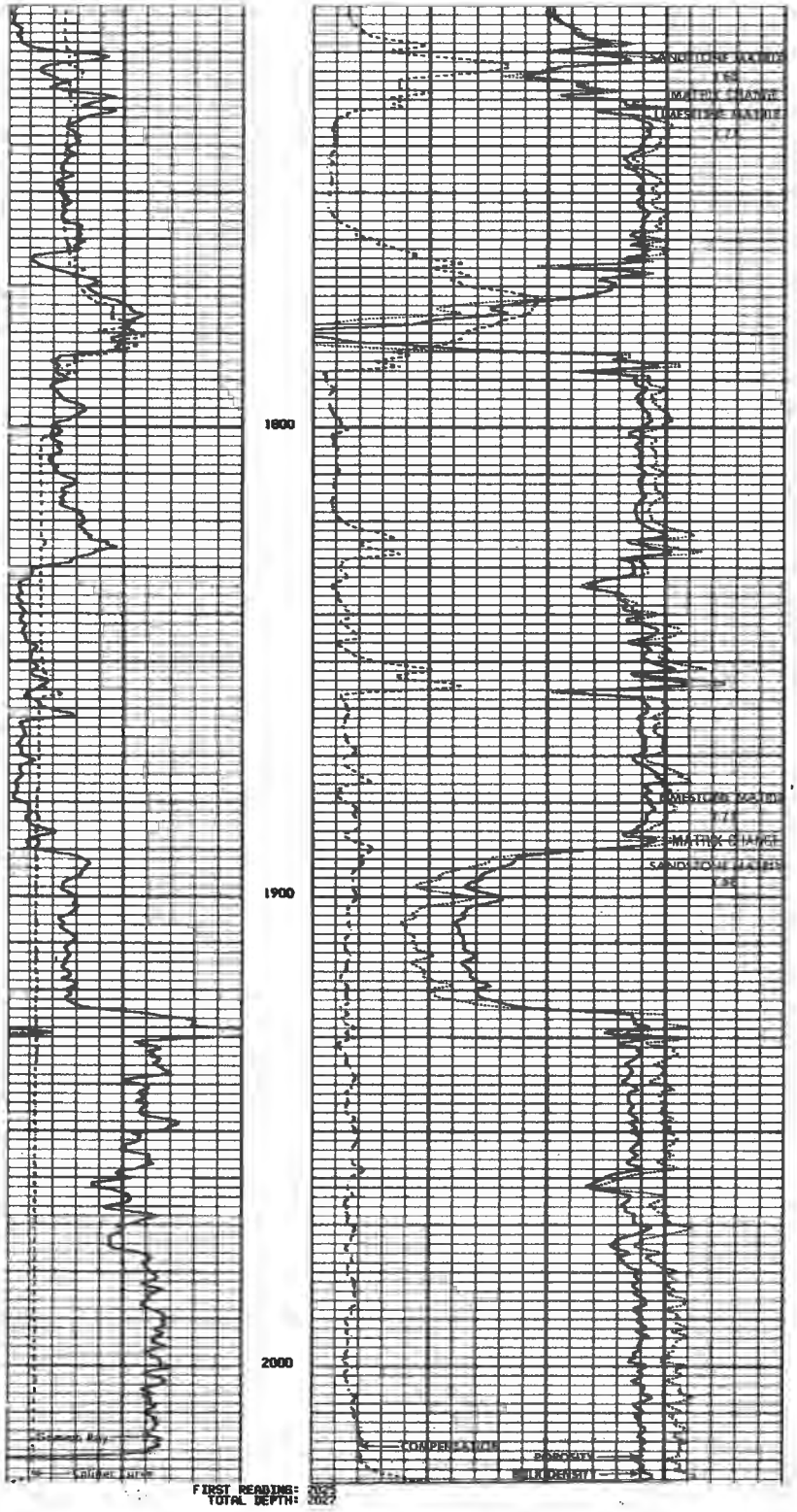
1000
1100
1200


1300
1400
1500
1600
1700



Density Correction

GRAMS/CC

0 +.2

Gamma Ray

API UNITS

0 200

Caliper

Density Porosity

POROSITY

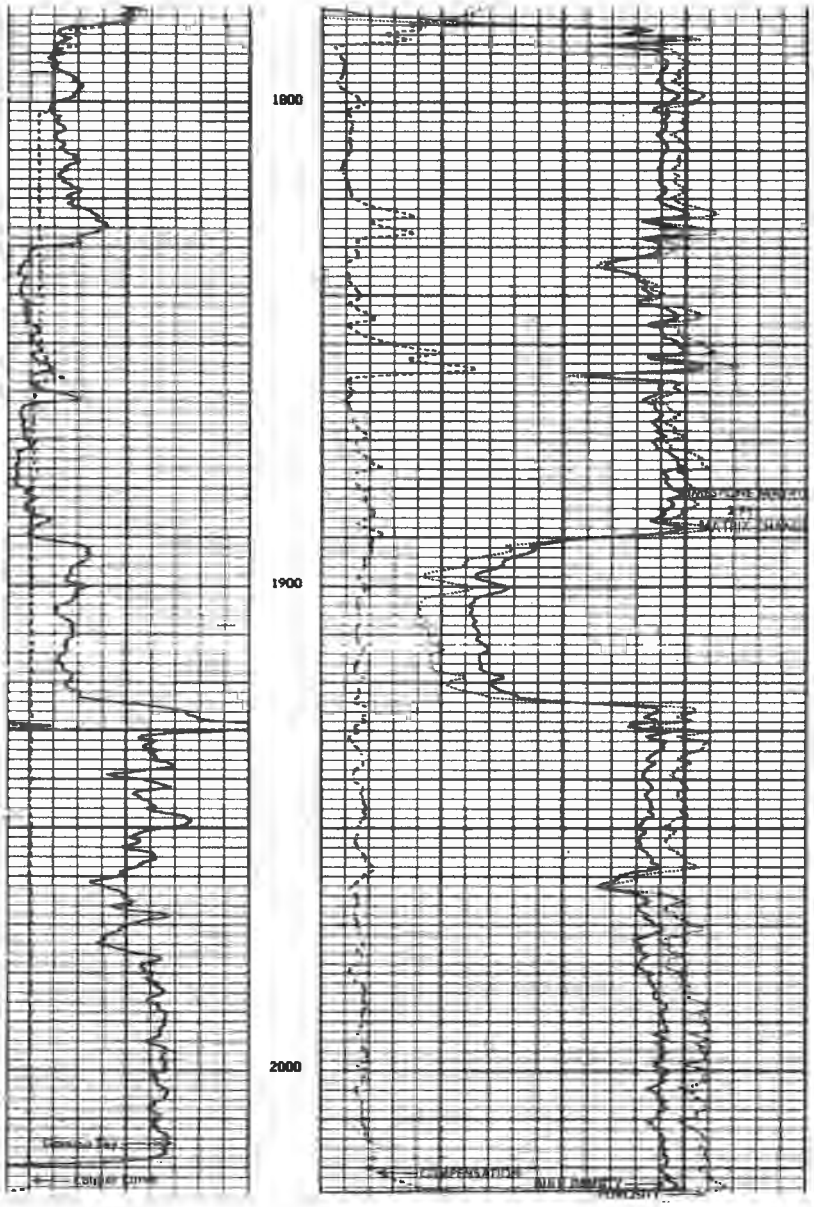
30 20 10 0 -10

Bulk Density

INCHES	
6	16

GRAMS/CC		
2.0	2.5	3.0

REPEAT SECTION



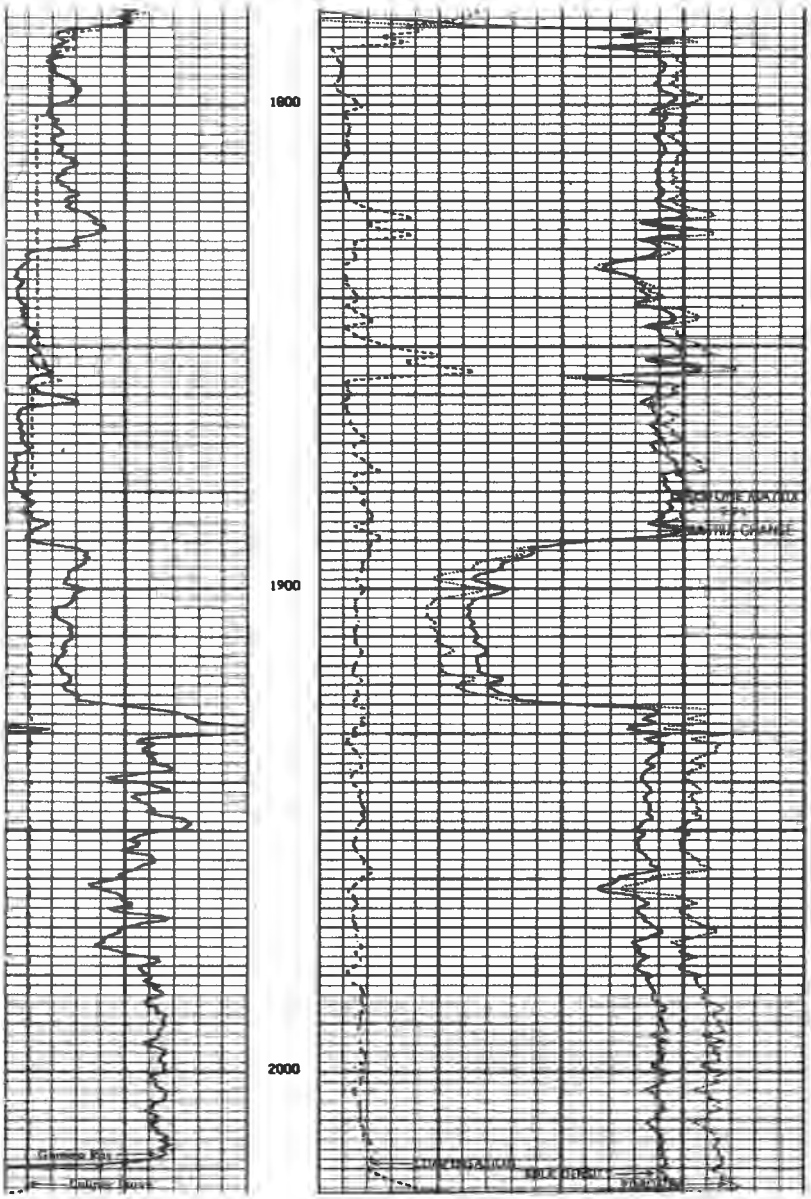
Density Correction	
GRAMS/CC	
0	+.2

Gamma Ray	
API UNITS	
0	200

Density Porosity				
POROSITY				
30	20	10	0	-10

INCHES		GRAMS/CC		
6	16	2.0	2.5	3.0

REPEAT SECTION

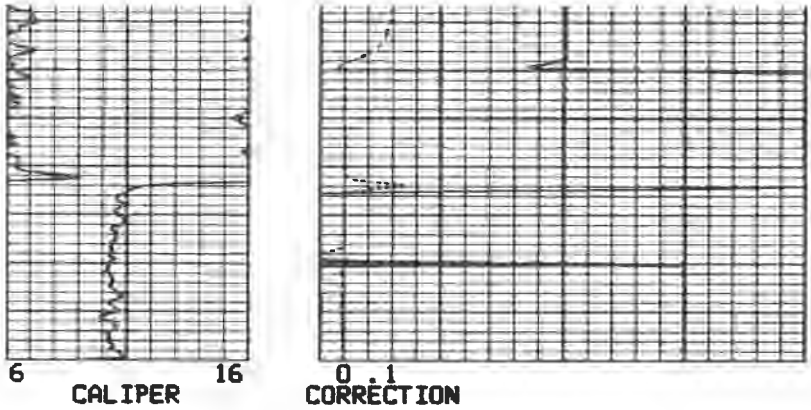


SANDSTONE MATRIX 2.66

BEFORE SURVEY CALIBRATIONS

GAMMA RAY		BULK DENSITY		
0	200	2.0	2.5	3.0

Panel Calibration



COMPANY:PENNZOIL CO.
WELL:W. M. LOONEY #47
FIELD:TARIFF (SMITHFIELD DIST)
COUNTY:ROANE STATE:WV

WVGES GEOLOGY UNDERLIES IT ALL

"Pipeline"

Select County: (087) Roane

Enter Permit #: 3974

Get Data | Reset

Select datatypes: ☐ (Check All)

☑ Location ☑ Production ☑ Plugging
☑ Owner/Completion ☑ Stratigraphy ☑ Sample
☑ Pay/Show/Water ☑ Logs ☑ Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 3974

Report Time: Tuesday, May 19, 2020 7:41:42 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703974	Roane	3974	Smithfield	Tariff	Otter	38.655173	-81.171312	485094.3	4278636.8

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703974	4/16/2013	Plugging	Completed	Ronald L Rogers	44					Triad Hunter LLC			
4708703974	-/-/-	Original Loc	Completed	Calvin Rogers	44					Pennzoil Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FIG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	BH_P_BEF	BH_
4708703974	4/16/2013	4/16/2013	1073	Ground Level																								
4708703974	-/-/-	-/-/-						unclassified	unclassified	not available	unknown	unknown																

There is no Pay data for this well

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703974	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703974	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703974	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703974	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703974	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703974	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703974	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703974	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703974	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703974	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703974	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703974	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703974	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703974	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703974	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703974	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703974	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703974	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

There is no Stratigraphy data for this well

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703974	32	2028		G,N,D,C *	Y	N	32	2007	270	2028	270	2016	280	2022					270	2026	Y	Y	N						

Comment: *logs: caliper, bit size

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703974gdncp.tif
4708703974cl.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron–SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond

NO ORIGINAL DRILL LOG 3974

c caliper
o other[1]
p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708703974	4/16/2013	0

There is no Sample data for this well

3974

3974

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Rev. 5/08

API # 47-8703974

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: Ronald L. Rogers Operator Well No.: W.M.Looney #44

LOCATION: Elevation: 1073' Quadrangle: Tariff
District: Gary County: Roane
Latitude: _____ Feet South of ____ Deg. ____ Min. ____ Sec.
Longitude: _____ Feet West of ____ Deg. ____ Min. ____ Sec.

Northing 4278636.80
Easting 485094.30

Well Type: OIL X GAS ____

Company Triad Hunter
5669 Wall back Rd
Wallback WV. 25285

Coal Operator or Owner: NO Coal

Coal Operator or Owner: _____

Agent Tim Reaton

Permit Issued Date 3/29/2012

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

Rick Duckworth and Robert Stewart being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 16 day of April 2013 and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement	2050'	1950.	1050' of 4½"	1000' of 4½"
Cement	1100'	1000'		
Cement	800'	700'		
Cement	100'	0'		
Gel between all plugs.				

Description of monument: 7" pipe with API number. and that the work of plugging and filling said well was completed on the 16 day of April, 2013

And further deponents saith not.

Rick Duckworth
Robert Stewart

Sworn and subscribe before me this 9 day of October, 2013

My commission expires: April 12, 2021

Patricia Summers
Notary Public

Affidavit reviewed by the Office of Oil and Gas: _____ Title: Inspector

Did not witness all plugs

RECEIVED
Office of Oil and Gas
2015
WV Department of
Environmental Protection

Official Seal
Notary Public, State of West Virginia
Patricia L. Summers
675 Beer Run Rd.
Orma, WV 25268
My commission expires April 12, 2021

WVGES GEOLOGY UNDERLIES IT ALL "Pipeline"

Select County: 087 Roane
Enter Permit #: 3976
Get Data | Reset

Select datatypes: (Check All)
Location | Production | Plugging
Owner/Completion | Stratigraphy | Sample
Pay/Show/Water | Logs | Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 3976

Report Time: Tuesday, May 19, 2020 7:53:04 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703976	Roane	3976	Smithfield	Tariff	Otter	38.660501	-81.214955	481298	4279125

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703976	5/20/1986	Original Loc	Completed	James C Lloyd	46					Pennzoil Company			
4708703976	-/-/-	Plugging	Permitted	James Lloyd	46		W M Looney		T A L Collins	Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	BH
4708703976	5/20/1986	5/16/1986	1012	Ground Level	Tariff(Tlmn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2152		2152		0	0	0	0			0	0	0	0	
4708703976	-/-/-	-/-/-	972	Ground Level																							

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703976	5/20/1986	Water	Salt Water	Vertical			1850						0
4708703976	5/20/1986	Horizon	Injection	Vertical	2034	Big Injun (Price&eq)	2048	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703976	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703976	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703976	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703976	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703976	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703976	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703976	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703976	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703976	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703976	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703976	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703976	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703976	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703976	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703976	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703976	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703976	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703976	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703976	Original Loc	1st Salt Sand	Well Record	1542	Reasonable	180	Reasonable	1012	Ground Level
4708703976	Original Loc	2nd Salt Sand	Well Record	1732	Reasonable	53	Reasonable	1012	Ground Level
4708703976	Original Loc	3rd Salt Sand	Well Record	1820	Reasonable	30	Reasonable	1012	Ground Level
4708703976	Original Loc	Little Lime	Well Record	1850	Reasonable	35	Reasonable	1012	Ground Level
4708703976	Original Loc	Blue Monday	Well Record	1885	Reasonable	5	Reasonable	1012	Ground Level
4708703976	Original Loc	Pencil Cave	Well Record	1890	Reasonable	18	Reasonable	1012	Ground Level
4708703976	Original Loc	Big Lime	Well Record	1908	Reasonable	105	Reasonable	1012	Ground Level
4708703976	Original Loc	Keener	Well Record	2013	Reasonable	7	Reasonable	1012	Ground Level
4708703976	Original Loc	Big Injun (Price&eq)	Well Record	2020	Reasonable	28	Reasonable	1012	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703976	10	2150		G D C *	Y	N	10	2146	395	2150									398	2150	Y	Y	N						

Comment: *logs: caliper, CCL, perforation depth

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here
geologic log types:

3976

FILENAME
4708703976gdc.tif
4708 03976 o .tif

d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
e photoelectric adsorption (PE or Pe, etc.)
g gamma ray
i induction (includes dual induction, medium induction, deep induction, etc.)
l laterolog
m dipmeter
n neutron (includes neutron porosity, sidewall neutron–SWN, etc.)
o other[1]
s sonic or velocity
t temperature (includes borehole temperature, BHT, differential temperature, etc.)
z spontaneous potential or potential

mechanical log types:

b cement bond
c caliper
o other[1]
p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL–casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL–Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

3976

3976

R-35

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date N 25 986
Operator's
Well No. 46
Farm W. M. Looney
API No. 47 - 087 - 3976-Li

4708703976

WELL OPERATOR'S REPORT OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas ___ / Liquid Injection X / Waste Disposal ___ /
(If "Gas," Production ___ / Underground Storage ___ / Deep ___ / Shallow ___ /)

LOCATION: Elevation: 1012' Watershed Trace Fork
District: Smithfield County Roane Quadrangle Tariff 7.5'

COMPANY Pennzoil Company
ADDRESS P.O. Box 1588, Parkersburg, WV 26102
DESIGNATED AGENT James A. Crews
ADDRESS P.O. Box 1588, Parkersburg, WV 26102
SURFACE OWNER James Lloyd
ADDRESS Lefthand, WV 25251
MINERAL RIGHTS OWNER Keith Crihfield
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK Homer Dougherty ADDRESS Linden Rt., Bpx 3A, Looneyville WV
PERMIT ISSUED 4-16-86
DRILLING COMMENCED 5-16-86
DRILLING COMPLETED 5-20-86
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	415	415	200 sks
7			
5 1/2			
4 1/2	2142	2142	120 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Big Injun Depth 2020 feet
Depth of completed well 2152 feet Rotary X / Cable Tools
Water strata depth: Fresh n/a feet; Salt 1850 feet
Coal seam depths: n/a Is coal being mined in the area? no

OPEN FLOW DATA
Producing formation WIW Pay zone depth ___ feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow ___ Mcf/d Final open flow ___ Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure ___ psig (surface measurement) after ___ hours shut in
(If applicable due to multiple completion—)
Second producing formation ___ Pay zone depth ___ feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow ___ Mcf/d Oil: Final open flow ___ Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure ___ psig (surface measurement) after ___ hours shut in

Received
Office of Oil & Gas
MAR 16 2015

(Continue on reverse side)

3976

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

4708703976

Fractured: 6-23-86

Perforated: 2034-48/15H

Big Injun w/250 gls. 15% HCL, 145 bbls., 20# gelled water, 1500# 20/40 sd.

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fr and salt water, coal, oil and
Sand	0	30	
Silty Sand	30	52	
Silty Shale	52	134	
Sand	134	142	
Silty Shale	142	252	
Sand, Shale	252	1542	
1st Salt Sand	1542	1722	
Shale	1722	1732	
2nd Salt Sand	1732	1785	
Shale	1785	1820	
3rd Salt Sand	1820	1850	
Little Lime	1850	1885	
Blue Monday	1885	1890	
Pencil Cave	1890	1908	
Big Lime	1908	2013	
Keener	2013	2020	
Big Injun	2020	2048	
Pocono Shale	2048	2152	
Total Depth		2152	

Received
Office of Oil & Gas
MAR 16 2015

(Attach separate sheets if necessary)

Pennzoil Company
Well Operator

By: [signature]

Date: 11-86

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a
detailed geological record of all formations,
including, encountered in the drilling of a well."

3976

WR-38
Rev. 5/08

API # 47-87-3976-P

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: Lloyd, James Operator Well No.: W.M. Looney, #46

LOCATION: Elevation: 1012' GL Quadrangle: Tariff
District: Smithfield County: Roane
Latitude: _____ Feet South of _____ Deg. _____ Min. _____ Sec.
Longitude: _____ Feet West of _____ Deg. _____ Min. _____ Sec.

Well Type: OIL _____ GAS X water inj.

Company Triad Hunter, LLC
125 Putnam Street
Marietta, OH 45750

Coal Operator or Owner na

Coal Operator or Owner na

Agent Kim Arnold
Permit Issued Date 06/11/2015

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

Rick Duckworth and Robert Stewart being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 10th day of October 2016, and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
cement	2140'	1940'	4 1/2" 1050'	1092'
cement	1100'	960'		
cement	465'	365'		
cement	150'	0		

Description of monument: 5 1/2" pipe with API # on attached plate and that the work of plugging and filling said well was completed on the 18th day of October, 2016.

And further deponents saith not. Rick Duckworth
Robert A. Stewart

Sworn and subscribe before me this 26th day of October, 2016

My commission expires: April 13, 2024

Notary Public

OFFICIAL SEAL
Dawn R. Dobbins
Notary Public
State of West Virginia
My Commission Expires
April 13, 2024
PO Box 265
Gassaway, WV 26624

WVGES GEOLOGY UNDERLIES IT ALL "Pipeline"

Select County: (087) Roane
Enter Permit #: 3977
Get Data | Reset

Select datatypes: (Check All)
Location | Production | Plugging
Owner/Completion | Stratigraphy | Sample
Pay/Show/Water | Logs | Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Scheme
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 87 Permit = 3977

Report Time: Tuesday, May 19, 2020 7:55:46 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708703977	Roane	3977	Smithfield	Tariff	Otter	38.658169	-81.213569	481418	4278866

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708703977	6/9/1986	Original Loc	Completed	Harley Conley	45					Pennzoil Company			
4708703977	3/31/1995	Worked Over	Completed	James C Lloyd	45		W M Looney		Keith Crihfield	Pennzoil Products Company			
4708703977	3/26/2012	Plugging	Completed	James Lloyd	45		W M Looney			Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT
4708703977	6/9/1986	6/4/1986	1097	Ground Level	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2237		2237		0	0	0	0			0	0	0	0
4708703977	3/31/1995	3/31/1995	1097	Ground Level	Tariff(Timn)	Price Fm & equivs	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Cable Tool	unknown	2169		0		0	0	0	0			0	0	0	0
4708703977	3/26/2012	3/17/2012	1120	Ground Level																						

Comment: 3/26/2012 Plat hard to read

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708703977	6/9/1986	Water	Salt Water	Vertical			1910						0
4708703977	6/9/1986	Horizon	Injection	Vertical	2121	Big Injun (Price&eq)	2138	Big Injun (Price&eq)	0	0			
4708703977	3/31/1995	Horizon	Injection	Vertical	2115	Big Injun (Price&eq)	2139	Big Injun (Price&eq)	0	0			

Production Gas Information: Volumes in Mcf * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703977	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703977	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703977	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703977	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703977	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703977	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703977	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703977	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703977	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: Volumes in Bbl ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708703977	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703977	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703977	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703977	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703977	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703977	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703977	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703977	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708703977	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphic Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708703977	Original Loc	1st Salt Sand	Well Record	1605	Reasonable	191	Reasonable	1097	Ground Level
4708703977	Original Loc	2nd Salt Sand	Well Record	1830	Reasonable	42	Reasonable	1097	Ground Level
4708703977	Original Loc	3rd Salt Sand	Well Record	1910	Reasonable	28	Reasonable	1097	Ground Level
4708703977	Original Loc	Little Lime	Well Record	1938	Reasonable	37	Reasonable	1097	Ground Level
4708703977	Original Loc	Blue Monday	Well Record	1975	Reasonable	7	Reasonable	1097	Ground Level
4708703977	Original Loc	Pencil Cave	Well Record	1982	Reasonable	17	Reasonable	1097	Ground Level
4708703977	Original Loc	Big Lime	Well Record	1999	Reasonable	103	Reasonable	1097	Ground Level
4708703977	Original Loc	Keener	Well Record	2102	Reasonable	13	Reasonable	1097	Ground Level
4708703977	Original Loc	Big Injun (Price&eq)	Well Record	2115	Reasonable	24	Reasonable	1097	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708703977	6	2237		G,D,N,C *	Y	N	6	2015	478	2237	478								478	2236	Y	Y	N						

Comment: *logs: caliper, bit size

3977

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708703977gdnco.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708703977	3/26/2012	0

There is no Sample data for this well

3577

3977

R-35

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date Nov 25, 1986
Operator's
Well No. 1045
Farm W. M. Looney
API No. 47 - 0875 - 3977-Li

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas ___ / Liquid Injection X / Waste Disposal ___ /
(If "Gas," Production ___ / Underground Storage ___ / Deep ___ / Shallow ___ /)

LOCATION: Elevation: 1097' Watershed Trace Fork
District: Smithfield County Roane Quadrangle Tariff 7.5'

COMPANY Pennzoil Company
ADDRESS P.O. Box 1588, Parkersburg, WV 26102
DESIGNATED AGENT James A. Crews
ADDRESS P.O. Box 1588, Parkersburg, WV 26102
SURFACE OWNER Mr. Harley Conley
ADDRESS Box 69, Lefthand, WV
MINERAL RIGHTS OWNER Keith [illegible]eld
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK Homer Dougherty ADDRESS Linden Rt. Box 3-A, Looneyville, WV
PERMIT ISSUED 4-16-85
DRILLING COMMENCED 6-4-86
DRILLING COMPLETED 6-9-86
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	499	499	225 sks.
7			
5 1/2			
4 1/2	2224	2224	120 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Big Injun Depth 2175 feet
Depth of completed well 2237 feet Rotary X / Cable Tools
Water strata depth: Fresh n/a feet; Salt 1910 feet
Coal seam depths: n/a Is coal being mined in the area? no

OPEN FLOW DATA
Producing formation WIW Pay zone depth ___ feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow ___ Mcf/d Final open flow ___ Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure ___ psig (surface measurement) after ___ hours shut in
(If applicable due to multiple completion—)
Second producing formation ___ Pay zone depth ___ feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow ___ Mcf/d Oil: Final open flow ___ Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure ___ psig (surface measurement) after ___ hours shut in

(Continue on reverse side)

3977

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Fractured: 6-23-86

Big Injun w/250 gls. 15% HCL, 145 bbls. 20# gelled water, 1500# 20/40 sd.

Perforated: 2121-2138/18H

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Silty Shale	0	72	
Silty Sand	72	104	
Sand	104	134	
Silty Shale	134	178	
Sand, Shale	178	1605	
1st Salt Sand	1605	1796	
Shale	1796	1830	
2nd Sale Sand	1830	1872	
Shale	1872	1910	
3rd Salt Sand	1910	1938	
Little Lime	1938	1975	
Blue Monday	1975	1982	
Pencil Cave	1982	1999	
Big Lime	1999	2102	
Keener	2102	2115	
Big Injun	2115	2139	
Pocono Shale	2139	2237	
Total Depth		2237	

(Attach separate sheets as necessary)

Pennzoil Company
Well Operator

By: Curtis A Lewis

Date: 11-25-86

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

3977

WR-38
Rev. 5/08

API # 47-8703977

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: Jim Loyd Operator Well No.: 45 Wm. Looney

LOCATION: Elevation: 1097' Quadrangle: Tariff
District: Geary County: Roane
Latitude: _____ Feet South of ____ Deg. ____ Min. ____ Sec.
Longitude: _____ Feet West of ____ Deg. ____ Min. ____ Sec.
Northing 4278866.30
Easting 481418.10

Well Type: OIL X GAS ____

Company Triad Hunter
5669 Wallback Rd.
Wallback WV. 25285

Coal Operator or Owner: 710 Coal

Coal Operator or Owner: _____

Agent Tim Keaton
Permit Issued Date 5/1/12

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

Rick Duckworth and Robert Stewart being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 17 day of 03 20 12 and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
			780' of 4½"	1420 of 4½"
Cement	2190'	2070'		
Cement	1650'	1550'		
Cement	1150'	1000'		
Cement	100'	0'		

Gel between all plugs.

Description of monument: 7" pipe With API numbers. and that the work of plugging and filling said well was completed on the 26 day of March 2012

And further deponents saith not.

Rick Duckworth
Robert Stewart

Sworn and subscribe before me this 9 day of October 20 13

My commission expires: April 12, 2021

Patricia Summers
Notary Public

Affidavit reviewed by the Office of Oil and Gas: _____ Title: Inspector

Did not witness all plugs

RECEIVED
Office of Oil and Gas
WV Department of
Environmental Protection

Official Seal
Notary Public State of West Virginia
Patricia L. Summers
675 Deer Run Rd.
Orma, WV 25268
My commission expires April 12, 2021

4079

"Pipeline"

Select County: (087) Roane

Enter Permit #: 4079

Get Data | Reset

Select datatypes: (Check All)

- Location
- Production
- Plugging
- Owner/Completion
- Stratigraphy
- Sample
- Pay/Show/Water
- Logs
- Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information

WV Geological & Economic Survey:

Well: County = 087 Permit = 4079

Report Time: Tuesday, May 19, 2020 9:05:58 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708704079	Roane	4079	Smithfield	Tariff	Otter	38.656317	-81.216115	481196	4278661

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708704079	8/28/1988	Original Loc	Completed	Carl McGlothlin	48					Pennzoil Company			
4708704079	6/1/1993	Worked Over	Completed	Carl McGlothlin		48			Keith Crihfield	Pennzoil Products Company			
4708704079	-/-/-	Plugging	Permitted	David King	48		W M Looney		T A L Collins	Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF
4708704079	8/28/1988	8/24/1988	1109	Ground Level	Tariff(Timn)	Big Injun (Price&eq)	Big Injun (Price&eq)	Service Well	Unsuccessful	Water injection	Rotary	Acid+Frac	2220		2220		0
4708704079	6/1/1993	5/27/1993	1109	Ground Level	Tariff(Timn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Service Well	Unsuccessful	Water injection	Cable Tool	Acid+Frac	2220		0		0
4708704079	-/-/-	-/-/-	1132	Ground Level													

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708704079	6/1/1993	Horizon	Injection	Vertical	2127	Big Injun (Price&eq)	2131	Big Injun (Price&eq)	0	0			
4708704079	8/28/1988	Horizon	Injection	Vertical	2127	Big Injun (Price&eq)	2148	Big Injun (Price&eq)	0	0			
4708704079	6/1/1993	Horizon	Injection	Vertical	2138	Big Injun (Price&eq)	2148	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708704079	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704079	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704079	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704079	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704079	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704079	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704079	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704079	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704079	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708704079	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704079	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704079	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704079	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704079	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704079	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704079	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704079	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704079	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708704079	Original Loc	1st Salt Sand	Well Record	1618	Reasonable	162	Reasonable	1109	Ground Level
4708704079	Original Loc	2nd Salt Sand	Well Record	1818	Reasonable	132	Reasonable	1109	Ground Level
4708704079	Original Loc	Little Lime	Well Record	1950	Reasonable	30	Reasonable	1109	Ground Level
4708704079	Original Loc	Pencil Cave	Well Record	1980	Reasonable	26	Reasonable	1109	Ground Level
4708704079	Original Loc	Big Lime	Well Record	2005	Reasonable	110	Reasonable	1109	Ground Level
4708704079	Original Loc	Big Injun (Price&eq)	Well Record	2116	Reasonable	33	Reasonable	1109	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5
4708704079	10	2220		G D C *	Y	N	10	2220	500	2220									10	2220	Y	Y

Comment: *logs: caliper, CCL, perforation depth

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708704079gdc.tif
4708704079gpo.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:

- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:

- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

4079

WR-35

27-Jun-88

API # 47- 87-04079

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: McGLOTHLIN, CARL Operator Well No.: W.M. LOONEY 48

LOCATION: Elevation: 1109.00 Quadrangle: TARIFF

District: SMITHFIELD County: ROANE
Latitude: 3850 Feet South of 38 Deg. 40Min. 0 Sec.
Longitude 2250 Feet West of 81 Deg. 12 Min. 30 Sec.

Company: PENNZOIL PRODUCTS COMPANY
P. O. BOX 5519
VIENNA, WV

Agent: JAMES A. CREWS

Inspector: HOMER DOUGHERTY
Permit Issued: 06/28/88
Well work Commenced: 8-24-88
Well work Completed: 8-28-88
Verbal Plugging
Permission granted on: _____
Rotary __X__ Cable _____ Rig
Total Depth (feet) 2220
Fresh water depths (ft) _____

Salt water depths (ft) _____

Is coal being mined in area (Y/N)? N
Coal Depths (ft): _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8	525	525	To surface
4-1/2	2199	2199	160 sks.

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth (ft) 2116
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow * MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours
* Water Injection Well
Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Curtis A. Lucas

For: PENNZOIL PRODUCTS COMPANY

By: Curtis A. Lucas
Date: November 7, 1988

4019

Perforations: 2127-2131; 2138-2148; - 11 holes

Frac w/250 gal. HF acid, 150 Bbls. gelled H_2O. 500# 20/40 sand.

Sand & Shale	0-104
Sand	104-148
Slate	148-170
Sand	170-470
Slate	470-778
Sand	778-905
Slate	905-970
Sand & Shale	970-1470
Sand	1470-1515
Shale	1515-1618
Salt Sand	1618-1780
Shale	1780-1818
Salt Sand	1818-1950
Little Lime	1950-1980
Pencil Cave	1980-2006
Big Lime	2006-2116
Big Injun	2116-2149
Pocono Shale	2149-2220

WR-38
Rev. 5/08

API # 47-87-4079-P

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: McGlothlin,Carl Operator Well No.: W.M.Looney #48

LOCATION: Elevation: 1109'GL Quadrangle: Tariff
District: Smithfield County: Roane
Latitude: _____ Feet South of _____ Deg. _____ Min. _____ Sec.
Longitude: _____ Feet West of _____ Deg. _____ Min. _____ Sec.

Well Type: OIL _____ GAS water inj.

Company Triad Hunter,LLC
125 Putnam Street
Marietta,Ohio 45750

Agent Kim Arnold
Permit Issued Date 06-11-2015

Coal Operator or Owner N/A

Coal Operator or Owner N/A

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

Rick Duckworth and Robert Stewart being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 1st. day of November 2016, and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
cement	2150'	1950'	1090 4 1/2	1109'
cement	1090'	990'		
cement	575'	475'		
cement	150'	0		

Description of monument: 5 1/2 pipe with API# on attached plate and that the work of plugging and filling said well was completed on the 4th. day of November, 2016.

And further deponents saith not.

Rick Duckworth

Robert R. Stewart

Sworn and subscribe before me this 3rd day of November, 2016

My commission expires: April 13 2024

Notary Public

OFFICIAL SEAL
Dawn R. Dobbins
Notary Public
State of West Virginia
My Commission Expires
April 13, 2024
PO Box 265
Gassaway, WV 26624

WVGES GEOLOGY UNDERLIES IT ALL

"Pipeline"

Select County: (087) Roane

Enter Permit #: 4080

Get Data | Reset

Select datatypes: (Check All)

- Location
- Production
- Plugging
- Owner/Completion
- Stratigraphy
- Sample
- Pay/Show/Water
- Logs
- Btm Hole Loc

Table Descriptions
County Code Translation
Permit-Numbering Series
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Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 4080

Report Time: Tuesday, May 19, 2020 8:17:00 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708704080	Roane	4080	Smithfield	Tariff	Otter	38.657615	-81.215832	481221	4278805

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708704080	9/1/1988	Original Loc	Completed	Carl McGlothlin	49					Pennzoil Company			
4708704080	6/1/1993	Worked Over	Completed	James C Lloyd		49			Keith Crihfield	Pennzoil Products Company			
4708704080	6/20/2017	Plugging	Completed	James Lloyd	49		W M Looney		T A L Collins	Triad Hunter LLC			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AF
4708704080	9/1/1988	8/26/1988	1215	Ground Level	Tariff(Tlmn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2306		2306		0	0	0	0			0	0	0	
4708704080	6/1/1993	5/27/1993	1215	Ground Level	Tariff(Tlmn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Service Well	Unsuccessful	Water Injection	Cable Tool	Acid+Frac	2306		0		0	0	0	0			0	0	0	
4708704080	6/20/2017	6/13/2017	1209	Ground Level																						

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708704080	6/1/1993	Horizon	Injection	Vertical	2230	Big Injun (Price&eq)	2236	Big Injun (Price&eq)	0	0			
4708704080	9/1/1988	Horizon	Injection	Vertical	2230	Big Injun (Price&eq)	2257	Big Injun (Price&eq)	0	0			
4708704080	6/1/1993	Horizon	Injection	Vertical	2246	Big Injun (Price&eq)	2257	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708704080	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704080	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704080	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704080	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704080	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704080	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704080	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704080	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704080	Triad Hunter LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708704080	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704080	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704080	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704080	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704080	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704080	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704080	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704080	Triad Resources, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704080	Triad Hunter LLC	2017	0												

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708704080	Original Loc	1st Salt Sand	Well Record	1743	Reasonable	167	Reasonable	1215	Ground Level
4708704080	Original Loc	2nd Salt Sand	Well Record	1982	Reasonable	73	Reasonable	1215	Ground Level
4708704080	Original Loc	Little Lime	Well Record	2055	Reasonable	31	Reasonable	1215	Ground Level
4708704080	Original Loc	Pencil Cave	Well Record	2086	Reasonable	28	Reasonable	1215	Ground Level
4708704080	Original Loc	Big Lime	Well Record	2114	Reasonable	112	Reasonable	1215	Ground Level
4708704080	Original Loc	Big Injun (Price&eq)	Well Record	2226	Reasonable	33	Reasonable	1215	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708704080	150	2308		G D C *	Y	N	150	2298	450	2306									450	2308	Y	Y	N						

Comment: *logs: caliper, CCL, perforation

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here
geologic log types:

4080

FILENAME
4708704080_d_tif
4708704080_o.tif

d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
e photoelectric adsorption (PE or Pe, etc.)
g gamma ray
i induction (includes dual induction, medium induction, deep induction, etc.)
l laterolog
m dipmeter
n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
o other[1]
s sonic or velocity
t temperature (includes borehole temperature, BHT, differential temperature, etc.)
z spontaneous potential or potential

mechanical log types:

b cement bond
c caliper
o other[1]
p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4708704080	6/20/2017	0

There is no Sample data for this well

A-35

4080

27-Jun-88

API # 47- 87-04080

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

4708704080

Well Operator's Report of Well Work

Farm name: McGLOTHLIN, CARL Operator Well No.: W.M. LOONEY 49

LOCATION: Elevation: 1215.00 Quadrangle: TARIFF

District: SMITHFIELD County: ROANE
Latitude: 3300 Feet South of 38 Deg. 40Min. 0 Sec.
Longitude 2200 Feet West of 81 Deg. 12 Min. 30 Sec.

Company: PENNZOIL PRODUCTS COMPANY
P. O. BOX 5519
VIENNA, WV

Agent: JAMES A. CREWS

Inspector: HOMER DOUGHERTY
Permit Issued: 06/28/88
Well work Commenced: 8-26-88
Well work Completed: 9-1-88
Verbal Plussing
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 2306
Fresh water depths (ft) _____
Salt water depths (ft) _____
Is coal being mined in area (Y/N)? N
Coal Depths (ft): _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8	655	655	To surface
4-1/2	2291	2291	160 sks.

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth (ft) 2226
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow * MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours
* Water Injection Well
Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Received
Office of Oil & Gas
MAR 16 2015

For: PENNZOIL PRODUCTS COMPANY
By: Curtis A. Lucas
Date: November 15, 1988

4080

4708704080

Perforations: 2230-2236; 2246-2257

Frac w/250 gal. HF acid, 150 Bbls. gelled H_2O, 1500# 20/40 sand.

87-4080

Sand	0-100
Shale	100-217
Sand	217-253
Slate	253-570
Sand	570-600
Slate	600-900
Sand & Shale	900-1743
Salt Sand	1743-1910
Shale	1910-1982
Salt Sand	1982-2055
Little Lime	2055-2086
Pencil Cave	2086-2114
Big Lime	2114-2226
Big Injun	2226-2259
Pocono Shale	2259-2306

Received
Office of Oil & Gas
MAR 16 2015

4080

WR-38
Rev. 5/08

API # 47-87-4080-P

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: McGlothlin, Carl Operator Well No.: WM Looney 49

LOCATION: Elevation: 1215' GL Quadrangle: Tariff
District: Smithfield County: Roane
Latitude: 3300 Feet South of 38 Deg. 40 Min. 0 Sec.
Longitude: 2200 Feet West of 81 Deg. 12 Min. 30 Sec.

Well Type: OIL _____ GAS water inj

Company Triad Hunter, LLC
125 Putnam Street
Marietta, OH 45750

Coal Operator or Owner na

Agent Kim Arnold

Coal Operator or Owner na

Permit Issued Date 06/11/2015

RECEIVED
Office of Oil and Gas
JUL 12 2017
WV Department of
Environmental Protection

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane ss:

Rick Duckworth and Robert Stewart being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 13th day of June 2017, and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
cement	2290'	2090'	1200' of 4 1/2 inch	1091'
cement	1250'	1150'		
cement	705'	605'		
cement	150'	0		

Description of monument: 5 1/2" pipe with API on attached plate and that the work of plugging and filling said well was completed on the 20th day of June 2017.

And further deponents saith not. Rick Duckworth
Robert A. Stewart

Sworn and subscribe before me this 9th day of July 2017

My commission expires: April 13, 2024

Notary Public

OFFICIAL SEAL
Dawn R. Dobbins
Notary Public
State of West Virginia
My Commission Expires
April 13, 2024
PO Box 265
Gassaway, WV 26624

Affidavit reviewed by the Office of Oil and Gas: _____ Title: OOG Inspector
7-11-17

WVGES
GEOLOGY UNDERLIES IT ALL
"Pipeline"

Select County: (087) Roane
Enter Permit #: 4168
Get Data | Reset

Select datatypes: (Check All)
- Location
- Owner/Completion
- Pay/Show/Water
- Production
- Stratigraphy
- Logs
- Plugging
- Sample
- Btm Hole Loc

Table Descriptions
County Code Translation
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 87 Permit = 4168

Report Time: Tuesday, May 19, 2020 8:17:22 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708704168	Roane	4168	Smithfield	Tariff	Otter	38.659073	-81.21816	481018.8	4278967.3

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708704168	10/24/1991	Original Loc	Completed	James C Lloyd		51			Keith Crihfield	Pennzoil Products Company			
4708704168	-/-/-	Worked Over	Permitted	James Lloyd	51		W M Looney		Triad Hunter LLC et al	Triad Hunter LLC	2240	Big Injun (Price&eq)	

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	OD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	F_AFT	TI_AFT	BH_
4708704168	10/24/1991	8/16/1991	1115	Ground Level	Tariff(Timn)	Undf PRICE blw INJN	Big Injun (Price&eq)	Development Well	Development Well	Oil	Rotary	Acid+Frac	2240		2240		0	0	0	0			0	0	0	0	
4708704168	-/-/-	-/-/-	1115	Ground Level																							

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708704168	10/24/1991	Pay	Oil	Vertical	2113	Big Injun (Price&eq)	2142	Big Injun (Price&eq)	0	0			

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708704168	Pennzoil Products Company	1992	364	0	57	60	50	37	37	41	30	14	18	14	6
4708704168	Pennzoil Products Company	1993	92	5	4	7	4	7	8	12	6	14	11	9	5
4708704168	Pennzoil Products Company	1994	86	8	6	4	7	7	7	6	6	11	13	10	11
4708704168	Pennzoil Products Company	1995	725	22	97	197	142	33	24	126	0	58	7	8	11
4708704168	Pennzoil Products Company	1996	92	10	7	5	5	5	7	11	2	11	10	9	10
4708704168	Pennzoil Products Company	1997	38	13	9	6	0	3	6	1	0	0	0	0	0
4708704168	Pennzoil Products Company	1998	53	0	0	1	6	6	4	7	9	10	10	0	0
4708704168	Triad Resources, Inc.	2002	19	0	0	0	0	2	4	3	0	1	3	3	3
4708704168	Triad Resources, Inc.	2003	64	8	6	7	2	7	8	4	4	7	4	5	2
4708704168	Triad Resources, Inc.	2004	88	6	5	8	9	9	11	8	9	11	8	4	0
4708704168	Triad Resources, Inc.	2005	101	9	6	12	2	3	7	8	12	9	12	12	9
4708704168	Triad Resources, Inc.	2006	93	10	8	6	6	8	8	8	8	8	8	8	7
4708704168	Triad Resources, Inc.	2007	62	8	7	7	5	2	2	6	6	6	4	5	4
4708704168	Triad Resources, Inc.	2008	74	5	4	4	4	4	5	4	3	7	8	12	14
4708704168	Triad Resources, Inc.	2009	34	8	3	2	2	5	5	3	0	3	1	1	1
4708704168	Triad Hunter LLC	2010	39	6	2	3	3	3	5	5	4	3	3	2	0
4708704168	Triad Hunter LLC	2011	11	1	1	1	1	0	3	1	1	1	1	0	0
4708704168	Triad Hunter LLC	2012	15	1	1	1	2	2	2	1	2	2	1	0	0
4708704168	Triad Hunter LLC	2013	12	1	1	1	1	1	1	1	1	1	1	1	1
4708704168	Triad Hunter LLC	2014	8	1	1	1	0	1	0	1	0	1	1	1	0
4708704168	Triad Hunter LLC	2015	6	0	0	0	1	3	1	1	0	0	0	0	0
4708704168	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704168	Ground Resources, LLC	2017	218	0	0	0	0	0	0	49	43	37	34	22	33
4708704168	Ground Resources, LLC	2018	249	0	0	44	0	28	23	0	25	33	36	32	28

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708704168	Pennzoil Products Company	1992	935	159	141	106	103	111	92	43	58	51	26	21	24
4708704168	Pennzoil Products Company	1993	437	27	24	39	34	39	48	57	44	37	25	32	31
4708704168	Pennzoil Products Company	1994	465	27	31	34	30	30	28	57	58	43	48	46	33
4708704168	Pennzoil Products Company	1995	599	56	47	38	33	36	53	41	44	61	65	50	75
4708704168	Pennzoil Products Company	1996	452	39	38	37	28	32	36	27	34	35	37	60	49
4708704168	Pennzoil Products Company	1997	176	41	39	41	39	16	0	0	0	0	0	0	0
4708704168	Pennzoil Products Company	1998	367	33	38	44	37	33	32	37	34	37	42	0	0
4708704168	Triad Resources, Inc.	2002	80	0	0	0	0	11	10	12	4	12	14	5	12
4708704168	Triad Resources, Inc.	2003	377	25	24	25	26	28	30	28	28	30	38	50	45
4708704168	Triad Resources, Inc.	2004	329	31	31	31	31	30	30	22	28	24	23	21	27
4708704168	Triad Resources, Inc.	2005	1,218	108	71	82	97	81	124	95	97	110	144	116	93
4708704168	Triad Resources, Inc.	2006	1,243	68	99	106	126	67	85	106	96	136	97	118	139
4708704168	Triad Resources, Inc.	2007	1,448	118	139	92	160	115	134	117	125	104	117	107	120
4708704168	Triad Resources, Inc.	2008	1,501	115	157	79	141	103	70	123	126	175	155	100	157
4708704168	Triad Resources, Inc.	2009	983	41	0	91	134	117	94	84	83	70	106	92	71
4708704168	Triad Hunter LLC	2010	476	101	14	79	15	14	90	14	15	99	14	21	0
4708704168	Triad Hunter LLC	2011	975	72	97	82	69	84	81	77	82	83	89	95	64
4708704168	Triad Hunter LLC	2012	834	49	63	54	40	68	101	37	109	78	84	65	86
4708704168	Triad Hunter LLC	2013	874	81	85	95	67	80	94	48	69	50	56	70	79
4708704168	Triad Hunter LLC	2014	810	61	53	69	69	71	64	57	83	73	60	73	77
4708704168	Triad Hunter LLC	2015	676	75	42	29	71	56	75	56	28	61	42	100	41
4708704168	Triad Hunter LLC	2016	218					33	22	24	33	23	33	26	22
4708704168	Ground Resources, LLC	2017	326	32	18	31	31	25	27	30	22	25	35	28	22
4708704168	Ground Resources, LLC	2018	313	20	23	22	29	28	30	21	23	20	37	32	28

9166

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708704168	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704168	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704168	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704168	Triad Hunter LLC	2016	0												
4708704168	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708704168	Triad Hunter LLC	2016	0												
4708704168	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708704168	Original Loc	Salt Sands (undiff)	Well Record	1610	Reasonable	320	Reasonable	1115	Ground Level
4708704168	Original Loc	Little Lime	Well Record	1945	Reasonable	35	Reasonable	1115	Ground Level
4708704168	Original Loc	Pencil Cave	Well Record	1980	Reasonable	20	Reasonable	1115	Ground Level
4708704168	Original Loc	Big Lime	Well Record	2000	Reasonable	110	Reasonable	1115	Ground Level
4708704168	Original Loc	Big Injun (Price&eq)	Well Record	2110	Reasonable	32	Reasonable	1115	Ground Level
4708704168	Original Loc	Undf PRICE btw INJN	Well Record	2142	Reasonable	0	Reasonable	1115	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH6	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708704168	30	2233		G,I,N,D,C	Y	N	30	2218	504	2222	504	2232	504	2224					504	2233	Y	Y	N						

Comment: *logs: caliper

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
470870416 dinc.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:

- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron–SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:

- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL–casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL–Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

4168

WR-35

RECEIVED
JAN 29 92
Division of Energy
Oil and Gas Section

4168

02-Jul-91
API # 47- 87-04168

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

Reviewed TMG
Recorded

Well Operator's Report of Well Work

Farm name: LLOYD, JAMES C. ETAL. Operator Well No.: W.M. LOONEY #51

LOCATION: Elevation: 1115.00 Quadrangle: TARIFF

District: SMITHFIELD County: ROANE
Latitude: 2800 Feet South of 38 Deg. 40Min. 0 Sec.
Longitude 2850 Feet West of 81 Deg. 12 Min. 30 Sec.

Company: PENNZOIL PRODUCTS COMPANY
P. O. BOX 5519
VIENNA, WV 26105-5519

Agent: JAMES A. CREWS

Inspector: HOMER DOUGHERTY
Permit Issued: 07/02/91
Well work Commenced: 8/16/91
Well work Completed: 10/24/91
Verbal Plugging
Permission granted on:
Rotary X Cable Rig
Total Depth (feet) 2240
Fresh water depths (ft) N/A

Salt water depths (ft) N/A

Is coal being mined in area (Y/N)? N
Coal Depths (ft): N/A

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
8 5/8"	517.65'	517.65'	410 Sks.
4 1/2"	2219.97'	2219.97'	150 Sks.

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth (ft) 2110-2142
Gas: Initial open flow - - MCF/d Oil: Initial open flow - - Bbl/d
Final open flow - - MCF/d Final open flow Show Bbl/d
Time of open flow between initial and final tests - - Hours
Static rock Pressure N/A psig (surface pressure) after - - Hours

Second producing formation Pay zone depth (ft)
Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d
Final open flow MCF/d Final open flow Bbl/d
Time of open flow between initial and final tests Hours
Static rock Pressure psig (surface pressure) after Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: PENNZOIL PRODUCTS COMPANY

By: Timothy P. Roush
Date: January 21, 1992

ROANE 4168

4168

FRACTURE RECORD

PERFORATED: Big Injun 2113-2142 with 21 holes

FRACTURED: Big Injun w/250 gal. regular HF Acid, 157 bbl. gelled water, 1500# 20/40 sand

WELL LOG

0 - 110	Sandy Shale
110 - 150	Sand
150 - 785	Sandy Shale
785 - 945	Sand
945 - 985	Shale
985 - 1135	Sand
1135 - 1205	Shale
1205 - 1245	Sand
1245 - 1300	Shale
1300 - 1365	Sand
1365 - 1610	Shaley Sand
1610 - 1930	Salt Sand
1930 - 1945	Shale
1945 - 1980	Little Lime
1980 - 2000	Pencil Cave
2000 - 2110	Big Lime
2110 - 2142	Big Injun
2142 - 2240	Pocono Shale
T.D. = 2240	

2/3/2

"Pipeline"

Select County: 087 Roane

Enter Permit #: 4421

Get Data | Reset

Select datatypes: (Check All)

- Location
- Owner/Completion
- Pay/Show/Water
- Production
- Stratigraphy
- Logs
- Plugging
- Sample
- Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Number Search
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 4421

Report Time: Tuesday, May 19, 2020 8:32:52 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708704421	Roane	4421	Smithfield	Tariff	Otter	38.565349	-81.212426	481518.3	4279207.5

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708704421	11/2/2004	Original Loc	Completed	Wm M Looney		200410	Anthony Hofstad		Keith Crihfield	Triad Resources Inc.	5900	Devonian Sh	

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	BH_P_BEF	BH
4708704421	11/2/2004	10/26/2004	1084	Ground Level	Tariff Timn	Onondaga Ls	Marcellus Fm	Development Well	Development Well	Gas	Rotary	Acid+Frac	5920		5920			20							400	96		

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708704421	11/2/2004	Water	Salt Water	Vertical			715						
4708704421	11/2/2004	Pay	Gas	Vertical	5053	Alexander	5058	Alexander					
4708704421	11/2/2004	Pay	Gas	Vertical	5199	Alexander	5204	Alexander					
4708704421	11/2/2004	Pay	Gas	Vertical	5486	Sonyea Fm	5491	Sonyea Fm					
4708704421	11/2/2004	Pay	Gas	Vertical	5694	Genesee Fm	5699	Genesee Fm					
4708704421	11/2/2004	Pay	Gas	Vertical	5796	Marcellus Fm	5801	Marcellus Fm					
4708704421	11/2/2004	Pay	Gas	Vertical	5872	Marcellus Fm	5876	Marcellus Fm					

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708704421	Triad Resources, Inc.	2005	2,398	375	356	229	173	241	189	145	183	162	120	134	91
4708704421	Triad Resources, Inc.	2006	756	82	81	85	78	81	75	77	74	69	54	0	0
4708704421	Triad Resources, Inc.	2007	796	59	35	84	88	85	74	76	45	67	70	72	41
4708704421	Triad Resources, Inc.	2008	853	89	61	63	78	64	75	78	86	95	75	42	47
4708704421	Triad Resources, Inc.	2009	588	102	78	128	50	25	55	0	0	0	0	150	0
4708704421	Triad Hunter LLC	2010	2,402	101	186	215	161	236	341	311	320	132	257	142	0
4708704421	Triad Hunter LLC	2011	444	98	70	71	31	9	2	3	8	8	54	83	7
4708704421	Triad Hunter LLC	2012	540	43	49	57	63	76	55	56	55	60	26	0	0
4708704421	Triad Hunter LLC	2013	127	5	6	13	11	15	20	16	9	14	6	8	4
4708704421	Triad Hunter LLC	2014	161	7	4	5	4	20	31	24	28	23	9	4	1
4708704421	Triad Hunter LLC	2015	28	0	0	0	0	0	14	14	0	0	0	0	0
4708704421	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704421	Ground Resources, LLC	2017	92	0	0	0	0	0	0	0	0	0	0	0	92
4708704421	Ground Resources LLC	2018	302	85	69	85	63	3	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708704421	Triad Resources, Inc.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704421	Triad Resources, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704421	Triad Resources, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704421	Triad Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704421	Triad Resources, Inc.	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704421	Triad Hunter LLC	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704421	Triad Hunter LLC	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704421	Triad Hunter LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704421	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704421	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704421	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704421	Triad Hunter LLC	2016	216					33	22	24	33	23	33	26	22
4708704421	Ground Resources, LLC	2017	0												
4708704421	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708704421	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704421	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704421	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704421	Triad Hunter LLC	2016	0												
4708704421	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708704421	Triad Hunter LLC	2016	0												
4708704421	Ground Resources LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM

4421

4708704421	Original Loc	Little Lime	Well Record	1950	Reasonable	40	Reasonable	1084	Ground Level
4708704421	Original Loc	Pencil Cave	Well Record	1980	Reasonable	15	Reasonable	1084	Ground Level
4708704421	Original Loc	Big Lime	Well Record	2005	Reasonable	105	Reasonable	1084	Ground Level
4708704421	Original Loc	Big Injun (undiff)	Well Record	2110	Reasonable	36	Reasonable	1084	Ground Level
4708704421	Original Loc	Sunbury Sh	Well Record	2498	Reasonable	22	Reasonable	1084	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FRO
4708704421	954	5925		G C D I *		N	954	5883	2182	5914	2182	5900	2188	5919	2172	5925			2182	5925	N	Y				1094	1084	1063	109

Comment: *logs: differential temperature, caliper, bit size, tension, gas detector, PE, density porosity, matrix density, density correction, perforations, amp, TT, CCL, VDL.

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4708704421gbpo.tif
4708704421gcio.tif
4708704421gondteo.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

4421

WR-35

DATE: APRIL 6, 2005
API #: 47-087-04421

4421

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: LOONEY Operator Well No.: 200410

LOCATION: Elevation: 1084 Quadrangle: TARIFF

District: SMITHFIELD County: ROANE
Latitude: 2,025 Feet South of 38 Deg. 40 Min. 00 Sec.
Longitude 1,225 Feet West of 81 Deg. 12 Min. 30 Sec.

Company: TRIAD RESOURCES, INC

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: P.O. BOX 430				
REND OHIO 45773	13"	31'	31'	
Agent: KIMBERLY ARNOLD				
Inspector: ED GAINER	9 5/8"	254'	214'	C.T.S
Date Permit Issued: 9/15/04				
Date Well Work Commenced: 10/26/04	7"	2261'	2210'	C.T.S.
Date Well Work Completed: 11/2/04				
Verbal Plugging:	4 1/2"	5920'	5904	283.4
Date Permission granted on:				CU. FT.
Rotary X Cable Rig				
Total Depth (feet): 5920				
Fresh Water Depth (ft.): NONE				
Salt Water Depth (ft.): 715'				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): N/A				

OPEN FLOW DATA

Producing formation DEVONIAN SHALE Pay zone depth (ft) 5486'-5[illegible]
Gas: Initial open flow - MCF/d Oil: Initial open flow - Bbl/d
Final open flow - MCF/d Final open flow - Bbl/d
Time of open flow between initial and final tests - Hours
Static rock Pressure - psig (surface pressure) after - Hours

RECEIVED
[illegible] Gas
MAY 0 3 2005
WV D[illegible]
Environmen[illegible]

Second producing formation ALEXANDER Pay zone depth (ft) 5053'-5204'
Gas: Initial open flow - MCF/d Oil: Initial open flow - Bbl/d
Final open flow 20 MCF/d Final open flow - Bbl/d
Time of open flow between initial and final tests Hours
Static rock Pressure 400 psig (surface pressure) after 96 Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed: Rocky Roberts ROCKY ROBERTS
By: VICE PRES. EXPLORATION & DEVELOPMENT
Date: APRIL 6, 2005

1277

PERFORATIONS

5053' - 5058'	20	HOLES	0.39" HSC
5199' - 5204'	20	HOLES	0.39" HSC
5486' - 5491'	20	HOLES	0.39" HSC
5694' - 5699'	20	HOLES	0.39" HSC
5796' - 5801'	20	HOLES	0.39" HSC
5876' - 5872'	24	HOLES	0.39" HSC

FRACTURE TREATMENT

1ST STAGE

580 GAL 15% HCl
256 BBL TREATED WATER
650,000 SCF N_2
16,200 - lbs 20/40 SAND

BREAKDOWN: 2829 PSIG
AVG PRESS: 3647 PSIG
AVG. RATE: 9.5 b.p.m.
ISIP: 3927 PSIG
5-MIN SIP: N/A

2ND STAGE

1500 GAL 15% HCl
313 BBL WATER
878,800 SCF N_2
61,400 - lb 20/40 SAND

BREAKDOWN: 3600 PSIG
AVG PRESS: 2559 PSIG
AVG RATE: 8.7 b.p.m
ISIP: 1458 PSIG
5-MIN SIP: 1357 PSIG

FORMATIONS

SALT SANDS	976' - 1874'
LITTLE LIME	1950' - 1990'
PENCIL CAVE	1990' - 2005'
BIG LIME	2005' - 2110'
BIG INJUN	2110' - 2146'
COFFEE SHALE	2498' - 2520'
DEVONIAN SHALE	2520' - 5920'

4421

PHOTO DENSITY
COMPENSATED NEUTRON
ULTRASONIC GAS DETECTOR

ALLEGHENY WIRELINE SERVICES, INC.

COMPANY	Triad Resources Inc.
WELL	Wm. M. Looney #200410
FIELD	Tariff 7.5' Quadrangle
PROVINCE/COUNTY	Smithfield / Roane
COUNTRY/STATE	Usa / West Virginia
LOCATION	Latitude 2,025' South of 38°40'00"
	Longitude 1,225' West of 81°12'30"

LSD	SEC	TWP	RGE	Other Services
				ARRAY INDUCTION

API Number 47-087-04421
Permit Number 04121

Perm. Datum G.L. , Elevation 1084 feet
Log M[illegible] From K.B. 10 Ft above Permanent Datum
Drilling [illegible]asured From K.B.

Elevations:
KB 1094.00 feet
DF 1063.00 feet
GL 1084.00 feet

Da[illegible]	02-Nov-2004	
[illegible] Number	1	
Depth Driller	5920.00	feet
Depth Logger	[illegible]	feet
First Reading	[illegible]920.00	feet
Last Reading	0.00	feet
Casing Driller	2220.00	feet
Casing Logger	2182.00	feet
Bit Size	6.25	inches
Hole Fluid Type	None	
Density / Viscosity		
PH / Fluid Loss		
Sample Source		
Rm @ Measured Temp		
Rmf @ Measured Temp		
Rmc @ Measured Temp		
Source Rmf / R[illegible]		
Rm @ BHT		
Time Since Circulation	4.5 Hrs.	
Max Recorded Temp	124.00	deg F
Equipment Name	Compact	
Equipment / Base	268	Dunbar
Recorded By	S. Pete	
Witnessed By	Mr. Kesterson	Mr. Roberts
Field Ticket	26364	

BOREHOLE RECORD

Bit Size inches	Depth From feet	Depth To feet
12.375	0.000	223.983
8.875	223.983	2219.980
6.250	2219.980	5919.980

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
	9.625	0.000	223.983	0.00
	7.000	0.000	2219.980	0.00

REMARKS

Fluid Density 1.0 G/CC
Matrix Density 2.71 From TD to Casing
Watershed Trace Fork

At Customer Request No Gamma Ray To Surface Needed
Thank You For Using Allegheny Wireline Services

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.

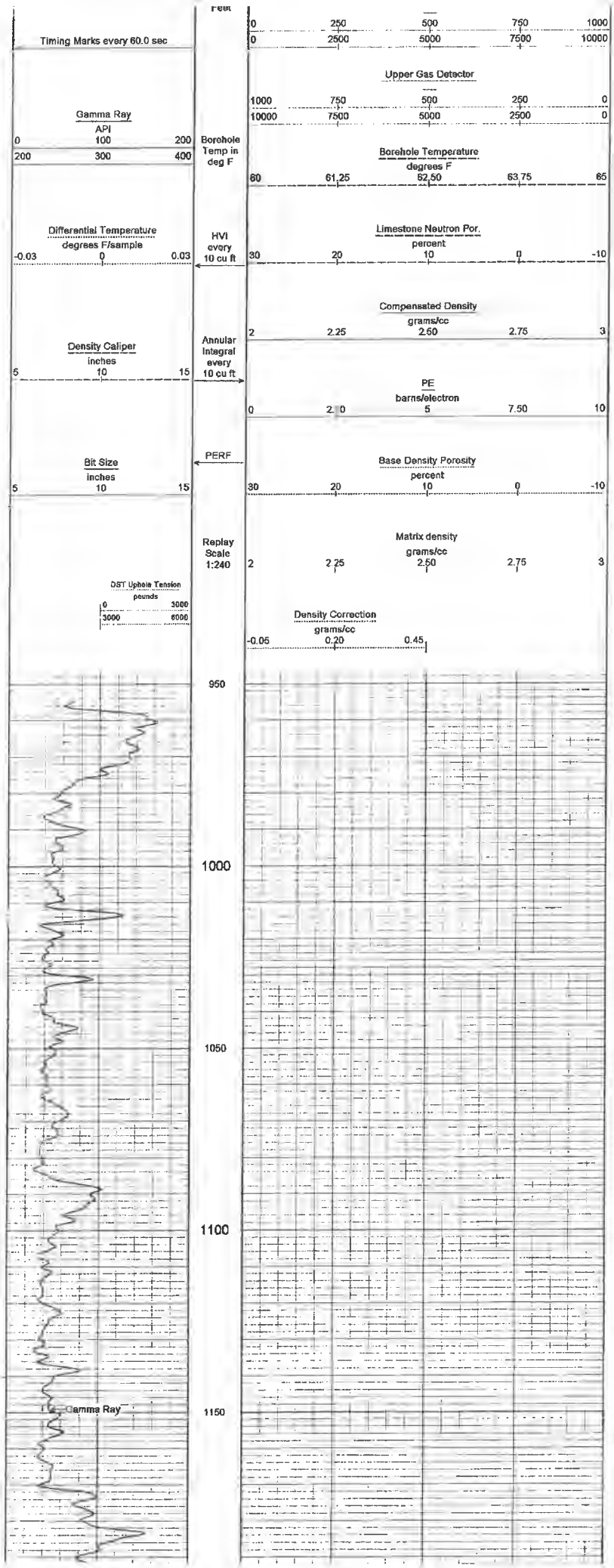
MAIN LOG

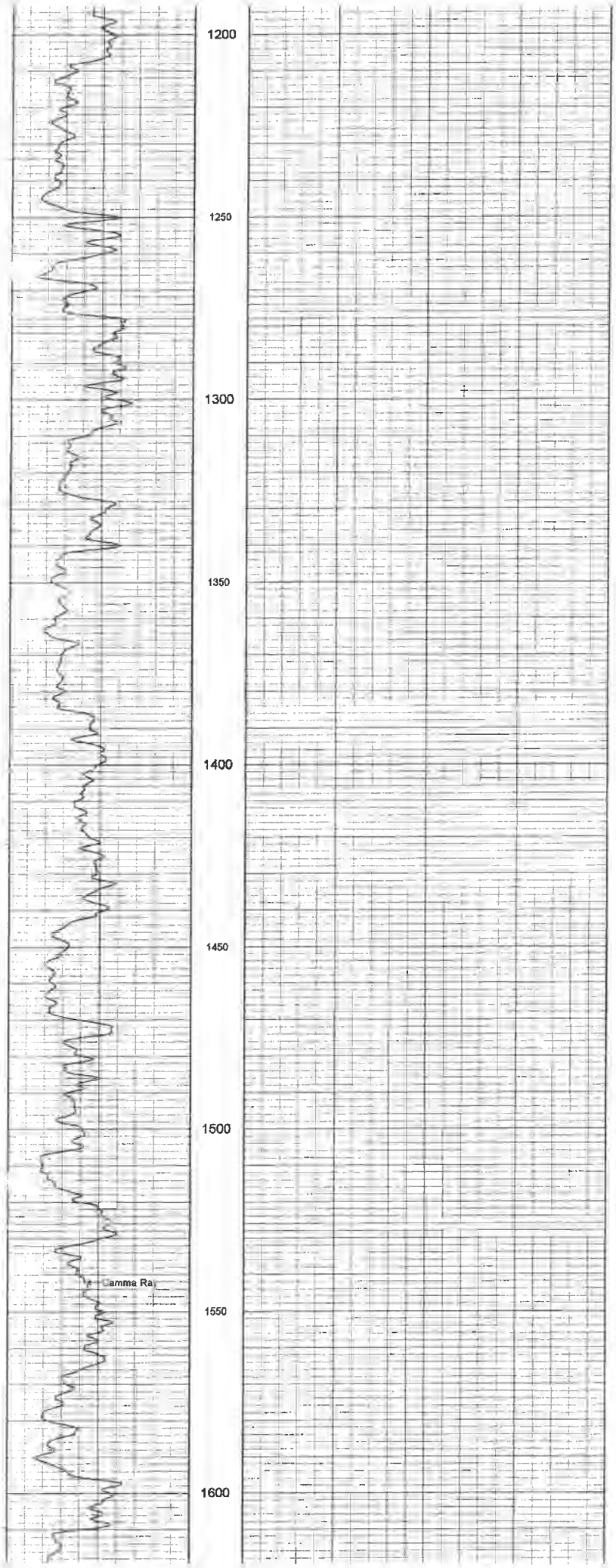
Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\Minimus\Pete\11 02 04 TRI Looney 200410\Up_002.dta
System Configuration Dates: Logged 09-SEP-2003; Processed 09-SEP-2003; Plotted 25-JUN-2003.

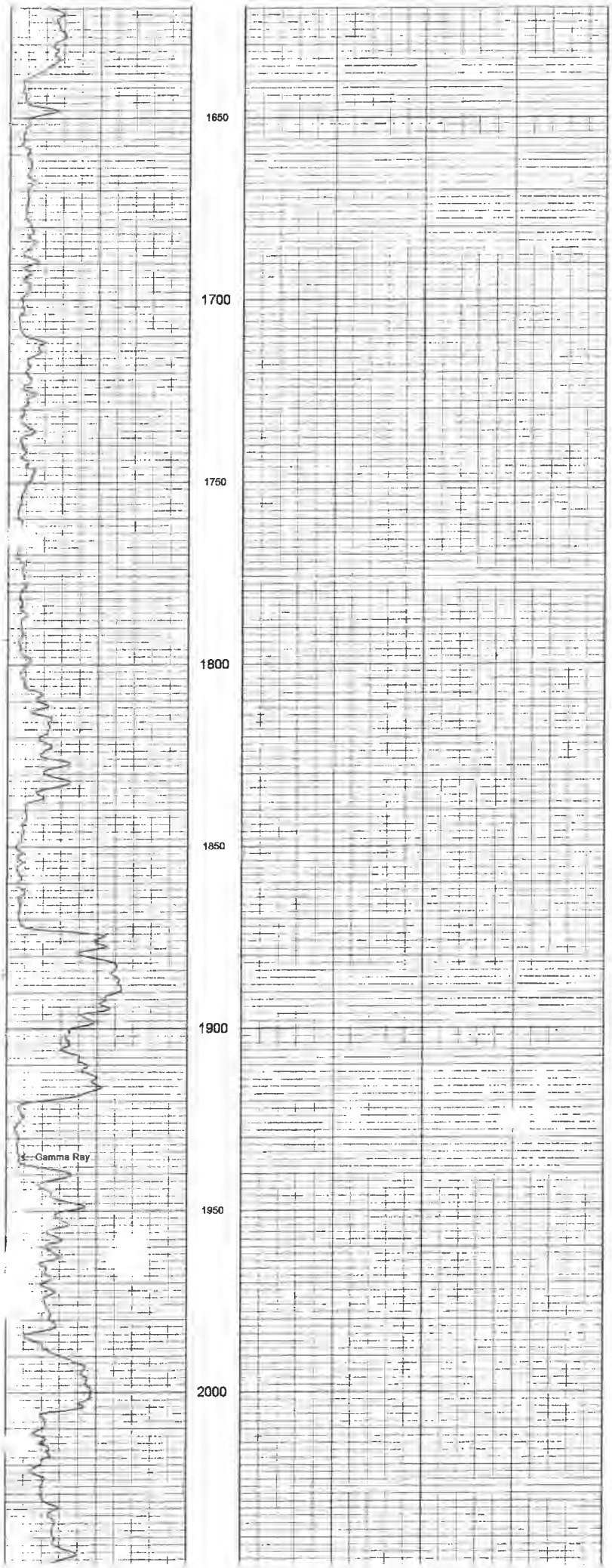
Plotted on 02-NOV-2004 10:29
Recorded on 02-NOV-2004 07:54

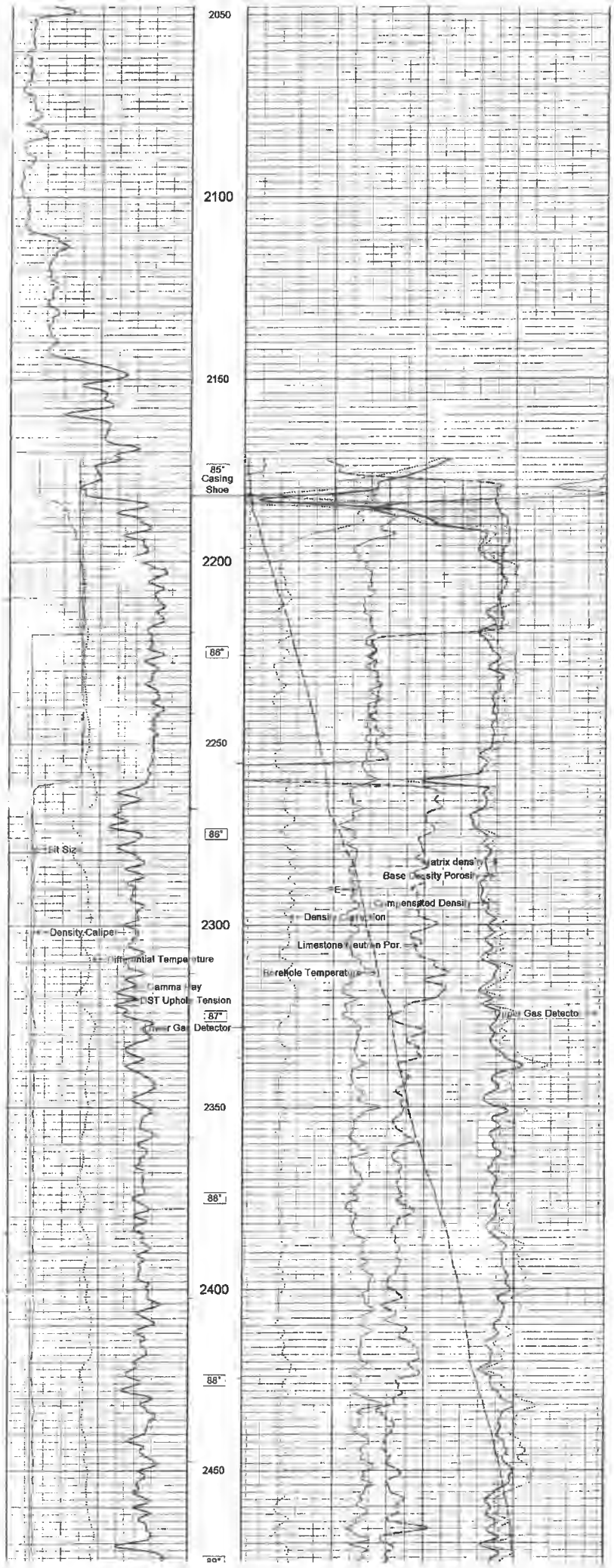
Depth In

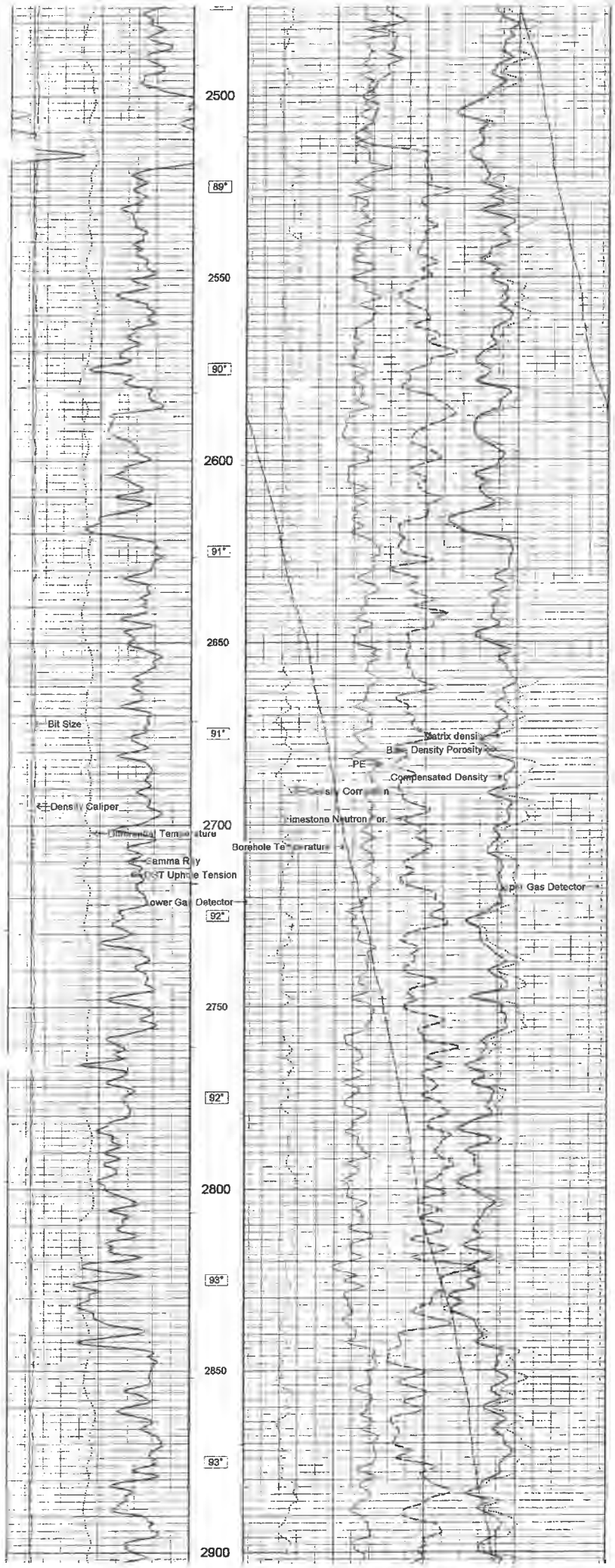
Lower Gas Detector

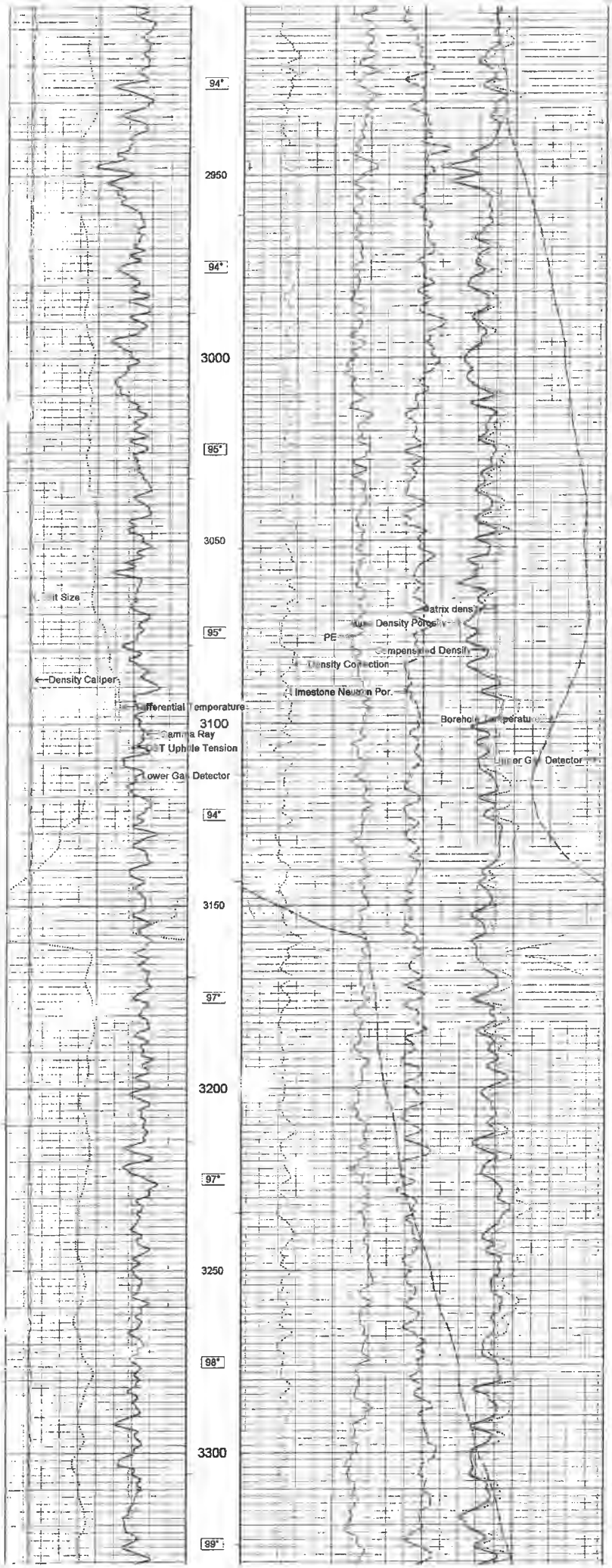

Feet
Timing Marks every 60.0 sec
Gamma Ray
API
0 100 200
200 300 400
Differential Temperature
degrees F/sample
-0.03 0 0.03
Density Caliper
inches
5 10 15
Bit Size
inches
5 10 15
DST Uphole Tension
pounds
0 3000
3000 6000
Borehole Temp in deg F
HVI every 10 cu ft
Annular Integral every 10 cu ft
PERF
Replay Scale 1:240
950
1000
1050
1100
1150
Gamma Ray
0 250 500 750 1000
0 2500 5000 7500 10000
Upper Gas Detector
1000 750 500 250 0
10000 7500 5000 2500 0
Borehole Temperature
degrees F
60 61.25 62.50 63.75 65
Limestone Neutron Por.
percent
30 20 10 0 -10
Compensated Density
grams/cc
2 2.25 2.50 2.75 3
PE
barns/electron
0 2.50 5 7.50 10
Base Density Porosity
percent
30 20 10 0 -10
Matrix density
grams/cc
2 2.25 2.50 2.75 3
Density Correction
grams/cc
-0.05 0.20 0.45

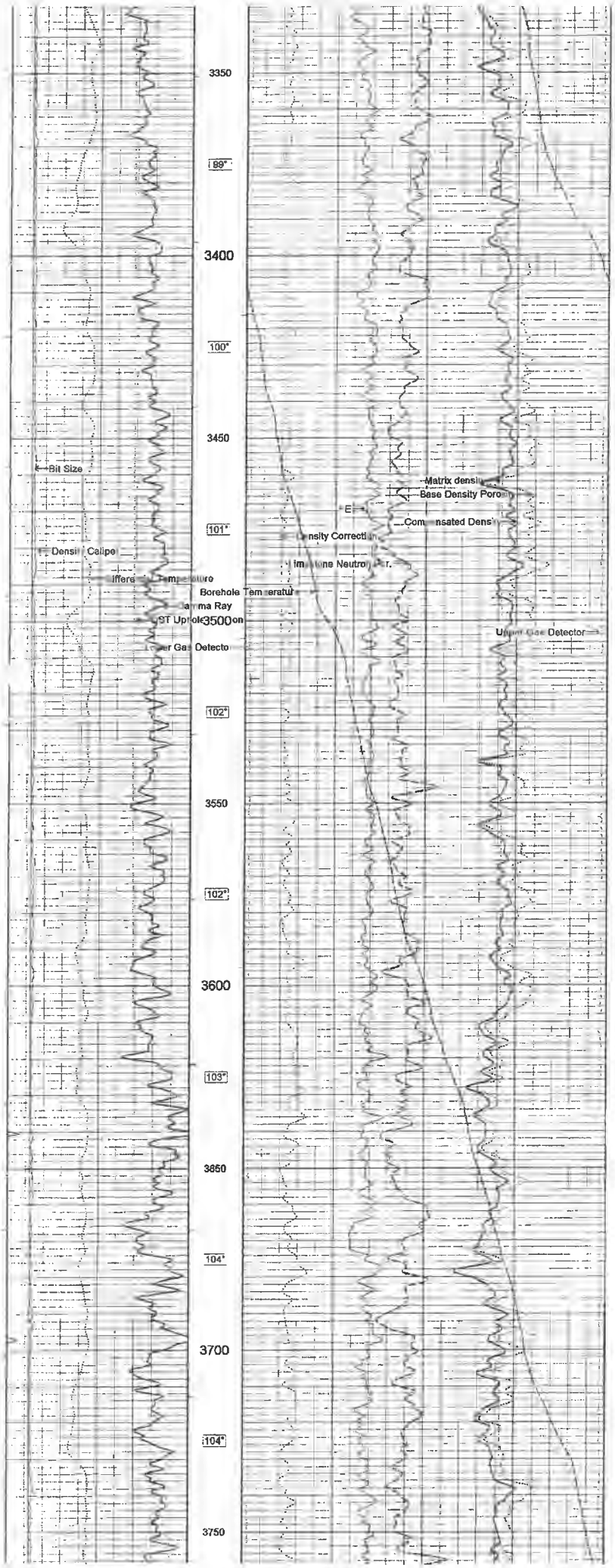

1200
1250
1300
1350
1400
1450
1500
Gamma Ray
1550
1600

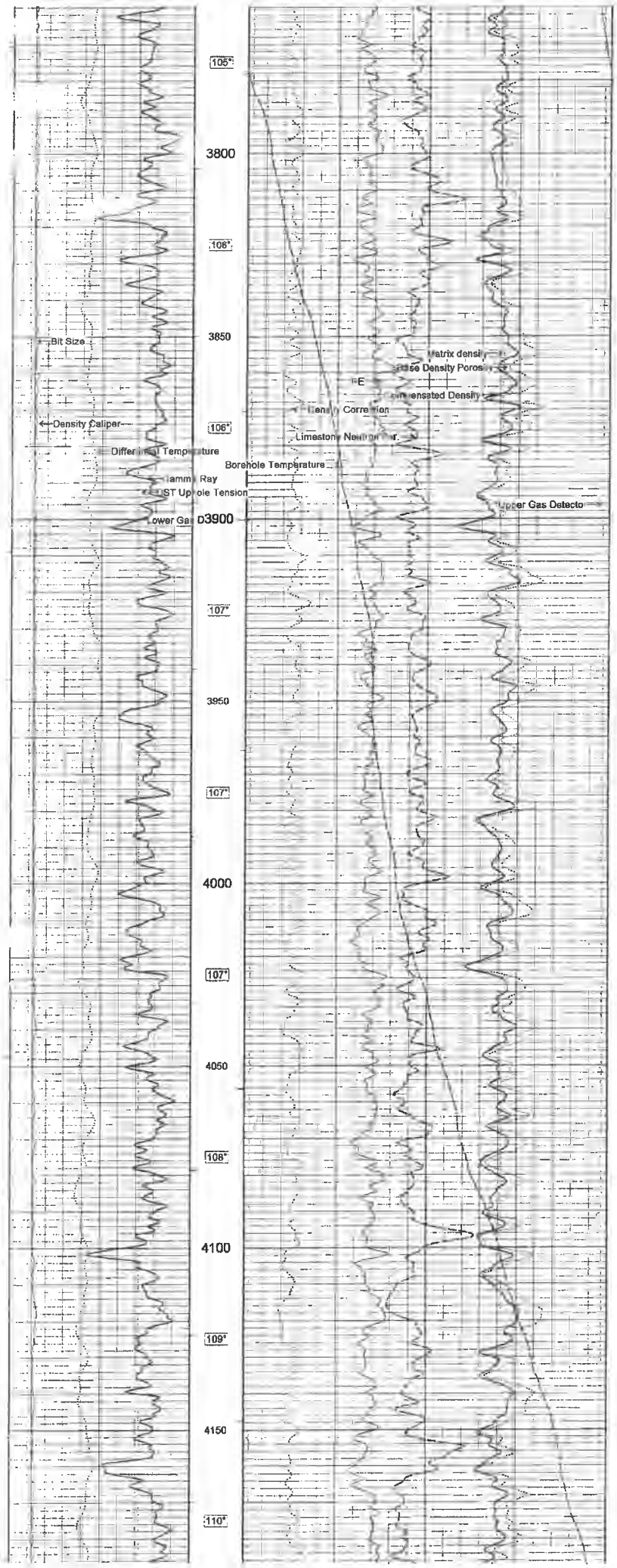

1650
1700
1750
1800
1850
1900
Gamma Ray
1950
2000

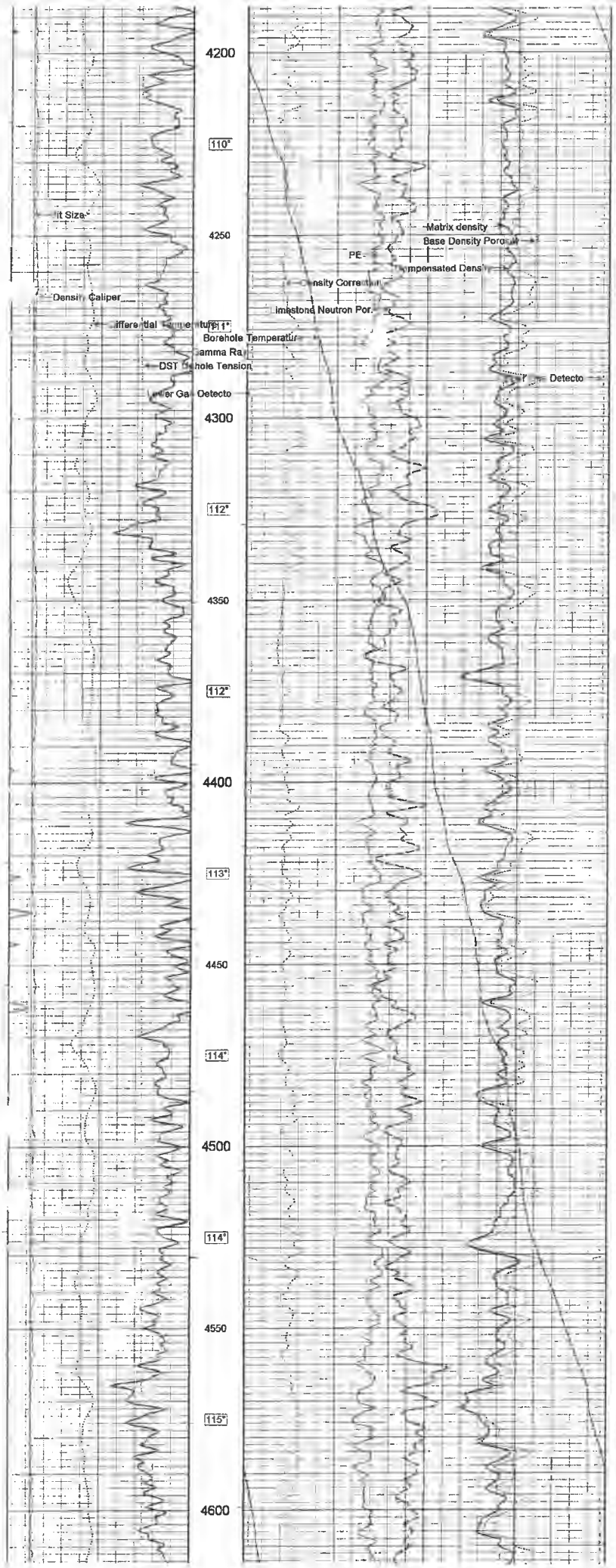

2050
2100
2150
85°
Casing
Shoe
2200
86°
2250
86°
Bit Size
Density Caliper
Differential Temperature
Gamma Ray
DST Upholt Tension
87°
Gas Detector
2300
2350
88°
2400
88°
2450
Matrix density
Base Density Porosity
Compensated Density
Density Correction
Limestone Neutron Por.
Borehole Temperature
Gas Detector

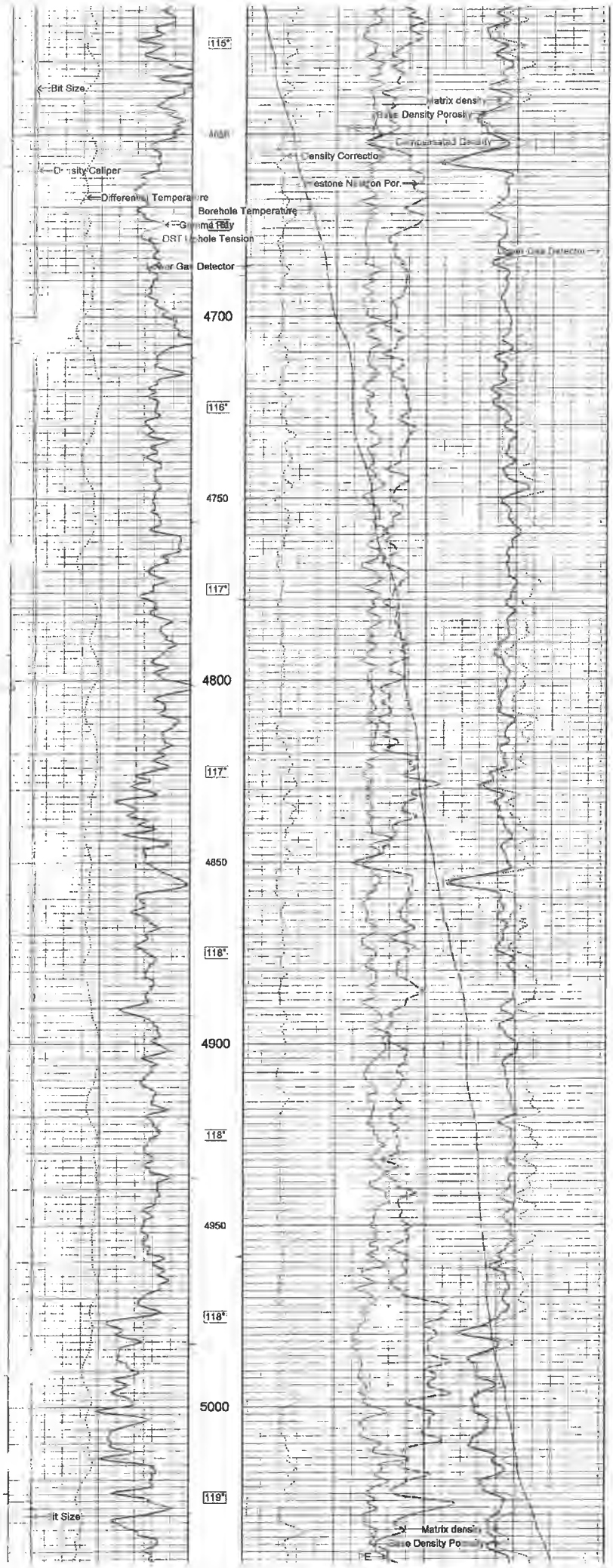

2500
89°
2550
90°
2600
91°
2650
91°
Bit Size
Density Caliper
2700
Borehole Temperature
Gamma Ray
Uphole Tension
Lower Gas Detector
92°
2750
92°
2800
93°
2850
93°
2900
Matrix density
Density Porosity
PE
Compensated Density
Limestone Neutron Porosity
Gas Detector

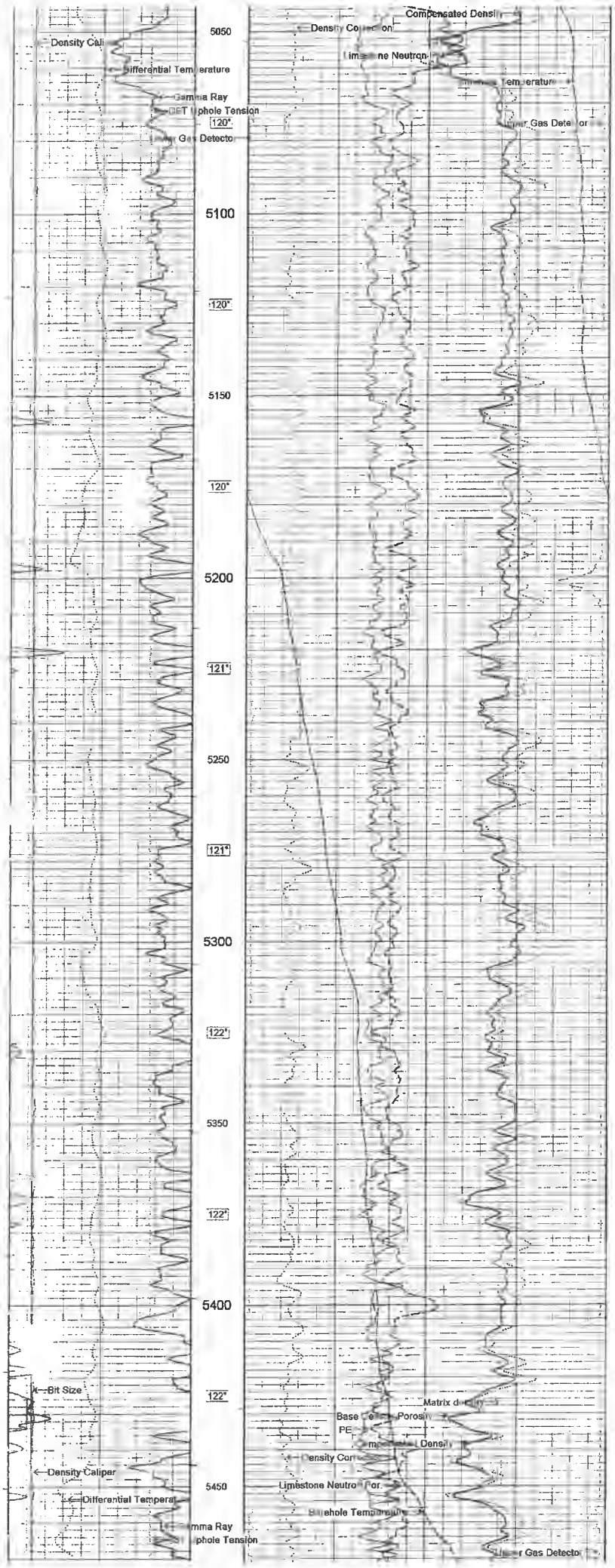

94°
2950
94°
3000
95°
3050
95°
Density Caliper
Differential Temperature
3100
Gamma Ray
Uphole Tension
Lower Gas Detector
94°
3150
97°
3200
97°
3250
98°
3300
99°
Density Porosity
PE
Density Correction
Limestone Neutron Por.
Borehole Temperature
Detector


3350
99°
3400
100°
3450
Bit Size
Matrix densi
Base Density Poro
E
Com nsated Dens
101°
Density Correcti
Densi Calipe
Borehole Temperatur
Gamma Ray
3500
Upper Gas Detector
102°
3550
102°
3600
103°
3650
104°
3700
104°
3750

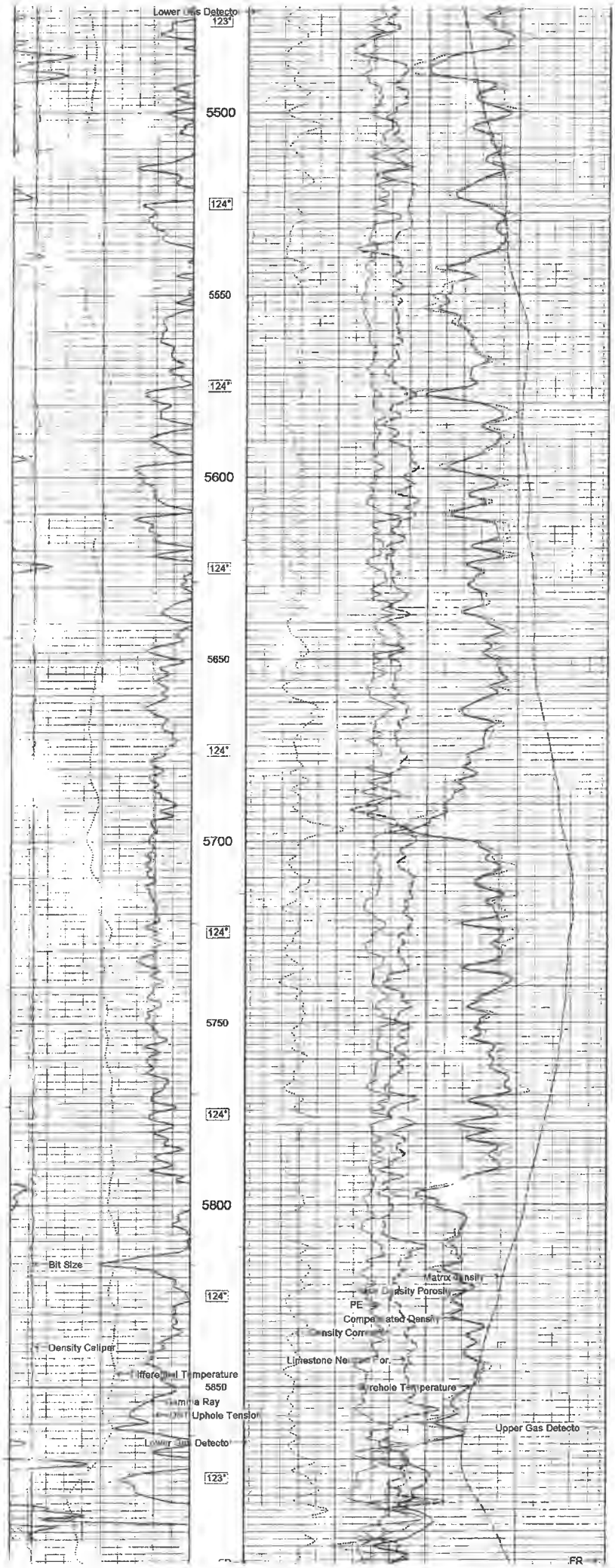

105"
3800
108"
3850
Bit Size
Density Caliper
106"
Borehole Temperature
Upper Gas Detecto
3900
107"
3950
107"
4000
107"
4050
108"
4100
109"
4150
110"


4200
110°
4250
Matrix density
PE
Borehole Temperatur
4300
112°
4350
112°
4400
113°
4450
114°
4500
114°
4550
115°
4600


115"
Bit Size
Density Caliper
Differential Temperature
Borehole Temperature
Gamma Ray
DST Borehole Tension
Gas Detector
4700
116"
4750
117"
4800
117"
4850
118"
4900
118"
4950
118"
5000
119"
Bit Size
Density Correction
Matrix density
Density Porosity
Compensated Density
Limestone Neutron Por.
Gas Detector
Matrix density
Density Porosity



Density Cal
Differential Temperature
Gamma Ray
DET Uphole Tension
Upper Gas Detector
5050
5100
5150
5200
5250
5300
5350
5400
5450
120°
121°
122°
Bit Size
Density Caliper
Differential Temperat
Gamma Ray
Uphole Tension
Compensated Density
Density Correction
Limestone Neutron
Temperature
Upper Gas Detector
Matrix density
Base Density Porosity
PE
Compensated Density
Density Correction
Limestone Neutron Por.
Borehole Temperature
Upper Gas Detector


Lower Gas Detecto
123"
5500
124"
5550
124"
5600
124"
5650
124"
5700
124"
5750
124"
5800
Bit Size
124"
Density Caliper
Differential Temperature
5850
Gamma Ray
Uphole Tension
Lower Gas Detecto
123"
Matrix Density
Density Porosity
PE
Compensated Density
Density Correction
Limestone Neutron Por
Borehole Temperature
Upper Gas Detecto
FR

5900

123°

6938

Depth in Feet

Timing Marks every 60.0 sec

Gamma Ray
API
0 100 200
200 300 400

Differential Temperature
degrees F/sample
-0.03 0 0.03

Density Caliper
inches
5 10 15

Bit Size
inches
5 10 15

DST Uphole Tension
pounds
0 3000
3000 6000

Borehole Temp in deg F

HVI every 10 cu ft

Annular Integral every 10 cu ft

PERF

Replay Scale 1:240

Lower Gas Detector
0 250 500 750 1000
0 2500 5000 7500 10000

Upper Gas Detector
1000 750 500 250 0
10000 7500 5000 2500 0

Borehole Temperature
degrees F
60 61.25 62.50 63.75 65

Limestone Neutron Por.
percent
30 20 10 0 -10

Compensated Density
grams/cc
2 2.25 2.50 2.75 3

PE
barns/electron
0 2.50 5 7.50 10

Base Density Porosity
percent
30 20 10 0 -10

Matrix density
grams/cc
2 2.25 2.50 2.75 3

Density Correction
grams/cc
-0.05 0.20 0.45

Depth Based Data - Maximum Sampling Increment 10.0cm
Filename C:\Minimus\Petel\11 02 04 TRI Looney 200410\Up_002.dta
System Configuration Dates: Logged 09-SEP-2003: Processed 09-SEP-2003 Plotted 25-JUN-2003

Plotted on 02-NOV-2004 10:31
Recorded on 02-NOV-2004 07:54

MAIN LOG

REPEAT SECTION

Depth Based Data - Maximum Sampling Increment 10.0cm
Filename. C:\Minimus\Petel\11 02 04 TRI Looney 200410\Up.dta
System Configuration Dates: Logged 09-SEP-2003: Plotted 25-JUN-2003:

Plotted on 02-NOV-2004 10:31
Recorded on 02-NOV-2004 07:42

Depth in Feet

Timing Marks every 60.0 sec

Gamma Ray
API
0 100 200
200 300 400

Differential Temperature
degrees F/sample
-0.03 0 0.03

Density Caliper
inches
5 10 15

Bit Size
inches
5 10 15

Borehole Temp in deg F

HVI every 10 cu ft

Annular Integral every 10 cu ft

PERF

Replay

Lower Gas Detector
0 250 500 750 1000
0 2500 5000 7500 10000

Upper Gas Detector
1000 750 500 250 0
10000 7500 5000 2500 0

Borehole Temperature
degrees F
60 61.25 62.50 63.75 65

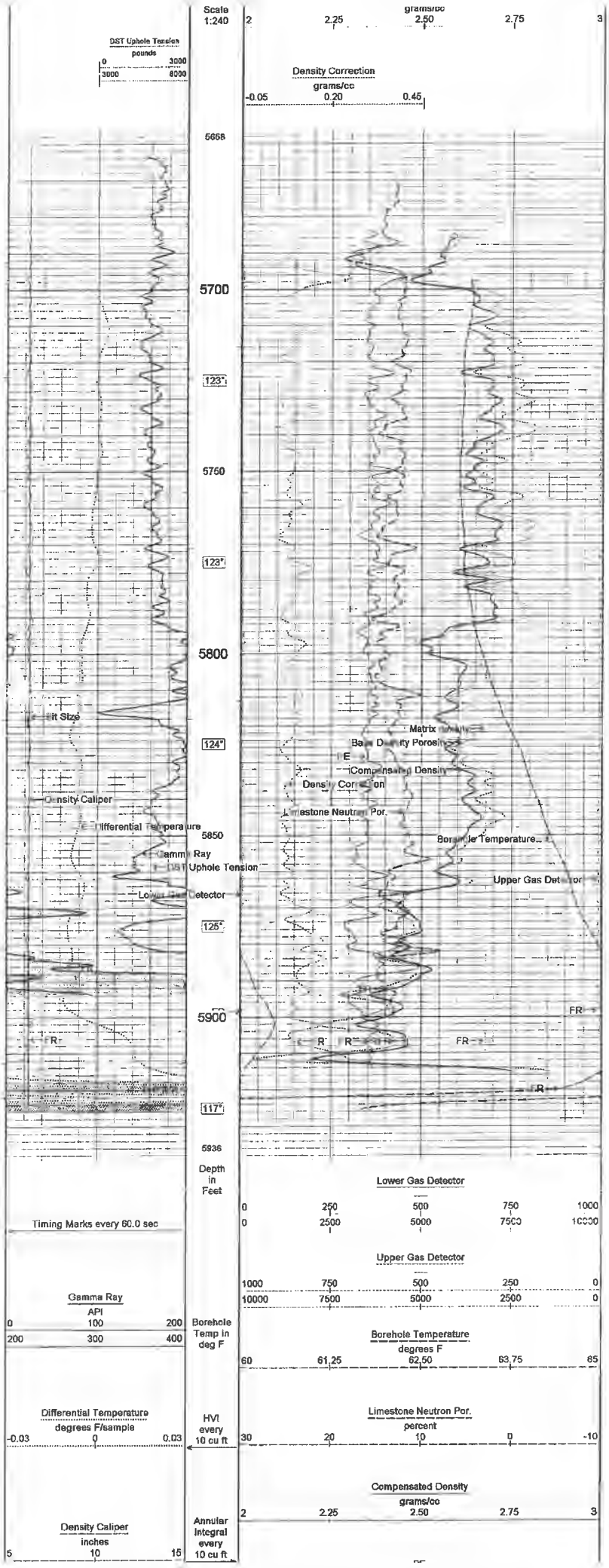
Limestone Neutron Por.
percent
30 20 10 0 -10

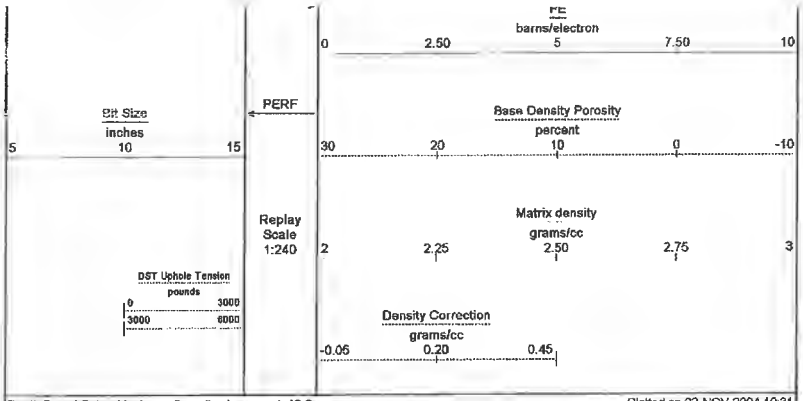
Compensated Density
grams/cc
2 2.25 2.50 2.75 3

PE
barns/electron
0 2.50 7.[illegible] 10

Base Density Porosity
percent
30 20 10 0 -10

Matrix density


Scale 1:240
DST Uphole Tension
pounds
0 3000
3000 6000
Density Correction
grams/cc
-0.05 0.20 0.45
grams/cc
2 2.25 2.50 2.75 3
5668
5700
123"
5750
123"
5800
124"
5850
125"
5900
117"
5936
Bit Size
Density Caliper
Differential Temperature
Gamma Ray
DST Uphole Tension
Lower Gas Detector
Matrix Density
Base Density Porosity
Compensated Density
Density Correction
Limestone Neutron Por.
Borehole Temperature
Upper Gas Detector
FR
Depth in Feet
Lower Gas Detector
0 250 500 750 1000
0 2500 5000 7500 10000
Timing Marks every 60.0 sec
Upper Gas Detector
1000 750 500 250 0
10000 7500 5000 2500 0
Gamma Ray
API
0 100 200
200 300 400
Borehole Temp in deg F
Borehole Temperature
degrees F
60 61.25 62.50 63.75 65
Differential Temperature
degrees F/sample
-0.03 0 0.03
HVI every 10 cu ft
Limestone Neutron Por.
percent
30 20 10 0 -10
Compensated Density
grams/cc
2 2.25 2.50 2.75 3
Density Caliper
inches
5 10 15
Annular Integral every 10 cu ft



Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 02-NOV-2004 10:31
Filename: C:\Minimus\Pete\11 02 04 TRI Looney 200410\Up.dta — Recorded on 02-NOV-2004 07:42
System Configuration Dates: Logged 09-SEP-2003; Plotted 25-JUN-2003;

REPEAT SECTION

BEFORE SURVEY CALIBRATION

C:\Minimus\Pete\11 02 04 TRI Looney 200410\Up_002.dta

General Constants All 000

General Parameters

Mud Resistivity	1000.000	ohm-metres
Mud Resistivity Temperature	68.000	degrees F
Water Level	10000.000	feet
Density/Neutron Processing	Water Level Switch	

Hole/Annular Volume and Differential Caliper Parameters

HVOL Caliper 1	Density Caliper	
HVOL Caliper 2	Density Caliper	
Annular Volume Diameter	4.500	inches
Caliper for Differential Caliper	Density Caliper	

Rws Parameters

Porosity used	Base Density Porosity	
Resistivity used	Deep Induction	
RWA Constant A	0.610	
RWA Constant M	2.150	

Gamma Calibration MCG 117

Field Calibration on 22-OCT-2004 10:32

	Measured	Calibrated (API)
Background	48	27
Calibrator (Gross)	1796	1013
Calibrator (Net)	1749	986

Gamma Constants MCG 117

Gamma Calibrator Number	48	
Mud Density	1.00	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

SP Calibration MCG 117

Field Calibration on 9-OCT-2004,11:44

	Measured	Calibrated (mV)
Reference 1	1.0	1.0
Reference 2	0.0	0.0

High Resolution Temperature Calibration MCG 117

Field Calibration on 12-AUG-2004,09:01

	Measured	Calibrated(Deg F)
Lower	0.00	0.00
Upper	0.00	0.00

High Resolution Temperature Constants MCG 117

Pre-filter Length	11

Neutron Calibration MDN 100

Base Calibration on 19-OCT-2004,11:42
Field Check on

Base Calibration

	Measured Near	Measured Far	Calibrated (cps) Near	Calibrated (cps) Far
	3210	101	3714	110
Ratio	31.915		33.764	

Field Calibrator at Base

	Calibrated (cps)	
	1009	1506
Ratio	0.670	

Field Check

	Calibrated (cps)	
	0	0
Ratio	0.000	

Neutron Constants MDN 100

Neutron Source Id	000	
Neutron Jig Number	000	
Epithermal Neutron	No	
Caliper Source for Processing	Density Caliper	
Stand-off	0.00	inches
Mud Density	1.00	gm/cc
Limestone Sigma	7.10	cu
Sandstone Sigma	4.26	cu
Dolomite Sigma	4.70	cu
Formation Pressure Source	Constant Value	
Formation Pressure	0.00	kpsi
Temperature Source	Constant Value	
Temperature	68.00	degrees F
Mud Salinity	0.00	kppm
Formation Fluid Salinity Source	Constant Value	
Formation Fluid Salinity	0.00	kppm
Barite Mud Correction	Not Applied	

Photo Density Calibration MPD 098

Base Calibration on 22-OCT-2004 11:07
Field Check on

Density Calibration

Base Calibration

	Measured Near	Measured Far	Calibrated (sdu) Near	Calibrated (sdu) Far
Reference 1	57557	19865	53248	19390
Reference 2	26639	2644	25045	2537

Field Check at Base

	1004.7	1204.0

Field Check

	0.0	0.0

PE Calibration

Base Calibration

	Measured WS	Measured WH	Ratio	Calibrated Ratio

Background	188	868		
Reference 1	18507	57350	0.324	0.320
Reference 2	7212	26490	0.274	0.274

Field Check at Base

188.2	867.6

Field Check

0.0	0.0

Density Constants MPD 098

Density Source Id	259	
Nylon Calibrator Number	DNC-D-534	
Aluminium/Fe Calibrator Number	DAC-D-534	
Density Shoe Profile	8 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.00	gm/cc
Mud Density Z/A Correction	1.11	
Mud Filtrate Density	1.00	gm/cc
Dry Hole Mud Filtrate Density	1.00	gm/cc
DNCT	-0.01	gm/cc
CRCT	0.00	gm/cc

Matrix Density (gm/cc)	Depth (ft)
2.71	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	

Caliper Calibration MPD 098

Base Calibration on 22-OCT-2004,10:47
Field Calibration on

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	14334	3.99
2	24331	5.96
3	34448	7.99
4	44016	9.86
5	55200	11.93
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
0.00	0.00

Induction Calibration MAI 100

Base Calibration on 9-JUN-2004,15:27
Field Check on

Base Calibration

Test Loop Calibration	Measured		Calibrated (mmho/m)	
Channel	Low	High	Low	High
1	16.5	479.1	9.3	968.2
2	5.2	377.4	7.6	821.4
3	3.0	262.9	5.2	566.0
4	1.4	133.5	2.6	279.2

Array Temperature 68.0 Deg F

Channel	Base Check (mmho/m)	Field Check (mmho/m)
1	12.6	0.0
2	32.2	0.0
3	29.1	0.0
4	20.6	0.0
Deep	16.9	0.0
Medium	42.9	0.0
Shallow	49.5	0.0
Array Temperature	68.0	0.0 Deg F

Induction Constants MAI 100

Induction Model	VECTAR	
Caliper Source for Borehole Correction	BIT	
Hole Size for Borehole Correction	N/A	inches
Stand-off	0.50	inches
Number of Fins on Stand-off	6.0000	
Stand-off Fin Width	0.5000	inches
Rm Source for Borehole Correction	Constant Value	
Squasher Start	0.0020	mhos/metre

Borehole Normalisation

DRM1	0.0000	DRC1	0.0000
DRM2	0.0000	DRC2	0.0000
MRM1	0.0000	MRC1	0.0000
MRM2	0.0000	MRC2	0.0000
SRM1	0.0000	SRC1	0.0000
SRM2	0.0000	SRC2	0.0000

Calibration Site Corrections

Channel 1	0.00	mmhos/metre
Channel 2	0.00	mmhos/metre
Channel 3	0.00	mmhos/metre
Channel 4	0.00	mmhos/metre

Apparent Porosity and Water Saturation Constants

Archie Constant (A)	1.00	
Cementation Exponent (M)	2.00	
Saturation Exponent (N)	2.00	
Saturation of Water for Apor	100.00	percent
Resistivity of Water for Apor and Sw	0.05	ohm-m
Resistivity of Mud Filtrate for Sw	0.00	ohm-m

High Resolution Temperature Calibration MAI 100

Field Calibration on 9-APR-2004,10:38

	Measured	Calibrated(Deg F)
Lower	1.00	1.00
Upper	100.00	101.00

High Resolution Temperature Constants MAI 100

Pre-filter Length 11

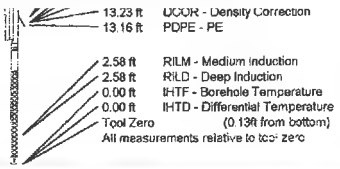
DOWNHOLE EQUIPMENT

C:\Minimus\Pete\11 02 04 TRI Looney 200410\Up_002.dta

Compact Gamma MCG 117 Length: 8.70 ft	Weight: 63.9 lb	33.72 ft	GRGC - Gamma Ray
Compact Neutron MDN 100 Length: 5.04 ft	Weight: 50.7 lb	27.60 ft	NPRL - Limestone Neutron Por
Compact Gas detector MGD 15 Length: 4.87 ft	Weight: 35.3 lb	21.59 ft	GDLO - Lower Gas Detector
Compact Density/Caliper MPD 98 Length: 9.59 ft	Weight: 90.4 lb	13.92 ft	AVOL - Annular Volume
		13.92 ft	HVOL - Hole Volume
		13.92 ft	CLDC - Density Caliper
		13.23 ft	MTXD - Matrix density
		13.23 ft	DPOR - Base Density Porosity
		13.23 ft	DEN - Compensated Density

Compact Induction
MAI 100 Length: 10.81 ft Weight: 48.5 lb

Total Length: 39.01 ft Weight: 288.8 lb



COMPANY	Triad Resources Inc.
WELL	Wm. M. Looney #200410
FIELD	Tariff 7.5' Quadrangle
PROVINCE/COUNTY	Smithfield / Roane
COUNTRY/STATE	Usa / West Virginia

Elevation Kelly Bushing	1094.00	feet	First Reading	5920.00	feet
Elevation Drill Floor	1063.00	feet	Depth Driller	5920.00	feet
Elevation Ground Level	1084.00	feet	Depth Logger	5922.00	feet

ALLEGHENY WIRELINE SERVICES, INC.

PHOTO DENSITY
COMPENSATED NEUTRON
ULTRASONIC GAS DETECTOR

WVGES GEOLOGY UNDERLIES IT ALL
"Pipeline"

Select County: (087) Roane
Enter Permit #: 4623
Get Data | Reset

Select datatypes: (Check All)
☑ Location ☑ Production ☑ Plugging
☑ Owner/Completion ☑ Stratigraphy ☑ Sample
☑ Pay/Show/Water ☑ Logs ☑ Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 087 Permit = 4623

Report Time: Tuesday, May 19, 2020 8:42:45 PM

Location Information: (View Map)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708704623	Roane	4623	Smithfield	Tariff	Otter	38.665165	-81.195546	482987.8	4279638.8

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708704623	6/12/2008	Original Loc	Completed	Joyce Bailey & Billy Ray Elmore		M J Snodgrass 813			M J Snodgrass Heirs et al	Triad Resources Inc.	2500	Squaw	

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	BH
4708704623	6/12/2008	6/4/2008	1092	Ground Level	Tariff (Tmn)	Price Fm & equivs	Big Injun (Price&eq)	Development Well	Development Well	Oil and Gas	Rotary	Acid+Frac	2326		2326				35	15							

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708704623	6/12/2008	Water	Salt Water	Vertical			1672						
4708704623	6/12/2008	Pay	Oil & Gas	Vertical	2122	Big Injun (Price&eq)	2132	Big Injun (Price&eq)					

Production Gas Information: (Volumes in Mcf) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708704623	Triad Resources, Inc.	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704623	Triad Hunter LLC	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704623	Triad Hunter LLC	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704623	Triad Hunter LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704623	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704623	Triad Hunter LLC	2014	12	0	0	0	0	1	2	1	1	1	3	1	2
4708704623	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704623	Triad Hunter LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704623	Ground Resources, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704623	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708704623	Triad Resources, Inc.	2009	2	0	0	0	0	0	0	0	0	0	0	0	2
4708704623	Triad Hunter LLC	2010	2	0	0	0	0	0	0	0	0	0	0	0	2
4708704623	Triad Hunter LLC	2011	2	0	0	0	0	0	0	0	0	0	0	0	2
4708704623	Triad Hunter LLC	2012	1	0	0	0	0	0	0	0	0	0	0	0	1
4708704623	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704623	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704623	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704623	Triad Hunter LLC	2016	0												
4708704623	Ground Resources, LLC	2017	0												
4708704623	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708704623	Triad Hunter LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704623	Triad Hunter LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704623	Triad Hunter LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708704623	Triad Hunter LLC	2016	0												
4708704623	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2019 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708704623	Triad Hunter LLC	2016	0												
4708704623	Ground Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708704623	Original Loc	unidentified coal	Well Record	821	Reasonable	3	Reasonable	1092	Ground Level
4708704623	Original Loc	unidentified coal	Well Record	1178	Reasonable	4	Reasonable	1092	Ground Level
4708704623	Original Loc	unidentified coal	Well Record	1410	Reasonable	4	Reasonable	1092	Ground Level
4708704623	Original Loc	unidentified coal	Well Record	1500	Reasonable	6	Reasonable	1092	Ground Level
4708704623	Original Loc	Maxton	Well Record	1723	Reasonable	24	Reasonable	1092	Ground Level
4708704623	Original Loc	Little Lime	Well Record	1882	Reasonable	35	Reasonable	1092	Ground Level
4708704623	Original Loc	Pencil Cave	Well Record	1951	Reasonable	16	Reasonable	1092	Ground Level
4708704623	Original Loc	Greenbrier Group	Well Record	2003	Reasonable	118	Reasonable	1092	Ground Level
4708704623	Original Loc	Big Lime	Well Record	2003	Reasonable	118	Reasonable	1092	Ground Level
4708704623	Original Loc	Big Injun (Price&eq)	Well Record	2121	Reasonable	19	Reasonable	1092	Ground Level

Wireline (E-Log) Information:

4623

4623

PERFORATION INTERVALS AND FRACTURE TREATMENT:

FIRST STAGE: ***Big Injun (cased hole log depths do not match open hole log depths)***

2122' - 2132' 40 holes 0.39" HSC

FLUID TYPE:	**Fresh water**		**73,043**	**GALS**
ACID TYPE:	**15% HCl**	**1,000**	**GALS**	
NITROGEN:		**SCF**		
SAND:	**30,000**	**LBS**		
BREAKDOWN PRESS:	**1,850**	**PSIG**		
AVG. TREATING PRESS:	**1,800**	**PSIG**		
AVG. RATE:	**30**	**BPM**		
ISIP:	**1,450**	**PSIG**		
5-MIN SIP:	**950**	**PSIG**		

SECOND STAGE:

FLUID TYPE:	**Fresh water**			**GALS**
ACID TYPE:			**GALS**	
NITROGEN:		**SCF**		
SAND:		**LBS**		
BREAKDOWN PRESS:		**PSIG**		
AVG. TREATING PRESS:		**PSIG**		
AVG. RATE:		**BPM**		
ISIP:		**PSIG**		
5-MIN SIP:		**PSIG**		

THIRD STAGE:

FLUID TYPE:				**GALS**
ACID TYPE:			**GALS**	
NITROGEN:		**SCF**		
SAND:		**LBS**		
BREAKDOWN PRESS:		**PSIG**		
AVG. TREATING PRESS:		**PSIG**		
AVG. RATE:		**BPM**		
ISIP:		**PSIG**		
5-MIN SIP:		**PSIG**		

FORMATIONS:

	TOP	BOTTOM
Sand and Shale	0'	141'
Sand	141'	160'
Shale and Silt	160'	257'
Sand	257'	288'
Shale	288'	767'
Sand	767'	909'
Shale	909'	921'
Coal	921'	924'
Shale	924'	944'
Sand	944'	1178'
Coal	1178'	1182'
Sand	1182'	1272'
Shale	1272'	1287'
Sand And Siltstone	1287'	1410'
Coal	1410'	1414'
Shale and Sand	1414'	1530'
Coal	1530'	1536'
Shale	1536'	1601'
Sand	1601'	1789'
Shale	1789'	1816'
Sand	1816'	1891'
Shale	1891'	1922'
Maxton	1922'	1946'
Little Lime	1952'	1987'
Pencil Cave	1987'	2003'
Big Lime	2003'	2121'
Big Injun	2121'	2140'
Shale	2140'	T.D.