UIC Permit Application Ascent Resources – Marcellus 2R09500004AP Stringtown Field

Volume 2 of 7

Appendix A Injector Well List Stringtown Field

	API#	Name / No.	Easting	Northing	Well Type	Well Status	Penetrate Injection Zone	Penetrate Confining Zone	Surface Elevation	Total Vertical Depth	Perf Depth
1	4701704299	C. Wright 5	525840.0	4364197.2	Injector	Shutin	Υ	Y	1006	2960	2856
2	4701705243	O.W.O. Hardman 1	526146.7	4363924.4	Injector	Shutin	Υ	Y	1330	3380	3173
3	4701705273	C. Wright 7	525633.0	4364264.0	Injector	Shutin	Υ	Y	1026	3120	2884
4	4709501124	Thomson Heirs 8	525861.5	4367402.6	Injector	Shutin	Υ	Y	908	2880	2788
5	4709501410	J. Lemasters 18	526572.0	4368201.0	Injector	Shutin	Υ	Y	913	3015	2812
6	4709501411	M.H. Pennick 9	526375.4	4367662.1	Injector	Active	Υ	Y	854	3010	2920
7	4709501412	F.M. Lemasters 10	525652.2	4366884.5	Injector	Shutin	Υ	Y	996	3000	2906
8	4709501416	F.R. Ball 20	527035.9	4367422.7	Injector	Shutin	Υ	Y	1235	3206 2856	3144 2776
9	4709501417	J.B. Gorrell 4	527053.8	4366907.4	Injector	Shutin	Y	Y	877 1232	3285	3210
10	4709501418	J.B. Gorrell 5	526537.9	4367211.6	Injector	Shutin	Y	Y	852	3015	2966
11	4709501420	M.H. Pennick 8	526375.4	4367662.1	Injector	Active	Y	Y	1186	3220	3068
12	4709501501	J. Lemasters 20	526501.2	4368533.6	Injector	Shutin	Y	Y	1150	3190	3046
13	4709501506	L.J. Lemasters K-12	527368.4	4368939.3	Injector	Shutin	Y	Y	911	2985	2914
14	4709501509	S.P. Lemasters J-10	527258.3	4368246.3	Injector	Shutin	Y	Y	1114	3142	3028
15	4709501510	S.P. Lemasters M-10	527997.2	4368539.0	Injector	Shutin Shutin	Y	Y	1033	3050	2948
16	4709501511	L.J. Lemasters M-12	528033.0	4369042.0 4369535.0	Injector Injector	Shutin	Y	Y	1030	3136	3024
17	4709501512 4709501515	C.C. Pennick M-14 C. McCov L-8	527903.0 527694.1	4367829.1	Injector	Shutin	Y	Y	1000	3005	2906
18	4709501515	Nancy Allen M-9	528068.1	4367983.4	Injector	Shutin	Y	Y	1355	3326	3260
19 20	4709501524	W.J. Wharton D-7	525507.1	4367530.3	Injector	Shutin	Y	Y	1013	3021	2896
21	4709501530	F.M. Lemasters D-6	525345.2	4367037.8	Injector	Shutin	Y	Y	1105	3090	2982
22	4709501531	J.H. Dawson F-14	526144.4	4369386.1	Injector	Shutin	Y	Y	1381	3375	3248
23	4709501532	J.T. Eddy N-10B	528299.8	4368778.5	Injector	Shutin	Y	Y	1427	3788	3668
24	4709501535	A.D. Lemasters H-12	526515.7	4369000.8	Injector	Shutin	Y	Y	1379	3390	3260
25	4709501539	J.H. Dawson F-12	526097.7	4368934.9	Injector	Shutin	Υ	Y	961	2966	2849
26	4709501541	R.M. Stackpole F-9	526260.3	4368420.0	Injector	Active	Y	Y	1256	3420	3288
27	4709501542	Q. Huffman F-11	526244.4	4368355.6	Injector	Active	Y	Υ	1255	3407	3324
28	4709501543	J.N. Glover E-8	525715.0	4367902.8	Injector	Shutin	Υ	Υ	1001	3021	2879
29	4709501554	J. Lemasters 15	526121.6	4367653.2	Injector	Shutin	Y	Y	1011	3052	2906
30	4709501565	R.L. Ball L-7	527969.1	4367426.0	Injector	Shutin	Υ	Υ	1243	3237	3135
31	4709501604	F.R. Ball K-5	527408.1	4366812.0	Injector	Shutin	Y	Υ	830	3007	2904
32	4709501621	M.A. Eddy O-7	528612.1	4367589.6	Injector	Shutin	Υ	Y	1148	3148	3034
33	4709501626	WM. Fluharty D-14	525388.3	4369415.8	Injector	Shutin	Υ	Y	1375	3383	3230
34	4709501627	E. Longstreth E-12	525548.0	4368928.0	Injector	Shutin	Υ	Y	1004	3025	2870
35	4709501628	A. Glover C-9	525183.4	4368126.5	Injector	Shutin	Υ	Υ	885	2882	2750
36	4709501641	F.R. Ball M-6	527986.6	4367023.4	Injector	Shutin	Y	Υ	846	2846	2718
37	4709501646	Martha Elder 11	526544.4	4365311.0	Injector	Active	Y	Y	893	2925	2774
38	4709501648	U Stackpole E-11	525632.2	4368627.3	Injector	Shutin	Y	Y	1097	3143	2979 3170
39	4709501655	Martha Elder 12	526111.6	4364794.1	Injector	Shutin	Y	Y	1297 1304	3328 3360	3176
40	4709501657	Issac Baker 5	525741.6	4364728.4	Injector	Shutin	Y	Y	1030	3020	2898
41	4709501659	Baker Heirs 11	525739.9	4365243.8	Injector	Active Shutin	Y	Y	1168	3172	3028
42	4709501662	B.A. Swiger 7	525288.0	4365628.9 4366049.0	Injector	Shutin	Y	Y	800	2841	2680
43	4709501663	Silas Wyatte E-2B	525689.0 526446.0	4365826.1	Injector Injector	Shutin	Y	Y	1007	3020	2890
44	4709501666 4709501667	J.L. McIntyre 12	526045.6	4365261.0	Injector	Shutin	Y	Y	1320	3336	3200
45 46	4709501687	Martha Elder 13-R L.J. Lemasters 3-A	527674.1	4368924.3	Injector	Shutin	Y	Y	1017	2990	2929
46	4709501687	A.D. Lemasters 13-A	527627.5	4368473.1	Injector	Shutin	γ	Y	1054	3050	2963
48	4709501688	Baker Heirs 12	526062.3	4365083.8	Injector	Shutin	Y	Υ	1274	3299	3144
49	4709501749	Martha Elder 15	526544.4	4365311.0	Injector	Active	Y	Y	893	3097	2976
50	4709501763	Martha Elder 16	526559.2	4365681.5	Injector	Shutin	Υ	Υ	1159	3239	3084
51	4709501766	Peter Horner 13	526573.4	4366229.2	Injector	Active	Υ	Υ	812	2885	2785
52	4709501770	Tennant Heirs 3	526076.3	4365712.1	Injector	Shutin	Υ	Y	1247	3234	3131
53	4709501777	Isaac Baker 6	525740.7	4365018.3	Injector	Shutin	Y	Y	933	2970	2802
54	4709501794	H.J. Ingram 5	526830.4	4366375.0	Injector	Shutin	Υ	Y	925	2940	2794
55	4709501795	E.T. Parks 7	526831.3	4366117.3	Injector	Shutin	Υ	Υ	1006	3030	2888
56	4709501836	J.Q. McIntyre 11	526866.2	4365312.1	Injector	Shutin	Y	Υ	919	2990	2797
57	4709501837	M.V. Baker 22	526916.4	4364780.7	Injector	Shutin	Υ	Υ	1045	3110	2897
58	4709501838	M.V. Baker 23	526963.7	4365038.6	Injector	Shutin	Y	Y	913	3020	2785
59	4709501839	J.Q. McIntyre 10	526817.1	4365553.5	Injector	Shutin	Y	Y	1033	3080	2898
60	4709501851	B.A. Swiger 9	525429.0	4365889.0	Injector	Shutin	Y	Y	799	2810	2656
61	4709501889	F.R. Ball 23	527137.6	4367283.5	Injector	Shutin	Y	Y	1231	3300	3122
62	4709501890	Isaac Baker 10	525331.7	4364921.3	Injector	Shutin	Y	Y	1207	3200	3053
	4709501892	L.J. Lemasters 8	528004.5	4368752.9	Injector	Shutin	Y	Y	1347	3470	3243 2959
63											
63 64 65	4709501896 4709501899	J. Haught 7 J.B. Gorrell 6	525143.0 526893.8	4365179.0 4367093.0	Injector Injector	Shutin Shutin	Y	Y	1124 890	3200 3050	2780

	API#	Name / No.	Easting	Northing	Well Type	Well Status	Penetrate Injection Zone	Penetrate Confining Zone	Surface Elevation	Total Vertical Depth	Perf Depth
67	4709501909	F.M. Lemasters 12	525461.2	4366635.8	Injector	Shutin	Y	Y	1029	3120	2686
68	4709501910	W.J. Wharton 6	525415.5	4367298.7	Injector	Shutin	Y	Y	1024	3090	2881
69	4709501913	C.C. Penick 56	528019.7	4369293.9	Injector	Shutin	Y	Υ	1145	3300	3054
70	4709501916	A.D. Lemasters 26	527532.0	4368897.7	Injector	Shutin	Υ	Υ	955	3224	3040
71	4710300906	Rachel Wright 3	526430.0	4374091.8	Injector	Active	Υ	Υ	854	2697	2682
72	4710300947	J.A. Booth 5	526597.0	4372336.6	Injector	Shutin	Υ	Υ	1217	3099	3082
73	4710301315	Irene Reilly 13	526163.0	4371477.0	Injector	Shutin	Υ	Υ	1005	2990	2888
74	4710301514	C.T. Hall K-14B	527526.7	4369664.7	Injector	Active	Υ	Υ	1405	3600	3466
75	4710301516	C.C. Penick L-15	527493.5	4369970.6	Injector	Active	Υ	Y	1386	3520	3388
76	4710301542	N. Noland L-17	528231.8	4370424.4	Injector	Shutin	Υ	Υ	925	3017	2920
77	4710301543	C.C. Penick M-15	528104.8	4369940.7	Injector	Shutin	Υ	Y	1249	3264	3143
78	4710301544	H. Noland M-17	528096.0	4370425.0	Injector	Shutin	Υ	Y	1000	3050	2893
79	4710301545	J.T. Reilly J-17	527363.1	4370437.3	Injector	Shutin	Υ	Υ	927	2962	2821
80	4710301625	E.B. Lemasters P-12	528861.0	4369073.7	Injector	Shutin	Y	Y	1040	3059	2946
81	4710301626	M. Lemasters P-14	529019.3	4369744.9	Injector	Shutin	Y	Υ	1038	3089	2956
82	4710301627	T.W. Reilly N-17	528552.8	4370602.8	Injector	Shutin	Y	Υ	991	3070	2906
83	4710301628	T.W. Reilly P-17B	528935.6	4370652.5	Injector	Shutin	Υ	Y	1030	3055	2954
84	4710301632	G.V. Reilly N-19	528313.0	4371259.0	Injector	Shutin	Υ	Υ	1445	3492	3334
85	4710301633	M.J. Reilly O-19	528331.0	4371215.0	Injector	Shutin	Y	Υ	1438	3656	3510
86	4710301634	C.C. Penick O-15	528873.5	4370056.3	Injector	Shutin	Υ	Υ	1458	3479	3374
87	4710301635	H.M. Jamison Q-17	529385.2	4370831.4	Injector	Shutin	Υ	Υ	1477	3804	3666
88	4710301641	I. Wiley G-22	525894.6	4371946.3	Injector	Active	Y	Υ	851	2849	2708
89	4710301642	S.H. Wiley G-23	525888.1	4372382.5	Injector	Shutin	Υ	Y	831	2798	2694
90	4710301643	Irene Reilly G-20	525944.6	4371398.9	Injector	Shutin	Y	Υ	855	2923	2740
91	4710301645	Irene Reilly I-20	526555.3	4371529.8	Injector	Shutin	Y	Υ	1476	3427	3342
92	4710301657	WM. Fluharty E-14	525484.8	4369432.2	Injector	Shutin	Υ	Y	1416	3415	3290
93	4710301659	A. Wiley F-25	525999.1	4372914.5	Injector	Shutin	Y	Y	814	2807	2656
94	4710301660	J. Wiley G-25	526321.3	4372883.3	Injector	Active	Y	Y	1041	3038	2896
95	4710301671	WM. Fluharty E-15	525756.9	4369819.7	Injector	Shutin	Y	Y	1022	3007	2892
96	4710301672	WM. Fluharty E-16	525723.2	4370286.7	Injector	Shutin	Y	Y	963	2942	2820
97	4710301673	J.K. Fluharty E-18	525757.0	4370784.0	Injector	Shutin	Y	Y	1268	3262	3124
98	4710301675	H. Fluharty G-17	526398.3	4370385.6	Injector	Shutin	Y	Y	1243	3255	3118
99	4710301677	Irene Reilly H-19	526685.6	4371030.9	Injector	Shutin	Y	Y	1382	3385	3258
100	4710301678	S.H. Wiley G-24	526322.9	4372432.3	Injector	Shutin	Y	Y	1249	3235	3097
101	4710301679	J. Wiley H-25	526707.9	4372916.9	Injector	Shutin	Ÿ	Ÿ	1299	3279	3160
102	4710301692	D. Cunningham F-18B	526075.0	4370883.9	Injector	Shutin	Y	Y	915	2911	2781
103	4710301693	L.J. Fluharty F-29	526027.1	4374203.2	Injector	Shutin	Y	Ÿ	964	2925	2790
104	4710301694	McCoy Heirs H-27	525256.2	4373524.1	Injector	Shutin	Y	Y	1045	3027	2890
105	4710301695	E. Miller F-27	525916.7	4373510.2	Injector	Shutin	Y	Y	1050	3052	2878
106	4710301696	McCoy Heirs G-27	526303.4	4373447.0	Injector	Shutin	Ÿ	Ÿ	1057	3052	2900
107		A. Wiley E-26	525821.2	4373123.3	Injector	Shutin	Y	Y	843	2846	2690
108		S.H. Wiley E-24R	525323.1	4372751.1	Injector	Shutin	Y	Y	852	3433	
109		F.L. Hoge H-15	526488.0	4369840.0	Injector	Shutin	Y	Y	1419	3433	3284
110		Israel Miller 7	525809.0	4373961.0	Injector	Shutin	Y	Y	1150	3260	3304
111		McCov Heirs 14	526303.5	4373232.3	Injector	Active	Y	Y	1051		2975
112		McCoy Heirs 15	526685.0	4373230.0	Injector	Shutin	Y	Y	1062	3170 3170	2896 2903



Get Data Recet	Select County: (017) Doddridge	~	Select datatypes: (Check All)	
Cet Data Peset	Enter Permit #: 4299		Location	Production	Plugging
Get Data Reset	Cet Deta Beest		Owner/Completion	Stratigraphy	✓ Sample
Pay/Show/Water Logs Btm Hole Loc	Get Data Reset		✓ Pay/Show/Water	Logs	✓ Btm Hole Loc

County Code Translation
Permit-Numbering Serie Usage Notes
Contact Information Disclaimer WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 017 Permit = 4299 Link to all digital records for well

Report Time: Wednesday, November 29, 2023 11:45:39 AM

 Location Information:
 View Map

 API
 COUNTY
 PERMIT TAX_DISTRICT
 QUAD_75
 QUAD_15
 LAT_DD
 LON_DD
 UTMR
 UTMN

 4701704299
 Doddridge
 4299
 McClellan
 Center Point
 Centerpoint
 39.426948
 -80.699772
 525840.3
 4364200.2

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 4701704299 1/15/1997 Original Loc Completed C Wright/Coastal Lmbr 5 Pennzoil Pennzoil Products Company

Completion Information:

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
 DEEPEST_FM
 DEEPEST_F DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AF Unsuccessful Water Injection Rotary Acid+Frac Service Well 2960 2960

There is no Production Gas data for this well

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

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
4701704299	Original Loc	Big Lime	Well Record	2040	Reasonable	96	Reasonable	1006	Ground Level
4701704299	Original Loc	Big Injun (undiff)	Well Record	2136	Reasonable	132	Reasonable	1006	Ground Level
4701704299	Original Loc	Gordon Stray	Well Record	2840	Reasonable	10	Reasonable	1006	Ground Level
4701704299	Original Loc	Gordon	Well Record	2850	Reasonable	18	Reasonable	1006	Ground Level

- Wireline (E-Log) Information:
 * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

API#

9-Sep-96 47 -017- 4299

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

Well Angrator's Report of Well Work

		Division of E	e of West V Environme on of Oil a	ntal Protec	ction		Office of Oi: and G	<u>; </u>
		Well Operate	or's Repor	t of Well V	Vork	/	MAR 19 1998	ias
Farm name:	Coastal Lum	ber Company	Ope	rator Well	No.: C. Wi	right #5 $\int_{\mathcal{E}}$	IV Division of	
LOCATION:	Elevation:	1,006.00	Qua	drangle:	Center Poir	nt	IV Division of Protection	
	District: Latitude: Longitude:	McClellan 11,400 Feet sout 9,400 Feet wes	th of 39	•	dridge Min 30 Min 0			J
Company:	P.O. BOX 5	PRODUCTS COMPA 519 VV 26105-5519	MY	Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.	
Agent:	PHILIP S. C	NDRUSEK		Size				
Inspector: Permit Issued: Well work Con Well work Con		9/9/96 12/6/96 1/15/97		8-5/8"	276'	276'	160 Sacks	
Verbal plugging	g	1/13/9/		0-3/8	270	270	100 Sacks	
permission grar Rotary X Total Depth (fe	Cable	Rig 2960'		4 1/2"	2913'	2913'	275 Sacks	
Fresh water dep	oths (it)	NA						
Salt water dept	hs (ft)	NA						
Is coal being m Coal Depths (ft	•	/N) N						
OPEN FLOW I	DATA	*Well was drilled as	s a waterflo	od injection	n well. No o	pen-flow data w	as obtained	
Gas:	cing formation Initial open f Final open fl Time of op rock pressure	low *	MCF/d al and fina	Fina	Pay zone do al open flow l open flow ssure)		2,850 * Bbl/d * Bbl/d Hours	
Gas:	d producing fo Initial open f Final open fl Time of op rock pressure	low	MCF/d al and fina	Fina	Pay zone de al open flow lopen flow ssure)		Bbl/d Bbl/d Hours	
OR STIMULATII	NG, PHYSICAL	M, PUT THE FOLLOWING CHANGE. ETC. 2) THE Y	G: 1) DETAI	ILS OF PERI WHICH IS A ENCOUNTI	FORATED IN SYSTEMAT	IC DETAILED	TURING	D000

By: Date: D000

4299

Treatment:

Perforated Gordon sand with 16 holes from 2856'-2860' K.B. Fractured with 300 gals 15% HCL and 193 bb!s gelled water and 10,100 lbs. 20/40 sand

Well Log:

All depth are relative to K.B.

0	218 Sand and Shale
218	510 Shale
510	542 sand
542	854 Shale
854	900 sand
900	1572 Shale
1572	1595 sand
1595	1705 Shale
1705	1746 sand
1746	1812 Shale
1812	1840 sand
1840	2040 Shale
2040	2136 Big Lime
2136	2268 Big Injun
2268	2840 Shale
2840	2850 Gordon Stray
2850	2868 Gordon
2868	2960 Shale



Select datatypes: (Check All) Select County: (017) Doddridge Location Production Plugging Enter Permit #: 5040 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

Usage Notes
Contact Information Disclaimer WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 17 Permit = 5040 Link to all digital records for well

Report Time: Wednesday, November 29, 2023 11:49:38 AM

Location Information: View Map

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_COMPLET	TION PROP_VD PROP_TRGT_FM TFI	M_EST_PR
4701705040	10/18/2005	Original Loc	Completed	Roy R Ferrebee	1		99139-00 Roy R Ferrebee	East Resources, Inc.	3350 Gordon	
4701705040	4/1/2010	Worked Over	Completed	Rov R Ferrebee	1	C A Smith	99139-00 Roy R Ferrebee	East Resources, Inc.	3350 Gordon	

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	M DEEPEST_	FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD NEW_FTG KOD G_BEF C
4701705040	10/18/2005	10/5/2005	1307	Ground Level	Jksnbg-Strngtwn	Up Devonian	Gordon		Development Well	Development Well	Water Injection	Rotary	Acid+Frac	3350	3350
4701705040	4/1/2010	3/31/2010	1307	Ground Level	Jksnbg-Strngtwn	Up Devonian			Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3350	0

Pay/Show/Water Information:

AP	1	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER	QNTY
470	01705040	10/18/2005	Water	Salt Water	Vertical			2644	Up Devonian						
470	01705040	10/18/2005	Water Flood	Injection	Vertical	3177	Gordon	3190	Gordon						
470	01705040	4/1/2010	Water Flood	Injection	Vertical	3177	Gordon	3190	Gordon						
470	01705040	4/1/2010	Water Flood	Injection	Vertical	3204	Gordon	3207	Gordon						

There is no Production Gas data for this well

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

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:

Stratigraph	y iiiioiiiiau	UII.								
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM	
4701705040	Original Loc	Big Lime	Well Record	2318	Reasonable	80	Reasonable	1307	Ground Level	
4701705040	Original Loc	Greenbrier Group	Well Record	2318	Reasonable	267	Reasonable	1307	Ground Level	
4701705040	Original Loc	Big Injun (undiff)	Well Record	2398	Reasonable	187	Reasonable	1307	Ground Level	
4701705040	Original Loc	Gordon Stray	Well Record	3156	Reasonable	19	Reasonable	1307	Ground Level	
4701705040	Original Loc	Cordon	Well Record	3175	Peaconable	17	Peaconable	1307	Ground Level	

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

API#

1/21/2010 47 017 05040

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

Well Operator's Report of Well Work

COPV

Farm name:	FEDDEDER			A U A TY CIL		いろい	· • 1 4-4
	FERREBEE,	ROY R.	Ope	rator Well	No.: C.A.	SMITH 1	
LOCATION:	Elevation:	1,307'	Qua	drangle:	CENTERI	POINT 7.5'	
	District: Latitude: Longitude:	MCCLELLAN 11,725 Feet south of 6,625 Feet west of		nty: DO Deg 27 Deg 40	DDRIDGE Min 30 Min 0	Sec.	
Company:	EAST RESOURCE P.O. BOX 552 VIENNA, WY	URCES, INC. 19 / 26105-5519		Casing Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Agent:	PHILIP S. ON	DRUSEK					Cu. Tt.
Inspector: Permit Issued: Well work Com Well work Com Verbal plugging permission gran	pleted:	ANAGE 01/21/10 03/31/10 04/01/10					
Rotary X Total Depth (fee Fresh water dept	Cablet)	Rig 3350' NA		7"	633'	633'	155 sks
Salt water depths	,	NA.		4 1/2"	3279.2'	3279.2'	150 sks
Is coal being mir Coal Depths (ft):	ned in area (Y/N	I) NA N					-
OPEN FLOW D	ATA	* WATERFLOOD INJEC	TOR				
Producir Gas:	ng formation Initial open flow Final open flow	Gordon w * M w * M flow between initial and	CF/d CF/d 1 final	Oil: Initia	Pay zone de l open flow open flow sure)		3177'-3190', 3204'-3207' * Bbl/d * Bbl/d
Gas: 1	oroducing forma Initial open flow Final open flow Fime of open Ek pressure	y Mo Mo flow between initial and	CF/d l final	Oil: Initial Final	Pay zone de l open flow open flow ure)	oth (ft) Hours	Bbl/d Bbl/d Hours
GEOLOGICAL REC	ORD OF ALL FO ECEIVED	UT THE FOLLOWING: 1) DI LINGE, ETC. 2) THE WELL L RMATIONS, INCLUDING CO	ETAILS	OF PERFO	RATED INTI	ERVALS, FRACT	
	e of Oil & Ga JG 0 8 2011	For: EAST REAST RE	SOUR	CES, INC.	Bu K	Helm	
7.0	JU V C EVII	Date:				1/2/10	

WV Department of Environmental Protection

Treatment:

Treated perfs. 3177'-3207' w/ 250 gals. 15% HCl acid, 390 bbls cross linked gel, and 25,000 # 20/40 sand.

Well Log:

SEE ORIGINAL WELL RECORD

RECEIVED
Office of Oil & Gas

AUG 08 2011

WV Department of Environmental Protection



Select datatypes: (Check All) Select County: (017) Doddridge Location Production Plugging Enter Permit #: 5243 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

Usage Notes
Contact Information Disclaimer WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 17 Permit = 5243 Link to all digital records for well

Report Time: Wednesday, November 29, 2023 11:50:18 AM

Location Information: View Map

| API | COUNTY PERMIT TAX DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4701705243 | Doddridge | 5243 | McClellan | Center Point | Centerpoint | 39.424388 | -80.69624 | 526145.3 | 4363917.1 |

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER WELL_N	UM CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD PROP_TRGT_FM TFM_E
4701705243	8/25/2006	Original Loc	Completed	Coastal Lumber Co	1			East Resources Inc et al	Adkins, Franklin	3380 Gordon
4701705243	1/25/2010	Worked Over	Completed	Coastal Lumber Co	1	O W O Hardman		East Resources Inc et al	East Resources, Inc.	3380 Gordon

Completion Information:

Α	\PI	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
4	701705243	8/25/2006	8/1/2006	1330	Ground Level	Jksnbg-Strngtwn	Greenland Gap Fm	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3380	3380
4	701705243	1/25/2010	1/22/2010	1330	Ground Level	Jksnbg-Strngtwn	Greenland Gap Fm	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3380	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
4701705243	1/25/2010	Water Flood	Injection	Vertical	3174	Gordon	3176	Gordon						
4701705243	1/25/2010	Water Flood	Injection	Vertical	3178	Gordon	3188	Gordon						
4701705243	8/25/2006	Water Flood	Injection	Vertical	3178	Gordon	3188	Gordon						
4701705243	1/25/2010	Water Flood	Injection	Vertical	3202	Gordon	3207	Gordon						

There is no Production Gas data for this well

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

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:

Ottatigraph	y iiiioiiiiau	OII.							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4701705243	Original Loc	Big Lime	Well Record	2378	Reasonable	59	Reasonable	1330	Ground Level
4701705243	Original Loc	Greenbrier Group	WVGES Staff Geologist	2378	Reasonable			1330	Ground Level
4701705243	Original Loc	Big Injun (undiff)	Well Record	2437	Reasonable	136	Reasonable	1330	Ground Level
4701705243	Original Loc	Gordon	Well Record	3155	Reasonable	33	Reasonable	1330	Ground Level
4701705243	Original Loc	Gordon Stray	Well Record	3200	Qstnble Pick	7	Reasonable	1330	Ground Level

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

47017052430/2009

API# 47 017 05243F

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



Well Operator's Report of Well Work

		ii ozz.o porator b	report of Medi	. AA OT IZ		
Farm name:	COASTAL	LUMBER COMPANY	Operator Well	No.: O.W.	O. HARDMAN	J# 1
LOCATION:	Elevation:	1,330'	Quadrangle:	CENTERP	OINT 7.5'	
Company:	District: Latitude: Longitude: EAST RESC P.O. BOX 53	MCCLELLAN 12,375 Feet south of 8,400 Feet west of URCES, INC.	County: DC 39 Deg 27 80 Deg 40 Casing Tubing	Min 0 Used in	Sec. Sec.	Cement
		V 26105-5519	Size	Drilling	in Well	Fill Up Cu. Ft.
Agent:	PHILIP S. O	NDRUSEK				
Inspector: Permit Issued: Well work Con Well work Con Verbal pluggin	npleted:	ANAGE 12/30/09 01/22/10 01/25/10				
permission gran Rotary X Total Depth (fe Fresh water dep	nted on: Cable et)	Rig 3380'	7"	644'	644'	160 sks
Salt water depth	• •	NA NA	4 1/2"	3311.45'	3311.45'	150 sks
Is coal being more Coal Depths (ft):	N) NA N				
OPEN FLOW I Produc Gas:	ing formation Initial open fl Final open flo	w * M	CF/d Oil: Initi CF/d Fina	Pay zone (f al open flow l open flow		'-3176' 3188', 3202'-3206. * Bbl/d * Bbl/d
Static r	ock pressure	n flow between initial and	l final tests g (surface pre	ssure)	Hours After	Hours
Second Gas:	producing form Initial open flo Final open flo	mation ow Mo Mo flow between initial and	CF/d Oil: Initi	Pay zone de al open flow l open flow		Bbl/d Bbl/d Hours
OR STIMULATIN	G, PHYSICAL ÇI	PUT THE FOLLOWING: 1) DI HANGE, ETC. 2) THE WELL L FORMATIONS, INCLUDING C	OG WHICH IS A	SYSTEMATIC	DETAILED	-
RFC	EIVED				word Over	
Office of	f Oil & Gas	For: EAST RE By:	SOURCES, IN	C. (1)	Ala O.	
AUG	0 8 2011	Date:		3	5/12/1	$\frac{\sim}{o}$
	المداد				•	

WV Department of Environmental Protection **Treatment:**

Treated perfs. 3173.5'-3206.5' w/ 250 gals. 15% HCl acid,

336 bbls cross linked gel, and 19,300 # 20/40 sand.

Well Log:

SEE ORIGINAL WELL RECORD

RECEIVED
Office of Oil & Gas

AUG 08 2011

WV Department of Environmental Protection



Select County: (017) Doddridge Select datatypes: (Check All) Location ✓ Production Plugging Enter Permit #: 5273 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

Usage Notes
Contact Information Disclaimer WVGES Main

WV Geological & Economic Survey:

Well: County = 17 Permit = 5273 Link to all digital records for well

Report Time: Wednesday, November 29, 2023 11:50:56 AM

 API
 COUNTY
 PERMIT TAX_DISTRICT AVAIDED
 QUAD_75 Center Point
 QUAD_15 Center Point
 LAT_DD
 LON_DD
 UTML
 UTMN

 4701705273
 Doddridge
 5273
 McClellan
 Center Point
 Center point
 39.427528
 -80.702203
 525630.9
 4364263.8

There is no Bottom Hole Location data for this well

Owner Information:

 API
 CMP_DT
 SUFFIX
 STATUS
 SURFACE_OWNER

 4701705273
 3/2/2006
 Original Loc
 Completed
 Coastal Lumber Co.

 4701705273
 -/-/ Worked Over
 Permitted
 Coastal Lumber Co.

 LEASE_NUM
 MINERAL_OWN
 OPERATOR_AT_COMPLETION
 PROP_VD
 PROP_TRGT_FM
 TFM_EST_PR

 99297-00
 East Resources, Inc.
 3050
 Gordon

 99297-00
 HG Energy LLC
 HG Energy, LLC
 3120
 Gordon
 SURFACE_OWNER WELL_NUM CO_NUM LEASE
Coastal Lumber Co. C Wright 7 Clinton Wright

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
 DEEPES

 4701705273
 3/2/2006
 1/11/2006
 1026
 Ground Level
 Jksnbg-Strngtwn
 Gordon

 4701705273
 -/-I 1/-I 1034
 Ground Level
 DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AF Gordon Gordon Development Well Development Well Oil and Gas Rotary Acid+Frac 3120 3120 3120

Comment: 3/2/2006 No flow data listed on completion

Pay/Show/Water Information:

PRODUCT SECTION DEPTH_TOP FM_TOP DEPTH_BOT FM_BOT G_BEF G_AFT O_BEF O_AFT WATER_QNTY
Oil & Gas Vertical 2884 Gordon 2892 Gordon API CMP_DT ACTIVITY PRODUCT SECTION 4701705273 3/2/2006 Water Flood Oil & Gas Vertical

Production Gas Information: (Volumes in Mcf) * 2023 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
4701705273	East Resources, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4701705273	East Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4701705273	East Resources, Inc.	2010	245	0	0	0	0	0	0	47	44	27	48	43	36
4701705273	East Resources, Inc.	2011	792	36	64	80	73	81	83	79	71	65	47	58	55
4701705273	HG Energy, LLC	2012	1,058	38	35	35	42	65	117	101	156	140	115	113	101
4701705273	HG Energy, LLC	2013	380	64	55	66	100	95	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil *2023 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
4701705273	East Resources, Inc.	2007	_ 0	0	0	0	0	0	0	0	0	0	0	0	0
4701705273	East Resources, Inc.	2008	1,744	31	33	38	110	317	134	235	152	130	182	224	158
4701705273	East Resources, Inc.	2010	211	31	6	0	0	0	0	0	0	19	12	143	0
4701705273	East Resources, Inc.	2011	10	0	6	0	0	0	4	0	0	0	0	0	0
4701705273	HG Energy, LLC	2012	353	0	0	0	0	0	0	10	32	69	108	83	51
4701705273	HG Energy, LLC	2013	153	38	41	48	26	0	0	0	0	0	0	0	0

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
47017052	73 Original Loc	Big Lime	Well Record	2090	Reasonable	72	Reasonable	1026	Ground Level
47017052	73 Original Loc	Big Injun (undiff)	Well Record	2162	Reasonable	136	Reasonable	1026	Ground Level
47017052	73 Original Loc	Gordon Stray	Well Record	2858	Reasonable	26	Reasonable	1026	Ground Level
47017052	73 Original Loc	Gordon	Well Record	2884	Reasonable	8	Reasonable	1026	Ground Level

Wireline (E-Log) Information:

There is no Plugging data for this well

There is no Scanned/Raster Log data for this well

^{*} There is no Digitized/LAS Log data for this well

^{*} There is no Scanned or Digital Logs available for download

JK

WR-35 Rev. 8/23/13 Page 1 of 4

State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

API 47 - 017 - 05273 County	Doddridge	District McClellan	
Quad Centerpoint 7.5' Pad Na	me C Wright	Field/Pool Name Str	ingtown
Farm name Costal Lumber Company		Well Number 7	
Operator (as registered with the OOG) H.G. Ene	ergy, LLC		
Address 5260 DuPont Road	City Parkersburg	State WV	_{Zip} <u>26101</u>
Top hole Northing Landing Point of Curve Northing Bottom Hole Northing Elevation (ft) 1026 GL Typ Permit Type □ Deviated □ Horizontal	□ Horizontal 6A ■ Ve	Easting Easting Type of Report rtical Depth Type	□Interim BFinal □ Deep
Type of Operation Convert Deepen	Drill Drill Back	□ Redrilling □ Rework	□ Stimulate
Well Type □ Brine Disposal □ CBM □ Gas □	Oil Secondary Recove	y 🗆 Solution Mining 🗆 Sto	rage 🗆 Other
Drilled with Cable Rotary Drilling Media Surface hole Air Mud Production hole Air Mud Fresh Wat Mud Type(s) and Additive(s) N/A		nediate hole	■ Fresh Water □ Brine
Date permit issued 6/13/2013 Date of	rilling commenced	NA Date drilling of	ceased NA
Date completion activities began 6/14/	Date comple	tion activities ceased	0/10/13
Verbal plugging (Y/N) N Date permi	ssion granted	Granted by	
Please note: Operator is required to submit a pluj	gging application within 5 o	lays of verbal permission to p	lug
Freshwater depth(s) ftNone	Open mine(s)	(Y/N) depths	N
Salt water depth(s) ft None	Void(s) enco	intered (Y/N) depths	N
Coal depth(s) ftNone		countered (Y/N) depths	N
Is coal being mined in area (Y/N)	N		Reviewed by:
		RECEIVED Office of Oil and Gas	Reviewed by.

FEB 1 1 2015

WV Department of Environmental Protection

Page 2 of 4 WR-3.5 Rev. 8/23/13 Farm name_Costal Lumber Company API 47-017 -Well number 7 05273 Basket Did cement circulate (Y/N) Casing New or Grade CASING Hole * Provide details below* wt/ft Depth(s) Used Depth STRINGS Size Size Conductor Surface LS/17 NA Y- Existing 7° 322 New 8 3/4" Coal Intermediate 1 Intermediate 2 Intermediate 3 N- Existing Production J-55/10.5 4 1/2" 3059 New 6 1/4" J-55/4.6 Tubing 2 3/8" 2752 New Packer type and depth set Comment Details Tubing set on Baker Lok - Set packer @ 2752 WOC Yield Volume Cement CEMENT Slurry Class/Type Number (ft 2) Top (MD) (hrs) (ft³/sks) of Sacks wt (ppg) of Cement DATA Conductor Surface 8 1.18 88 Surface 75 15.6 Reg Neat Coal Intermediate I Intermediate 2 Intermediate 3 8 NA Production 14.2 1.27 190 150 50:50 Pozmix Tubing Loggers TD (ft) Drillers TD (ft) 3120 Plug back to (ft) NA Deepest formation penetrated Gordon Plug back procedure N/A Kick off depth (ft)_ □ deviated/directional □ induction Check all wireline logs run □ density □ caliper temperature □sonic □ gamma ray neutron □ resistivity Were cuttings collected □ Yes ■ No Conventional Sidewall Well cored □ Yes
No DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING □ Yes 🚇 No DETAILS WAS WELL COMPLETED AS SHOT HOLE 🗆 Yes 🚇 No DETAILS _ WAS WELL COMPLETED OPEN HOLE? TYPE OF TRACER(S) USED _____ WERE TRACERS USED - Yes No

WR-35 Rev. 8/23/13 Page 3 of 4

ÁPI	47- 017 _ 05273	Farm name Costal Lumber Company	Well number 7
-----	-----------------	---------------------------------	---------------

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	existing	2884	2892	33	Gordon
	07.10 1.1.1.3				
				 	
-					
L		<u></u>	<u> </u>		

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Date	Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
NA							
							_
	NA	NA					

Please insert additional pages as applicable.

Page 4 of 4

WR-35 Rev. 8/23/13								
API 47- 017	05273	Farm n	_{ame} Costal L	umber Co	mpany	Well number	er_7	
para -								
PRODUCING F	FORMATION(S	_	<u>DEPTHS</u>					
Gordon			284-2892	_TVD		MD		
								
					<u> </u>	····		
Please insert ad						±		
GAS TEST						Flow D Pum		
SHUT-IN PRES	SSURE Surf	ace	_psi Botto	m Hole	psi	DURATION	OF TEST _	hrs
OPEN FLOW	Gas	Oil	NGL		Water	GAS MEAS		
	mct	pd t	opd	_ opa _		o Danmaroo		
LITHOLOGY/	TOP	воттом	TOP	BOTTOM				A STORYMAN A STORY
FORMATION	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT MD	DEPTH IN		ROCK TYPE AN		ANTITYAND IL, GAS, H ₂ S, ETC)
	NAME TVD 0	TVD	0	, who	1111011			
	SEE	ORIGINAL	WR-35					
				<u> </u>				
		11						
	dditional pages					•		
Drilling Contr	actor NA		City			State	Zip	
Logging Com	pany <u>NA</u>		City	у		State	Zip	
	-ΜΔ							
Cementing Co	ompany NA		City	у	•	State	Zip	
Stimulating C	ompany NA		Cit	у		State	Zip	
Please insert a	additional pages	as applicable.						
	Ro aer H eidma	an 🤈			Telepho	ne 304-420-110	07	
Signature		Med	Title	Operations N	Manager	ne 304-420-110 Dat	e <u>2/11/15</u>	· · · · · · · · · · · · · · · · · · ·
L.				formation	Attach con	y of FRACFOC	US Registry	
Submittal of I	Hydraulic Fractu	iring Chemical	יווז אוואכטוספורד (ווו	онцанон	ramon oop,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		



Select County: (095) Tyler	~	Select datatypes: (Check All)							
Enter Permit #: 1124		Location	Production	Plugging					
Get Data Reset		✓ Owner/Completion✓ Pay/Show/Water	✓ Stratigraphy ✓ Logs	Sample Btm Hole Loc					

Contact Information

WV Geological & Economic Survey

Well: County = 95 Permit = 1124 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:21:40 AM

Location Information: View Map

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE_OV 4709501124 11/14/1990 Worked Over Completed Carl E Walters STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_PR 47243-00 Darrell Stackpole Pennzoil Company Thompson Hrs

Completion Information:

API CMP_DT SPUD_DT ELEV DATUM FIELD DEEPEST_FM DEEPES FM DEEPEST_FM DEEPEST_F DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_A Unsuccessful Water Injection Rotary Acid+Frac Service Well 2880

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 4709501124 11/14/1990 Horizon Injection Vertical 2788 Gordon 2798 Gordon 0 0

Production Gas Information: (Volumes in Mcf) * 2023 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
4709501124	Pennzoil Products Company	1991	_ 0	0	0	0	0	0	0	0	0	0	0	0	0
4709501124	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501124	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501124	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501124	Pennzoil Products Company	1995	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 *2023 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	ост	NOV	DCM
4709501124	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501124	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501124	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501124	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501124	Pennzoil Products Company	1995	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:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

API CUT1_TOP 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_SEC1 4709501124 2803 Gordon Gordon

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Col.		:
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Pare	<u>` "Janua</u>	ry 23.	1986	
peri	tor's.			▔
Well	No.	8	•	•
			; ·	_
Farm	Thompso	<u>on' Heirs</u>	5	

Sinie of West Virginia [JAN 2 7, 1986 DEPARTMENT OF ENERGY Wil amb Gas Bivis for

API No. 47 - 095 - 1124

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil X / Gas / Liquid Injection				
(If "Gas," Production / Underground / Underg		· · · · ·	p_/Snz	ттем/)
District: McElroy County Tyle	. /		e Center	point 7.5'
	/		recipion in the mount of	
	/			
Pennzoil Company	. /			
ADDRESS P.O. Box 1588; Parkersburg, W.Va. 2610	casing	Used in	Ie-	Cement
DESIGNATED, AGENT- James A. Crews (Tubing	Drilling	in Well	511 m
ADDRESS P.O. Box 1588, Parkersburg, W.Va.	Size			1
SURFACE OWNER Carl'E Walters	20-16 Capa			
ADDRES Alvy, W.Va. 26322/	13-10"		^	
MINERAL RICERS OWNER Darrell Stackpole	9 5/8	•	<i>Հ</i> .	1
ADDRESS	8 5/8	806	806	350 sks
OIL AND GAS INSPECTOR FOR THIS WORK Robert		1		· 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Lowther ADDRESS Gen. Delivery, Middlebourne	75"1/2			- 1
PERMIT ISSUED 11-25-85 ""	4 1/2	2865	2865	225 sk
DRITTING COMMENCED 1-2-86	3 .			
DRILLING COMPLETED 1-12-86	2			
IF APPINICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR	• • • • • • •		,	
REMORKING: VERBAL PERMISSION OBTAINED ON	liners used		0	
COLOGICAL TARGET FORMETION Gordon		Des	=n 2760) feet
Depth of completed well 2859 feet R	Y			
Water strata Septh: Fresh '220 "feet;			4	·
Coal seam depths:			en in Athe	area? no
			\$ 10 m	
OPEN FLOW DATA Information Well Only -			· · · · ·	***
Producing formation To Be Completed at La				feat
Ges: Initial open flow / Morf/d	Orl: Ini	risj cosu	=10x	
Final open flow 13 Mcf/a				
Time of open flow between initi				
Static rock pressure		ent) after		rs, shuz in
(If explicable are to multiple completion-				
Second producing formation			·	feet
Ges: Initial open flow Mcf/d	•	* * * * * * * * * * * * * * * * * * * *		
Final open flor Mcf/6	•	• •	, —	<u>===</u> 25 <u>1</u> /ĉ
Time of open flow between lifeti		<u>.</u>		
Static rock fressure psig (surface	measurene	ur) sītēr	hau	rs shir in
		(Conti	we on re	ocrse siże

DETAILS OF PERFORMED INTERVALS, FRACTURING OR STIPCLATING, PHYSICAL CHANCE, ETC.

121 - 150 - 100 - 121 -

Trans To Transpage

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Sur Land Wall

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FORMATION COLOR, HARD OR SOFT	TOP FEET	BOTTOM FEET	Including indication	n of all fresh
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Sand .	0	98		
Silt	98 -	180	A secondary	
Sand	180	210		
Shale	210	336		
Sand	336	950		
Shale, Sand/ smilled	950	1924		
Little Lime	1,924	1948	Barrier of the second	
Blue Munday	1948	1976	Q .,.	
Big Lime	1976	2052	There was a second	
Loyalhanna	2052	2124		
Pocono Big Injun Pocono Shale	2124	2204		
Pocono Shale	2204 {		John Green Leiter Erstein Gazza (1997)	
Gordon	2760	2822		
Shale	2822	2859		
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Total Depth		2859		100
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(Attach separate sheets as necessary

Pennzoil Company

Well Operator

Dy: Courtin G. Luca

Date: 1-23-86

Note: Regulation 2.02(il provides as follows:

"The term "log" or !well log! shall mean a systematic decided peological record of all formations, including will, empountered in the crilling of a well."

$\mathsf{WVGES}\ \mathsf{O\&G}\ \mathsf{Record}\ \mathsf{Reporting}\ \mathsf{System} \\ \mathbf{4709501410}$



Select County: (095) Tyler	~	Select datatypes: (Check All)							
Enter Permit #: 1410		Location	Production	Plugging					
Get Data Reset		✓ Owner/Completion✓ Pay/Show/Water	✓ Stratigraphy ✓ Logs	Sample Btm Hole Loc					

able Descriptions
ounty Code Translations
ermit-Numbering Series
sage Notes
ontact Information
isclaimer
VGES Main
Pipeline, Plue"

WV Geological & Economic Survey:

Well: County = 95 Permit = 1410 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:22:12 AM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4709501410	Tyler	1410	McElroy	Center Point	Centerpoint	39.463249	-80.690996	526581.8	4368231.4

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX			WELL_NUM CO_				I OPERATOR_AT_COMPLETION F	PROP_VD	PROP	_TRGT_FI	N TFM	EST_PF	
4709501410	10/23/1990	Original Loc	Completed	Frances Wadsworth	18	J Lemasters	RG 2171-00	Don E Riddle	Pennzoil Company						ı

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 KO	G_BEF G_A
4709501410	10/23/1990	8/1/1990	913	Ground Level	Jksnbg-Strngtwn	Hampshire Gr	Gordon		Service V	Nell	Unsucce	essful	Water Injection	Rotary	Acid+Frac	3015	3015	0

Pay/Show/Water Information:

,																
API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_T	ГОР	FM_TOP	DEPTH_	BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER	QNTY
4709501410	10/23/1990	Water	Salt Water	Vertical					1540							0
4700501410	10/22/1000	Horizon	Injection	Vortical	2	012	Cordon		2026	Cordon	0	0				

Production Gas Information: (Volumes in Mcf) * 2023 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
4709501410	Pennzoil Products Company	1991	_ 0	0	0	0	0	0	0	0	0	0	0	0	0
4709501410	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501410	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501410	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501410	Pennzoil Products Company	1995	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 *2023 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
4709501410	Pennzoil Products Company	1991	_ 0	0	0	0	0	0	0	0	0	0	0	0	0
4709501410	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501410	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501410	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501410	Pennzoil Products Company	1995	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
4709501410	Original Loc	Allegheny coal (udf)	CBM: Drillers Pick	730	Reasonable	0	Reasonable		913	Ground Level

Wireline (E-Log) Information:

There is no Plugging data for this well

^{*} There is no Scanned/Raster Log data for this well

^{*} There is no Digitized/LAS Log data for this well

^{*} There is no Scanned or Digital Logs available for download

WR-35 Rev (9-11)

State of West Virginia Department of Environmental Protection Office of Oil and Gas Well Operator's Report of Well Work

47095014106

DATE: April 14, 2023 API #: 47-095-01410

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Harman Brown
Signature

4/21/2023 Date

47095014100

Were core samples taken? Yes	NoX	Were cutting	ngs caught during dr	illing? Yes	No_	X
Were Electrical, Mechanical or Geopl Magnet Flux Leakage Inspection, Comp. Density	nysical logs recorded o	on this well? If yes,	, please list Gamma	a Ray,		
NOTE: IN THE AREA BELO FRACTURING OR STIMULATING DETAILED GEOLOGICAL REC COAL ENCOUNTERED BY THE	NG, PHYSICAL CH CORD OF THE TO	ANGE, ETC. 2). T OPS AND BOTTO	THE WELL LOG VOICES OF ALL FO	WHICH IS A S	SYSTEM	ATIC
Perforated Intervals, Fracturing, or Sti	imulating:					
Plug Back Details Including Plug Typ	e and Depth(s):					
Formations Encountered: Surface:	Тор	Depth	1	Bottom)	<u>Depth</u>	
				11		
				RECEIV Office of Oil a		
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WV Department of Environmental Protection



Select County: (0	095) Tyler	Y	Select datatypes: (Check All)	
Enter Permit #: 1	411		Location	Production	✓ Plugging
Get Data	Reset		✓ Owner/Completion✓ Pay/Show/Water	Stratigraphy Logs	Sample Btm Hole Loc

<u>Jsage Notes</u> Contact Information

WV Geological & Economic Survey:

Well: County = 95 Permit = 1411 Link to all digital records for <u>well</u>

Report Time: Thursday, November 30, 2023 9:22:38 AM

Location Information: View Map

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE_O 4709501411 11/14/1990 Dvtd Orgnl Loc Completed Jerry Walters STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_PR M H Pennick RG-2165-00 Pennzoil Co Pennzoil Company

Completion Information:

DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AF Unsuccessful Water Injection Rotary Acid+Frac Service Well 3010 3010

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 4709501411 11/14/1990 Water Flood Injection Deviated 2920 Gordon 2930 Gordon 0 0

Production Gas Information: (Volumes in Mcf) * 2023 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	ı
4709501411	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0	l
4709501411	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0	l
4709501411	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0	l
4709501411	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0	l
4709501411	Pennzoil Products Company	1995	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 *2023 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	ост	NOV	DCM
4709501411	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501411	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501411	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501411	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501411	Pennzoil Products Company	1995	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
4709501411	Dvtd Orgnl Loc	Little Lime	Well Record	1982	Reasonable	16	Reasonable	854	Ground Level
4709501411	Dvtd Orgnl Loc	Big Lime	Well Record	2023	Reasonable	107	Reasonable	854	Ground Level
4709501411	Dvtd Orgnl Loc	Big Injun (undiff)	Well Record	2130	Reasonable	164	Reasonable	854	Ground Level
4709501411	Dvtd Orgnl Loc	Gordon	Well Record	2911	Reasonable	43	Reasonable	854	Ground Level

There is no Plugging data for this well

Wireline (E-Log) Information:
* There is no Scanned/Raster Log data for this well

^{*} There is no Digitized/LAS Log data for this well

^{*} There is no Scanned or Digital Logs available for download

API # 47- 95-01411

Timothy P. Roush

APR 29 831

State of West Virginia Division of Oil and Gas 4709501411

Well Operator's Report of Well Work Farm name: WALTERS, JERRY Operator Well No.: M.H. PENNICK 9 LOCATION: Elevation: 854.00 Quadrangle: CENTER POINT MCELROY County: TYLER Feet South of 39 Deg. 27Min. 30 Sec. Latitude: 50 7550 Feet West of 80 Deg. 40 Min. 0 Sec. Longitude Company: PENNZOIL PRODUCTS COMPANY P. O. BOX 5519 Casing | Used in Left VIENNA, WV 26105-5519 Fill Up Tubing Drilling in Well|Cu. Ft.| Agent: JAMES A. CREWS То Size Inspector: GLEN P. ROBINSON surface Permit Issued: 07/24/90 8-5/8 204.82 204.82 160 Sks. Well work Commenced: Well work Completed: 8-16-90 _11-14-90 Verbal Plugging 4-1/22980.95 2980.95 300 Sks. Permission granted on: Rotary X Cable
Total Depth (feet) 3010
Fresh water depths (ft) Rig Salt water depths (ft) Is coal being mined in area (Y/N)? N Coal Depths (ft): N/A OPEN FLOW DATA Producing formation Gas: Initial open flow * MCF/d Oil: Initial open flow Bbl/d
Final open flow * MCF/d Final open flow Bbl/d Gordon Time of open flow between initial and final tests Hours Static rock Pressure _psig (surface pressure) after Hours Second producing formation N/A Pay zone depth (ft) MCF/d Oil: Initial open flow Gas: Initial open flow Final open flow MCF/d Final open flow Time of open flow between initial and final tests Bbl/d Static rock Pressure _psig (surface pressure) after * Not tested - liquid injection well. 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

Date:

1991

Abril

Stimulation

Gordon 2920-2930 - 10 hles Perforated:

Treated w/300 gals. reg. HF acid, 199 Bbls. gelled water and 1500# 80/100 & 500# 20/40sand.

Well Log

Sand & Shale	00-314
Sand	314-330
Sand & Shale	330-402
Sand	402-424
Sand & Shale	424-570
Shale	570-682
Sand	682-706
Shale	706-739
Sand	739-788
Shale	788-1108
Sand	1108-1126
Shale	1126-1163
Sand	1163-1180
Shale	1180-1330
Sand & Shale	1330-1404
Sand	1404-1464
Shale	1464-1476
Sand	1476-1496
Shale	1496-1594
Sand	1594-1610
Shale	1610-1640
Sand	1640-1670
Sand & Shale	1670-1816
Shale	1816-1852
Sand	1852-1888
Shale	1888-1982
Little Lime	1982-1998
Shale	1998-2023
Big Lime	2023-2130
Big Injun	2130-2294
Shale	2294-2911
Gordon	2911-2954
Shale	2954-3010
T.D.	3010 '

Xg of



Select County: (095) Tyler Select datatypes: (Check All) Production Plugging Location Enter Permit #: 1412 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Logs ✓ Pay/Show/Water Btm Hole Loc

Usage Notes Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 95 Permit = 1412 Link to all digital records

Report Time: Thursday, November 30, 2023 9:22:59 AM

Well Reassignment Information: Reassigned From OLD_COUNTY OLD_PERMIT NEW_COUNTY NEW_PERMIT

 Location Information:
 View Map

 API
 COUNTY
 PERMIT TAX_DISTRICT
 QUAD_75
 QUAD_15
 LAT_DD
 LON_DD
 UTME
 UTMN

 4709501412
 Tyler
 1412
 McElroy
 Center Point
 Centerpoint
 39.45131
 -80.702215
 525621.1
 4366903.2

There is no Bottom Hole Location data for this well

Owner Information:

LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_PR FM Lemasters 47221-00 Grace L Teters Pennzoil Company

Completion Information:

API CMP_DT SPUD_DT ELEV DATUM 4709501412 10/27/1990 9/14/1990 996 Ground DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE CMP MTHD TVD TMD NEW FTG KOD G BEF G A FIELD RIG 996 Ground Level Jksnbg-Strngtwn Hampshire Grp Gordon Water Injection Rotary Acid+Frac

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 4709501412 10/27/1990 Horizon Injection Vertical 2906 Gordon 2916 Gordon 0 0

Production Gas Information: (Volumes in Mcf) * 2023 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
4709501412	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501412	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501412	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501412	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501412	Pennzoil Products Company	1995	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 *2023 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	ост	NOV	DCM
4709501412	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501412	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501412	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501412	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501412	Pennzoil Products Company	1995	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

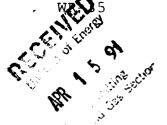
Stratigraphy Information:

Α	API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4	709501412	Original Loc	Little Lime	Well Record	2033	Reasonable	17	Reasonable	996	Ground Level
4	709501412	Original Loc	Big Lime	Well Record	2066	Reasonable	100	Reasonable	996	Ground Level
4	709501412	Original Loc	Big Injun (undiff)	Well Record	2166	Reasonable	144	Reasonable	996	Ground Level
4	709501412	Original Loc	Gordon	Well Record	2900	Reasonable	19	Reasonable	996	Ground Level

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well



State of West Virginia DEPARTMENT OF ENERGY Division of Oil and Gas 4709501412

Well Operator's Report of Well Work

Farm name: WEEDON, JUANITA L. Operator Well No.: F.M.LEMASTERS10 LOCATION: Elevation: 996.00 Quadrangle: CENTER POINT

District: MCELROY County: TYLER
Latitude: 2550 Feet South of 39 Deg. 27Min. 30 Sec.
Longitude 10100 Feet West of 80 Deg. 40 Min. 0 Sec.

Company: PENNZOIL PRODUCTS COMPANY P. O. BOX 5519 | Casing | Used in | Left |Cement | VIENNA, WV 26105-5519 Agent: JAMES A. CREWS Inspector: GLEN P. ROBINSON

Well work Commenced: 07/24/90
Well work Commenced: 0-14 00 Well work Completed: $\frac{9-14-90}{10-27-90}$ Verbal Plugging Permission granted on:
Rig Rotary x Cable Total Depth (feet) Fresh water depths (ft) Salt water depths (ft)

Is coal being mined in area (Y/N)?_N Coal Depths (ft):__N/A

Ì	_ & 			Fill Up
	Tubing	Drilling	in Well	Cu. Ft.
İ	Size			To surface
İ	8-5/8 	314	314	240 sks.
	4-1/2	2979	2979	300 sks.
1				

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 2900-2919

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 Producing formation Bb1/d Bbl/d Hours ____psig (surface pressure) after _ Static rock Pressure Second producing formation N/A Pay zone depth (ft)

Gas: Initial open flow MCF/d Oil: Initial open flow Final open flow MCF/d Final open flow Time of open flow between initial and final tests Bb1/d Bbl/d Hours Static rock Pressure _psig (surface pressure) after * Not tested, liquid injection well.

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:	PENNZOIK PROPUCTS COMPANY	
	By: finally the	Timothy P. Roush
	Date: April 11, 1991	100 10
		APR 1 8 1991

Stimulation

Perforated: Gordon 2906-2916 - 10 holes

Treated w/250 gal. reg. HF acid, 293 Bbls. gelled water and 1500# 80/100 and 3500# 20/40 sand.

Well Log

Sand and Shale Sand Shale	00-436 436-470 470-790 790-820 820-860 860-888 888-1210 1210-1248 1248-1302 1302-1332 1332-1424 1424-1464 1464-1542 1542-1555 1555-1608 1608-1619 1619-1645 1645-1671 1671-1719 1719-1756 1756-1837 1837-1860 1860-2033 2033-2050 2050-2066
Shale	1860-2033



Select County: (095) Tyler Select datatypes: (Check All) Location Production Plugging Enter Permit #: 1416 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Logs ✓ Pay/Show/Water Btm Hole Loc

Contact Information Disclaime

WV Geological & Economic Survey:

Well: County = 95 Permit = 1416 Link to all digital records

Report Time: Thursday, November 30, 2023 9:23:28 AM

Well Reassignment Information: Reassigned From OLD_COUNTY OLD_PERMIT NEW_COUNTY NEW_PERMIT

 Location Information:
 View Map

 API
 COUNTY
 PERMIT TAX_DISTRICT
 QUAD_75
 QUAD_15
 LAT_DD
 LON_DD
 UTME
 UTMN

 4709501416
 Tyler
 1416
 McEiroy
 Center Point
 Centerpoint
 39.45595
 -80.685756
 527035.5
 4367423

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 4709501416 11/29/1990 Original Loc Completed Vernon & Eliz Delong 20 FR Ball 15459-50 Pennzoil Co Pennzoil Products Company

Completion Information

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
 DEEPEST_FM
 DEEPEST_FM

 4709501416
 11/29/1990
 10/21/1990
 1235
 Ground Level
 Jksnbg-Strngtwn
 Hampshire Grp
 Gordon
 DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE CMP MTHD TVD TMD NEW FTG KOD G BEF G A RIG Unsuccessful Water Injection Rotary Acid+Frac

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 4709501416 11/29/1990 Horizon Injection Vertical 3144 Gordon 3154 Gordon 0 0

Production Gas Information: (Volumes in Mcf) * 2023 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
470950141	6 Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
470950141	6 Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
470950141	6 Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
470950141	6 Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
470950141	6 Pennzoil Products Company	1995	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 *2023 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	ост	NOV	DCM
4709501416	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501416	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501416	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501416	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501416	Pennzoil Products Company	1995	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
4709501416	Original Loc	Little Lime	Well Record	2290	Reasonable	14	Reasonable	1235	Ground Level
4709501416	Original Loc	Big Lime	Well Record	2332	Reasonable	81	Reasonable	1235	Ground Level
4709501416	Original Loc	Big Injun (undiff)	Well Record	2413	Reasonable	149	Reasonable	1235	Ground Level
4709501416	Original Loc	Gordon	Well Record	3138	Reasonable	36	Reasonable	1235	Ground Level

Wireline (E-Log) Information:

There is no Plugging data for this well

^{*} There is no Scanned/Raster Log data for this well

^{*} There is no Digitized/LAS Log data for this well

^{*} There is no Scanned or Digital Logs available for download

State of West Virginia DEPARTMENT OF ENERGY Division of Oil and Gas API # 47- 95-01

Well Operator's Report of Well Work

Graim Hame: DEL	ONG, VERN	ON & ELIZ.	Operator	Well No.:	F. R. BAL	L 20
LOCATION: Ele	vation: 1	235.00 Quad	rangle: CI	ENTER POINT		
Lat	trict: M itude: 9 gitude 5	CELROY 25 Feet Sout 480 Feet West	th of 39	ounty: TYLE Deg. 27Min Deg. 40 Min	30 505	•
Company: PENNZOII	L PRODUCT	S COMPANY -				
	WV 2610	5-5519	&	Used in Drilling		Cement Fill Up Cu. Ft.
Agent: JAMES A	. CREWS		Size			To
Inspector: GLEN Permit Issued: Well work Commer	onced:	7/30/90 10-21-90	8-5/8	490	490	Surface 360 Sks.
Verbal Plugging Permission grant	etea:	11-29-90	4-1/2	3186.70	3186.70	300 Sks.
Rotary X Cabl Total Depth (fee Fresh water dept	3 C J J Z	Rig 06'		 	·	
Salt water depth	ns (ft) _		·			
Is coal being mi Coal Depths (ft)	ned in a	rea (Y/N)? <u>N</u>			·	
OPEN FLOW DATA		·				~~ [
Time o Static rock Second prod	f open fi Pressure	low between in psig rmation	itial and (surface	final tost	safter	BDI/d Hours Hours
Gas: Initia	l open fi open flow	LOWMCF/	d Oil: In	itial open	flow	Bbl/d
Time o Static rock	f open fi Pressure	low between in psig	itial and	nal open fl final test pressure)		Bbl/d Hours Hours
* Water in NOTE: ON BACK OF INTERVALS, FRACT LOG WHICH IS A INCLUDING COAL E	THIS FOURTH	CIC DETAILED	PHYSICA GEOLOGICA		EMA 41	
		For: PENNZOIZ By: Date: An	Jally Pl	Zunl	Timothy	P. Roush

Stimulation

Perforated: Gordon 3144-3154 - 10 holes

Treated w/300 gals. reg. HR acid, 293 Bbls. gelled water and 1500 # 80/100 and 3500 # 20/40 sand.

Well Log	
Sand & Shale	00-684
Sand	684-710
Sand & Shale	710-1110
Sand	1110-1133
Shale	1133-1140
Sand	1140-1156
Shale	1156-1181
Sand	1181-1197
Shale	1197-1250
Sand	1250-1265
Shale	1265-1458
Sand	1458-1479
Shale	1479-1494
Sand	1494-1541
Sand & Shale	1541-1674
Sand	1674-1728
Shale	1728-1772
Sand	1772-1830
Shale	1830-1875
Sand	1875-1900
Shale	1900-1985
Sand	1985-2005
Shale	2005-2290
Little Lime	2290-2304
Shale	2304-2332
Big Lime	2332-2413
Big Injun	2413-2562
Shale	2562-3138
Gordon	3138-3174
Shale	3174-3206
T.D.	3206 '

92/0/



Enter Permit #: 1417 Location V Production V Plugging Owner/Completion Stratigraphy Sample Pay/Show/Water Logs Btm Hole Loc	Select County: (095) Tyler	>	Select datatypes: (0	Check All)	
Get Data Reset	Enter Permit #: 1417		Location	Production	Plugging
	Get Data Reset		_	_ ,	✓ Sample ✓ Btm Hole Loc

Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 95 Permit = 1417 Link to all digital records

Report Time: Thursday, November 30, 2023 9:23:52 AM

Well Reassignment Information: Reassigned From OLD_COUNTY OLD_PERMIT NEW_COUNTY NEW_PERMIT

 Location Information:
 View Map

 API
 COUNTY
 PERMIT TAX_DISTRICT
 QUAD_75
 QUAD_15
 LAT_DD
 LON_DD
 UTME
 UTMN

 4709501417
 Tyler
 1417
 McElroy
 Center Point
 Centerpoint
 39.45131
 -80.685568
 527053.5
 4366908.1

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_OV 4709501417 12/8/1990 Original Loc Completed John Jones 4 J B Gorrell RG 2171-00 Pennzoil Co LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_PR Pennzoil Products Company

Completion Information:

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
 DEEPEST_FM
 DEEPEST_F DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE CMP MTHD TVD TMD NEW FTG KOD G BEF G AF RIG Unsuccessful Water Injection Rotary Acid+Frac 2856

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 4709501417 12/8/1990 Horizon Injection Vertical 2776 Gordon 2788 Gordon 0 0

Production Gas Information: (Volumes in Mcf) * 2023 data for H6A wells only. Other wells are incomplete at this time.

Į.	API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
ŀ	4709501417	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
- [4709501417	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
- [4709501417	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
- [4709501417	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
Ŀ	4709501417	Pennzoil Products Company	1995	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 *2023 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	ост	NOV	DCM
4709501417	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501417	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501417	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501417	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501417	Pennzoil Products Company	1995	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
4709501417	Original Loc	Little Lime	Well Record	1912	Reasonable	16	Reasonable	877	Ground Level
4709501417	Original Loc	Big Lime	Well Record	1952	Reasonable	92	Reasonable	877	Ground Level
4709501417	Original Loc	Big Injun (undiff)	Well Record	2044	Reasonable	146	Reasonable	877	Ground Level
4709501417	Original Loc	Gordon	Well Record	2764	Reasonable	43	Reasonable	877	Ground Level

Wireline (E-Log) Information:

There is no Plugging data for this well

^{*} There is no Scanned/Raster Log data for this well

^{*} There is no Digitized/LAS Log data for this well

^{*} There is no Scanned or Digital Logs available for download



State of West Virginia Division of Oil and Gas 4709501417

Well Operator's Report of Well Work

JONES, JOHN L. / LELAND Farm name: Operator Well No.: J.B. GORRELL 4

LOCATION: Elevation: 877.00 Quadrangle: CENTER POINT

> District: MCELROY County: TYLER

Latitude: 2660 Feet South of 39 Deg. 27Min. 30 Sec. Longitude 5420 Feet West of 80 Deg. 40 Min. 0 Sec.

Company: PENNZOIL PRODUCTS COMPANY P. O. BOX 5519 VIENNA, WV 26105-5519 Agent: JAMES A. CREWS

Inspector: GLEN P. ROBINSON Well work Commenced: 11-11-00
Well work Commenced: 11-11-00 Well work Commenced: $\frac{11-11-90}{12-8-90}$ Verbal Plugging Permission granted on:

Cable Rig Rotary X Cable Total Depth (feet) 2856
Fresh water depths (ft) Salt water depths (ft)

Is coal being mined in area (Y/N)? N Coal Depths (ft): N/A

Casing	Used in	Left	Cement
Tubing	Drilling	in Well	Fill Up Cu. Ft.
Size		 	To
8-5/8	213	213	surface 160 Sks.
4-1/2	2821.25	 2821.25	 300 Sks.

OPEN FLOW DATA

Producing formation Gordon	Pay zone depth (ft)2764-2807
Gas: Initial open flow *	MCF/d Oil: Initial open flow Phi/d
rinal open flow *	MCF/d Final open flow
Time of open flow between	en initial and final tests
Static rock Pressure	psig (surface pressure) afterHours
Second producing formation	N/A Pay zone depth (ft) Bbl/d
Gas: Initial open flow	MCF/d Oil: Initial open flow Bbl/d
rinal open flow	MCF/d Final open flow This
Time of open flow between	en initial and final tests
Static rock Pressure	_psig (surface pressure) after Hours
* Not tested - water injection well	

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: Junally 100	Timothy P. Roush
	/ APLIA 11, 1991	- 9 mg

Stimulation

Perforated: Gordon 2776-2788 - 12 holes

Treated w/300 gal. reg. HF acid, 288 Bbls. gelled water and 1500 # 80/100 and 3500 # 20/40 sand.

Well Log

Sand & Shale	00-701
Sand	701-712
Shale Shale	712-749
Sand	749-780
Sand & Shale	780-1138
Sand	1138-1174
Shale	1174-1225
Sand	1225-1238
Shale	
	1238-1316
Sand	1316-1364
Sand & Shale	1364-1528
Sand	1528-1555
Shale	1555-1737
Sand	1737-1754
Shale	1754-1912
Little Lime	1912-1928
Shale	1928-1952
Big Lime	1952-2044
Big Injun	2044-2190
Shale	2190-2764
Gordon	2764-2807
Shale	2807-2856
T.D.	
T • D •	2856 '

(810)



Select County: (095) Tyler Select datatypes: (Check All) Production Plugging Location Enter Permit #: 1418 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Logs ✓ Pay/Show/Water Btm Hole Loc

<u>Jsage Notes</u> Contact Information <u>Disclaimer</u> WVGES Main

WV Geological & Economic Survey:

Well: County = 95 Permit = 1418 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:24:19 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501418 | Tyler | 1418 | McElroy | Center Point | Centerpoint | 39.454065 | -80.691554 | 526537.3 | 4367212 |

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFA 4709501418 11/15/1990 Dvtd Orgnl Loc Completed J Jones SURFACE_OWNER WELL_NUM CO_NUM LEASE LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_PR
ed J Jones 5 JB Gorrell RG 2171-00 Pennzoil Co Pennzoil Products Company Gordon

Completion Information:

 API
 CMP_DT
 SVID_DT
 ELEV DATUM
 FIELD
 DEEPEST_FM
 DEEPEST_FM

 4709501418
 11/15/1990
 10/1/1990
 1232
 Ground Level Jksnbg-Strngtwn
 Hampshire Grp
 Gordon
 DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G Development Well Development Well Water Injection Rotary Acid+Frac

Pay/Show/Water Information:

PRODUCT SECTION DEPTH_TOP FM_TOP DEPTH_BOT FM_BOT G_BEF G_AFT O_BEF O_AFT WATER_QNTY APÍ CMP_DT ACTIVITY 4709501418 11/15/1990 Water Flood

Production Gas Information: (Volumes in Mcf) * 2023 data for H6A wells only. Other wells are incomplete at this time.

RODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DCM
Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
	ennzoil Products Company ennzoil Products Company ennzoil Products Company ennzoil Products Company	ennzoil Products Company 1991 ennzoil Products Company 1992 ennzoil Products Company 1993 ennzoil Products Company 1994	ennzoil Products Company 1991 0 ennzoil Products Company 1992 0 ennzoil Products Company 1993 0 ennzoil Products Company 1994 0	ennzoil Products Company 1991 0 0 ennzoil Products Company 1992 0 0 ennzoil Products Company 1993 0 0 ennzoil Products Company 1994 0 0	ennzoil Products Company 1991 0 0 0 ennzoil Products Company 1992 0 0 0 ennzoil Products Company 1993 0 0 0 ennzoil Products Company 1994 0 0 0	ennzoil Products Company 1991 0 0 0 0 ennzoil Products Company 1992 0	ennzoil Products Company 1991 0 0 0 0 0 0 ennzoil Products Company 1992 0	ennzoil Products Company 1991 0<	ennzoil Products Company 1991 0<	ennzoil Products Company 1991 0<	ennzoil Products Company 1991 0<	ennzoil Products Company 1991 0<	ennzoil Products Company 1991 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ennzoil Products Company 1992 0 0 0 0 0 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 *2023 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
4709501418	Pennzoil Products Company	1991	_ 0	0	0	0	0	0	0	0	0	0	0	0	0
4709501418	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501418	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501418	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501418	Pennzoil Products Company	1995	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
4709501418	Dvtd Orgnl Loc	Little Lime	Well Record	2292	Reasonable	15	Reasonable	1232	Ground Level
4709501418	Dvtd Orgnl Loc	Big Lime	Well Record	2334	Reasonable	116	Reasonable	1232	Ground Level
4709501418	Dvtd Orgnl Loc	Big Injun (undiff)	Well Record	2450	Reasonable	142	Reasonable	1232	Ground Level
4709501418	Dvtd Orgnl Loc	Gordon	Well Record	3206	Reasonable	38	Reasonable	1232	Ground Level

- Wireline (E-Log) Information:
 * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

Well Operator's Report of Well Work

JONES, JOHN L./K. LELAND Operator Well No.: J. B. GORRELL 5 Farm name:

LOCATION: Elevation: 1232.00 Quadrangle: CENTER POINT

> District: MCELROY

County: TYLER
Feet South of 39 Deg. 27Min. 30 Sec.
Feet West of 80 Deg. 40 Min. 0 Sec. 1550 Latitude: 7150 Longitude

Company: PENNZOIL PRODUCTS COMPANY P. O. BOX 5519

VIENNA, WV 26105-5519

Agent: JAMES A. CREWS

Inspector: GLEN P. ROBINSON Permit Issued: 07/30/90 Well work Commenced: 10-1-90 Well work Completed: 11-15-90 Verbal Plugging Permission granted on: Rotary X Cable Total Depth (feet) 3285'

Salt water depths (ft)

Fresh water depths (ft)

Is coal being mined in area (Y/N)? Coal Depths (ft): N/A

Casing	Used in	Left	Cement Fill Up
Tubing	Drilling	in Well	Cu. Ft.
Size		<u> </u>	To
8-5/8	499.10	499.10	surface 365 Sks.
4-1/2	 3293.30	 3293.30	300 Sks.
 		<u> </u>	
		<u>'</u> 	 -
		 	<u> </u>

OPEN FLOW DATA

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.

> PRODUCTS COMPANY For: PENNZOIL

> > 1991 April

Timothy P. Roush

APR 19 (99)

Stimulation

Perforated: Gordon 3210-3220 - 10 holes

Treated w/300 gals. reg. HF acid, 292 Bbls. gelled water and 1500 # 80/100 and 3500 # 20/40 sand.

Well Log

Sand & Shale	00-398
Sand	398-498
Shale	498-672
Sand	672-696
Sand & Shale	696-972
Sand	972-1002
Sand & Shale	1002-1108
Sand	1108-1136
Shale	1136-1257
Sand	1257-1276
Shale	1276-1340
Sand	1340-1358
Shale	1358-1497
Sand	1497-1542
Shale	1542-1711
Sand	1711-1745
Sand & Shale	1745-1914
Sand	1914-1928
Shale	1928-1996
Sand	1996-2014
Shale	2014-2102
Sand	2102-2149
Shale	2149-2178
Sand	2178-2203
Shale	2203-2292
Little Lime	2292-2307
Shale	2307-2334
Big Lime	2334-2450
Big Injun	2450-2592
Shale	2592-3206
Gordon	3206-3244
Shale	3244-3285
T.D.	3285'



Select datatypes: \Box (Check All) Select County: (095) Tyler Production Plugging Location Enter Permit #: 1420 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc Contact Inform

WV Geological & Economic Survey:

Well: County = 95 Permit = 1420 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:24:38 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501420 | Tyler | 1420 | McElroy | Center Point | Centerpoint | 39.458125 | -80.693426 | 526374.7 | 4367662.1

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NU	I CO_NUI	/ LEASE	LEASE_NUM	MINERAL_OWN	N OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_PR
470950142	10/23/1990	Dvtd Orgnl Loc	Completed	Jerry Walters		8	M H Pennick	RG 2165-00	Pennzoil Co	Pennzoil Company
470950142	4/10/1992	Dvtd Wrkd Ovr	Completed	Jerry Walters		8	M H Pennick	RG 2165-00	Pennzoil Co	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 O	G_BEF G_
4709501420	10/23/1990	9/1/1990	852	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon		Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3015	3015	0
4709501420	4/10/1992	4/10/1992	852	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon		Service Well	Unsuccessful	Water Injection	unknown	Acid+Frac	3015	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
4709501420	4/10/1992	Water Flood	Injection	Deviated	2966	Gordon	2974	Gordon	0	0				
4709501420	10/23/1990	Water Flood	Injection	Deviated	2966	Gordon	2974	Gordon	0	0				

Production Gas Information: (Volumes in Mcf) * 2023 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
470950142	0 Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
470950142	0 Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
470950142	0 Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
470950142	0 Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
470950142	0 Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
470950142	0 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 *2023 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	ı
4709501420	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0	ı
4709501420	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0	ı
4709501420	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0	ı
4709501420	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0	ı
4709501420	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0	ı
4709501420	Pennzoil Products Company	1997	0	0	0	0	0	0	0	0	0	0	0	0	0	ı

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:

Stratigraph	y imormation								
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4709501420	Dvtd Orgnl Loc	Little Lime	Well Record	1994	Reasonable	16	Reasonable	852	Ground Level
4709501420	Dvtd Orgnl Loc	Big Lime	Well Record	2054	Reasonable	100	Reasonable	852	Ground Level
4709501420	Dvtd Orgnl Loc	Big Injun (undiff)	Well Record	2154	Reasonable	149	Reasonable	852	Ground Level
4709501420	Dytd Orani Loc	Gordon	Well Record	2042	Reasonable	58	Reasonable	852	Ground Level

Wireline (E-Log) Information:

There is no Plugging data for this well

^{*} There is no Scanned/Raster Log data for this well

^{*} There is no Digitized/LAS Log data for this well

^{*} There is no Scanned or Digital Logs available for download

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

REGEWED -90
Office of Cit 4420
Pelmitting w Division of

well Operator's R	eport of W	GIT MOLK	Edvilonment	al Protection
Farm name: WALTERS, JERRY	Operator	Well No.:	H.H. PENN	ICK 8 -
LOCATION: Elevation: 852.00 Quad	rangle: CE	NTER POINT		
District: MCELROY Latitude: 150 Feet Sou Longitude 7650 Feet Wes	th of 39	Deg. 27Min.	. 30 Sec.	· · · · · · · · · · · · · · · · · · ·
VIENNA, WV 26105-5519	ا ه ا	Used in Drilling		Cement Fill Up Cu. Ft.
Agent: JAMES A. CREWS	Size			To
Inspector: GLEN P. ROBINSON Permit Issued: 07/30/90 Well work Commenced: 9-1-90	8-5/8	210	210	surface 160 Sks.
Well work Completed: 10-23-90 Verbal Plugging Permission granted on:	4-1/2	2999.35	2999.35	300 Sks.
Rotary x Cable Rig Total Depth (feet) 3015 Fresh water depths (ft)				
Salt water depths (ft)				
Is coal being mined in area (Y/N)?N Coal Depths (ft): N/A				
OPEN FLOW DATA				
Producing formation Gordon Gas: Initial open flow * MCF, Final open flow * MCF, Time of open flow between in Static rock Pressurepsice	ntial and	rinar test	:5	2942-3000 Bb1/d Bb1/d Hours
Final open flow MCF, Time of open flow between in	d Oil: In: d Final Final Figure 1	Pay zone d itial open nal open fl final test pressure)	flow ow s	Bbl/d Bbl/d Hours Hours
* Not tested - liquid injection well.		- T.		
NOTE: ON BACK OF THIS FORM PUT THE INTERVALS, FRACTURING OR STIMULATING, LOG WHICH IS A SYSTEMATIC DETAILED INCLUDING COAL ENCOUNTERED BY THE WELL	PHYSICAL GEOLOGICAL	L CHANGE.	ETC. 2).	THE WELL
For: PENNZOII By: Date:/ A	PRODUCTS Pril 11, 199	Kul	Timothy F	. Roush

Stimulation

Perforated: Gordon 2966-2974 - 8 holes

Treated w/300 gal. reg. HF acid, 294 Bbls. gelled water and 1500# 80/100 & 3500# 20/40 sand.

Well Log

Sand & Shale	00-1510
Shale	1510-1566
Sand	1566-1586
Shale	1586-1596
Sand	1596-1643
Shale	1643-1662
Sand	1662-1645
Shale	1645-1780
Sand	1780-1815
Shale	1815-1824
Sand	1824-1842
Shale	1842-1994
Little Lime	1994-2010
Shalc	2010-2054
Big Lime	2054-2154
Big Injun	2154-239
Shale	2303-2942
Gordon	2942-3000
Shale	3000-3015
T.D.	3015 '



Enter Permit #: 1501		Location	Production	Plugging
		Location	- i loddolloll	riugging
Get Data Res	et	✓ Owner/Completion✓ Pay/Show/Water		Sample Btm Hole Loc

<u>Isage Notes</u> Contact Information Disclaimer WVGES Main

WV Geological & Economic Survey:

Well: County = 95 Permit = 1501 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:25:04 AM

Location Information: View Map

| API | COUNTY | PERMIT TAZ_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501501 | Tyler | 1501 | McElroy | Center Point | Centerpoint | 39.466004 | -80.691933 | 526500.2 | 4368536.9

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE_OWNER 4709501501 5/1/1993 Original Loc Completed Frances & C I Wadsworth WELL_NUM CO_NUM LEASE LEASE LEASE_NUM_MINERAL_OWN_OPERATOR_AT_COMPLETION_PROP_VD_PROP_TRGT_FM_TFM_EST_
Jasper Lemasters RG 2171-00 Don E Riddle Pennzoil Products Company

Completion Information:

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
 DEEPEST_FM
 DEEPEST_F DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AFT Unsuccessful Water Injection Rotary Acid+Frac Service Well 3220 3220

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 4709501501 5/11/1993 Horizon Injection Vertical 3086 Gordon 3091 Gordon 0 0

4709501501 Pennzoil Products Company 1995

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:

ou.aug.ap	<i>j</i>	o							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4709501501	Original Loc	Little Lime	Well Record	2210	Reasonable	14	Reasonable	1186	Ground Level
4709501501	Original Loc	Blue Monday	Well Record	2237	Reasonable	36	Reasonable	1186	Ground Level
4709501501	Original Loc	Big Lime	Well Record	2273	Reasonable	64	Reasonable	1186	Ground Level
4709501501	Original Loc	Big Injun (undiff)	Well Record	2337	Reasonable	166	Reasonable	1186	Ground Level
4709501501	Original Loc	Gordon	Well Record	3056	Reasonable	39	Reasonable	1186	Ground Level

Wireline (E-Log) Information:

* There is no Scanned/Raster Log data for this well

There is no Plugging data for this well

^{*} There is no Digitized/LAS Log data for this well

^{*} There is no Scanned or Digital Logs available for download

State of West Virginia Division of Environmental Protection 4709501501 Section of Oil and Gas

The state of the s

Permitting

Well Operator's Report of Well Work

Farm name: WADSWORTH, FRANCIS & C.I.

Operator Well No.: JASPER LEMASTERS #20

LOCATION:

Quadrangle: CENTER POINT

District: MCELROY

Elevation: 1186.00

Longitude 7,250

COUNTY: TYLER
Feet South of 39 Deg. 30Min. 0 Sec.
Feet West of 80 Deg. 40 Min. 0 Sec. Latitude: 12,350 Feet South of 39

Company: PENNZOIL PRODUCTS COMPANY

P. O. BOX 5519

VIENNA, WV 26105-5519

Agent: JAMES A. CREWS

Inspector: MIKE UNDERWOOD

Permit Issued:

Well work Commenced: Well work Completed:

09/03/92 05/01/93

Verbal Plugging

Permission granted on:

Rotary X Cable F Total Depth (feet) 3220

Rig

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	Used in		Cement
Tubing	Drilling	in Well	Fill Up Cu. Ft.
Size	 [
 			ļ
8-5/8"	450.59'	450.49'	To Surface 300 sks
 4-1/2" 	3173.60'	3173.60' 3	
		·	
			i

OPEN FLOW DATA (Water Injection Well)

Producing formation Gor	don Pay zone depth (ft) 3056-3095
Gas: Initial open flow	MCF/d Oil Tritial and fi
r riidt Opell Flow	MCF/d Dinal Cl
TIME OF OBEIL FLOW DEE	
Static rock Pressure	Deig (curfoce and
Second producing formation	Pay zono donth (st)
Gas: Initial open flow	MCE/d Oil Initial
Final open flow	MCP/A Pin 1
Time of open flow bots	ween initial and final tests Hours
Static rock Pressure	ween initial and final tests Hours
	psig (surface pressure) after Hours

THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED NOTE: ON BACK OF INTERVALS, FRACTURING OR STIMULATING, LOG WHICH IS A SYSTEMATIC DETAILED 9 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, Supervisor - Surveying/Mapping

Date: September 14, 1993

Treatment:

8

Perforated: Gordon w/10 holes 3086' - 3091'

Treated: w/300 gal. 15% HCL acid, 286 bbls. gelled water, 1500# 80/100 sand

and 3500# 20/40 sand.

Well Log

Sand & Shale	0	_	505
Shale	505	-	575
Sand & Shale			755
Shale	755	_	793
Limestone	793	-	890
Shale	890	-	1010
Limestone	1010	-	1020
Shale	1020	-	1062
Sand & Shale	1062	-	1210
Shale	1210	-	1414
Sand	1414	-	1480
Sand & Shale	1480	_	1620
Sand	1620	_	1675
Sand & Shale	1675	_	1815
Sand	1815	_	1884
Shale	1884	_	1988
Sand	1988	_	2150
Shale	2150	-	2210
Little Lime	2210	_	2224
Shale	2224	_	2237
Blue Monday	2237	_	2273
Big Lime	2273	_	2337
Big Injun	2337	_	2503
Shale	2503	_	3056
Gordon	3056	_	3095
T.D.	3220		

DF-411 OFT-419



Select datatypes: \Box (Check All) Select County: (095) Tyler Production Plugging Location Enter Permit #: 1506 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Pay/Show/Water Logs Btm Hole Loc

<u>Jsage Notes</u> Contact Information Disclaime

WV Geological & Economic Survey:

Well: County = 95 Permit = 1506 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:25:37 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501506 | Tyler | 1506 | McElroy | Center Point | Centerpoint | 39.469629 | -80.681831 | 527367.8 | 4368942.3

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE_OWN 4709501506 12/14/1992 Original Loc Completed James L McCoy STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLET
67696-00 Pennzoil Products Co et al Pennzoil Products Company OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_ES

Completion Information:

DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_A Unsuccessful Water Injection Rotary Acid+Frac Service Well 3190

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_QN	ITY
4709501506	12/14/1992	Horizon	Injection	Vertical	3046	Gordon	3050	Gordon	0	0				
4709501506	12/14/1992	Horizon	Injection	Vertical	3054	Gordon	3062	Gordon	0	0				
4709501506	12/14/1992	Horizon	Injection	Vertical	3066	Gordon	3077	Gordon	0	0				

Production Gas Information: (Volumes in Mcf) * 2023 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	ост	NOV	DCM
4709501506	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501506	Pennzoil Products Company	1995	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 *2023 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
4709501506	Pennzoil Products Company	1994	_ 0	0	0	0	0	0	0	0	0	0	0	0	0
4709501506	Pennzoil Products Company	1995	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
4709501506	Original Loc	Gordon	Well Record	3025	Reasonable	59	Reasonable	1150	Ground Level

- Wireline (E-Log) Information:
 * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

26-Oct-92 API # 47- 95- 01506 s

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

Well Operator's Report of Well Work Farm name Sign McCOY, JAMES L.

93

RECEIVED

Office of Oil & One

Operator Well No.: LEMASTERS X-12

LOCATION: Elevation: 1150.00

> District: MCELROY

Quadrangle: CENTER POINT

Latitude: 11000 Feet South of 39 Deg. 30Min. 0 Sec. Longitude 4350 Feet West of 80 Deg. 40 Min. 0 Sec. County: TYLER

Company: PENNZOIL PRODUCTS COMPANY				
P. O. BOX 5519 VIENNA, WV 26105-5519	Casing	Used in	Left	Cement
Agent: JAMES A. CREWS	Tubing	Drilling	in Well	Fill Up
Inspector: MIKE UNDERWOOD Permit Issued: 10/26/92 Well work Commenced: 11/19/92	Size			
Well work Completed: 12/14/92 Verbal Plugging Permission granted on:	8 5/8 	441.0	441.0	To Surface
Rotary X Cable Rig Total Depth (feet) 3190' Fresh water depths (ft) N/A	4 1/2	3160.25	3160.25	300 Sks.
Salt water depths (ft) N/A				
Is coal being mined in area (Y/N)? N Coal Depths (ft): N/A				
OPEN FLOW DATA (Water Injection We	 ⊇11)			
Producing formation Gordon Gas: Initial open flow MCF/ Final open flow MCF/ Time of open flow between in	d OII: In	Pay zone ditial open	flow	3025' - 30 Bbl/d Bbl/d

184 low between initial and final tests Static rock Pressure _____psig (surface pressure) after Hours Second producing formation Pay zone depth (formation MCF/d Oil: Initial open flow Final open flow MCF/d Final open flow Time of open flow between initial and final tests Pay zone depth (ft) Bbl/d 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	23 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -
Reviewed TM6 Recorded		By:	Timothy P. Roush Supervisor - Surveying, 3-3-93	/Mapping

TREATMENT

PERFORATED:

Gordon w/16 Holes 3046' - 3050'

3054' - 3062' 3066' - 3077'

Treated w/300 Gal. Reg. H.F. Acid, 271 Bbl. Gelled Water, 1500# 80/100 & 3500# 20/40 Sand

WELL LOG

Sand &	Shale	0	_	475
Sand		475	_	490
Sand &	Shale	490	_	690
Sand		690	_	710
Sand &	Shale	710	_	1140
Sand		1140		1170
Sand &	Shale	1170	_	1370
Sand		1370	-	1425
Shale		1425	_	1465
Sand		1465	_	1540
Shale		1540	_	1760
Sand		1760	_	1800
Sand &	Shale	1800	-	1880
Shale		1880	_	1970
Sand		1970	-	2020
Shale		2020	_	2275
Sand		2275	-	2465
Shale		2465	_	3025
${\tt Gordon}$		3025	-	3084
T.D.		3190		





Select County:	(095) Tyler	~	Select datatypes: (Check All)	
Enter Permit #:	1509		Location	Production	Plugging
Get Data	Reset		Owner/Completion	Stratigraphy	Sample
Get Data	Reset		✓ Pay/Show/Water	Logs	✓ Btm Hole Loc

Usage Notes Contact Information Disclaimer

WV Geological & Economic Survey:

Well: County = 95 Permit = 1509 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:26:18 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501509 | Tyler | 1509 | McElroy | Center Point | Centerpoint | 39.463394 | 80.683139 | 527257.7 | 4368249.8

There is no Bottom Hole Location data for this well

Owner Information:

SUFFIX LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLET
67696-00 Pennzoil Products Co et al Pennzoil Products Company OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM S P Lemasters

Completion Information:

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
 DEEPEST_FM
 DEEPES

 4709501509
 12/31/1992
 12/9/1992
 911
 Ground Level
 Jksnbg-Strngtwn
 Hampshire Grp
 Gordon
 DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AI Unsuccessful Water Injection Rotary Acid+Frac Service Well 2985

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 4709501509 12/31/1992 Water Flood Injection Deviated 2914 Gordon 2924 Gordon 0 0

4709501509 Pennzoil Products Company 1995

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 4709501509 Dvtd Orgnl Loc Gordon Well Record 2900 Reasonable 50 Reasonable 911 Ground

Wireline (E-Log) Information:

* There is no Scanned/Raster Log data for this well

* There is no Digitized/LAS Log data for this well

* There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

Timothy P. Roush

Supervisor - Surveying/Mapping

By:

Date: 3-3-93

Reviewed

Recorded

TREATMENT

PERFORATED:

Gordon w/10 Holes 2914' - 2924'
Treated w/300 Gal. Reg. H.F. Acid, 260 Bbls. Gelled Water & 1500# 80/100 & 3500# 20/40 Sand

WELL LOG

(Measured Depths Directionally Drilled)

Sand 8	S _e	Shale	0	_	800
Sand			800	_	830
Sand 8	S.	Shale	830	_	1185
Sand			1185	_	1220
Sand 8	S _e	Shale	1220	_	1370
Sand			1370	-	1415
Shale			1415	_	1430
Sand			1430	_	1480
Sand 8	Se	Shale	1480	-	1580
Sand			1580	-	1650
Sand 8	S _e	Shale	1650	-	1780
Sand			1780	_	1845
Shale			1845		1880
Sand			1880	_	1920
Sand 8	&	Shale	1920	_	2050
Sand			2050	_	2295
Shale			2295	_	2900
Gordon	n		2900	_	2950
T.D.			2985		

00-411 00-1-419 Permitting

$\mathsf{WVGES}\ \mathsf{O\&G}\ \mathsf{Record}\ \mathsf{Reporting}\ \mathsf{System} \\ \mathbf{4709501510}$



Select datatypes: \Box (Check All) Select County: (095) Tyler Production Plugging Location Enter Permit #: 1510 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ✓ Pay/Show/Water Logs Btm Hole Loc

<u>Jsage Notes</u> Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 95 Permit = 1510 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:26:43 AM

Location Information: View Map

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_E
4709501510	6/3/1993 Original Loc	Completed	Paul M Haynes	M-10		S P Lemasters	67696-00 Pennzoil Products Co et al	Pennzoil Products Company
4709501510	8/17/2011 Worked Ov	er Completed	Mark F Talkington	M-10		SP I emasters	67696-00 Fast Resources Inc et al	Fast Resources Inc

Completion Information:

- [API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_F	MT INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD NEW_FTG	KOD G_BEF	G_AF
- 1	4709501510	6/3/1993	2/6/1993	1114	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3142	3142	0	
- 1	4709501510	8/17/2011	8/15/2011	1114	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3142	0		
- 7		0/47/004	4 1	-													

Comment: 8/17/2011 No open flow data reported.

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
4709501510	6/3/1993	Horizon	Injection	Vertical	3028	Gordon	3038	Gordon	_ 0	_ 0				-
4709501510	8/17/2011	Horizon	Injection	Vertical	3020	Gordon	3040	Gordon						

Production Gas Information: (Volumes in Mcf) * 2023 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	ост	NOV	DCM	
4709501510	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0	
4709501510	Pennzoil Products Company	1995	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 *2023 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
4709501510	Pennzoil Products Company	1994	_ 0	0	0	0	0	0	0	0	0	0	0	0	0
4709501510	Pennzoil Products Company	1995	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:

Stratigraph	y iiiiOiiiiau	OH.							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4709501510	Original Loc	Little Lime	Well Record	2161	Reasonable	16	Reasonable	1114	Ground Level
4709501510	Original Loc	Big Lime	Well Record	2203	Reasonable	55	Reasonable	1114	Ground Level
4709501510	Original Loc	Big Injun (undiff)	Well Record	2258	Reasonable	179	Reasonable	1114	Ground Level
4700501510	Original Loc	Gordon	Well Record	2001	Peaconable	53	Peaconable	111/	Ground Level

- Wireline (E-Log) Information:
 * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

01/18/2011 **/**47 095 01510 **F**

API#

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

Well Operator's Report of Well Work

Farm name:	TALKINGT	ON, MARK	Оре	erator Wel	ll No.: S. P.	LEMASTERS	M-10
LOCATION:	Elevation:	1,114.00		drangle:		POINT 7.5'	
	District: Latitude: Longitude:	MCELROY 12,700 Feet south 2,300 Feet west o	of 39	nty: TY Deg 30 Deg 40	LER Min 0	Sec. Sec.	
Company:	P.O. BOX 55	URCES, INC. 19 V 26105-5519		Casing/ tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Agent:	PHILIP S. O	NDRUSEK				III WOII	Ca. Ft.
Inspector: Permit Issued: Well work Com Well work Com Verbal plugging	pleted:	R 01/18/11 08/15/11 08/17/11					
permission grant	ted on: Cablet)	Rig 3142 NONE		8 5/8"	393.50'	220'	150 sks
Salt water depths	•	NONE		4 1/2"	3083,25'	3083.25'	300 sks
Is coal being min Coal Depths (ft):	ned in area (Y/)	N) N NONĒ					
OPEN FLOW D	ATA	*WATERFLOOD INJE	ECTOR				
Gas:	ng formation Initial open flow Final open flow Time of open ock pressure	Gordon w * 1 v * 1 flow between initial a	n MCF/d MCF/d and final	Oil: Initia	Pay zone de al open flow lopen flow sure)	pth (ft) Hours	
Gas: I	oroducing form Initial open flow Final open flow Fime of open ok pressure	w / Iflow between initial a	MCF/d nd final	Oil Initia	Pay zone den l open flow open flow open flow sure)	- · · · · · -	Bbl/d Bbl/d Hours
orangonining,	TITIOIONE CIT	OUT THE FOLLOWING: 1) ANGE, ETC. 2) THE WELL DRMATIONS, INCLUDING	DETAILS	OF PERFO	PRATED INTE SYSTEMATIC RED BY THE	(- 10) - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
		For: EAST R By: Date:	ESOUR(CES, INC	En / Ver	Le la la la la la la la la la la la la la	

95.01510 F

Treatment:

Swabbed well -spotted 500 gals 15%HCL - loaded well with fresh water- perforated Gordon

3020'-3040'- shot perforations with gas gun

returned well to injection

Well Log:

SEE ORIGINAL WELL RECORD

rv Lift

$\mathsf{WVGES}\ \mathsf{O\&G}\ \mathsf{Record}\ \mathsf{Reporting}\ \mathsf{System}\ 4709501511$



Select datatypes: \Box (Check All) Select County: (095) Tyler Production Plugging Location Enter Permit #: 1511 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

<u>Jsage Notes</u> Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 95 Permit = 1511 Link to all digital records for <u>well</u>

Report Time: Thursday, November 30, 2023 9:27:04 AM

Location Information: View Map

There is no Bottom Hole Location data for this well

Owner Information:

AP	ગ	CMP_DT	SUFFIX	STATUS	SURFACE_OWN	NER WELL	_NUM CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD PROP_TRGT_FM	TFM_ES
47	09501511	5/1/1993	Original Loc	Completed	Donald L McCoy	M-12		L J Lemasters	67696-00	Pennzoil Products Co et al	Pennzoil Products Company		
47	09501511	-/-/-	Worked Over	Cancelled	Donald L McCov	M-12		I II emasters	67696-00	H.G. Energy I.I.C. et al.	HG Energy LLC	3050 Gordon	

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_	CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD NE	W_FTG	KOD G	_BEF (3_AFT
4709501511	5/1/1993	1/4/1993	1033	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service V	Vell	Unsuccessful	Water Injection	Rotary	Acid+Frac	3050		3050		0	0
4709501511	-/-/-	-/-/-	1033	Ground Level															

Pay/Show/Water Information:

4709501511 Pennzoil Products Company

API CMP_DT ACTIVITY PRODUCT SECTION DEPTH_TOP FM_TOP DEPTH_BOT FM_BOT G_BEF G_AFT O_BEF O_AFT WATER_QNTY 4709501511 5/1/1993 Horizon Injection Vertical 2948 Gordon 2958 Gordon 0 0

Other wells are incomplete at this time. 0 0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2023 data for H6A wells only. Other wells are incomplete at this time. 4709501511 Pennzoil Products Company

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:

Changraph	y innominati	011.							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4709501511	Original Loc	Little Lime	Well Record	2072	Reasonable	14	Reasonable	1033	Ground Level
4709501511	Original Loc	Big Lime	Well Record	2114	Reasonable	53	Reasonable	1033	Ground Level
4709501511	Original Loc	Big Injun (undiff)	Well Record	2167	Reasonable	188	Reasonable	1033	Ground Level
4709501511	Original Loc	Gordon	Well Record	2914	Reasonable	56	Reasonable	1033	Ground Level

There is no Plugging data for this well

Wireline (E-Log) Information:
* There is no Scanned/Raster Log data for this well

^{*} There is no Digitized/LAS Log data for this well

^{*} There is no Scanned or Digital Logs available for download

State of West Virginia Division of Environmental Protection 4709501511

Well Operator's Report of Well Work

Farm name: McCOY, DONALD L. Operator Well No.: LEMASTERS M-12 Elevation: 1033.00 LOCATION: Quadrangle: CENTER POINT District: MCELROY Latitude: 10800 Feet South of 39 Deg. 30Min. 0 Sec. County: TYLER Longitude 2150 Feet West of 80 Deg. 40 Min. 0 Sec. Company: PENNZOIL PRODUCTS COMPANY P. O. BOX 5519 Casing | Used in VIENNA, WV 26105-5519 Left |Fill Up Tubing | Drilling | in Well|Cu. Ft. Agent: JAMES A. CREWS Size Inspector: MIKE UNDERWOOD Permit Issued: 11/02/92 Well work Commenced: 01/04/93 Well work Completed: 05/01/93 Verbal Plugging Permission granted on: 8-5/8" 3091 3091 140 sks. Rotary X Cable Ri Total Depth (feet) 3050' 4-1/2" 3038.75 Fresh water depths (ft) N/A 3038.75 300 sks. Salt water depths (ft) Is coal being mined in area (Y/N)?N Coal Depths (ft): ____ N/A OPEN FLOW DATA (Water Injection Well) Producing formation Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d Final open flow Bbl/d Final open flow Bbl/d Gordon Time of open flow between initial and final tests Static rock Pressure_____psig (surface pressure) after _ Hours Hours Second producing formation__ Gas: Initial open flow MCF/d Oil: Initial open flow Final open flow MCF/d Final open flow Time of open flow between initial and final tests Pay zone depth (ft) Bbl/d Bbl/d Static rock Pressure _____psig (surface pressure) after _ Hours Hours NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE EEC 1/12 1. THE WELL INCLUDING COAL ENCOUNTERED BY THE WELLBORE. INCLUDING COAL ENCOUNTERED BY THE WELLBORE. NOV 202013 For: PENNZOIL PRODUCTS COMPANY By: Timothy P. Roush, Supervisor Ton Surveying/Mapping Date: September 14, 1993

Treatment

Perforated: Gordon w/20 holes 2948' - 2958'

w/300 gal. 15% HCL acid, 275 bbls gelled water, 1500# 80/100 sand and 3500# 20/40 sand. Treated:

Well Record

Sand and Shale	0 -	. 497
Shale	497 -	694
Limestone	694 -	745
Shale		860
Limestone		870
Shale		913
Sand and Shale		1062
Shale Shale	1062 -	
Sand	1238 -	
Shale	1284 -	
Sand	1454 -	
Shale	1806 -	
Sand	1875 -	
Shale	1982 -	
Little Lime	2072 -	
Shale	2086 -	
Big Lime	2114 -	
Big Injun	2114 -	
Shale		
Gordon	2355 -	
T.D.	2914 -	29/0
· •	3050	

$\mathsf{WVGES}\ \mathsf{O\&G}\ \mathsf{Record}\ \mathsf{Reporting}\ \mathsf{System} \\ \mathbf{4709501512}$



Select County: (095) Tyler 💙	Select datatypes: (Check All)	
Enter Permit #: 1512	2	Location	Production	Plugging
Get Data Re	eset	Owner/Completion		Sample
Get Data Tre	361	✓ Pay/Show/Water	Logs	✓ Btm Hole Loc

<u>Jsage Notes</u> Contact Information

WV Geological & Economic Survey:

Well: County = 95 Permit = 1512 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:27:24 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501512 | Tyler | 1512 | McElroy | Center Point | Centerpoint | 39.474415 | -80.67547 | 527913 | 4369475.3

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
4709501512	5/1/1993	Dvtd Orgnl Loc	Completed	Donald L McCoy	M-14			C C Pennick	67696-00	Penzoil Products Co et al	Pennzoil Products Company			
4709501512	_/_/_	Dytd Wrkd Ovr	Cancelled	Donald I McCay	M-14			C.C. Pennick		H.G. Energy I.I.C. et al.	HG Energy LLC	3136 Gordon		

Completion Information:

ADI		OMD DT	ADUD DT	E1 E1/	DATUM	FIEL D	DEEDEOT EM	DEEDEAT F			FINIAL OLAGO	TVDE	DIO	OMD MITHE	TVD	TMD A	IEM ETO	1/0 D 0	DEE O A	=
API		CIMIP_DI	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEELES!"L	-WII INIII <i>P</i>	L_CLASS	FINAL_CLASS	ITPE	RIG	CMP_MTHD	IVD	IND	IEW_FTG	KOD G_	BEF G_A	
4709	501512	5/1/1993	12/20/1992	1030	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Servic	e Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3136		3136		0	
4700	501512	_1_1_	-1-1-	1030	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
4709501512	5/1/1993	Water Flood	Injection	Deviated		3024	Gordon	3026	Gordon	_ 0	_ 0				
4709501512	5/1/1993	Water Flood	Injection	Deviated		3029	Gordon	3039	Gordon	0	0				

Production Gas Information: (Volumes in Mcf) * 2023 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
4709501512	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501512	Pennzoil Products Company	1995	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 *2023 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
4709501512	Pennzoil Products Company	1994	_ 0	0	0	0	0	0	0	0	0	0	0	0	0
4709501512	Pennzoil Products Company	1995	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:

ag. ap	,								
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4709501512	Dvtd Orgnl Loc	Little Lime	Well Record	2130	Reasonable	14	Reasonable	1030	Ground Level
4709501512	Dvtd Orgnl Loc	Big Lime	Well Record	2172	Reasonable	53	Reasonable	1030	Ground Level
4709501512	Dvtd Orgnl Loc	Big Injun (undiff)	Well Record	2225	Reasonable	189	Reasonable	1030	Ground Level
4709501512	Dvtd Orgnl Loc	Gordon	Well Record	2994	Reasonable	60	Reasonable	1030	Ground Level

Wireline (E-Log) Information:

There is no Plugging data for this well

^{*} There is no Scanned/Raster Log data for this well

^{*} There is no Digitized/LAS Log data for this well

^{*} There is no Scanned or Digital Logs available for download

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

4709501512

Well Operator's Report of Well Work

raim name:	MCCOY, DONALD]	٠.	Operator	Well No.:	C. C. PENNI	CK M-14
LOCATION:	Elevation:	.030' Qua	drangle: C	ENTER POINT		
	Latitude:	MCELROY 9,200 Feet So 2,550 Feet We	11th of 39	Dea 30Min	0 0	·
Company: PE	NNZOIL PRODUC	TS COMPANY				
P.	O. BOX 5519 ENNA, WV 261		&	Used in Drilling	j.	Cement Fill Up
Agent: JA	MES A. CREWS					Cu. Ft.
Permit Issu Well work (MIKE UNDERWOued: 11	/02/92 /20/92	Size	 	 	
Verbal Plug Permission	granted on:		8-5/8"	307.55'	307.55'	140 sks.
Rotary X Total Depth	Cable 313 (feet) 313 (depths (ft)	Rig 6'	4-1/2"	3082.45	3082.45'	300 sks.
Salt water	depths (ft)	N/A				
Is coal bei Coal Depths	ing mined in s (ft):	area (Y/N)? <u>N</u> N/A				
OPEN FLOW I	OATA (Water In	jection Well)				
Produc Gas: I F Statio	cing formatio Initial open Final open fl Time of open Crock Pressu	n Gordon flow MC ow MC flow between re ps	F/d Oil: Ir F/d Fi initial and ig (surface	Pay zone ditial open for final tes pressure)	depth (ft) flow low ts after	Bbl/d Bbl/d Hours Hours
Gas: 1	nitial open Tinal open fl	ow MC1	F/d Oil: Ir F/d Fi	Pay zone on the state of the st	flow	Bbl/d Bbl/d
Statio	: rock Pressu	flow between reps:	initial and ig (surface	pressure)	after	Hours
LOG WHICH	FRACTURING IS A SYSTEM	FORM PUT THE OR STIMULATING ATIC DETAILED RED BY THE WEI	FOLLOWING G, PHYSICA GEOLOGICA LEBORE	G: 1). DETAL CHANGE,	ALL FOR	ERFORATED THE WELL MATIONS,
		For: PENNZO	IL PRODUCTS	COMPANY	William Co.	
		By: Ti	mothy P. Rou	sh, Superviso	r - Śurveyi	ng/Mapping

Treatment

Perforated: Gordon w/4 holes 3024' - 3026' w/20 holes 3029' - 3039'

w/300 gal. 15% HCL acid, 278 bbls. gelled water, 1500# 80/100 sand Treated:

and 3500# 20/40 sand

Well Log (Measured depths)

(Well was directionally drilled)

Shale	.0	_	350
Sand and Shale	350	_	596
Shale	596	_	695
Limestone	695	_	735
Shale			865
Sand and Shale			1120
Sand			1160
Sand and Shale			1290
Shale			1475
Sand			1596
Shale			1675
Sand	1675		
Shale			1922
Sand and Shale	1922		
Shale			
Little Lime	2035		
Shale	2130		
	2144		
Big Lime	2172	-	2225
Big Injun	2225	-	2414
Shale	2414	_	2994
Gordon	2994		
T.D.	3136		



Select County: (095) Tyler Select datatypes: (Check All) Location Production Plugging Enter Permit #: 1515 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Logs ✓ Pay/Show/Water ✓ Btm Hole Loc

<u>Jsage Notes</u> Contact Information Disclaimer

WV Geological & Economic Survey:

Well: County = 95 Permit = 1515 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:28:16 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501515 | Tyler | 1515 | McElroy | Center Point | Centerpoint | 39.459624 | -80.678087 | 527693.8 | 4367833 |

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE 4709501515 2/16/1993 Original Loc Completed Pennzoil Products Co L-8 Christin LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLET
Pennzoil Products Co et al Pennzoil Products Company OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_ Christina McCoy

Completion Information:

DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AF Unsuccessful Water Injection Rotary Acid+Frac Service Well 3005

Production Gas Information: (Volumes in Mcf) * 2023 data for H6A wells only. Other wells are incomplete at this time.

4709501515 East Resources, Inc. 2006 1.779 186 133 132 169 135 170 139 166 130 115 170

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil *2023 data for H6A wells only. Other wells are incomplete at this time.

- 1	API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
- 1	4709501515	Pennzoil Products Company	1994	_ 0	0	0	0	0	0	0	0	0	0	0	0	0
- 1	4709501515	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
	4709501515	East Resources, Inc.	2006	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:

Stratigraph	y iriioimau	JII.							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4709501515	Original Loc	Little Lime	Well Record	2050	Reasonable	14	Reasonable	1000	Ground Level
4709501515	Original Loc	Big Lime	Well Record	2094	Reasonable	78	Reasonable	1000	Ground Level
4709501515	Original Loc	Big Injun (undiff)	Well Record	2172	Reasonable	150	Reasonable	1000	Ground Level
4700501515	Original Loc	Gordon	Well Record	2874	Peaconable	60	Peaconable	1000	Ground Level

Wireline (E-Log) Information:

There is no Plugging data for this well

^{*} There is no Scanned/Raster Log data for this well

^{*} There is no Digitized/LAS Log data for this well

^{*} There is no Scanned or Digital Logs available for download

Agrica William Comments State of West Virginia
Division of Environmental Protection 4709501515 Office of Oil & Cos

Well Operator's Report of Well Work

Farm name: PENNZOIL PRODUCTS COMPANY

Operator Well No.: C. McCOY L-8

LOCATION: Elevation: 1,000.00

Quadrangle: CENTER POINT District:

District: MCELROY County: TYLER
Latitude: 14,550 Feet South of 39 Deg. 30Min. 0 Sec.
Longitude 3,300 Feet West of 80 Deg. 40 Min. 0 Sec.

Company: PENNZOIL PRODUCTS COMPANY P. O. BOX 5519 VIENNA, WV 26105-5519

Agent: JAMES A. CREWS

Inspector: MIKE UNDERWOOD Permit Issued: 01/08/93 Well work Commenced: 01/09/93 Well work Completed: 02/16/93 Verbal Plugging Permission granted on:

Rotary X Cable

Total Depth (feet) 3005 Fresh water depths (ft) N/A

Salt water depths (ft)

Is coal being mined in area (Y/N)? N
Coal Depths (ft): N/A

Casing	Used in	Left	Cement
Tubing	Drilling	in Well	Fill Up Cu. Ft.
Size			
8-5/8" 	309.40'	309.40	150 sks.
4-1/2"	2984.35'	2984.35	300 sks.

OPEN FLOW DATA (Water Injection Well)

> Producing formation Gordon Pay zone depth (ft) 2874-2934
>
> 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 Producing formation_ Static rock Pressure_ ____psig (surface pressure) after 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

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.

Static rock Pressure _____psig (surface pressure) after

For: PENNZOIL PRODUCTS COMPANY

Timothy P. Roush, Supervisor, Surveying/Mapping

Date: September 14, 1993

SEP 1 6 1933

Treatment

Perforated: Gordon w/20 holes 2906' - 2916'

Treated: w/300 gal. reg. HF acid, 266 bbls. gelled water, 1500# 80/100 sand and 3500# 20/40 sand.

Well Log

Sand	0	_	60
Shale	60	-	134
Sand and Shale	134	-	460
Shale	460	-	593
Sand	593	_	630
Limestone	630	_	695
Shale	695	-	815
Limestone	815	-	830
Shale	830	_	870
Sand	870	-	895
Shale	895	-	1008
Sand	1008	_	1022
Shale	1022	_	1220
Sand	1220	_	1276
Shale	1276	_	1364
Sand	1364	_	1686
Shale	1686	-	1733
Sand	1733	-	1766
Shale	1766	-	1832
Sand	1832	_	1870
Shale	1870	_	2050
Little Lime	2050	_	2064
Shale	2064	-	2094
Big Lime	2094	_	2172
Big Injun	2172	_	2322
Shale	2322	_	2874
Gordon	2874		
T.D.	3005		



Select County: (095) Tyler Select datatypes: (Check All) Location Production Plugging Enter Permit #: 1524 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Logs ✓ Pay/Show/Water ✓ Btm Hole Loc

Usage Notes Contact Information Disclaimer

WV Geological & Economic Survey:

Well: County = 95 Permit = 1524 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:28:47 AM

Location Information: View Map

| API | COUNTY PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501524 | Tyler | 1524 | McElroy | Center Point | Centerpoint | 39.460494 | -80.673597 | 528079.7 | 4367930.9 |

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE_OWNER WEI 4709501524 10/20/1993 Original Loc Completed Earl & Edith Glover M-9 STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLET
57107-00 Pennzoil Products Co Pennzoil Products Company OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_PR Nancy Allen

Completion Information:

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
 DEEPEST_FM
 DEEPES

 4709501524
 10/20/1993
 8/5/1993
 1355
 Ground Level
 Jksnbg-Strngtwn
 Hampshire Grp
 Gordon
 DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AI Unsuccessful Water Injection Rotary Acid+Frac Service Well 3326

Pay/Show/Water Information:

PRODUCT SECTION DEPTH_TOP FM_TOP DEPTH_BOT FM_BOT G_BEF G_AFT O_BEF O_AFT WATER_QNTY
 API
 CMP_DT
 ACTIVITY
 PRODUCTION

 4709501524
 10/20/1993
 Water Flood
 Injection

4709501524 Pennzoil Products Company 1995

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:

Changraph	y innominati	J11.							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4709501524	Original Loc	unidentified coal	Well Record	673	Reasonable	13	Reasonable	1355	Ground Level
4709501524	Original Loc	Little Lime	Well Record	2395	Reasonable	13	Reasonable	1355	Ground Level
4709501524	Original Loc	Big Lime	Well Record	2438	Reasonable	10	Reasonable	1355	Ground Level
4709501524	Original Loc	Big Injun (undiff)	Well Record	2498	Reasonable	168	Reasonable	1355	Ground Level
4709501524	Original Loc	Berea Ss	Well Record	3022	Reasonable	8	Reasonable	1355	Ground Level
4709501524	Original Loc	Gordon Stray	Well Record	3225	Reasonable	74	Reasonable	1355	Ground Level
4709501524	Original Loc	Gordon	Well Record	3245	Reasonable	32	Reasonable	1355	Ground Level

Wireline (E-Log) Information:

There is no Plugging data for this well

^{*} There is no Scanned/Raster Log data for this well

^{*} There is no Digitized/LAS Log data for this well

^{*} There is no Scanned or Digital Logs available for download

State of West Virginia Division of Environmental Protection 4709501524 Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: GLOVER, EARL & EDITH Operator Well No.: NANCY ALLEN M-9LOCATION: Elevation: 1,355.00 Quadrangle: CENTER POINT District: MCELROY County: TYLER
Deg. 30Min.
Deg. 40 Min. Latitude: 14200 Feet South of 39 Sec. Longitude 2050 Feet West of 80 Sec. Company: PENNZOIL PRODUCTS COMPANY P. O. BOX 5519 Casing | Used in | Left VIENNA, WV 26105-5519 |Cement | æ |Fill Up| Tubing | Drilling | in Well|Cu. Ft. Agent: JAMES A. CREWS Size To Surface Inspector: MIKE UNDERWOOD Permit Issued: 03/24/93 8-5/8 645' 6451 50 sks. Well work Commenced: 08/05/93 Well work Completed: _10/20/93 Verbal Plugging Permission granted on: Rotary x Cable Total Depth (feet) 3326 Riq 4-1/2 3316.80 3316.80 | 300 sks. Fresh water depths (ft) Salt water depths (ft) N/A Is coal being mined in area (Y/N)? N Coal Depths (ft): 673' OPEN FLOW DATA WATER INJECTION WELL Producing formation Gordon Pay zone depth (ft) 3245'-3277'

MCF/d Oil: Initial open flow Bbl/d Gas: Initial open flow Final open flow MCF/d Final open flow Time of open flow between initial and final tests Bbl/d Hours Static rock Pressure ___psig (surface pressure) after Hours Second producing formation Gas: Initial open flow MCF/d Oil: Initial open flow MCF/d Final open flow Final open flow MCF/d Bbl /d Time of open flow between initial and final tests Static rock Pressure __psig (surface pressure) after Hours NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS,

For: PENNZOIL COMPANY Bv: Date: 7/8/94

TREATMENT

Perforated: Gordon with 16 holes 3260' - 3268'.

Treated with 300 gals. 15% HCL, 317 bbls. gelled water

and 7000# 20/40 sand.

WELL LOG

Sand & Shale	0	_	673
Coal	673	_	686
Sand & Shale	686	-	1774
Sand	1774	_	1800
Shale	1800	_	1850
Sand	1850	_	1888
Sand & Shale	1888	_	2218
Shale	2218	-	2395
Little Lime	2395	_	2408
Shale	2408	_	2438
Big LIme	2438	_	2448
Shale	2448	_	2498
Big Injun	2498		2666
Shale	2666	_	3022
Berea	3022	_	3030
Shale	3030	_	3225
Stray	3225	_	3299
Shale	3229	_	3245
Gordon	3245	_	3277
T.D.	3326		

21011



Select datatypes: \Box (Check All) Select County: (095) Tyler Production Plugging Location Enter Permit #: 1530 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc <u>Jsage Notes</u> Contact Information

WV Geological & Economic Survey:

Well: County = 95 Permit = 1530 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:29:15 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX, DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501530 | Tyler | 1530 | McElroy | Center Point | Centerpoint | 39.457138 | -80.70324 | 525530.8 | 4367549.7

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL	NUM CO_N	IUM LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD F	ROP_TRGT_	FM TFM_E	ST_PF
4709501530	11/20/1993	Original Loc	Completed	Edwin J Kinney	D-7		W J Wharton	13256-50	Pennzil Products Co	Pennzoil Products Company				
4709501530	2/1/2010	Worked Over	Completed	Edwin I Kinney	D-7		W.I.Wharton	13256-50	Fast Resources et al.	Fast Resources Inc	3021 (Cordon		

Completion Information:

API		CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FM	T INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD TN	ID NEW_FTG KOD	G_BEF G_/
4709	501530	11/20/1993	5/23/1993	1013	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3021	3021	0
4709	501530	2/1/2010	2/1/2010	1013	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Development Well	Unsuccessful	Dry	Rotary	Acid+Frac	3021	0	

Comment: 2/1/2010 waterflood producer, may not be unsuccessful

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
4709501530	11/20/1993	Horizon	Injection	Vertical	2896	Gordon	2902	Gordon	0	0				
4709501530	11/20/1993	Dry	None	Vertical	2914	Gordon	2924	Gordon	0	0				
4709501530	2/1/2010	Drv	None	Vertical	2896	Gordon	2924	Gordon						

Production Gas Information: (Volumes in Mcf) * 2023 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
4709501530	Pennzoil Products Company	1994	_ 0	0	0	0	0	0	0	0	0	0	0	0	0
4709501530	Pennzoil Products Company	1995	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 *2023 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
4709501530	Pennzoil Products Company	1994	_ 0	0	0	0	0	0	0	0	0	0	0	0	0
4709501530	Pennzoil Products Company	1995	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:

Stratigraph	y iiiioiiiiau	UII.							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4709501530	Original Loc	Big Injun (undiff)	Well Record	2014	Reasonable	278	Reasonable	1013	Ground Level
4709501530	Original Loc	Berea Ss	Well Record	2660	Reasonable	4	Reasonable	1013	Ground Level
4709501530	Original Loc	Gordon Stray	Well Record	2865	Reasonable	21	Reasonable	1013	Ground Level
4709501530	Original Loc	Gordon	Well Record	2886	Reasonable	34	Reasonable	1013	Ground Level

Wireline (E-Log) Information:

There is no Plugging data for this well

^{*} There is no Scanned/Raster Log data for this well

^{*} There is no Digitized/LAS Log data for this well

^{*} There is no Scanned or Digital Logs available for download

WR-35

Once of One Case

APR 26 2010

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

4709501530

47

API#

12/30/2009

095 01530

Well Operator's Report of Well Work

Farm namerviil	KINNEY, EI	OWIN J.	Op	-		WHARTON D	· - 7
LOCATION:	Elevation:	1013'	Qu	adrangle:	CENTERP	OINT 7.5'	
	District: Latitude: Longitude:	MCELROY 550 Fee 10,400 Fee	t south of 39	unty: TYI Deg 27 Deg 40	Min 30	Sec.	
Company:	P.O. BOX 55	URCES, INC. 19 V 26105-5519		Casing/ tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Agent:	PHILIP S. O	NDRUSEK					
Inspector:	JOE TAYLO			;		, 19 °	
Permit Issued: Well work Com Well work Com Verbal plugging	pleted:	12/30/09 02/01/10 02/01/10					
permission gran Rotary X Total Depth (fee	ted on: _Cableet)	Rig 3,021	_	8 5/8"	263.5'	263.5'	50 sks
Fresh water dep				4 1/2"	3001.5'	3001.5'	300 sks
Is coal being mi Coal Depths (ft)	ned in area (Y	/N) NA NA	<u>.</u>		Ayer Men		
OPEN FLOW I	DATA	* WATERFL	OOD PRODUC	CER			
	ing formation		Gordon	J O:1. T:4:	Pay zone de		2896'-2924' * Bbl/d
Gas:	Initial open floring Final open floring		* MCF/		al open flow Il open flow		* Bbl/d * Bbl/d
Q	Time of ope	en flow between		nal tests	· · ·	Hours	ŢĴ
Static r	ock pressure		psig (surface pre	ssure)	after	Hours
	producing for		MOE	1 0'1 1 '4'	Pay zone de	/	D1/4
Gas:	Initial open floring Final open floring		MCF/		al open flow al open flow		Bbl/d Bbl/d
	Time of ope	en flow between	n initial and fi	nal tests	<u> </u>	Hours	
Static r	ock pressure		psig (surface pre	ssure)	after	Hours
OR STIMULATIN	G, PHYSICAL C	I, PUT THE FOLLO CHANGE, ETC. 2) FORMATIONS, IN	THE WELL LOG	WHICH IS A	SYSTEMAT	IC DETAILED	CTURING
		For	: EAST RESO	URCES, IN	47	1700	
			By:		10 /	Wide	
			Date:		<u> </u>	3//0	

Treatment:

Treated perforations 2896-2924' w/ 250 gals. 15% HCl, 347 bbls cross linked gel, and 25,000 # 30/50 sand.

Well Log:

SEE ORIGINAL WELL RECORD



Select County: (095) Tyler Select datatypes: (Check All) Location Production Plugging Enter Permit #: 1531 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Logs ✓ Pay/Show/Water ✓ Btm Hole Loc

Usage Notes Contact Information Disclaimer

WV Geological & Economic Survey:

Well: County = 95 Permit = 1531 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:29:32 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501531 | Tyler | 1531 | McElroy | Center Point | Centerpoint | 39.452325 | -80.705583 | 525331 | 4367014.9

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE_OWNER WEI 4709501531 10/15/1993 Original Loc Completed Yvonne Wadsworth/Juanita Weedon D-6 WELL_NUM CO_NUM LEASE LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLET
47221-00 Pennzoil Products Co et al Pennzoil Products Company OPERATOR_AT_COMPLETION PROP_VD PROP_TRO F M Lemasters

Completion Information:

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
 DEEPEST_FM
 DEEPES

 4709501531
 10/15/1993
 5/17/1993
 1105
 Ground Level
 Jksnbg-Strngtwn
 Hampshire Grp
 Gordon
 DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AI Unsuccessful Water Injection Rotary Acid+Frac Service Well 3090 3090

Pay/Show/Water Information:

API CMP_DT ACTIVITY PRODUCT SECTION DEPTH_TOP FM_TOP DEPTH_BOT G_BEF G_AFT O_BEF O_AFT WATER_QNTY 4709501531 10/15/1993 Horizon Injection Vertical 2982 Gordon 2990 Gordon 0 0

4709501531 Pennzoil Products Company 1995

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:

Otratigraph	y iiiioiiiiau	JII.							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4709501531	Original Loc	Little Lime	Well Record	2105	Reasonable	14	Reasonable	1105	Ground Level
4709501531	Original Loc	Pencil Cave	Well Record	2119	Reasonable	9	Reasonable	1105	Ground Level
4709501531	Original Loc	Blue Monday	Well Record	2128	Reasonable	29	Reasonable	1105	Ground Level
4709501531	Original Loc	Big Lime	Well Record	2157	Reasonable	73	Reasonable	1105	Ground Level
4709501531	Original Loc	Big Injun (undiff)	Well Record	2230	Reasonable	163	Reasonable	1105	Ground Level
4709501531	Original Loc	Gordon Stray	Well Record	2952	Reasonable	25	Reasonable	1105	Ground Level
4709501531	Original Loc	Gordon	Well Record	2977	Reasonable	13	Reasonable	1105	Ground Level

Wireline (E-Log) Information:

There is no Plugging data for this well

^{*} There is no Scanned/Raster Log data for this well

^{*} There is no Digitized/LAS Log data for this well

^{*} There is no Scanned or Digital Logs available for download

State of West Virginia

Division of Environmental Protection 4709501531
Section of Oil and Gas

Well Operator's Report of Well Work

DEC 0 7 93

Farm name: WADSWORTH, YVONNE

Operator Well No.: LEMASTERS D-6

LOCATION:

Elevation: 1,105.00 Quadrangle: CENTER POINT

District: MCELROY

District: MCELROY County: TYLER
Latitude: 2200 Feet South of 39 Deg. 27Min. 30 Sec.
Longitude 11000 Feet West of 80 Deg. 40 Min. Sec.

Company: PENNZOIL PRODUCTS COMPANY

P. O. BOX 5519

VIENNA, WV 26105-5519

Agent: JAMES A. CREWS

Inspector: MIKE UNDERWOOD Permit Issued: 05/06/93 Well work Commenced: Well work Completed: 5/17/93 _10/15/93 Verbal Plugging Permission granted on:___ Rotary X Cable Total Depth (feet) Riq 3090 Fresh water depths $\overline{\text{(ft)}}_{N/A}$ Salt water depths (ft) N/A

Is coal being mined in area (Y/N)? N

Casing &	Used in	Left	Cement Fill Up
Tubing	Drilling	in Well	Cu. Ft.
Size	 	 	
8 5/8	348.75	348.75	120 Sks.
4 1/2	3046.85	3046.85	300 Sks.
!			

OPEN FLOW DATA

Coal Depths (ft):_

Producing formation	Gordon	_Pay zone depth	(ft) 2952 - 2990
Gas: Initial open flow	* MCF/d Oil: In	nitial open flow	* Bbl/d
ting oben ilow	* MCF/d #i	nal onen flore	* Bbl/d
Time of open flow be	etween initial and	l final tests	TT
Static rock Pressure	psig (surface	pressure) after	Hours
Water Injection Well - Not Tessecond producing formation	stea on	Pay zone depth	(ft)
Gas: Initial open flow	MCF/d Oil: In	itial open fier	Bb1/d
Final open flow Time of open flow be	MCF/d Fi	nal open flow	Bbl/d
Static rock Pressure	nsig (syrface	final tests	Hours
	Para (Surrace	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:	PENNZO By:	MINIPRODUCTS COMPANY	4.53	
	Date:_	12/6/93		

TREATMENT:

Perforated: 2982 - 2990 2 Holes Per Foot, 16 Holes

Treated: 300 Gal. 15% HCL Acid, 269 Bbl. Gelled Water &

1700# 80/100 Sand & 4000# 20/40 Sand

WELL LOG:

Sand & Shale	0 - 540
Sand	540 - 562
Sand & Shale	562 - 638
Sand	638 - 648
Sand & Shale	648 - 910
Limestone	910 - 930
Shale	930 - 958
Sand	958 - 1000
Sand & Shale	1000 - 1518
Sand	1518 - 1570
Sand & Shale	1570 - 1730
Sand	1730 - 1754
Sand & Shale	1754 - 1912
Sand	1912 - 1940
Sand & Shale	1940 - 2105
Little Lime	2105 - 2119
Pencil Cave	2119 - 2128
Blue Monday	2128 - 2157
Big Lime	2157 - 2230
Big Injun	2230 - 2393
Shale	2393 - 2952
Stray	2952 - 2977
Gordon	2977 - 2990

DF-411 DF+-419

3090

T.D.



Select County: (095) Tyler Select datatypes: (Check All) Production Plugging Location Enter Permit #: 1532 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Logs ✓ Pay/Show/Water ✓ Btm Hole Loc

Usage Notes Contact Information Disclaimer

WV Geological & Economic Survey:

Well: County = 95 Permit = 1532 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:30:20 AM

Location Information: View Map

There is no Bottom Hole Location data for this well

Owner Information:

 API
 CMP_DT
 SUFFIX
 STATUS
 SURFACE_OWNER
 WELL_NUM
 CO_NUM
 LEASE

 4709501532
 8/16/1993
 Original Loc
 Completed
 Darrell Stackpole et ux
 F-14
 J H Daw

 4709501532
 3/6/2004
 Worked Over
 Completed
 Grace Stackpole
 F-14
 J H Daw

 LEASE_NUM
 MINERAL_OWN
 OPERATOR_AT_COMPLETION
 PROP_VD
 PROP_TRGT_FM
 TFM_E\$

 13568-50
 Pennzoil Products Co et al
 Pennzoil Products Company

 13568-50
 East Resources et al
 East Resources, Inc.
 J H Dawson J H Dawson

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
 DEEPEST_FM
 DEEPEST_FM

 4709501532
 8/16/1993
 7/15/1993
 1381
 Ground Level
 Jksnbg-Strngtwn
 Hampshire Grp
 Gordon

 4709501532
 3/6/2004
 3/2/2004
 1381
 Ground Level
 Jksnbg-Strngtwn
 Hampshire Grp
 Gordon

 DEEPEST_FM
 DEEPEST_FMT
 INITIAL_CLASS
 FINAL_CLASS
 TYPE

 Hampshire Grp
 Gordon
 Service Well
 Unsuccessful
 Water

 Hampshire Grp
 Gordon
 Service Well
 Unsuccessful
 Water
 RIG CMP MTHD TVD TMD NEW FTG KOD G BEE G AF Unsuccessful Water Injection Rotary Fractured Unsuccessful Water Injection Rotary Acid+Frac

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 4709501532 3/6/2004 Horizon Injection Vertical 3248 Gordon 3254 Gordon 4709501532 8/16/1993 Horizon Injection Vertical 3248 Gordon 3254 Gordon

4709501532 Pennzoil Products Company 4709501532 Pennzoil Products Company 1994 1995

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil *2023 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
4709501532	Pennzoil Products Company	1994	_ 0	0	0	0	0	0	0	0	0	0	0	0	0
4709501532	Pennzoil Products Company	1995	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:

Ottatigraph	y iiiioiiiiau	OII.							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4709501532	Original Loc	Little Lime	Well Record	2360	Reasonable	14	Reasonable	1381	Ground Level
4709501532	Original Loc	Blue Monday	Well Record	2387	Reasonable	29	Reasonable	1381	Ground Level
4709501532	Original Loc	Big Lime	Well Record	2416	Reasonable	48	Reasonable	1381	Ground Level
4709501532	Original Loc	Big Injun (undiff)	Well Record	2464	Reasonable	176	Reasonable	1381	Ground Level
4709501532	Original Loc	Gordon	Well Record	3214	Reasonable	64	Reasonable	1381	Ground Level
4709501532	Original Loc	Hampshire Grp	WVGES Staff Geologist	3278	Reasonable	97	Qstnble Pick	1381	Ground Level

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

API#

4-Dec-03 47 095 01532

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

prP

Well Operator's Report of Well Work

Farm name:	STACKPOLE	, DARRELL,ETUX.	Opera	ator Well l	No.: JHD	AWSON F-14		
LOCATION:	Elevation:	1,381.00	Quad	rangle:	CENTERP	OINT 7.5'		
	District: Latitude: Longitude:	MCELROY 9,400 Feet south of 8,300 Feet west of	Coun 39 80	ty: TYL Deg 30 Deg 40	Min 0 Min 00	Sec.		,
Company:	P.O. BOX 55	URCES, INC. 19 V 26105-5519		Casing & Tubing	Used in Drilling	Left in Well	Fil	ment l Up ı. Ft.
Agent:	PHILIP S. ON			Size	1.4	!		
Inspector:	MIKE UNDE	RWOOD						
Permit Issued: Well work Cor Well work Cor Verbal pluggin	npleted:	12/04/03 03/02/04 03/06/04		8 5/8"	638.00'	638.00'	200	sks
permission gra Rotary X Total Depth (fe	nted on: Cable	Rig 3375		4 1/2"	3339.00'	3339.00'	300	sks
Fresh water de	pths (ft)	NA				RECEIVED	Gas	
Salt water dept	ths (ft)	NA NA		<u> </u>		Office of Oil & Office of Ch	1 1	
Is coal being n Coal Depths (1	nined in area (Y	/N) NA N				MAY 2 0 20		
OPEN FLOW	•	Water Injection Well				WV Departme Environmental Pi	ent of rotection	
Produ Gas:	icing formation Initial open f	Gordon low ow en flow between initial	MCF/d MCF/d and fir	Fin	Pay zone of the last open flow essure)	w	3214-3	Bbl/d Bbl/d Hours
Secon Gas:	nd producing fo Initial open f Final open f	flow	MCF/d	1 Fir	Pay zone tial open floor al open floor		3	Bbl/d Bbl/d
	c rock pressure		psig (surface pr		after		_Hours
	TADISTIA DISTORAL	M, PUT THE FOLLOWING: 1 CHANGE, ETC. 2) THE WEL L FORMATIONS, INCLUDIN		WHICHIS	TO I O I DIM	110 00 11 11 11 11 11 11 11 11 11 11 11	CTURIN(G
		For: EAST By:	RESO	URCES, 1	NC. I SPO	h		
		Date:			57	18/04		

<u>Treatment:</u>

Treated perforations 3248' -3254' w/ 250 gals 15% HCL, 302 Bbls cross linked gel and 17,500 # 20/40 sand

Well Log:

See original well record



Enter Permit #: 1533	Select County: (095) Tyler	Y	Select datatypes: (Check All)							
Get Data Reset	Enter Permit #: 1533		Location	Production	Plugging					
	Get Data Reset				Sample Btm Hole Loc					

Contact Information Disclaimer

WV Geological & Economic Survey:

Well: County = 95 Permit = 1533 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:30:40 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501533 | Tyler | 1533 | McElroy | Center Point | Centerpoint | 39.467889 | -80.670605 | 528334.2 | 4368752.6 |

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE (4709501533 9/12/1994 Dvtd Orgnl Loc Completed State of WV STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLET
Completed State of WV N-10-B JT Eddy 47220-00 Pennzoil Products Co et al Pennzoil Products Company OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_F

Completion Information:

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
 DEEPEST_FM
 DEEPEST_F DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AF Unsuccessful Water Injection Rotary Acid+Frac Service Well 3788

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 4709501533 9/12/1994 Water Flood Injection Deviated 3668 Gordon 3674 Gordon 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:

Stratigraphy information.										
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM	
4709501533	Dvtd Orgnl Loc	Pencil Cave	Well Record	1241	Deviated Drlg	9	Deviated Drlg	1427	Ground Level	
4709501533	Dvtd Orgnl Loc	Big Lime	Well Record	2472	Deviated Drlg	4	Deviated Drlg	1427	Ground Level	
4709501533	Dvtd Orgnl Loc	Big Injun (Price&eq)	Well Record	2511	Deviated Drlg	310	Deviated Drlg	1427	Ground Level	
4709501533	Dvtd Orgnl Loc	Gordon Stray	Well Record	3622	Deviated Drlg	2	Deviated Drlg	1427	Ground Level	
4709501533	Dvtd Orgnl Loc	Gordon	Well Record	3645	Deviated Drlg	51	Deviated Drlg	1427	Ground Level	

- Wireline (E-Log) Information:
 * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

State of West Virginia Division of Environmental Protection 4709501533

Well Operator's Report of Well Work

Farm name: WVA. PUBLIC LAND CORP. Operator Well No.: J.T.EDDY N-10-B

LOCATION:	Elevation: 1427	Quad	rangle:	Centerpoint		
	District: MCELI Latitude: 1,250 Longitude 11,650	Feet Sou	th of 39	ounty: TYLE Deg.30 Min Deg.40 Min	Sec.	•
P.	NNZOIL PRODUCTS CO O. BOX 5519 ENNA, WV 26105-55		Casing	Used in		Cement Fill Up
Agent: JA	MES A. CREWS					Cu. Ft.
Permit Iss Well work Well work Verbal Plu	Commenced: 07/13 Completed: 09/12	/94	Size 8-5/8 	1410	1410	To surface 550 sks
Rotary X Total Dept Fresh wate	h (feet) 3788 r depths (ft) N/A		4-1/2	3768	3768	300 sks.
Is coal be	depths (ft) $\frac{N/A}{N}$ ing mined in area s (ft): $\frac{N/A}{N}$		 		 	
Stati Secon Gas: Stati NOTE: ON B INTERVALS, LOG WHICH	cing formation Initial open flow Final open flow Time of open flow c rock Pressure d producing format Initial open flow Final open flow Time of open flow c rock Pressure ACK OF THIS FORM FRACTURING OR ST	psiconMCF, between inpsicon PUT THE CIMULATING DETAILED	/d Oil: I /d F nitial and g (surface /d Oil: I /d F nitial and g (surface FOLLOWING , PHYSICA GEOLOGICA	e pressure) Pay zone de nitial open inal open fle final teste pressure) G: 1). DETA	afterlepth (ft) flowsafter	Bbl/d Bbl/d Hours Hours Bbl/d Bbl/d Hours Hours Hours
INCLUDING	COAL ENCOUNTERED E	PENNZOII By: Date:	LBORE.			

4709501533°

TREATMENT

Perforated with 12 holes 3668'-3674'. Treated with 300 gallons 15% HCL acid, 299 barrels gelled water and 7500# 20/40 sand.

WELL LOG

(Measured depths, directionally drilled)

01 0601
0'- 860'
860'- 894'
984'-1082'
1082'-1122'
1122'-1241'
1241'-1250'
1250'-1312'
1312'-1338'
1338'-2050'
2050'-2110'
2110'-2472'
2472'-2476'
2476'-2511'
2511'-2821'
2821'-3622'
3622'-3624'
3624'-36455
3645'-3696'
3788 '

$\mathsf{WVGES} \, \mathsf{O\&G} \, \mathsf{Record} \, \mathsf{Reporting} \, \mathsf{System} \, \boldsymbol{4709501535}$



Select County: (095) Tyler Select datatypes: (Check All) Location Production Plugging Enter Permit #: 1535 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Logs ✓ Pay/Show/Water ✓ Btm Hole Loc

Usage Notes Contact Information Disclaimer "Pipeline-Plus

WV Geological & Economic Survey:

Well: County = 95 Permit = 1535 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:31:06 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501535 | Tyler | 1535 | McElroy | Center Point | Centerpoint | 39.470209 | -80.691747 | 526514.6 | 4369003.6

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE_OWNER WEL 4709501535 9/16/1993 Original Loc Completed Frances & C | Wadsworth H-12 WELL_NUM CO_NUM LEASE LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLET
12958-50 Pennzoil Products Co et al Pennzoil Products Company OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFN A D Lemasters

Completion Information:

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
 DEEPEST_FM
 DEEPEST_F DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AF Unsuccessful Water Injection Rotary Fractured Service Well 3390 3390

4709501535 Pennzoil Products Company 1995

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:

ou aug.ap	,									
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM	
4709501535	Original Loc	Little Lime	Well Record	2385	Reasonable	13	Reasonable	1379	Ground Level	
4709501535	Original Loc	Blue Monday	Well Record	2412	Reasonable	28	Reasonable	1379	Ground Level	
4709501535	Original Loc	Big Lime	Well Record	2440	Reasonable	50	Reasonable	1379	Ground Level	
4709501535	Original Loc	Big Injun (undiff)	Well Record	2490	Reasonable	190	Reasonable	1379	Ground Level	
4709501535	Original Loc	Gordon	Well Record	3235	Reasonable	67	Reasonable	1379	Ground Level	

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

JAN 1 8 1996

State of West Virginia pivision of Environmental Protection 4709501535

Permitting Office of Oil & Gas

Well Operator's Report of Well Work

WADSWORTH, FRANCES & C.I. Operator Well No.: LEMASTERS H-12 Farm name: LOCATION: Elevation: 1,379.00 Quadrangle: CENTER POINT District: MCELROY County: TYLER 10800 Feet South of 39 Deg. 30min. Latitude: Sec. Longitude 7200 Feet West of 80 Deg. 40 Min. Sec. Company: PENNZOIL PRODUCTS COMPANY P. O. BOX 5519 Casing Used in Left Cement VIENNA, WV 26105-5519 Fill Uc Tubing Drilling in Wellicu. Ft. Agent: JAMES A. CREWS Size Inspector: MIKE UNDERWOOD Permit Issued: 05/25/93. Well work Commenced: 07/09/93 Well work Completed: 09/16/93 8-5/8" 6491 6491 '205 sks. Verbal Plugging Permission granted on: Rotary X Cable Rig Total Depth (feet) 4-1/2" 3348.65' วิ390 เ 3348.65 300 sks. Fresh water depths (ft) N/A Salt water depths (ft) N/A Is coal being mined in area (Y/N)? N Coal Depths (ft): OPEN FLOW DATA (Water Injection Well) Producing formation Cordon Pay zone depth (ft) 3235-3302 Gas: Initial open flow MCF/d Oil: Initial open flow Final open flow MCF/d Final open flow Bbl/ Time of open flow between initial and final tests Hour Static rock Pressure psig (surface pressure) after Hour Second producing formation Gas: Initial open flow Pay zone depth (ft) MCF/d Oil: Initial open flow Final open flow MCF/d Final open flow Time of open flow between initial and final tests Bb1/ Hour Static rock Pressure ____psig (surface pressure) after Hour NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATE INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WEL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS INCLUDING COAL ENCOUNTERED BY THE WELLEGRE.

FOR: PENNZOAL PRODUCTS COMPANY

By: Timothy P. Roush, Supervisor, Surveying/Mapping Date: September 15, 1993

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Treatment

Perforated: Gordon from 3260' - 3276' (32 holes)

Treated: w/290 bbls. of gelled water, 1500# 80/100 sand and 3500# 20/40 sand.

Well Log

	Sand & Shale		0		660	
	Shale				834	
	Sand & Shale				985	
	Limestone & Shale				1040	
	Limestone				1086	
	Shale				1200	
	Limestone				1220	
	Shale				1250	
	Sand & Shale				1475	_
	Shale	•			1610	
•	Sand	•			1680	
	Shale	_				
	Sand & Shale				1835	
	Sand	• • •			2005	
	Shale				2030	
	Sand				2180	
	Shale				2220	
					2385 ⁻	
	Little Lime				2398	_
	Shale				2412	-
	Blue Monday				2440	
	Big Lime				2490	
	Big Injun				2680	
	Shale .				3235	
	Gordon		3235	_	3302	
	Total Depth		33901	•		



Select County: (095) Tyler Select datatypes: (Check All) Location Production Plugging Enter Permit #: 1539 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Logs ✓ Pay/Show/Water ✓ Btm Hole Loc

Usage Notes Contact Information Disclaimer

WV Geological & Economic Survey:

Well: County = 95 Permit = 1539 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:31:32 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501539 | Tyler | 1539 | McElroy | Center Point | Centerpoint | 39.469629 | -80.696612 | 526096.4 | 4368937.8 |

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE 4709501539 5/25/1994 Original Loc Completed Stackpole Heirs F-12 J H Daw LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLET
13568-50 Pennzoil Products Co Pennzoil Products Company OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_PR J H Dawson

Completion Information:

DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AF Unsuccessful Water Injection Rotary Acid+Frac Service Well

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 4709501539 5/25/1994 Horizon Injection Vertical 2849 Gordon 2852 Gordon 0 0 0 4709501539 5/25/1994 Horizon Injection Vertical 2855 Gordon 2858 Gordon 0 0

Other wells are incomplete at this time.

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

Changraph	y innominati	J11.							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4709501539	Original Loc	Little Lime	Well Record	1970	Reasonable	16	Reasonable	961	Ground Level
4709501539	Original Loc	Pencil Cave	Well Record	1986	Reasonable	14	Reasonable	961	Ground Level
4709501539	Original Loc	Big Lime	Well Record	2000	Reasonable	35	Reasonable	961	Ground Level
4709501539	Original Loc	Big Injun (undiff)	Well Record	2100	Reasonable	154	Reasonable	961	Ground Level
4709501539	Original Loc	Gordon Stray	Well Record	2822	Reasonable	14	Reasonable	961	Ground Level
4709501539	Original Loc	Gordon	Well Record	2836	Reasonable	46	Reasonable	961	Ground Level

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

State of West Virginia Division of Environmental Protection 4709501539 Section of Oil and Gas

Well Operator's Report of Well Work

Farm name:	Stackpole Hei	rs		Operator	Well No.:	.] H Dawse	n E 12
LOCATION:	Elevation	961'	Quad	rangle: Ce		o. II. Dawse)II F-14
	District: Latitude: Longitude	McElroy 8500 1 10950 1	Feet Sou Feet Wes	Co th of 39 t of 80	ounty: Tyler Deg. 30 Min Deg. 40 Mi	.00 Sec.	
Company: PE	NNZOIL PRODU O. BOX 5519	ICTS COM	PANY -				
VI	ENNA, WV 26	105-5519	9	Casing &		Left	Cement Fill Up
Agent: JA	MES A. CREWS	}			Drilling	in Well	Cu. Ft.
Well work (Well work (Verbal Plug Permission	Commenced: Completed: gging granted on:	5/20/93 6/7/93 5/25/94		Size	··.		
Total Depth	Cable	Rig		8-5/8	220'	220'	 100 Sks.
Salt water	depths (ft)	N/.	A ·	4-1/2	2922.25	2922.25	300 Sks.
Is coal bei	ng mined in (ft):	area (Y	<u> </u>		<u>'</u> 	· -	
Gas: 1 F T Static	ing formation intial open inal open fi ime of open rock Presson pection Well,	flow * low * flow be	ordon MCF/ MCF/ tween in	itial and	Pay zone d itial open nal open fl final test pressure)	flow *	
F T	producing finitial open inal open fine of open rock Pressu	ow	MCF/	d Oll: In	Pay zone ditial open nal open fi final test pressure)	flow	Bbl/d Bbl/d Hours Hours
LOG WHICH	CK OF THIS FRACTURING IS A SYSTEM DAL ENCOUNTE	משדר הפים	DATIED (TUTUTOR	1). DETA CHANGE, RECORD O	ILS OF PE ETC. 2). F	RFORATED THE WELL MATIONS,
		E	PENNZOII	PRODUCTS	COMPANY		

Treatment:

Perforated Gordon 2849'-2852' 7 holes 2855'-2858' 7 holes Treated with 300 gal. 15% HCl 325 bbl. gelled water and 1500# 80/100 sand and 5000# 20/40 sand

Well Log:

Sand & Shale	0' - 610'
Sand	610' - 658'
Sand & Shale	658' - 820'
Sand	820' - 860'
Sand & Shale	860' - 1410'
Sand	1410' - 1440'
Sand & Shale	1440' - 1595'
Sand	1595' - 1628'
Shale	1628' - 1780'
Sand	1780' - 1828'
Shale	1828' - 1970'
Little Lime	1970' - 1986'
Pencil Cave	1986' - 2000'
Big Lime	2000' - 2035'
Shale	2035' - 2100'
Big Injun	2100' - 2254'
Shale	2254' - 2822'
Stray	2822' - 2836'
Gordon	2836' - 2882'
doi doi!	2030 - 2002
T.D.	2966'
1.0.	2300



Select County:	(095) Tyler	Y	Select datatypes: (Check All)							
Enter Permit #:	1541		Location	Production	_ 00 0					
Get Data	Reset		✓ Owner/Completion		✓ Sample					
Get Data Reset			✓ Pay/Show/Water	Logs	✓ Btm Hole Loc					

Contact Information

WV Geological & Economic Survey:

Well: County = 95 Permit = 1541 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:32:15 AM

Location Information: View Map

| API | COUNTY PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501541 | Tyler | 1541 | McElroy | Center Point | Centerpoint | 39.464989 | -80.694739 | 526259.3 | 4368423.4

There is no Bottom Hole Location data for this well

Owner Information:

AP	PI	CMP DT	SUFFIX	STATUS	SURFACE OWNER	WELL NU	M CO NUM	LEASE	LEASE NUM	MINERAL OWN	OPERATOR AT COMPLETION PROP VD PROP TRGT FM T
47	09501541	9/28/1993	Original Loc	Completed	Darrell & Grace Stackpole	_	F-9	R M Stackpole	12959-50	Pennzoil Products Co et al	Pennzoil Products Company
47	09501541	-/-/-	Worked Over	Cancelled	Luella Edna Stacknole et al	F-9		R M Stackhole		Fast Resources et al	Fast 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_AF
4709501541	9/28/1993	7/23/1993	1256	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3420	3420	0
4709501541	-/-/-	-/-/-	1256	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
4709501541	9/28/1993	Horizon	Injection	Vertical	3288	Gordon	3292	Gordon	_ 0	_ 0				·
4709501541	9/28/1993	Horizon	Injection	Vertical	3295	Gordon	3302	Gordon	0	0				

Production Gas Information: (Volumes in Mcf) * 2023 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
470950	11541 Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
470950	1541 Pennzoil Products Company	1995	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 * 2023 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
4709501541	Pennzoil Products Company	1994	_ 0	0	0	0	0	0	0	0	0	0	0	0	0
4709501541	Pennzoil Products Company	1995	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:

Changraph	statigraphy miorination.												
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM				
4709501541			Well Record	2360	Reasonable	18	Reasonable	1256	Ground Level				
4709501541	Original Loc	Pencil Cave	Well Record	2378	Reasonable	12	Reasonable	1256	Ground Level				
4709501541	Original Loc	Blue Monday	Well Record	2390	Reasonable	30	Reasonable	1256	Ground Level				
4709501541	Original Loc	Big Lime	Well Record	2420	Reasonable	80	Reasonable	1256	Ground Level				
		Big Injun (undiff)	Well Record	2500	Reasonable	185	Reasonable	1256	Ground Level				
4709501541	Original Loc	Gordon Stray	Well Record	3262	Reasonable	22	Reasonable	1256	Ground Level				
4709501541	Original Loc	Gordon	Well Record	3284	Reasonable	34	Reasonable	1256	Ground Level				

There is no Plugging data for this well

Wireline (E-Log) Information:
* There is no Scanned/Raster Log data for this well

^{*} There is no Digitized/LAS Log data for this well

^{*} There is no Scanned or Digital Logs available for download

State of West Virginia Division of Environmental Protection 4709501541 Section of Oil and Gas

Well Operator's Report of Well Work

DEC 0 7 93

Farm	name:	STACKPOLE,	DARRELL/	GRACE	Operator	Well	No.:	STACKPOLE	F-9
------	-------	------------	----------	-------	----------	------	------	-----------	-----

LOCATION:

Elevation: 1,256.00 Quadrangle: CENTER POINT

District: MCELROY County: TYLER Latitude: 12950 Feet South of 39 Deg. 30Min. Longitude 8000 Feet West of 80 Deg. 40 Min. Sec.

Company: PENNZOIL PRODUCTS COMPANY P. O. BOX 5519 VIENNA, WV 26105-5519

Agent: JAMES A. CREWS

Inspector: MIKE UNDERWOOD Permit Issued: 06/07/93 Well work Commenced: 7/23/93 $\frac{1/23/93}{9/28/93}$ Well work Completed: Verbal Plugging Permission granted on:
Rotary X Cable
Total Depth (feet) 342
Fresh water depths (ft) 3420 __N/A Salt water depths (ft) _N/A

Is coal being mined in area (Y/N)? N

Casing	Used in	Left	 Cement
Tubing	Drilling	 in Well	Fill Up Cu. Ft.
Size			
8 5/8	507	507	165 Sks.
_ <u></u>	507	507	105 SKS.
4 1/2	3389.3	3389.3	300 Sks.
	ا ا	 	

OPEN FLOW DATA

Coal Depths (ft):_

Producing formation	Gordon	Pay zone depth	(ft) 3	262 - 3318
Gas: Initial open flow *	MCF/d Oil:	Initial open flow	*	Bb1/
ringi Open Liow *	MCF/d	Final amon floor	*	Bb1/c
Time of open flow betw	meen initial :	and final Lagra		
Static rock Pressure	psia (surf	ace processed after		Hour:
Water Injection Well - Not Tosted	Porg (build	ce pressure, arter		Hour:
Water Injection Well - Not Tested Second producing formation		Pay zone depth	(ft)	
Gas: Initial open flow	MCF/d Oil:	Initial amon fire.	(10)	Bb1/c
tingi open ilow	MCF/d	Final anam flag		_Bb1/c
rime or oben flow betw	een initial a	and final tests		
Static rock Pressure	nsia (surfa	ce pressure) after		_Hour:
	rorg (Sulfe	re bressure) giter		Hour:

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELLOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For:	PENNZOIL PROD	YCTS COMPANY	
	By: Limolly	H. H.	
	Date:	12/6/93	

TREATMENT:

Perforated:

3288 - 3292, 3295 - 3302

2 Holes Per Foot - 22 Holes

Treated:

300 Gal. 15% HCL Acid, 287 Bbl. Gelled Water &

1500# 80/100 Sand & 3500# 20/40 Sand

WELL LOG:

Sand & Shale	0 - 915
Sand	915 - 965
Sand & Shale	965 - 1140
Sand	1140 - 1190
Sand & Shale	1190 - 1540
Sand	1540 - 1578
Shale	1578 - 1740
Limestone	1740 - 1790
Sand & Shale	1790 - 1920
Sand	1920 - 2018
Sand & Shale	2018 - 2142
Sand	2142 - 2200
Shale	2200 - 2360
Little Lime	2360 - 2378
Pencil Cave	2378 - 2390
Blue Monday	2390 - 2420
Big Lime	2420 - 2500
Big Injun	2500 - 2685
Shale	2685 - 3262
Stray	3262 - 3284
Gordon	3284 - 3318

T.D.

3420

DF -419 DFT-419



Select County: (095) Tyler Select datatypes: (Check All) Location Production Plugging Enter Permit #: 1542 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Logs ✓ Pay/Show/Water ✓ Btm Hole Loc

Usage Notes Contact Information Disclaimer

WV Geological & Economic Survey:

Well: County = 95 Permit = 1542 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:32:44 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501542 | Tyler | 1542 | McElroy | Center Point | Centerpoint | 39.464409 | -80.694926 | 526243.4 | 4368359 |

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_FN 4709501542 9/28/1993 Dvtd Orgnl Loc Completed Darrell & Grace Stackpole et al F-11 Quintilla Huffman FEE 2149 Pennzoil Products Co et al Pennzoil Products Company Gordon Gordon (undiff)

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
 DEEPEST_FM
 DEEPEST_FM

 4709501542
 9/28/1993
 7/15/1993
 1255
 Ground Level
 Jksnbg-Strngtwn
 Hampshire Grp
 Gordon

 4709501542
 -/-/ -/-/ 1255
 Ground Level

 DEEPEST_FM
 DEEPEST_FMT
 INITIAL_CLASS
 FINAL_CLASS
 TYPE

 Hampshire Grp
 Gordon
 Service Well
 Unsuccessful
 Water
 RIG CMP MTHD TVD TMD NEW_FTG KOD G_BEF G_AFT Unsuccessful Water Injection Rotary Acid+Frac

Comment: 9/28/1993 Directional well

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 4709501542 9/28/1993 Water Flood Injection Deviated 3326 Gordon 3340 Gordon 0 0

Production Gas Information: (Volumes in Mcf) * 2023 data for H6A wells only. Other wells are incomplete at this time.

0 0 0 0 4709501542 Pennzoil Products Company 1995

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil *2023 data for H6A wells only. Other wells are incomplete at this time.

4709501542 Pennzoil Products Company

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
4709501542	Dvtd Orgnl Loc	Little Lime	Well Record	2360	Reasonable	15	Reasonable	1255	Ground Level
4709501542	Dvtd Orgnl Loc	Pencil Cave	Well Record	2375	Reasonable	25	Reasonable	1255	Ground Level
4709501542	Dvtd Orgnl Loc	Blue Monday	Well Record	2400	Reasonable	40	Reasonable	1255	Ground Level
4709501542	Dvtd Orgnl Loc	Big Lime	Well Record	2440	Reasonable	30	Reasonable	1255	Ground Level
4709501542	Dvtd Orgnl Loc	Big Injun (undiff)	Well Record	2470	Reasonable	270	Reasonable	1255	Ground Level
4709501542	Dvtd Orgnl Loc	Gordon Stray	Well Record	3300	Reasonable	20	Reasonable	1255	Ground Level
4709501542	Dvtd Orgnl Loc	Gordon	Well Record	3320	Reasonable	45	Reasonable	1255	Ground Level

Wireline (E-Log) Information:

There is no Plugging data for this well

^{*} There is no Scanned/Raster Log data for this well

^{*} There is no Digitized/LAS Log data for this well

^{*} There is no Scanned or Digital Logs available for download

State of West Virginia Division of Environmental Protection 4709501542 Section of Oil and Gas

	We	ll Operator's	Report of	Well Work		
Farm name:	STACKPOLE,	DARRELL/ GRAC	E Operator	Well No.:	DEC 0 Q.huffman	1 93 F-11
LOCATION:	Elevation:	1,255.00 Quad	drangle: C	ENTER POINT		ند
	nacicude:	MCELROY 12900 Feet Son 8000 Feet Wes	1th Af 20	Daa 2014	_	
Company: PEN	NZOIL PRODUC	CTS COMPANY				
P. (VIE	O. BOX 5519 NNA, WV 261	05-5519	&	Used in	Left	Fill IIm
Agent: JAM	ES A. CREWS			Drilling	in Well 	Cu. Ft.
Inspector: Inspector:	ed: ommenced:	06/07/93	Size 	 		
Verbal Pluge	ompleted: ging granted on:	9/28/93	8 5/8	508	508	165 Sks.
Rotary X Total Depth Fresh water	(feet) 3 depths (ft)	R1g 407 N/A	4 1/2	3373.40	3373.40	300 Sks.
Salt water o	lepths (ft)	N/A				
Is coal beir Coal Depths	ng mined in (ft):	area (Y/N)?_N				,
OPEN FLOW DA	ATA		1			,
Gas: In Fi Ti Static * Water Inje Second Gas: In Fi	ection Well - producing fitial open nal open flue of open	flow * MCF ow * MCF flow between i re psi Not Tested ormation flow MCF	/d Oil: In /d Fi nitial and g (surface /d Oil: In /d Fi	Pay zone ditial open	flow * ow * s after epth (ft) flow ow	Bbl/c Bbl/c Hour: Hour:
NOTE: ON BAC INTERVALS, F LOG WHICH I	K OF THIS RACTURING (S A SYSTEM	FORM PUT THE OR STIMULATING ATIC DETAILED RED BY THE WEL	FOLLOWING , PHYSICA	: 1). DETA	ILS OF PE	RFORATE

Date:/

TREATMENT:

Perforated:

3326 - 3340 2 Holes Per Foot - 28 Holes

Treated:

300 Gal. 15% HCL Acid, 293 Bbl. Gelled Water &

1500# 80/100 Sand & 3500# 20/40 Sand

WELL LOG:

T.D.

Sand & Shale	0 - 910
Sand	910 - 960
Sand & Shale	960 - 1140
Sand	1140 - 1190
Sand & Shale	1190 - 1570
Sand	1570 - 1610
Shale	1610 - 1675
Limestone	1675 - 1830
Sand & Shale	1830 - 2010
Sand	2010 - 2045
Sand & Shale	2045 - 2360
Little Lime	2360 - 2375
Pencil Cave	2375 - 2400
Blue Monday	2400 - 2440
Big Lime	2440 - 2470
Big Injun	2470 - 2740
Shale	2740 - 3300
Stray	3300 - 3320
Gordon	3320 - 3365

3407

DF -411 DFT 419



Select County: (095) Tyler Select datatypes: (Check All) Location Production Plugging Enter Permit #: 1543 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Logs ✓ Pay/Show/Water ✓ Btm Hole Loc

Usage Notes Contact Information Disclaimer

WV Geological & Economic Survey:

Well: County = 95 Permit = 1543 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:33:40 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501543 | Tyler | 1543 | McElroy | Center Point | Centerpoint | 39.460348 | -80.701097 | 525714 | 4367906.6

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE_OWNER WE 4709501543 5/13/1994 Original Loc Completed Hugh & Darlene Carlton E-8 WELL_NUM CO_NUM LEASE LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLET
E-8 J N Glover 13254-50 Pennzoil Products Co et al Pennzoil Products Company OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_ES1

Completion Information:

DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AF Unsuccessful Water Injection Rotary Acid+Frac Service Well 3021 3021

4709501543 Pennzoil Products Company 1995

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:

ou.aug.ap	<i>j</i>								
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4709501543	Original Loc	Pittsburgh Ls	Well Record	870	Reasonable	28	Reasonable	1001	Ground Level
4709501543	Original Loc	Big Injun (undiff)	Well Record	2028	Reasonable	272	Reasonable	1001	Ground Level
4709501543	Original Loc	Berea Ss	Well Record	2658	Reasonable	5	Reasonable	1001	Ground Level
4709501543	Original Loc	Gordon Stray	Well Record	2864	Reasonable	6	Reasonable	1001	Ground Level
4709501543	Original Loc	Gordon	Well Record	2870	Reasonable	18	Reasonable	1001	Ground Level

Wireline (E-Log) Information:

* There is no Scanned/Raster Log data for this well

There is no Plugging data for this well

^{*} There is no Digitized/LAS Log data for this well

^{*} There is no Scanned or Digital Logs available for download

State of West Virginia Division of Environmental Protection 4709501543 Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: CARLTON, HUGH & DARLENE Operator Well No.: J.N. GLOVER E-8

LOCATION:	Elevation:	1,001.00	Quad	rangle:	: CI	ENTER POINT		
	District: Latitude: Longitude	10950 Feet	Sou	th of 3	₹ 9	ounty: TYLEI Deg. 30Min Deg. 40 Min	C	
P.	INZOIL PRODUC O. BOX 5519 INNA, WV 261				ıg	Used in	Left	 Cement
	IES A. CREWS	102-2213		& Tubin	ıg	Drilling	in Well	Fill Up Cu. Ft.
				Size				 То
Permit Issu Well work C	MIKE UNDERWO led: Commenced:	06/07/93 06/13/93		8-5/8	 	263'	263'	surface 50 sks.
Verbal Plug Permission	granted on.			 				
Rotary X Total Depth	Cable 30 depths (ft	Rig		4-1/2 		2994.94'	2994.94'	 300 sks.
Salt water	depths (ft)	N/A	_	<u> </u>				
Is coal bei Coal Depths	ng mined in (ft):	area (Y/N) N/A	<u>3</u> N					
OPEN FLOW D	ATA	WATER INJE	CTION	WELL				
Produc Gas: I F T Static	ing formation intial open flainal open flaime of open rock Pressu	flow	MCF, MCF, en in psic	/d Oil: /d nitial g (surf	In Fi and	Pay zone daitial open nal open flatinal test pressure)	lepth (ft) flowow .safter	2870'-2888' Bbl/c Bbl/c Hours Hours
Second Gas: I	producing initial open	ormation	MCF	∕d Oil:	In	Pay zone d	lepth (ft)	Bb1/c
F	inal open flime of open	OW	M(, h,	/ a	Tri	nal onen fl		Bbl/c
Static	rock Pressu	re	_psi	g (surf	and	pressure)	after	Hours Hours
LOG WHICH	CK OF THIS FRACTURING IS A SYSTEM OAL ENCOUNTE	OR STIMULA IATIC DETAI	TING, LED	, PHYS GEOLOG	בי דר	I. CHANGE	ETC 21	MIID TIPE
			./	PRODU	CTS	COMPANY		
		By: Dat		malty	794			orge Portugues of
				-,				

TREATMENT

Perforated: Gordon with 15 holes 2879--2886'

Treated with 300 gal. 15% HCL, 350 bbls. gelled water

and 7000# 20/40 sand.

WELL LOG

Sand & Shale	0	_	870
Pittsburg LS	870	_	898
Sand & Shale	898	_	1604
Sand	1604	_	1695
Sand & Shale	1695	_	2028
Big Injun	2028	_	2300
Shale	2300	_	2658
Berea	2658	_	2663
Shale	2663	_	2864
Stray	2864	_	2870
Gordon	2870	_	2888
T.D.	3021		



Select County: (095) Tyler Select datatypes: (Check All) Location Production Plugging Enter Permit #: 1554 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Logs ✓ Pay/Show/Water ✓ Btm Hole Loc

Usage Notes Contact Information Disclaimer "Pipeline-Plus

WV Geological & Economic Survey:

Well: County = 95 Permit = 1554 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:34:28 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501554 | Tyler | 1554 | McElroy | Center Point | Centerpoint | 39.45798 | -80.697168 | 526052.9 | 4367644.9

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE 4709501554 11/20/1993 Original Loc Completed Jerry & Carl E Walters 15 Jasper LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TF Jasper Lemasters RG 2171-00 Pennzoil Products Co et al Pennzoil Products Company

Completion Information:

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
 DEEPEST_FM
 DEEPEST_FM
 DEEPEST_FM

 4709501554
 11/20/1993
 10/6/1993
 1011
 Ground Level
 Jksnbg-Strngtwn
 Hampshire Grp
 Gordon
 DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AI Unsuccessful Water Injection Rotary Acid+Frac Service Well 3052 3052

API CMP_DT ACTIVITY PRODUCT SECTION DEPTH_TOP FM_TOP DEPTH_BOT FM_BOT G_BEF G_AFT O_BEF O_AFT WATER_QNTY 4709501554 11/20/1993 Horizon Injection Vertical 2906 Gordon 2915 Gordon 0 0

4709501554 Pennzoil Products Company 1995

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:

Ottaligraphy information.										
	API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
	4709501554	Original Loc	Pittsburgh Ls	Well Record	835	Reasonable	17	Reasonable	1011	Ground Level
	4709501554	Original Loc	Big Injun (undiff)	Well Record	2070	Reasonable	235	Reasonable	1011	Ground Level
	4709501554	Original Loc	Gordon Stray	Well Record	2880	Reasonable	20	Reasonable	1011	Ground Level
	4709501554	Original Loc	Gordon	Well Record	2900	Reasonable	18	Reasonable	1011	Ground Level

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

State of West Virginia Division of Environmental Protection 4709501554 Section of Oil and Gas

Well Operator's Report of Well Work

Farm name:	WALTERS, J	ERRY & CA	ARL E.	Operator	Well No.: 3	.LEMASTE	RS #15
LOCATION:	Elevation:	1,011.00) Quadı	rangle: CE	ENTER POINT		
	District: Latitude: Longitude	225 Fe	et Sout	th of 39	ounty: TYLEF Deg. 27Min. Deg. 40 Mir	. 30 Sec.	
Company:PEN P. VIE	NZOIL PRODU O. BOX 5519 NNA, WV 26			i &	Used in	1	Cement Fill Up Cu. Ft.
Agent: JAM	ES A. CREWS				 	 	 to surface
Inspector: Permit Issu Well work C	ed: ommenced:	09/17/93 10/06/93		8-5/8 	 270 ' 	270'	50 sks.
Well work C Verbal Plug Permission	ging granted on:				 	 	
Rotary X Total Depth Fresh water	Cable (feet) depths (ft	3052		4-1/2	2989.50'	2989.50' 	300 sks.
Salt water	depths (ft)	N/A				 	
Is coal bei Coal Depths	ng mined ir ; (ft): <u>N/A</u>	area (Y	<u></u>				
OPEN FLOW I				TION WELL			\
Produc Gas: 1	cing formati Initial oper	on G n flow	ordon MCF	/d Oil: I	Pay zone initial open final open f	depth (it	Bb1/d
I	final open	low	MCF	r/d F	inal open f	low	Bbl/d Hours
Statio	Time of oper c rock Pres	n flow be sure	tween i psi	initial an ig (surfac	nd final tes ce pressure)	after_	Hours
							• 1
Second	d producing	formation flow	n MCF	r/d Oil: I	nitial oper	ı flow	Bbl/d
	Kinal onen i	rinw	M.C. r	'/U E	THAT OPER I	U **	Bbl/d
r	rime of oper	n flow be	tween i	initıa⊥ ar	nd final tes	STS	Hours
Statio	c rock Pres	sure	ps:	ig (surfac	ce pressure)	arter	Hours
INTERVALS,	FRACTURING	OR STIM EMATIC DE	MULATINO ETAILED	G, PHYSIC GEOLOGIC	NG: 1). DET CAL CHANGE, CAL RECORD	ETC. 2)	. THE WEL
		For:	PENNZO	IL PRODUCT	TS COMPANY		
			Date:	7/0/00	1		

TREATMENT

Perforated: Gordon with 18 holes 2906'-2915'. Treated with 300 gal. 15% HCL, 298 bbls. gelled water, 1500 # 80/100 sand & 3500 # 20/40 sand.

WELL LOG

Sand & Shale	0	_	835
Pittsburgh LS	835	_	852
Sand & Shale	852	_	1820
Sand	1820	_	1878
Sand & Shale	1878	_	2070
Big Injun	2070	_	2305
Shale	2305	-	2676
Berea	2676	_	2684
Shale	2684	_	2880
Stray	2880	_	2900
Gordon	2900	_	2918
T.D.	3052		

ES 6(1



Select County: (095) Tyler Select datatypes: (Check All) Location Production Plugging Enter Permit #: 1565 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Logs ✓ Pay/Show/Water ✓ Btm Hole Loc

Usage Notes Contact Information Disclaimer

WV Geological & Economic Survey:

Well: County = 95 Permit = 1565 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:34:57 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501565 | Tyler | 1565 | McElroy | Center Point | Centerpoint | 39.455951 | -80.674906 | 527968.9 | 4367426.3 |

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_COMPLET 4709501565 9/16/1994 Original Loc Completed Ernest W Glover L-7 R L Ball 57111-00 Pennzoil Products Co et al Pennzoil Products Company OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_PR

Completion Information:

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
 DEEPEST_FM
 DEEPES

 4709501565
 9/16/1994
 7/30/1994
 1243
 Ground Level
 Jksnbg-Strngtwn
 Hampshire Grp
 Gordon
 DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AF Unsuccessful Water Injection Rotary Acid+Frac Service Well 3237

Pay/Show/Water Information:

Production Gas Information: (Volumes in Mcf) * 2023 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

4709501565 Pennzoil Products Company 1995

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2023 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 | DCM | OCT | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM | DCM

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_QL	UALITY ELEV	DATUM
4709501565	Original Loc	Big Injun (Price&eq)	Well Record	2310	Reasonable	243	Reasonable	1243	Ground Level
4709501565	Original Loc	Gordon	Well Record	3120	Reasonable	28	Reasonable	1243	Ground Level

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

Farm name: GLOVER, ERNEST W.

State of West Virginia Division of Environmental Protection 4709501565 Section of Oil and Gas

Operator Well No.: R.L. BALL # L-7

Well Operator's Report of Well Work

LOCATION:	Elevation:	1,243.00	Quadr	angle: CE	ENTER POINT			
	District: Latitude: Longitude	900 Fe	et Sout	h of 39	ounty: TYLER Deg. 27Min Deg. 40 Mir	. 30 Sec.	•	
P.	NNZOIL PRODU O. BOX 5519 ENNA, WV 26			Casing &	Used in	Left	 Cemen Fill	
					Drilling	in Well		
Agent: JA	MES A. CREWS			Size	- 		 To	
Permit Iss Well work	MIKE UNDERW ued: Commenced: Completed:	12/08/93 07/30/94		8–5/8 –––––	 352 	 352 ⁻ 	surfa 50 sk 	
Verbal Plu	gging				İ	İ	j	į
Rotary X Total Dept	granted on: Cable h (feet) r depths (ft	Rig		4-1/2	 3195	 3195	 300 s	ks.
							1	
	depths (ft)			 	! 	1 		
	ing mined in s (ft):				 	 	 	
OPEN FLOW	DATA	* Water	Injectio	on Well				
Produ	cing formati	ion	Gordon		Pay zone	depth (ft	3120-	3148
Gas:	Initial open	flow *	MCF	/d Oil: I	nitial open	flow	*Br	oT\a
	Time of open	tiow *	MCF tween i	/a r nitial an	inal open i d final tes	ts	* Bh	ours
Stati	ic rock Pres	sure	psi	g (surfac	e pressure)	after_		ours
Secor	nd producing	formatio	n		Pay zone	depth (ft	<u>:</u>)	
Gas:	Initial open	n flow	MCF	/d Oil: I	nitial open	flow	B	b1/d
	Final open : Time of open	flow be	MCF	/d F nitial an	inal open I	te	BI	bl/d
Stati	ic rock Pres	sure	psi	g (surfac	e pressure)	after _	H	ours
INTERVALS	BACK OF THIS, FRACTURING IS A SYST COAL ENCOUN	OR STIM EMATIC DE	ULATING TAILED	GEOLOGIC	AL CHANGE,	ETC. 2).	. THE I	WELL
		For:	PENNZOI	L/PRODUCT	S COMPANY			
			By: C	Finally t	14-K			
			Date:	117/9)			. 191 2 1 13	

TREATMENT

Perforated with 16 holes 3135'-3139' & 3143'-3147'. Treated with 300 gallons 15% HCL acid, 282 barrels gelled water and 7000# of 20/40 sand.

WELL LOG

Sand & Shale	0'-1450'					
Sand	1450'-1500'					
Sand & Shale	1500'-1608'					
Sand	1608'-1630'					
Shale	1630'-1650'					
Sand	1650'-1750'					
Shale	1750'-1900'					
Sand	1900'-1980'					
Sand & Shale	1980'-2100'					
Shale	2100'-2278'					
Sand	2278'-2290'					
Shale	2290'-2310'					
Big Injun	2310'-2553'					
Shale	2553'-3120'					
Gordon	3120'-3148'					
T.D.	3237 '					



Select County: (095) Tyler	~	Select datatypes: (Check All)							
Enter Permit #: 1604		Location	Production	Plugging					
Get Data Reset		Owner/Completion		Sample					
Get Data Reset		✓ Pay/Show/Water	Logs	✓ Btm Hole Loc					

Jsage Notes Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 95 Permit = 1604 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:35:36 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX, DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501604 | Tyler | 1604 | McElroy | Center Point | Centerpoint | 39.45044 | -80.681452 | 527407.9 | 4366812.7

There is no Bottom Hole Location data for this well

Owner Information:

 API
 CMP_DT
 SUFFIX
 STATUS
 SURFACE_OWNER
 WEI

 4709501604
 9/12/1994
 Dvtd Orgnl Loc
 Completed
 John Jones/Joann Leland
 K-5

 4709501604
 3/24/2003
 Dvtd Wrkd Ovr
 Completed
 John Jones/Joann Leland
 K-5

 WELL_NUM
 CO_NUM
 LEASE
 LEASE_NUM
 MINERAL_OWN
 OPERATOR_AT_COMPLETION
 PROP_VD
 PROP_TRGT_FM
 TFM_E

 K-5
 F R Ball
 15459-50
 Pennzoil Products Co et al East Resources et al
 Pennzoil Products Company East Resources, Inc.

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
 DEEPEST_FM
 DEEPEST_FM

 4709501604
 9/12/1994
 6/4/1994
 830
 Ground Level
 Jksnbg-Strngtwn
 Hampshire Grp
 Gordon

 4709501604
 3/24/2003
 3/20/2003
 830
 Ground Level
 Jksnbg-Strngtwn
 Hampshire Grp
 Gordon

 DEEPEST_FM
 DEEPEST_FMT
 INITIAL_CLASS
 FINAL_CLASS
 TYPE

 Hampshire Grp
 Gordon
 Service Well
 Unsuccessful
 Water

 Hampshire Grp
 Gordon
 Service Well
 Unsuccessful
 Water
 RIG CMP MTHD TVD TMD NEW_FTG KOD G_BEF G_AF Unsuccessful Water Injection Rotary Acid+Frac Water Injection Rotary Acid+Frac

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 4709501604 3/24/2003 Water Flood Injection Deviated 2904 Gordon 2912 Gordon 4709501604 9/12/1994 Water Flood Injection Deviated 2904 Gordon 2912 Gordon

4709501604 Pennzoil Products Company

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_QUALIT	Y ELEV	DATUM
4709501604	Dvtd Orgnl Loc	Gordon Stray	Well Record	2871	Reasonable	14	Reasonable	830	Ground Level
4709501604	Dvtd Orgnl Loc	Gordon	Well Record	2885	Reasonable	28	Reasonable	830	Ground Level

- Wireline (E-Log) Information:
 * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

Farm name:

47095010604 API

Operator Well No.: F. R. BALL K-5

24-Feb-03 47 095 01604

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

Well Operator's Report of Well Work

JONES, JOHN /JOANN LELAND

	•		-				
LOCATION:	Elevation:	830'	Quad	drangle:	CENTER I	POINT	
	District: Latitude: Longitude:	MCELROY 2,950 Feet south of 4,250 Feet west of		Deg 27	Min 30	Sec. Sec.	
Company:	EAST RESOUR.O. BOX 55			Casing &	Used in	Left	Cement Fill Up
		V 26105-5519		Tubing	Drilling	in Well	Cu. Ft.
Agent:	MICHAEL M	ICCOWN		Size			
Inspector: Permit Issued:	MIKE UNDE	02/24/03					
Well work Com Well work Com Verbal plugging	pleted:	03/20/03 03/24/03		8 5/8"	219.50'	219.50'	50 sks
permission gran Rotary X Total Depth (fee	Cable et)3	Rig 5,007		4 1/2"	2995'	2995'	300 sks
Fresh water dep	ths (ft)	NA				RECEIVED	
Salt water depth	s (ft)	NA				Office of Oil & C Permitting	25
Is coal being mi Coal Depths (ft)		N) NA N				MAR 2 6 20	1 . 1
OPEN FLOW I	DATA					WV Departmental Pro	ntoi etection
		rflood injection well					
Produc	ing formation	Gordon			Pay zone d	epth (ft)	2885'-2912'
Gas:	Initial open fl		ICF/d	Oil: Initi	al open flov		* Bbl/d
	Final open flo		ICF/d		al open flow		* Bbl/d
	-	n flow between initial ar				Hours	
Static r	ock pressure	ps	sig (sı	urface pre	ssure)	after	Hours
	producing for				Pay zone d		
Gas:	Initial open fl				al open flov		Bbl/d
	Final open flo		ICF/d		al open flow		Bbl/d
Static r	ock pressure	n flow between initial an		ar tests urface pre	ssure)	Hours after	Hours
OR STIMULATIN	G, PHYSICAL C	, PUT THE FOLLOWING: 1) I HANGE, ETC. 2) THE WELL FORMATIONS, INCLUDING	LOG V	VHICH IS A	SYSTEMAT	IC DETAILED	TURING .
•		For: EAST R	ESOU	RCES. IN	(e. 7	1 1	
		By:		//	16er X	Volden	
•		Date:				5/24/05	
						•	

Treatment:	Treated Gordon perforations 2904'-2912' with	250 gals 15% HCL, 290 bbls Cross	15% HCL, 290 bbls Crosslinked gel water and 15,300# 20/40 san							
Well Log See ori	iginal well log									
· · ·		· · · · · · · · · · · · · · · · · · ·	ranca ta try to a present a	-						



Select datatypes: \Box (Check All) Select County: (095) Tyler Production Plugging Location Enter Permit #: 1621 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc Contact Inform

WV Geological & Economic Survey:

Well: County = 95 Permit = 1621 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:36:08 AM

Location Information: View Map

| API | COUNTY | PERMIT TAZ_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501621 | Tyler | 1621 | McElroy | Center Point | Centerpoint | 39.457324 | -80.667646 | 528593 | 4367581

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_	NUM CO_	NUM L	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT	COMPLETION	PROP_VD	PROP_	TRGT_FM	TFM_ES	э́Т_Р
4709501621	9/16/1994	Original Loc	Completed	Ellen Muth	0-7		N	M A Eddy		Pennzoil Products Co et a	I Pennzoil Products	s Company					
4700501621	-1-1-	Worked Over	Cancelled	Stephen M. Jacko	0-7			M A Eddy	57201-00	H.G. Energy I.I.C et al.	HG Energy LLC		31/18	Cordon			

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_E	BEF G_AF
4709501621	9/16/1994	7/23/1994	1148	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon		Service \	Well	Unsucce	essful	Water Injection	Rotary	Acid+Frac	3148		3148		0
4709501621	-/-/-	-/-/-	1148	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 4709501621 9/16/1994 Horizon Injection Vertical 3034 Gordon 3044 Gordon 0 0

There is no Production Gas data for this well

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

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:

		,									
A	PI	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_	QUALITY	ELEV	DATUM
47	709501621	Original Loc	Big Injun (Price&eq)	Well Record	2202	Reasonable	294	Reasonable		1148	Ground Level
47	709501621	Original Loc	Gordon Stray	Well Record	3003	Reasonable	5	Reasonable		1148	Ground Level
47	709501621	Original Loc	Gordon	Well Record	3008	Reasonable	54	Reasonable		1148	Ground Level

- Wireline (E-Log) Information:
 * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

25-May-94 API # 47- 95-01621 s

State of West Virginia Division of Environmental Protectio 4709501621 Section of Oil and Gas

Well Operator's Report of Well Work Farm name: MUTH, ELLEN ETAL. Operator Well No.: M.A. EDDY 0-7LOCATION: Elevation: 1,148.00 Quadrangle: CENTER POINT District: MCELROY County: TYLER Feet South of 39 Deg. 27Min. 30 Sec. Feet West of 80 Deg. 40 Min. Sec Latitude: 400 Longitude 300 Company: PENNZOIL PRODUCTS COMPANY P. O. BOX 5519 Casing | Used in VIENNA, WV | Left 26105-5519 |Cement | Fill Up Tubing | Drilling | Agent: in Well|Cu. Ft.| JAMES A. CREWS Size Inspector: MIKE UNDERWOOD Permit Issued: 05/25/94 surface 8-5/8 Well work Commenced: 396 396 07/23/94 | 170 sks. Well work Completed: 09/16/94 Verbal Plugging Permission granted on: Rotary X Rotary X Cable Total Depth (feet) Rig 4-1/2 3148' 3104.7 Fresh water depths (ft) 3104.7 300 sks. _N/A Salt water depths (ft) N/A Is coal being mined in area (Y/N)? N Coal Depths (ft): OPEN FLOW DATA * Water Injection Well Producing formation Gordon Pay zone depth (ft) 3008-3062

MCF/d Oil: Initial open flow * Bbl/d

MCF/d Final open flow * Bbl/d Gas: Initial open flow_______Final open flow______ Time of open flow between initial and final tests Bbl/d Static rock Pressure_ ___psig (surface pressure) after Hours Hours Second producing formation_ Second producing formation Pay zone depth (ft)

Gas: Initial open flow MCF/d Oil: Initial open flow Final open flow Final open flow MCF/d Final open flow Time of open flow between initial and final tests Bbl/d Static rock Pressure___ ___psig (surface pressure) after Hours 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 Date:

TREATMENT

Perforated with 20 holes 3034'-3044'. Treated with 300 gallons 15% HCL acid, 470 barrels gelled water and 20,000# 20/40 sand.

WELL LOG

Sand &	Shale	0'-1004'
Sand		1004'-1034'
Sand &	Shale	1034'-1392'
Sand		1392'-1418'
Sand &	Shale	1418'-1598'
Sand &	Shale	1598'-1614'
Sand	· 1	1614'-1680'
Sand &	Shale	1680'-2202'
Big In	jun	2202'-2496'
Shale		2496'-3003'
Stray		3003'-3008'
Gordon		3008'-3062'
T.D.		3148'.



Select County: (095) Tyler Select datatypes: (Check All) Production Plugging Location Enter Permit #: 1626 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Logs ✓ Pay/Show/Water Btm Hole Loc

<u>Jsage Notes</u> Contact Information Disclaimer

WV Geological & Economic Survey:

Well: County = 95 Permit = 1626 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:36:28 AM

Location Information: View Map

There is no Bottom Hole Location data for this well

Owner Information:

 API
 CMP_DT
 SUFFIX
 STATUS
 SURFACE_OWNER
 WELL_NUM
 CO_NUM

 4709501626
 8/18/1995
 Original Loc
 Completed
 Galford Wadsworth Jr
 D-14

 Worked Over
 Permitted
 Galford Wadsworth Jr
 WM Fluha

 LEASE
 LEASE_NUM
 MINERAL_OWN
 OPERATOR_AT_COMPLETION
 PROP_VD
 PROP_TRGT_FM
 TFN

 W L Fluharty
 Fee-2831
 Pennzoil Prod Co et al 15577-50
 East Resources Inc
 East Resources, Inc.
 3383
 Gordon
 WM Fluharty D-14

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
 DEEPEST_FM
 DEEPEST_FM
 DEEPEST_FM
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 DEEPEST_F
 DEEPEST_FM
 DEEPEST_FMT
 INITIAL_CLASS
 FINAL_CLASS
 TYPE
 RIG
 CMP_MTHD
 TVD

 Hampshire Grp
 Gordon
 Service Well
 Unsuccessful
 Water Injection
 Rotary
 Acid+Frac
 3383
 RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AF

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 4709501626 8/18/1995 Horizon Injection Vertical 3230 Gordon 3235 Gordon 0 0

There is no Production Gas data for this well

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

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_QUALIT 4709501626 Original Loc Gordon Well Record FM_QUALITY DEPTH_TOP DEPTH_QUALITY THICKNESS THICKNESS_QUALITY ELEV DATUM 3232 Reasonable 6 Reasonable 1375 Ground Level

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

03-27-95 API# 47-095-1626S

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

Well Operator's Report of Well Work

Farm name:	WADSWORT	TH, GALFORD JR.	Oper	ator Well	No.: WM.	FLUHART	Y D-14
LOCATION:	Elevation:	1,375	Quad	irangle:	CENTERP	OINT	
	District: Latitude: Longitude:	MCELROY 9,400 Feet sou 9,600 Feet wes		nty: TYI Deg 30 Deg 40	Min 0	Sec. Sec.	
Company:	P.O. BOX 55	RODUCTS COMPA 19 V 26105-5519	ANY	Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Agent:	PHILIP S. ON	IDRUSEK		Size			
Inspector: Permit Issued: Well work Com	MIKE UNDE	RWOOD 3/27/95 6/15/95				· · · · · · · · · · · · · · · · · · ·	
Well work Com Verbal plugging	pleted:	8/18/95		8-5/8	621'	621'	270 SKS
permission gran Rotary X Total Depth (fee	_Cable	Rig 3,383		4 1/2"	3352'	3352'	170 SKS
Fresh water dep	ths (ft)	NA				Office	EIVED f Oil & Gas
Salt water depth	ns (ft)	NA			:	DEC	िक्र शाहित
Is coal being mi Coal Depths (ft)		N) NA			En En	WV Dep vironmen	artment of tal Protection
OPEN FLOW I	DATA	*Waterflood Injecti	on Well		i		-1001101
Produc Gas:	ing formation Initial open flo Final open flo Time of ope	w *	RDON MCF/d MCF/d ial and fina	Fina	Pay zone d al open flow al open flow	, <u> </u>	3222-3238 * Bbl/d * Bbl/d
Static r	ock pressure	*	psig (s	urface pre	ssure)	after	* Hours
Gas:	I producing for Initial open flo Final open flo Time of ope rock pressure	ow		Fina	Pay zone dial open flow al open flow essure)	, ⁻	Bbl/d Bbl/d rs Hours
INTERVALS, I LOG WHICH I	FRACTURING S A SYSTEM	FORM, PUT THE FO GOR STIMULATIN ATIC DETAILED G NTEREDBY THE V	G, PHYSIC EOLOGIC <i>A</i>	AL CHAN AL RECOI	NGE, ETC.	2) THE WE	ELL
		В		RODUCT Uncell 4/8/50	S COMPAN	IY)	

Treatment:

Peforated Gordon 3230-3235 (20 Holes) Treated via 4 1/2" w/300 gal. 15% HCl Acid,

251 BBL gelled water, & 7200# of 20/40 Sand

Well Log:

Sand & Shale	0	-	1540'
Sand	. 1540'	-	1614'
Shale	1614'	-	1754'
Sand	1754'	-	1798'
Sand & Shale	1798'	-	2342'
Sand	2342'	-	2352'
Shale	2352'	_	2370'
Sand	2370'	-	2595'
Sand & Shale	2595'	-	3232'
Gordon	3232'	-	3238'
T.D.	3383'		





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

WV Geological & Economic Survey:

Well: County = 95 Permit = 1627 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:36:53 AM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4709501627	Tyler	1627	McElroy	Center Point	Centerpoint	39.469339	-80.702973	525549.3	4368903.8

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 F	PROP_VD PROP_TRGT_FM TI
4709501627	8/18/1995	Original Loc	Completed	Allen D Stackpole et al	E-12	E Longstreth	Fee-2142-00	Pennzoil Prod Co et al	Pennzoil Products Company	
4709501627	1/20/2014	Worked Over	Completed	Allen D Stackpole et al	E-12	Eliz Longstreth	Fee 2142-00	H G Energy LLC et al	HG Energy, LLC	3025 Gordon
4709501627	-/-/-	Worked Over	Cancelled	Grace Stackpole et al	E-12	Elizabeth Longstreth	Fee 2142-00	East Resources Inc et al	East Resources, Inc.	3025 Gordon

Completion Information:

O 0 p . O t.																					
API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST	_FMT	INITIAL_	CLASS	FINAL_CLA	ASS TY	YPE	RIG	CMP_N	ITHD :	TVD	TMD NEW_	FTG KO	G_BEF	G_
					Jksnbg-Strngtwn				Service V	Vell	Unsuccessfu	ul Wa	ater Injection	Rotary	Acid+Fi	rac :	3025	3	025	0	
470950162	7 1/20/2014	12/11/2013	1004	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon		Service V	Vell	Unsuccessfu	ul Wa	ater Injection	Rotary	Fracture	ed :	3025		0		
470950162	27 -/-/-	-/-/-	1004	Ground Level								no	ot available	unknown	unknow	/n					

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_T	OP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER.	QNTY
4709501627	8/18/1995	Horizon	Injection	Vertical	28	370	Gordon	2878	Gordon	0	0				
4709501627	1/20/2014	Water Flood	Injection	Vertical	28	37N	Gordon	2882	Gordon						

There is no Production Gas data for this well

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

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:

ou.aug.ap	adigraphy mioritation									
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM	
4709501627	Original Loc	Gordon	Well Record	2838	Reasonable	62	Reasonable	1004	Ground Level	

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well



WR-35 Rev. 8/23/13 Page 1 of 4

State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

API 47 095 1627	County TYLER		District MCELROY	•
Quad CENTERPOINT 7.5'				
Farm name STACKPOLE, ALLE			Well Number E-12	
Operator (as registered with the OO		<u> </u>		
Address 5260 DUPONT ROAD	City PAR	RKERSBURG	State WV	Zip 26101
As Drilled location NAD 83/UTN Top hole Landing Point of Curve Bottom Hole	Attach an as-drille Northing 4,368,923 M Northing M	F	and deviation survey Easting 525,550 M Casting M	
Elevation (ft) 1,004' GL	Type of Well	□New	Type of Report	□Interim ■Final
Permit Type Deviated	Horizontal Horizon	tal 6A 🛔 Vertica	l Depth Type	□ Deep ■ Shallow
Type of Operation Convert	Deepen 🗆 Drill 🗆	Plug Back 🗆 Re	drilling 🗆 Rework	■ Stimulate
Well Type □ Brine Disposal □ CE	BM □Gas □Oil ■Sec	ondary Recovery	Solution Mining 🗆 Sto	orage 🗆 Other
Type of Completion ■ Single □ M Drilled with □ Cable ■ Rotary	fultiple Fluids Produ	ced 🗆 Brine 🗆 G	as □NGL 🛮 Oil	□ Other
Drilling Media Surface hole AP Production hole Air Mud Mud Type(s) and Additive(s) N/A			te hole 🛢 Air 🗆 Mud	■ Fresh Water □ Brine
Date permit issued10/07/13	Date drilling comm	nenced NA	Date drilling o	eased NA
Date completion activities began				1/20/14
Verbal plugging (Y/N) N				
Please note: Operator is required to	submit a plugging applica	ation within 5 days o	of verbal permission to p	lug
Freshwater depth(s) ft	None	Open mine(s) (Y/N	I) depths	N
Salt water depth(s) ft	None	Void(s) encountered	ed (Y/N) depths	N
Coal depth(s) ft	None		ered (Y/N) depths	N
Is coal being mined in area (Y/N) _	N	REGEIVE ffice of Oil 8		Reviewed by:
		Albert 1 20	19.8	

APR 1 / 2014

WV Department of Environmental Protection

WR-35 Rev. 8/23/13									Page 2 of 4
API 47-095	1627	Farm na	me_STACKP	OLE, ALL	EN D ET	AL Well	number E-	12	·
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		Basket Depth(s)		nent circulate (Y/N) ide details below*
Conductor	'			•					
Surface	12 1/4"	8 5/8"	265'	New	L	s	64'		Y
Coal									
Intermediate 1									
Intermediate 2									
Intermediate 3									
Production	8"	4 1/2"	2935.7	New	J-{	55		1	N
Tubing									
Packer type and de	epth set							<u> </u>	
CEMENT DATA	Class/Type of Cement	Number of Sacks	,		ield ³/sks)	Volume (ft ²)	Ceme		woc
Conductor	O Gamoni	0.0000	Т	111	7323)	111-7	Top (M	<u>,,,,,</u>	(hrs)
Surface	face Reg Neat		15.6	1	.18	100	Surfa	ce	8
Coal									
Intermediate 1									
Intermediate 2					—— 				
Intermediate 3									
Production	50:50 Pozmix	170	14,2	1	1.27 216		1900' (d	calc)	8
Tubing							1000	+	
Drillers TD (ft) Deepest format Plug back prod Kick off depth Check all wirel	cion penetrated coedure NA	□ caliper	density □ resistivity		o (ft) N/A		duction mperature	□sonic	
DESCRIBE TE		Convention ER PLACEMEN	NT USED FOR				collected B		No
	<u> </u>								
		res & No							

WR-35 Rev. 8/23/13 Page 3 of 4

API	47-	095	_	1627

Farm name STACKPOLE, ALLEN D ET AL Well number E-12

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	12/11/13	2870'	2882'	48	Gordon
		-			

-					
				1.	
L			<u> </u>	<u> </u>	

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	12/12/13	10	3471	3091	3201	9,000	420	0
	 							
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Please insert additional pages as applicable.

WR-35 Rev. 8/23/13													Page <u>4</u> of <u>4</u>
API 47- 095	_ 1627		_ Farm	name_S7	TACK	POLE, A	LLE	NDE	T AL	Well	number_	E-12	
PRODUCING	FORMATIO	<u> (8)//C</u>		DEPTH	<u>s</u>								
Gordon				2838'		TVD	28	38'		MD			
						_ ` ` ` `	_		· · · · · · · · · · · · · · · · · · ·	_ 1411			
								·····		_			
										-			
Please insert ac	lditional pag	es as ap	– plicable.		,					-			
GAS TEST	□ Build up	□ Dra	awdown	🗆 Open	Flow		OII	L TEST	□ Flo	w c	Pump		
SHUT-IN PRE	SSURE S	Surface		psi	Botto	m Hole		ps	si D	URA'	LION OI	TEST	hrs
OPEN FLOW			Oil			_ bpd _							e □ Pilot
LITHOLOGY/	TOP	,	воттом	то	ıp.	BOTTON	Jf.						
FORMATION	DEPTH IN		PTH IN FT					DESCR	IBE RO	CK TY	PE AND R	ECORD (QUANTITYAND
	NAME TV	D _	TVD	М	2	MD							, OIL, GAS, H₂S, ETC)
	0			0									
				<u> </u>						SEE	ORIGINAL		RECORD
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Drilling Contra					City					State		7in	
			,, .,, .,		City	*****				State		_ Zıp	
Logging Comp				····							1407		
Address					City					State	VVV	_ Zip	
Cementing Cor	npany NA												
Address			·		City					State		_ Zip	
Stimulating Co	mnany Pro	ducers S	Service Co	rp.									
Address 109 So	uth Graham S	treet			City	Zanesville				State	ОН	Zip 4	3701
Please insert ad					-								
Completed by	RogerHeld	man	_					Teleni	10ne 30)4-420	-1107		
Signature		\ \lambda	elen	T	itle O	perations Ma	– anage	er Forebr	10116 <u>- 31</u>		Date 4/1	1/14	
·													
Submittal of Hy	draulic Frac	cturing (Chemical I	Disclosur	e Info	rmation	At	tach co	py of F	RACF	OCUS I	Registry	

03-27-95 API# 47-095-1627 S

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

Well Operator's Report of Well Work

Farm name:	STACKPOL	E, DARRELL/GRACE	Ope	rator Well	No.: E. L	ONGSTREE	ET E-12
LOCATION:	Elevation:	1,004	Qua	drangle:	CENTERI	POINT	
	District: Latitude: Longitude:	MCELROY 11,150 Feet south 10,300 Feet west	Cou of 39	_	LER Min 0	Sec.	
Company:	P.O. BOX 55	PRODUCTS COMPAN 519 V 26105-5519	ΙΥ	Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Agent:	PHILIP S. O	NDRUSEK		Size			
Inspector: Permit Issued: Well work Co		ERWOOD 3/27/95 6/8/95					
Well work Co Verbal pluggii	mpleted: 1g	8/18/95		8-5/8	265'	265'	85 SKS
permission gra Rotary X Total Depth (f	Cable eet)	Rig 3,025		4 1/2"	2935.7'	2935.7'	170 SKS
Fresh water de Salt water dep	•	NA NA					
Is coal being n Coal Depths (nined in area (Yaft):	NA NA				FOESTICE	
OPEN FLOW	DATA	*Waterflood Injection	Well			ECEIVED enfoils	
Gas:	icing formation Initial open floring from the control open floring from the control open frock pressure		MCF/d MCF/d	Fina d tests	Pay zone call open flow	lepth (ft) _{/013}	2838-2900 * Bbl/d * Bbl/d
Gas:	nd producing for Initial open flo Final open flo Time of ope rock pressure	ow	_MCF/d and fina	Fina	Pay zone of all open flow ssure)	v	Bbl/d Bbl/d rs Hours
NOTE: ON B. INTERVALS, LOG WHICH	ACK OF THIS I FRACTURING IS A SYSTEM	FORM, PUT THE FOLI GOR STIMULATING, ATIC DETAILED GEO NTEREDBY THE WEI	- LOWING PHYSIC LOGICA	: 1) DETA AL CHAN LL RECOR	AILS OF PI GE, ETC.	ERFORATE 2) THE WE	ED ELL
		For: PENN	NZOIL PI	RODUCTS	COMPAN	TY)	
		By: Date:		Funcelly 4/8	H/	Υ	
				// () /	110		

Treatment:

Perforated Gordon 2870-2878 (32 Holes) Treated via 4 1/2" casing with 300 gal. 15% HCl Acid, 285 BBL gelled water & 6500# of 20/40 sand.

Well Log:

Sand & Shale	0	-	1208'
Sand	1208'		1258'
Sand & Shale	1258'	-	1790'
Sand	1790'	- .	1840'
Shale	1840'		1985'
Sand	1985'	-	2038'
Shale	20381	-	2112'
Sand	2112'	_	2263'
Shale	2263'	-	2838'
Gordon	2838'	-	2900'
T.D.	3025'		



Select County: (095) Tyler Select datatypes: (Check All) ✓ Production Plugging Location Enter Permit #: 1628 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ✓ Pay/Show/Water Logs Btm Hole Loc

<u>Jsage Notes</u> Contact Information Disclaimer

WV Geological & Economic Survey:

Well: County = 95 Permit = 1628 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:37:32 AM

Location Information: View Map

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE_OWNER WE 4709501628 8/18/1995 Original Loc Completed Hugh & Darlene Carlton C-9 WELL_NUM CO_NUM LEASE
 LEASE
 LEASE_NUM
 MINERAL_OWN
 OPERATOR_AT_COMPLET

 Alpheus Glover
 FEE - 2165-00
 Pennzoil Products Co et al
 Pennzoil Products Company
 OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFN

Completion Information:

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
 DEEPEST_FM
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 DEEPEST_F DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AF Unsuccessful Water Injection Rotary Acid+Frac Service Well 2882

There is no Production Gas data for this well

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

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 FN FM FM_QUALITY DEPTH_TOP DEPTH_QUALITY THICKNESS THICKNESS_QUALITY ELEV DATUM API SUFFIX FM FM_QUALIT 4709501628 Original Loc Gordon Well Record 2721 Reasonable 59 Reasonable

Wireline (E-Log) Information:

* There is no Scanned/Raster Log data for this well

- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

APR 1 0 1996

05-03-95 API # 47-095-1628 S

State of West Virginia Division of Environmental Protection 4709501628

Continue 12 Table 12

Permitting
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name:	CARLTON,	HUGH & DARI	LENE	Ope	rator Well	No.: A. G	LOVER C-9)	
LOCATION:	Elevation:	885'	A	Qua	drangle:	CENTER	POINT	£ 2 £ 5	l form ligh
	District: Latitude: Longitude:	MCELROY 13,550 Fee 11,550 Fee			nty: TYI Deg 30 Deg 40		Sec.	e de de de de de de de de de de de de de	No.
Company:	P.O. BOX 55	PRODUCTS CC 519 V 26105-5519	MPANY		Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.	
Agent:	PHILIP S. O	NDRUSEK			Size				1
Inspector: Permit Issued: Well work Com	MIKE UNDI	ERWOOD 5/3/95 7/6/95							
Well work Com Verbal plugging permission grar	npleted:	8/18/95			8-5/8	219'	219'	75 SKS	
Rotary X Total Depth (fe Fresh water dep	Cableet)	Rig 2882' NA	 •.		4 1/2"	2837'	2837'	200 SKS	
Salt water depti	ns (It)	<u>NA</u>							-
Is coal being mi Coal Depths (ft OPEN FLOW I		N) NA NA *Waterflood In		ell					
Gas:	ing formation Initial open floring from the of open floring of open floring from the front front from the front from the front from the front from the front front from the front front from the front front from the front front front from the front		* M	ICF/d ICF/d d fina	Fina l tests		* Hour		
Static	rock pressure		ps	sig (si	ırface pre	ssure)	after	* Hour	S
Gas:	I producing for Initial open flo Final open flo Time of oper rock pressure	low	M initial an		Fina	Pay zone dal open flow ssure)		Bbl/d Bbl/d rs Hour	
INTERVALS, I LOG WHICH I	FRACTURING S A SYSTEM	FORM, PUT TH GOR STIMULA ATIC DETAILE INTEREDBY TI	TING, PH D GEOLO	YSIC. GICA	AL CHAN L RECOR	GE, ETC.	2) THE WE	T.T.	
		For	: PENNZO	DIL PI	RODUCTS	COMPAN	ΙΥ	4	-
	٠		By: Date:		finds	96	<u> </u>	18 8 18 18 18 18 18 18 18 18 18 18 18 18	
		the state of the s			,	A Transfer of the State of the		1	

Treatment: Perforated Gordon 2750-2756 (24 Holes) Treated via 4 1/2" with 300 gal. 15% HCl Acid, 245 BBL gelled water & 7700# 20/40 Sand.

Well Log:

Sand & Shale	0	_	1070'
Sand	1070'	-	1998'
Sand & Shale	1998'	_	1475'
Sand	1475'	-	1509'
Sand & Shale	1509'	-	1887'
Sand	1887'	_	1936'
Shale	1936'	-	2028'
Sand	2028'	_	2153'
Shale	2153'	-	2721'
Gordon	2721'	-	2780'
T.D.	2882'		



Select datatypes: \Box (Check All) Select County: (095) Tyler Production Plugging Location Enter Permit #: 1641 ✓ Owner/Completion Stratigraphy ✓ Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc <u>Jsage Notes</u> Contact Inform

WV Geological & Economic Survey:

Well: County = 95 Permit = 1641 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:37:55 AM

Location Information: View Map

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX		SURFACE_OWNER		N CO NUM				OPERATOR_AT_COMPLETION	PROP_VD PROP_1	TRGT_FM	TFM_EST_P
4709501641	10/27/1995	Original Loc	Completed	Ralph & Betty Hayes	M-6		F R Ball	15459-50	Pennzoil Products Co et al	Pennzoil Products Company			
4700501641	_1_1_	Worked Over	Cancelled	Retty Hayes	M-6		E P Rall	15/150-50	HC Energy LLC et al	HC Energy LLC	2846 Cordon	(undiff)	

Completion Information:

	API		SPUD_DT				DEEPEST_FM		_FMT	INITIAL	CLASS	FINAL_CL				CMP_MTHD		TMD I		KOD (G_BEF (G_A
	4709501641	10/27/1995	9/28/1995	846	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon		Service	Well	Unsuccess	sful	Water Injection	Rotary	Acid+Frac	2846		2846		0	
- 1	4700501641	11	11	016	Cround Lovel																	

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
4709501641	10/27/1995	Horizon	Injection	Vertical	- 7	2718	Gordon	2724	Gordon	_ 0	_ 0				_
4709501641	10/27/1995	Horizon	Injection	Vertical		2734	Gordon	2738	Gordon	0	0				

Production Gas Information: (Volumes in Mcf) * 2023 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	ост	NOV	DCM
4709501641	East Resources, Inc.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501641	East Resources, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501641	East Resources, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501641	East Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501641	East Resources, Inc.	2010	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 *2023 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
4709501641	East Resources, Inc.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501641	East Resources, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501641	East Resources, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501641	East Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501641	East Resources, Inc.	2010	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
4709501641	Original Loc	Gordon	Well Record	2694	Reasonable	59	Reasonable	846	Ground Level

There is no Plugging data for this well

Wireline (E-Log) Information:
* There is no Scanned/Raster Log data for this well

^{*} There is no Digitized/LAS Log data for this well

^{*} There is no Scanned or Digital Logs available for download

WR-35
RECEIVED
WW Division of
Environmental Protection

4709501641

09/28/95 API# 47-095-1641S

APR 1 0 1996

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

Permitting
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name:	HAYES, RALP	H & BETTY	Oper	rator Wel	ll No.: F.R.	BALL M-6		
LOCATION:	Elevation:	846.33	Quad	drangle:	CENTERI	POINT	s er græ	333
	District: N Latitude: Longitude:	ACELROY 2,300 Feet south of 2,250 Feet west of		nty: TY Deg 27 Deg 40		Sec.		entrig #
Company:	PENNZOIL PR P.O. BOX 5519 VIENNA, WV			Casing & Tubing	* *	Left in Well	Cement Fill Up Cu. Ft.	
Agent:	PHILIP S. ONE	RUSEK		Size				
Inspector: Permit Issued: Well work Com	MIKE UNDER	WOOD 9/28/95 9/28/95						
Well work Comy Verbal plugging permission grant		10/27/95		8-5/8	214'	214'	100 SKS	
Rotary X Total Depth (fee Fresh water dep	Cable F	Rig 46 NA		4 1/2"	2,823'	2,823'	170 SKS	-
Salt water depth	s (ft)	NA						
Is coal being min Coal Depths (ft)	ned in area (Y/N):	NA NA						
OPEN FLOW D	ATA *	Water Injection Well						
Gas: Static re	ock pressure producing forma Initial open flow	flow between initial and * ps tion M	CF/d d fina ig (su CF/d	Fir l tests urface pr	Pay zone of tial open flow ressure) Pay zone of tial open flow ressure	* Hour after Lepth (ft)	* Hours	s S
Static re	Final open flow Time of open took pressure	flow between initial and		Fir l tests irface pr	essure)	Hour	Bbl/d rs Hours	
LOG WHICH IS	RACTURING O S A SYSTEMAT	RM, PUT THE FOLLOVER STIMULATING, PHO IC DETAILED GEOLO TEREDBY THE WELLE	YSIC. GICA	AL CHA L RECO	NGE, ETC.	2) THE WE	II.	
		For: PENNZO By: Date:	OIL PI 	1/8/9	4 A<	ly L	No Albany	

Permit Install

heungreis, Ab<mark>dan 1</mark>898. Treb hold **da**n 1887.

Treatment:

47 48 E

Perforated Gordon @ 2718 - 2724 (24 Holes) & 2734 -2738 (16 Holes) Treated via 4 1/2" with 300 gal. 15% HCl, 266 BBL gelled water & 15,300# of 20/40 Sand.

Well Log:

Sand & Shale	0	-	1060'
Sand	1060'		1105'
Sand & Shale	1105'	-	1865'
Sand	1865'	-	1921'
Shale	1921'	-	1972'
Sand	1972'	-	2145'
Sand & Shale	2145'	-	2694'
Gordon	2694'	-	2753'

T.D. 2846'



Select County: (095) Tyler	~	Select datatypes: (Check All)	
Enter Permit #: 1646		Location	Production	Plugging
Get Data Reset		✓ Owner/Completion✓ Pay/Show/Water	Stratigraphy Logs	✓ Sample ✓ Btm Hole Loc

<u>Jsage Notes</u> Contact Information

WV Geological & Economic Survey:

Well: County = 95 Permit = 1646 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:38:19 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501646 | Tyler | 1646 | McElroy | Center Point | Centerpoint | 39.436888 | -80.691545 | 526544.6 | 4365305.7 |

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT SUF	FFIX STATUS	SURFACE_OWNER WEL	L_NUM CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION PRO	P_VD PROP_TRGT_FM TFM_ES
4709501646	5 10/4/1996 Origi	ginal Loc Completed	Forrest Glover	11	Martha Elder	99174-00	Pennzoil Products Co et al	Pennzoil Products Company	
4709501646	3 4/1/2010 Worl	rked Over Completed	Forrest Roy Glover	11	Martha Elder	99174-00	East Resources Inc	East Resources, Inc.	2925 Gordon

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST	FMT	INITIAL_C	CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD NEW_	FTG KOI	G_BEF G_AF
4709501646	10/4/1996	7/24/1996	893	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon		Service W	/ell	Unsuccessful	Water Injection	Rotary	Acid+Frac	2925	:	2925	0
4709501646	4/1/2010	4/1/2010	893	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon		Service W	/ell	Unsuccessful	Water Injection	Rotary	Acid+Frac	2925		0	

Comment: 4/1/2010 No open flow data reported

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
4709501646	4/1/2010	Horizon	Injection	Vertical	2766	Gordon	2780	Gordon						- I
4709501646	10/4/1996	Horizon	Injection	Vertical	2774	Gordon	2780	Gordon	0	0				

There is no Production Gas data for this well

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

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:

Changraph	y miorina	OII.							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4709501646	Original Loc	unidentified coal	Well Record	292	Reasonable	2	Reasonable	893	Ground Level
4709501646	Original Loc	Big Lime	Well Record	1960	Reasonable	54	Reasonable	893	Ground Level
4709501646	Original Loc	Big Injun (Price&eq)	Well Record	2014	Reasonable	126	Reasonable	893	Ground Level
4709501646	Original Loc	Gordon	Well Record	2764	Reasonable	18	Reasonable	893	Ground Level

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

1/20/2010

Cement

Fill Up

Cu. Ft.

180

275

sks

sks

API#

47 095 01646 F

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

Well Operator's Report of Well Work

0		ĽΔ
·	الزلسا	1, ,

Farm	name:

GLOVER, FORREST, ETAL

Operator Well No.: M. ELDER 11

LOCATION:

Elevation:

8931

Quadrangle:

CENTERPOINT 7.5'

Sec.

Left

in Well

220'

2896.7'

District:

MCELROY

County: **TYLER**

Latitude:

7,850 Feet south of

39 Deg 27 Min

Tubing

Size

8 5/8"

4 1/2"

30 Sec.

Longitude:

7,100 Feet west of

80 Deg 40 Min 0

Casing Used in

Drilling

220'

2896.7'

Company:

EAST RESOURCES, INC.

P.O. BOX 5519

VIENNA, WV 26105-5519

Agent:

PHILIP S. ONDRUSEK

Inspector:

JOE TAYLOR

Permit Issued:

01/20/10

Well work Commenced:

04/01/10

Well work Completed:

04/01/10

Verbal plugging

permission granted on:

Rotary X Cable Rig

Total Depth (feet)

2925'

NA

Fresh water depths (ft)

ÑΑ

Salt water depths (ft)

Is coal being mined in area (Y/N)

NA

OPEN FLOW DATA

Coal Depths (ft):

* WATERFLOOD INJECTOR

Producing formation	Gordon	Pay zone depth (ft)	2766'-2780'
Gas: Initial open flow	* MCF/d (Dil: Initial open flow	* Bbl/d
Final open flow	* MCF/d	Final open flow	* Bbl/d
Time of open flow	between initial and final	-	Hours
Static rock pressure		ace pressure) after	Hours
Second producing formation		Pay zone depth (ft)	
Gas: Initial open flow	MCF/d (Dil: Initial open flow	Bbl/d
Final open flow	MCF/d	Final open flow	Bbl/d
Time of open flow	between initial and final		Hours
Static rock pressure	psig (surf	ace pressure) after	Hours
OTE: ON BACK OF THIS FORM, PUT TH	E FOLLOWING: 1) DETAILS	OF DEDEOD ATED INTERNAL	C ED A CONTIDENC

NC 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.

Office	of Oil	& G	as

For: EAST RESOURCES, INC.

FEB 0 5 2013

By: Date:

WV Department of **Environmental Protection**

Treatment:

Treated perfs. 2766'-2780' w/ 250 gals. 15% HCl acid, 380 bbls cross linked gel, and 25,800 # 20/40 sand.

Well Log:

SEE ORIGINAL WELL RECORD



Select datatypes: \Box (Check All) Select County: (095) Tyler Production Plugging Location Enter Permit #: 1648 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

<u>Jsage Notes</u> Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 95 Permit = 1648 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:38:40 AM

Location Information: View Map

| API | COUNTY | PERMIT TAZ_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501648 | Tyler | 1648 | McElroy | Center Point | Centerpoint | 39.466874 | -80.702036 | 525630.8 | 4368630.5 |

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE 4709501648 10/4/1996 Original Loc Completed Luella Edna Stackpole E-11 Uriah SI LEASE LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_PI
Uriah Stackpole FEE - 2142-00 Pennzoil Products Products Company

Completion Information:

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
 DEEPEST_FM
 DEEPEST_FM
 DEEPEST_FM
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 DEEPEST_F DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AF Unsuccessful Water Injection Rotary Acid+Frac Service Well 3143 3143

There is no Production Gas data for this well

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

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
4709501648	Original Loc	unidentified coal	Well Record	922	Reasonable	4	Reasonable	1097	Ground Level
4709501648	Original Loc	Big Lime	Well Record	2144	Reasonable	76	Reasonable	1097	Ground Level
4709501648	Original Loc	Big Injun (Price&eq)	Well Record	2220	Reasonable	170	Reasonable	1097	Ground Level
4709501648	Original Loc	Gordon	Well Record	2909	Reasonable	75	Reasonable	1097	Ground Level
4709501648	Original Loc	Gordon Stray	Well Record	2944	Reasonable	18	Reasonable	1097	Ground Level

- Wireline (E-Log) Information:
 * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

Farm name:

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

4709501648

Well Operator's Report of Well Work Carting W Stackpole, Euella Edna

Operator Well No.: U. Stackpole #E-11

LOCATION:	Elevation:	1,097.00		Quad	irangl	e:	Center	Poir	nt	
	District: Latitude: Longitude:	McElroy 12,050 Feet 10,000 Feet			nty: Deg Deg		Min	0	Sec.	
Company:	P.O. BOX 55	PRODUCTS CO 519 V 26105-5519	MPANY		Cas & Tub	_	Used Drillir		Left in Well	Cenient Fill Up Cu. Ft.
Agent:	PHILIP S. O	NDRUSEK			Si	ze				
Inspector: Permit Issued: Well work Com	Mike Under	wood 6/10/96 8/29/96								
Well work Com Verbal plugging	pleted:	10/4/96			8-5	/8"	350	'	350'	220 Sacks
permission gran Rotary X Total Depth (fc	_Cable et)	Rig 3143'	-		41	⁄2''	3046	5'	3046'	275 Sacks
Fresh water dep	oths (it)	NA					}			
Salt water depti	ns (ft)	NA								
Is coal being mi Coal Depths (ft	•	/N) <u>N</u> 922-926								
OPEN FLOW I	DATA	*Well was drill	ed as a wa	terfloo	od inje	ection	n well. N	No o	pen-flow data v	was obtained
Produc	ing formation		Gordon						epth (ft)	2969-2984
Gas:	Initial open f						al open f			* BbVd
	Final open flor	en flow between		ICF/d d fina			l open fl	iow	* Hours	DU/U
Static	rock pressure						ssure)		after	Hours
Second	I producing for	rmation					Pav zor	ne d	epth (ft)	
Gas:	Initial open f	low					al open i	flow	• ' '	Bbl/d
	Final open flo	ow en flow between		CF/d			ıl open fl	low	Trans	Bbl'd
Static	rock pressure	ii iiow between					ssure)		Hours after	Hours
OR STIMULATIN	NG, PHYSICAL	M, PUT THE FOLLO CHANGE, ETC. 2) FORMATIONS, IN For:	THE WELL	LOG V	WHICH ENCO	A 2I I UNTI	SYSTEMERED BY	TAN HT Y	IC DETAILED E WELLBORE.	
			Date:		7	1/3	1917	<u>``</u>		٥
						·				

Treatment:

Perforations:

2979' - 2983' - 4 holes/ft. (16 holes)

Teatment:

Treated via 4.5" Casing with 300 gals. 15% HCl, 216 bbls.

Borate cross-linked gelled water and 11,500 lbs. of 20/40 sand.

Well Log:

TD - 3143'

Sand & Shale	0	-	272
Sand	272	-	294
Sand & Shale	294	-	730
Sand	730	-	782
Shale	782	-	922
Coal	922	-	926
Shale	926	•	950
Sand	950	-	980
Shale	980	-	1302
Sand	1302	-	1310
Shale	1310	-	1324
Sand	1324	•	1344
Shale	1344	-	1352
Sand	1352	-	1358
Shale	1358		1414
Shale	1414	-	1508
Sand	1508	•	1558
Shale	1558	-	1614
Sand	1614	-	1636
Shale	1636	-	1702
Sand	1702	-	1732
Sand & Shale	1732	-	2117
Sand	2117	•	2144
Big Lime	2144	•	2220
Big Injun	2220	-	2390
Shale	2390	-	2944
Gordon Stray	2944	-	2962
Shale	2962	-	2909
Gordon	2909	-	2984
Shale	2984	-	2993
Sand	2993	-	3009
Shale	3009	-	3143



Select datatypes: \Box (Check All) Select County: (095) Tyler Production Plugging Location Enter Permit #: 1655 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

<u>Jsage Notes</u> Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 95 Permit = 1655 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:39:08 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX, DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501655 | Tyler | 1655 | McElroy | Center Point | Centerpoint | 39,432471 | -80.69674 | 526099.2 | 4364814.1

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NU	M LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD PROP_	TRGT_FM	/ TFM_ES
4709501655	10/25/1996	Original Loc	Completed	Forrest Glover	12	2	Martha Elder	99174-00	Pennzoil Products Co et a	Pennzoil Products Company			
4709501655	-/-/-	Worked Over	Cancelled	F Roy Glover et al	12	,	Martha Elder	99174-00	Fast Resources Inc. et al.	Fast Resources Inc	3328 Gordon	1	

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST	_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD N	IEW_FTG KOD	G_BEF C	3_AI
4709501655	10/25/1996	9/10/1996	1297	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon		Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3328		3328	0	
4709501655	-/-/-	-/-/-	1297	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 4709501655 10/25/1996 Horizon Injection Vertical 3170 Gordon 3174 Gordon 0 0 3170 Gordon

There is no Production Gas data for this well

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

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
4709501655	Original Loc	Pittsburgh coal	Well Record	626	Reasonable	4	Reasonable	1297	Ground Level
4709501655	Original Loc	Big Lime	Well Record	2362	Reasonable	78	Reasonable	1297	Ground Level
4709501655	Original Loc	Big Injun (Price&eq)	Well Record	2440	Reasonable	114	Reasonable	1297	Ground Level
4709501655	Original Loc	Gordon	Well Record	3104	Reasonable	22	Reasonable	1297	Ground Level

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

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

4709501655

Well Operator's Report of Well Work

arm name:	Glover, Forre	est etal		Ope	rator Well	No.: M. El	der #12	•
OCATION:	Elevation:	1,297.00		Qua	drangle:	Center Poir	nt	
	District: Latitude: Longitude:	McElroy 9,400' 8,500'	Feet south of Feet west of	39	nty: Tyle Deg 27 Deg 40	Min 30	Sec.	
Company:	PENNZOIL P.O. BOX 5: VIENNA, W	519	S COMPANY 519		Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Agent:	PHILIP S. O	NDRUSEK			Size			
Inspector: Permit Issued:	Mike Under	8.22/						
Well work Con Well work Con Verbal plugging	npleted:	9/10/			8 5/8"	571'	571'	285 Sacks
permission gran Rotary X Potal Depth (fe Fresh water de	Cable eet)	Rig 3328' NA			4 1/2"	3233'	3233'	275 Sacks
Salt water dept	hs (ft)	NA	- -					
Is coal being m Coal Depths (fi	-	626-0		aterflo	od injection	n well. No o	pen-flow data v	vas obtained
	cing formation Initial open f Final open fl	flow low	Gordon * N	ACF/d	Oil: Initi Fina	Pay zone dal open flow	epth (ft)	3104-3126 * Bbl/d * Bbl/d
Static	rock pressure	cii now oc			urface pre	ssure)	after	Hours
Secon Gas:	d producing for Initial open frinal open frime of open	flow low		ACF/d	Fina	Pay zone dal open flow al open flow	v * ` ` <u></u>	Bbl/d Bbl/d
Static	rock pressure				surface pre	ssure)	after	Hours
OR STIMULATI	NG, PHYSICAL	CHANGE, ET	FOLLOWING: 1) FC. 2) THE WELI ONS, INCLUDING	LOG	WHICH IS A	SYSTEMAT		CTURING
			For: PENNZ By:	OIL P	RØDUCT	SCOMPAN	14)	
			Date:		1/3/	97		

Treatment:

Perforations:

3170' - 3174' - 4 holes/ft. (16 holes)

Teatment:

Treated via 4.5" Casing with 300 gals. 15% HCl, 219 bbls.

Borate cross-linked gelled water and 12,700 lbs. of 20/40 sand.

Well Log:

TD = 3328'

•			
Sand & Shale	0	_	626
Pittsburg Coal	626	-	630
Shale	630	-	678
Sand	678	-	694
Shale	694	-	824
Sand	824	-	853
Shale	853	-	940
Sand	940	-	988
Shale	988	-	1110
Sand	1110	-	1118
Shale	1118	-	1172
Sand	1172	-	1202
Sand & Shale	1202	÷	2333
Sand	2333	-	2362
Big Lime	2362	-	2440
Big Injun	2440	-	2554
Shale	2554	-	3104
Gordon	3104	-	3126
Shale	3126	-	3140
Sand	3140	-	3143
Shale	3143	-	3328



Select datatypes: (Check All) Select County: (095) Tyler Production Plugging Location Enter Permit #: 1657 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc <u>Jsage Notes</u> Contact Information

WV Geological & Economic Survey:

Well: County = 95 Permit = 1657 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:39:49 AM

Location Information: View Map

| API | COUNTY | PERMIT TAZ_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501657 | Tyler | 1657 | McElroy | Center Point | Centerpoint | 39.431733 | -80.700896 | 525741.8 | 4364730.9 |

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NU	CO_NUN	1 LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD PROP_TRGT_FM TFM_ES
4709501657	10/25/1996	Original Loc	Completed	David W Lemasters		5	Isaac Baker	14630-50	Pennzoil Products Co et al	Pennzoil Products Company	
4709501657	4/2/2010	Worked Over	Completed	David W Lemasters		5	Isaac Baker	14630-50	East Resources Inc	East Resources, Inc.	3360 Gordon

Completion Information:

API		CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_	FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD '	TMD N	NEW_FTG	KOD	G_BEF
470950	1657 1	10/25/1996	9/14/1996	1304	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon		Development Well	Development Well	Oil	Rotary	Acid+Frac	3360		3360		_ 0
470950	1657	4/2/2010	3/30/2010	1304	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon		Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3360		0		
Comm	ent: 4	4/2/2010	No open	flow d	ata reported														

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
4709501657	10/25/1996	Pay	Oil	Vertical	3176	Gordon	3180	Gordon	0	0				
4709501657	4/2/2010	Water Flood	Injection	Vertical	3165	Gordon	3180	Gordon						
4709501657	4/2/2010	Water Flood	Injection	Vertical	3185	Gordon	3187	Gordon						

There is no Production Gas data for this well

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

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:

Changraph	y miorina	OII.							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4709501657	Original Loc	Pittsburgh coal	Well Record	626	Reasonable	5	Reasonable	1304	Ground Level
4709501657	Original Loc	Big Lime	Well Record	2364	Reasonable	74	Reasonable	1304	Ground Level
4709501657	Original Loc	Big Injun (Price&eq)	Well Record	2438	Reasonable	152	Reasonable	1304	Ground Level
4709501657	Original Loc	Gordon	Well Record	3158	Reasonable	30	Reasonable	1304	Ground Level

There is no Plugging data for this well

Wireline (E-Log) Information:
* There is no Scanned/Raster Log data for this well

^{*} There is no Digitized/LAS Log data for this well

^{*} There is no Scanned or Digital Logs available for download

1/20/2010 47 095 01657**F** API#

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

		Section of	f Oil and Gas		2	-
•		Well Operator's	Report of Well	Work	20	
Farm name:	LEMASTER	RS, DAVID	Operator Well	No.: I. BA		i ii
LOCATION:	Elevation:	1,304'	Quadrangle:	CENTERP	OINT 7.5'	
	District: Latitude: Longitude:	MCELROY 9,780 Feet south of 9,740 Feet west of	County: TYI 39 Deg 27 80 Deg 40	Min 30	Sec. Sec.	
Company:	P.O. BOX 5:	OURCES, INC. 519 VV 26105-5519	Casing Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Agent:	PHILIP S. O	NDRUSEK				
Inspector: Permit Issued: Well work Cor Well work Cor Verbal pluggin	npleted:	OR 01/20/10 03/30/10 04/02/10				
permission gran Rotary X Total Depth (fee Fresh water dep	nted on: Cable eet)	Rig 3360' NA	8 5/8"	570'	570'	290 sks
Salt water dept		NA	4 1/2"	3235.7'	3235.7'	150 sks
Is coal being m Coal Depths (fi	t):	N) NA NA * WATERFLOOD INJEC	CTOR			
Gas: Static: Second Gas:	rock pressure d producing for Initial open f Final open fl	ow * M en flow between initial an ps mation low M ow M en flow between initial an	d final tests sig (surface pres CF/d Oil: Initi CF/d Fina	ssure) Pay zone de al open flow l open flow	Hours after	3165'-3180' 3185'-3187' * Bbl/d * Bbl/d Hours Bbl/d Bbl/d Hours
OR STIMITI ATD	JG PHYSICAL O	1, PUT THE FOLLOWING: 1) I HANGE, ETC. 2) THE WELL FORMATIONS, INCLUDING (LOG WHICH IS A COAL ENCOUNTE	SYSTEMATI ERED BY THE	CDETAILED	CTURING
	FEB 05	For: EAST RI By: Date:	ESOURCES, IN		Held	
F	WV Depar	al Protection			· · · · · · · · · · · · · · · · · · ·	

Treatment:

Treated perfs. 3165'-3187' w/ 250 gals. 15 % HCl acid, 388 bbls cross linked gel, and 25,500 # 20/40 sand.

Well Log:

SEE ORIGINAL WELL RECORD



Enter Permit #: 1659 V Location V Production V Plugging V Owner/Completion V Stratigraphy V Sample	Select County: (095) Tyler	~	Select datatypes: (Check All)	
Get Data Reset	Enter Permit #: 1659		Location	Production	Plugging
II Gel Dala I I Resel I	Cat Data Boast		Owner/Completion	Stratigraphy	Sample
■ Pay/Show/Water ■ Logs ■ Btm Hole Logs	Get Data Reset		✓ Pay/Show/Water	Logs	Btm Hole Loc

Contact Information

WV Geological & Economic Survey:

Well: County = 95 Permit = 1659 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:42:35 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501659 | Tyler | 1659 | McElroy | Center Point | Centerpoint | 39.436471 | -80.700851 | 525743.9 | 4365256.8 |

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_V	D PROP	TRGT	FM -	TFM
4709	9501659	1/2/1997	Original Loc	Completed	Dorsey Baker Est	11		Dorsey Baker Est	13130-50	Pennzoil Products Co et al	Pennzoil Products Company					
4709	501659	2/24/2010	Worked Over	Completed	Dorsey Baker Estate	11			13130-50	East Resources et al	East Resources, Inc.	302	20 Gordo	n		

Completion Information:

A	PI	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_F	FMT INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD NEW_FTG	KOD G_BEF G
47	709501659	1/2/1997	12/10/1996	1030	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3020	3020	0
47	709501659	2/24/2010	1/14/2010	1030	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Development Well	Development Well	Oil	Rotary	Acid+Frac	3020	0	

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH	TOP	FM_TOP	DEPTH_BOT	FM_BO1	G_BEF	G_AFT	O_BEF	O_AFT	WATER	QNTY
4709501659	1/2/1997	Horizon	Injection	Vertical		2898	Gordon	2902	Gordon	_ 0	_ 0				-
4709501659	2/24/2010	Water Flood	Oil	Vertical		2898	Gordon	2911	Gordon						

There is no Production Gas data for this well

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

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:

o a augrapii	<i>j</i>	0111							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4709501659	Original Loc	Big Lime	Well Record	2056	Reasonable	102	Reasonable	1030	Ground Level
4709501659	Original Loc	Big Injun (undiff)	Well Record	2158	Reasonable	158	Reasonable	1030	Ground Level
4709501659	Original Loc	Gordon Stray	Well Record	2886	Reasonable	10	Reasonable	1030	Ground Level
4709501659	Original Loc	Gordon	Well Record	2896	Reasonable	8	Reasonable	1030	Ground Level

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

PECELIA & Gas

Office of ON & Gas

APR 2 6 3010

APR 2 6 3010

APR 2 6 3010

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

4709501659

47

API#

12/30/2009

095 01659

4	W Dannenter. Witonmenter. BAKER, DO	Well Operator	's Report	of Well V	Work			
Farm name: En	BAKER, DO	RSEY ESTATE	Opera	ator Well	No.: D. BA	KER 11		
LOCATION:	Elevation:	1,030.00	Quad	rangle:	CENTERPO	OINT 7.5'		
	District: Latitude: Longitude:	MCELROY 8,000 Feet south of 9,750 Feet west of		Deg 27	Min 30	Sec. Sec.		
Company:	P.O. BOX 55	URCES, INC. 19 V 26105-5519		Casing/ tubing Size	Used in Drilling	Left in Well	Ceme Fill U Cu. F	Jр
Agent:	PHILIP S. Of	NDRUSEK						
Inspector: Permit Issued: Well work Con Well work Con Verbal pluggin	npleted:	R 12/30/09 01/14/10 02/24/10	,					
permission gran Rotary X Total Depth (fe	nted on: Cable et)	Rig 3,020		7"	305.00'	305.00'	170 sk	is .
Fresh water dept	·	NA NA	•	4 1/2"	2976.00'	2976.00'	150 sk	s
Coal Depths (fi		NA	OODUCE	SD.				
OPEN FLOW	DATA	* WATERFLOOD PI	KODUCE	ά K				
Gas: Static	rock pressure d producing for	ow * on flow between initial mation	MCF/d MCF/d and fina psig (su	Fina al tests arface pres	Pay zone de	Hours after epth (ft)	* B	bl/d bl/d ours
Gas: Static	Initial open for Final open flower of open rock pressure		MCF/d and fina	Fina	al open flow al open flow ssure)	Hours	В	bl/d bl/d lours
OR STIMULATI	NG, PHYSICAL O	I, PUT THE FOLLOWING: CHANGE, ETC. 2) THE WE FORMATIONS, INCLUDIN	ELL LOG V	VHICH IS A	SYSTEMAT	IC DETAILED	TURING	
		For: EAST By: Date		RCES, IN	Je 1	Jel-		

Treatment:

Treated perforations 2898'-2911' w/ 250 gals. 15% HCl, 383 bbls cross linked gel, and 25,200 # 30/50 sand.

Well Log:

SEE ORIGINAL WELL RECORD

Farm name:

Baker, Dorsey Estate

9-Sep-96 47 -095- 1659

API#

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

4709501659

Well Operator's Report of Well Work

Operator Well No.: D. Baker Hr. #11

LOCATION:	Elevation:	1,030.00	(Quadrangl	e: Cer	iter Poi	nt	
	District: Latitude: Longitude:	Mc Elroy 8,000 Feet 9,750 Feet	south of	County: 39 Deg 80 Deg			Sec. Sec.	
Company:	P.O. BOX 55	PRODUCTS COM 19 V 26105-5519	IPANY	Cas & Tub	ر ا ا	sed in rilling	Left in Well	Cement Fill Up Cu. Ft.
Agent:	PHILIP S. ON	NDRUSEK		Siz	ze			
Inspector: Permit Issued: Well work Com	Mike Underw	ood 9/9/96 12/10/96	-					
Well work Com Verbal plugging permission grant	pleted:	1/2/97	-	8-5	/8''	305'	305'	170 Sacks
Rotary X Total Depth (fee		Rig 3020'		4 1	½'' 29	76.10'	2976.10'	275 Sacks
Fresh water depth		NA NA					Office of Oil 8	
Is coal being min	nad in area (V/N	<u>v)</u> N					AECEIVI 8	-00
Coal Depths (ft)			-	ĺ			Office of Oil 8	5002 /
OPEN FLOW D	PATA	*Well was drilled	d as a wate	rflood inje	ection we	ll. No c	open-flow data w	menotection delootained
	ng formation		Gordon		Pay	zone d	lepth (ft)	2,898'
Gas:	Initial open flor Final open flor		*MC * MC		_			Bbl/d Bbl/d
		w 1 flow between i			Final ope	311 11OW	* Hours	DU//u
Static re	ock pressure			(surface		;)	after	Hours
Second	producing forn	nation			Pav	zone d	lepth (ft)	
Gas:	Initial open flo		MC	F/d Oil:	Initial op			Bbl/d
	Final open flow		MC MC		Final ope	n flow		Bbl/d
Static ro	ock pressure	flow between i		final tests (surface		:)	Hours	Hours
OR STIMULATING	G, PHYSICAL CI	PUT THE FOLLOW HANGE, ETC. 2) THE FORMATIONS, INC. For: 1	HE WELL LO LUDING CO PENNZOII	OG WHICH OAL ENCO	I IS A SYS	TEMAT BYTH	TIC DETAILED E WELLBORE.	TURING
			By: Date:	4	3/17	150		
			-			/- + =		

Treatment:

Perforated Gordon sand with 16 holes from 2898'-2902' K.B. Fractured with 300 gals 15% HCL and 184 bbls gelled water and 8,600 lbs. 20/40 sand

Well Log:

All depth are relative to K.B.

0	514 Sand and Shale
514	570 sand
570	828 Shale
828	844 sand
844	884 Shale
884	916 sand
916	1332 Shale
1332	1430 sand
1430	1620 Shale
1620	1668 sand
1668	1824 Shale
1824	1856 sand
1856	2056 Shale
2056	2158 Big Lime
2158	2316 Big Injun
2316	2886 Shale
2886	2896 Gordon Stray
2896	2904 Gordon
2904	3020 Shale



Select datatypes: \Box (Check All) Select County: (095) Tyler Production Plugging Location Enter Permit #: 1662 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

<u>Jsage Notes</u> Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 95 Permit = 1662 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:40:40 AM

Location Information: View Map

| API | COUNTY | PERMIT TAZ_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501662 | Tyler | 1662 | McElroy | Center Point | Centerpoint | 39.439971 | -80.706102 | 525290.9 | 4365643.7

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_	NUM	CO_N	NUM	LEASE	LEASE_NUM	MINERAL	OWN	OPERATOR	AT_COMPLETION	PROP_V	PROP.	_TRGT_F	т М	FM_ES1
4709501662	1/16/1997	Original Loc	Completed	Virginia Lemasters		7			B A Swiger	Fee-883-00	Pennzoil F	roducts Co	Pennzoil Prod	ducts Company					
4709501662	4/16/2010	Worked Over	Completed	David W Lemasters et al.		7			R A Swiger	Fee 883-00	Fast Reso	urces Inc et al	Fast Resource	es Inc	317	2 Gordon	n		

Completion Information:

Α	PI	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST	_FMT	INITIAL_CLAS	S FINAL	CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD I	NEW_FTG KO	D G_BEF G_AF
4	709501662	1/16/1997	12/13/1996	1168	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon		Service Well	Unsuc	cessful	Water Injection	Rotary	Acid+Frac	3172		3172	0
4	709501662	4/16/2010	4/16/2010	1168	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon		Service Well	Unsuc	cessful	Water Injection	Rotary	Acid+Frac	3172		0	

Comment: 4/16/2010 No open flow data reported

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
4709501662	1/16/1997	Horizon	Injection	Vertical	3028	Gordon	3032	Gordon	_ 0	_ 0				
4709501662	4/16/2010	Horizon	Injection	Vertical	3026	Gordon	3036	Gordon						

There is no Production Gas data for this well

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

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:

Otratigrapii	y mnomiau	011.							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4709501662	Original Loc	Big Lime	Well Record	2190	Reasonable	112	Reasonable	1168	Ground Level
4709501662	Original Loc	Big Injun (undiff)	Well Record	2302	Reasonable	150	Reasonable	1168	Ground Level
4709501662	Original Loc	Gordon	Well Record	3018	Reasonable	15	Reasonable	1168	Ground Level

Wireline (E-Log) Information:

There is no Plugging data for this well

^{*} There is no Scanned/Raster Log data for this well

^{*} There is no Digitized/LAS Log data for this well

^{*} There is no Scanned or Digital Logs available for download

API#

12/18/2009 47 095 01662**F**

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



Well Operator's Report of Well Work

Farm name:	LEMASTERS	S, DAVID W., I	ET AL	Oper	ator Well	No.: B.A. S	SWIGER 7		
LOCATION:	Elevation:	1,168'		Quad	rangle:	CENTERP	QINT 7.5'		
	District: Latitude: Longitude:	MCELROY 6,720 Fee 11,180 Fee	et south of et west of		ty: TYI Deg 27 Deg 40	Min 30	Sec. Sec.		
Company:	P.O. BOX 55	URCES, INC. 19 V 26105-5519			Casing Tubing Size	Used in Drilling	Left in Well	Fil	ment ll Up ı. Ft.
Agent:	PHILIP S. ON	NDRUSEK							
Inspector: Permit Issued: Well work Com Well work Com	pleted:	R 12/18/09 04/16/10 04/16/10							
Verbal plugging permission gran Rotary X Total Depth (fee Fresh water depth and the state of the	ted on: Cable et)	_Rig 3172' NA			8 5/8"	442'	442'	225	sks
Salt water depth		NA			4 1/2"	3101.4'	3101.4'	275	sks
Is coal being micCoal Depths (ft) OPEN FLOW D	<u> </u>	NA * WATERFL	1 OOD INJE(CTOR	_				
		WALIDIG D	OOD INJEC						
Produci Gas:	ing formation Initial open flo Final open flo Time of open		* M	CF/d	Fina	Pay zone do al open flow al open flow		3026'-3 * *	3036' _Bbl/d _Bbl/d
Static re	ock pressure	n now betwee			n tests trface pre	ssure)	after		Hours
Gas:	producing for Initial open flow Final open flow Time of ope ock pressure	ow	M n initial an	CF/d d fina	Fina	Pay zone de al open flow ssure)			Bbl/d Bbl/d Hours
NOTE: ON BACK OR STIMULATIN GEOLOGICAL RE	OF THIS FORM G, PHYSICAL C ECORD FIECE Office of (HANGE, ETC. 23 POPMATIONS, 1 DIL & Gas Fo 2013	OWING: 1) I	DETAII LOG W	LS OF PERI HICH IS A	FORATED IN SYSTEMATI ERED BY TH	TERVALS, FRAC C DETAILED	CTURING	_
En	WV Depar vironmenta	tment of I Protection					,		, —

Treatment:

Treated perfs. 3026'-3036' w/ 250 gals. 15% HCl acid, 350 bbls cross linked gel, and 22,000 # 20/40 sand.

Well Log:

SEE ORIGINAL WELL RECORD

API#

9-Sep-96 47 -095-01662 F

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

Well Operator's Report of Well Work

Farm name:	Lemasters, Vi	rginia	Oper	ator Well	No.: B.A. S	Swiger #7	
LOCATION:	Elevation:	1,168'	Quad	lrangle:	Center Poir	nt	
	District: Latitude: Longitude:	McElroy 6,700 Feet south of 11,200 Feet west of		nty: Tyle Deg 27 Deg 40	Min 30	Sec. Sec.	
Company:	P.O. BOX 55	RODUCTS COMPANY 19 7 26105-5519	:	Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Agent:	PHILIP S. ON	IDRUSEK		Size			
Inspector: Permit Issued:	Mike Underw	ood 9/9/96 12/13/96					
Well work Com Well work Com Verbal plugging	pleted:	1/16/97		8-5/8''	442'	442'	225 Sacks
permission gran Rotary X Total Depth (fee	_Cable	_Rig 3172'		4 1/2"	3101.40'	3101.40'	275 Sacks
Fresh water depth		NA NA			ŕ	Office of MOV	VED GES ON S
Is coal being mi Coal Depths (ft)	ned in area (Y/	*Well was drilled as a water than the second of the second		·		Orice	Oil 8 2009 2 3 2009
OPEN FLOW I	DATA	*Well was drilled as a wa	aterfloo	od injection	n well. No o	pen-flow data	as obtained
Produc Gas:	ing formation Initial open flo Final open flo Time of open	Gordon w * N w * N n flow between initial ar	101/4	1 1110	Pay zone d al open flow al open flow	epth (ft) * Hours	3,018 * Bbl/d * Bbl/d
Static r	ock pressure			urface pre	ssure)	after	Hours
Gas:	I producing form Initial open flow Final open flow Time of open rock pressure	ow N w N n flow between initial ar	ICF/d id fina	Fina	Pay zone d al open flow al open flow ssure)		Bbl/d Bbl/d Hours
NOTE: ON BACK	OF THIS FORM	, PUT THE FOLLOWING: 1) HANGE, ETC. 2) THE WELL FORMATIONS, INCLUDING	DETAI LOG V	LS OF PER WHICH IS A	FORATED IN	IC DETAILED	TURING
		For: PENNZ By: Date:	OIL PI	3/16/	SCOMPAA ES	ΙΥ	

Treatment:

Perforated Gordon sand with 16 holes from 3028'-3032' K.B. Fractured with

 $300 \ \text{gals} \ 15\% \ \text{HCL}$ and $193 \ \text{bbls}$ gelled water and 9,600 lbs. $20/40 \ \text{sand}$

Well Log:

All depth are relative to K.B.

0	449	Sand and Shale
449	802	Shale
802	846	sand
846	1022	Shale
1022	1056	sand
1056	1490	Shale
1490	1543	sand
1543	1596	Shale
1596	1632	sand
1632	1790	Shale
1790	1848	sand
1848	1943	Shale
1943	1982	sand
1982	2190	Shale
2190	2302	Big Lime
2302	2452	Big Injun
2452	3000	Shale
3000	3018	Gordon Stray
3018	3033	Gordon
3033	3172	Shale





<u>Jsage Notes</u> Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 95 Permit = 1663 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:43:02 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501663 | Tyler | 1663 | McElroy | Center Point | Centerpoint | 39.443624 | -80.701463 | 525688.6 | 4366050.4 |

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL	NUM CO	NUM LEA	SE	LEASE_NUM	MINERAL_OWN	OPERATOR	AT_COMPLETION	PROP_V	D PRO	P_TRG	Γ_FM	TFM_I
4709501663	9/27/1996	Original Loc	Completed	Pennzoil Products Co et al	E-2-B		Silas	s Wvatt	47495-00	Pennzoil Products Co et a	I Pennzoil Pro	ducts Company					

Completion Information:

API CMP_DT SP	PUD_DT ELEV DATUM	FIELD DEEPEST	_FM DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE F	RIG	CMP_MTHD	TVD T	MD NEW_FTG KOD G	_BEF G_AF
4709501663 9/27/1996 8	3/8/1996 800 Ground Level	Jksnbg-Strngtwn Hampshire	Grp Gordon	Service Well	Unsuccessful	Water Injection F	Rotary	Acid+Frac	2841	2841	0

API CMP_DT ACTIVITY PRODUCT SECTION DEPTH_TOP FM_TOP DEPTH_BOT FM_BOT G_BEF G_AFT O_BEF O_AFT WATER_QNTY 4709501663 9/27/1996 Horizon Injection Vertical 2680 Gordon 2686 Gordon 0 0 0

There is no Production Gas data for this well

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

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:

ou.aug.ap	,	• • • • • • • • • • • • • • • • • • • •							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4709501663	Original Loc	unidentified coal	Well Record	1028	Reasonable	8	Reasonable	800	Ground Level
4709501663	Original Loc	Big Lime	Well Record	1842	Reasonable	70	Reasonable	800	Ground Level
4709501663	Original Loc	Big Injun (Price&eq)	Well Record	1912	Reasonable	180	Reasonable	800	Ground Level
4709501663	Original Loc	Gordon Stray	Well Record	2670	Reasonable	18	Reasonable	800	Ground Level
4709501663	Original Loc	Gordon	Well Record	2694	Reasonable	6	Reasonable	800	Ground Level

- Wireline (E-Log) Information:
 * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

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

9-Sep-96 API# 47 -095- 1663-s

4709501663

Well Operator's Report of Well Work

Farm name:	Pennzoil Prod	lucts Company	Oper	ator Well	No.: S. Wy	/att #E-2-B	
LOCATION:	Elevation:	800.00'	Quad	irangle:	Center Poi	nt	
	District: Latitude: Longitude:	McElroy 5,400 Feet south 9,850' Feet west	of 39	nty: Tyle Deg 27 Deg 40	Min 30	Sec.	ï.
Company:	P.O. BOX 55	PRODUCTS COMPAN 19 V 26105-5519	YY	Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Agent:	PHILIP S. O	NDRUSEK		Size			
Inspector: Permit Issued:	Mike Underv	9/10/96		11"	125'	125'	70 Sacks
Well work Com Well work Com Verbal plugging	pleted:	8/8/96 9/27/96		8-5/8"	395'	395'	175 Sacks
permission gran Rotary X Total Depth (fee Fresh water dep	ted on: _Cableet)	Rig 2841' NA		4 1/2"	2788'	2788'	275 Sacks
Salt water depth	ıs (ft)	NA					
Is coal being mi Coal Depths (ft		N N 1028-1036					
OPEN FLOW I	DATA	*Well was drilled as	a waterflo	od injectio	n well. No c	pen-flow data v	vas obtained
Gas:		low *	MCF/d and fina	Fina I tests	Pay zone dial open flow	* Hours	2694-2700 * Bbl/d * Bbl/d
Second Gas:	rock pressure I producing for Initial open for Final open floor Time of oper rock pressure	mation	MCF/d MCF/d and fina	Fina	Pay zone dial open flow	v *	Bbl/d Bbl/d Hours
OR STIMULATIN	NG, PHYSICAL	Ву:	VELL LOGY VING COAL VINZOIL P	WHICH IS A ENCOUNT	A SYSTEMAT	TIC DETAILED TE WELLBORE.	CTURING 6
		Dat		12/27	176	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·

Treatment:

Perforations:

2680' - 2686' - 4 holes/ft. (24 holes)

Teatment:

4.1

Treated via 4.5" Casing with 300 gals. 15% HCl, 220 bbls. Borate cross-linked gelled water and 13,400 lbs. of 20/40 sand.

ered The modernists

Well Log	4	TD - 2841	1 2		eg type
	Shale	en ne i steak i k	0		320
	Sand		320		360
	Shale		360	-	478
	Sand		478		499
	Shale		499		C.2
	Sand		622	-	638
	Shale		638	•	680
	Sand		680	-	716
	Shale		716	-	1028
	Coal		1028	-	1036
	Shale		1036	- ,	1228
	Sand		1228	-	1272
	Shalc	•	1272	-	1338
	Sand		1338	-	1358
	Shale		1358	~	1396
	Sand		1396	-	1470
	Shale		1470	-	1842
	Big Lime		1842	-	1912
	Big Injun		1912	-	2092
	Shale		2092	-	2670
	Gordon Stray		2670	•	2688
	Shale		2688	-	2694
100	Gordon		2694	-	2700

2700 - 2841

, *

Shale

WVGES 0&G Record Reporting System **4709501666**



Select County: (095) Tyler	~	Select datatypes: (Check All)						
Enter Permit #: 1666		Location	Production	Plugging				
Get Data Reset		✓ Owner/Completion✓ Pay/Show/Water	Stratigraphy Logs	Sample Btm Hole Loc				

Contact Information

WV Geological & Economic Survey:

Well: County = 95 Permit = 1666 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:43:31 AM

Location Information: View Map

| API | COUNTY PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501666 | Tyler | 1666 | McElroy | Center Point | Centerpoint | 39.441527 | -80.692851 | 526430.5 | 4365820.2

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER V	WELL_NUM CO_NUI	M LEASE	LEASE_NUM MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD PROP_TRGT_FM TFM_EST
4709501666	1/15/1997	Original Loc	Completed	Fred & Dottie Glover	12	J L McIntyre	99229-00 Pennzoil Products Co et al	Pennzoil Products Company	
4709501666	-/-/-	Worked Over	Cancelled	Fred & Dottle Glover	12	.LL McIntyre	99229-00 Fast Resources Inc. et al.	Fast Resources Inc	3020 Gordon

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	I DEEPEST	_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD NEW	_FTG KOD (G_BEF G_AF
4709501666	1/15/1997	12/23/1996	1007	Ground Level	Jksnbg-Strngtwn	Hampshire Gr	p Gordon		Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3020		3020	0
4709501666	-/-/-	-/-/-	1007	Ground Level													

Pay/Show/Water Information:

There is no Production Gas data for this well

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

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 OUALITY	DEPTH TOP	DEPTH QUALITY	THICKNESS	THICKNESS QUALITY	FLEV	DATUM
4709501666			Well Record		Reasonable		Reasonable		Ground Level
		Big Injun (undiff)			Reasonable		Reasonable		Ground Level
		Gordon Stray	Well Record	2870	Reasonable	18	Reasonable	1007	Ground Level
4709501666	Original Loc	Gordon	Well Record	2888	Reasonable	10	Reasonable	1007	Ground Level

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

Farm name:

Glover, Fred & Dottie

4709501666

21-Oct-96 API# 47 -095- 1666

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

Well Operator's Report of Well Work

Operator Well No.: J.L.McIntyre #12

LOCATION:	Elevation:	1,007'		Quad	irangle:	Center Poi	nt	
	District: Latitude: Longitude:	McElroy 6,150' 7,400'	Feet south of Feet west of	39	nty: Tyle Deg 27 Deg 40	Min 30	Sec. Sec.	
Company:	PENNZOIL I P.O. BOX 55 VIENNA, W	19	S COMPANY 519		Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Agent:	PHILIP S. O	NDRUSEK			Size			
Inspector: Permit Issued: Well work Com	Mike Underv	vood 10/21/ 12/23/						
Well work Com Verbal plugging	pleted:	1/15/9			8-5/8"	265'	265'	160 Sacks
permission gran Rotary X Total Depth (fee	_Cable et)	Rig 3020'			4 ½"	2932'	2932'	140 Sacks
Fresh water dep	otns (It)	NA	-					
Salt water depth	ns (ft)	NA	-					
Is coal being mi Coal Depths (ft		N) NA	N			:		
OPEN FLOW I	DATA	*Well was	s drilled as a wa	terfloo	od injectio	n well. No	open-flow data w	as obtained
Produc Gas:	ing formation Initial open floring of open floring of open	ow		CF/d	Fina	Pay zone of all open flow	v	2,888 * Bbl/d * Bbl/d
Static 1	ock pressure	,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			urface pre	ssure)	after	Hours
Second Gas:	l producing for Initial open fl Final open flo	low ow	M	ICF/d	Fina	Pay zone of all open flow	·	Bbl/d Bbl/d
Static 1	Time of operock pressure	en flow bet	ween initial an		d tests urface pre	ssure)	after Hours	Hours
NOTE: ON BACK OR STIMULATINGEOLOGICAL R	NG, PHYSICAL (CHANGE, ET	C. 2) THE WELL	LOG '	WHICH IS A	A SYSTEMA		TURING
			For: PENNZO By: Date:	OIL P	RODUCT	S COMPAI	YY	
			· .			-		

Treatment:

Perforated Gordon sand with 16 holes from 2890'-2894' K.B. Fractured with 300 gals 15% HCL and 191 bbls gelled water and 9,200 lbs. 20/40 sand

Well Log:

All depth are relative to K.B.

0	190 Sand and Shale
190	222 sand
222	600 Shale
600	620 sand
620	662 Shale
662	704 sand
704	873 Shale
873	910 sand
910	1024 Shale
1024	1054 sand
1054	1275 Shale
1275	1294 sand
1294	1438 Shale
1438	1480 sand
1480	1508 Shale
1508	1526 sand
1526	1790 Shale
1790	1844 sand
1844	2046 Shale
2046	2150 Big Lime
2150	2304 Big Injun
2304	2870 Shale
2870	2888 Gordon Stray
2888	2898 Gordon
2898	3020 Shale

$\mathsf{WVGES}\ \mathsf{O\&G}\ \mathsf{Record}\ \mathsf{Reporting}\ \mathsf{System}\ \mathbf{4709501667}$



Select datatypes: (Check All) Select County: (095) Tyler Production Plugging Location Enter Permit #: 1667 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

Usage Notes Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 95 Permit = 1667 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:43:52 AM

Location Information: View Map

| API | COUNTY | PERMIT TAZ_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501667 | Tyler | 1667 | McElroy | Center Point | Centerpoint | 39.436583 | -80.697518 | 526030.8 | 4365270.1

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT SUFFIX		SURFACE_OWNER \	WELL_NUM CO_NUM	LEASE	LEASE_NUM MINERAL_OWN	OPERATOR_AT_COMPLETION I	PROP_VD PROP_TRGT_FM TFM_EST
4709501667	1/3/1997 Original Loc	Completed	Forrest Glover	13	Martha Elder	99174-00 Pennzoil Products Co et a	Pennzoil Products Company	
4709501667	4/8/2010 Worked Over	Completed	Forrest Ray Glover	13	Martha Elder	99174-00 East Resources Inc	East Resources, Inc.	3336 Gordon

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 I	KOD G_BEF G_AF
470	9501667	1/3/1997	12/15/1996	1320	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3336	3336	0
470	9501667	4/8/2010	4/6/2010	1320	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3336	0	

Comment: 4/8/2010 No open flow data reported

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
4709501667	1/3/1997	Horizon	Injection	Vertical	3200	Gordon	3204	Gordon	_ 0	_ 0				_
4709501667	4/8/2010	Horizon	Injection	Vertical	3184	Gordon	3210	Gordon						

There is no Production Gas data for this well

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

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:

Changraph	y miorina	O11.							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4709501667	Original Loc	unidentified coal	Well Record	657	Reasonable	4	Reasonable	1320	Ground Level
4709501667	Original Loc	Big Lime	Well Record	2386	Reasonable	76	Reasonable	1320	Ground Level
4709501667	Original Loc	Big Injun (Price&eq)	Well Record	2462	Reasonable	158	Reasonable	1320	Ground Level
4709501667	Original Loc	Gordon	Well Record	3184	Reasonable	26	Reasonable	1320	Ground Level

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

01/20/2010

API#

47 095 01667**F**

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

\sim	$\Box Z$	<i>/</i> 7
		1

		We	ll Operator's	Repor	t of Well	Work	9		- U
Farm name:	GLOVER, F	ORREST		Oper	ator Well	No.: MEL	DER 13-R		
LOCATION:	Elevation:	1,320.00		Quac	lrangle:	CENTERP	OINT 7.5'		
	District: Latitude: Longitude:		Y Feet south of Feet west of		_	Min 30			
Company:	EAST RESO P.O. BOX 55 VIENNA, W	19			Casing/ tubing Size	Used in Drilling	Left in Well	Fi	ement ll Up u. Ft.
Agent:	PHILIP S. O	NDRUSEK							
Inspector: Permit Issued: Well work Com Well work Com Verbal plugging	pleted:	R 01/20/ 04/06/ 04/08/	10						
permission gran Rotary X Total Depth (fee	_Cable et)	Rig 3336' N/A			8 5/8"	575'	575'	250	sks
Fresh water dep Salt water depth	. ,	NA NA			4 1/2"	3280'	3280'	275	sks
Is coal being mi Coal Depths (ft) OPEN FLOW I):	657'-60	N 51' FLOOD INJE	CTOR					
Gas:	ing formation Initial open f Final open flo Time of ope ock pressure	ow	* N ween initial a	ICF/d ICF/d ad fina	Fina	Pay zone dal open flowal open flowassure)	v	3184'-: * *	3210' Bbl/d Bbl/d Hours
Second	producing for	mation				Pay zone d	lepth (ft)		_
Gas:	Initial open for Final open floating of open floating of open floating in the second s	ow		1CF/d	Fina	al open flow al open flow	v		_Bbl/d _Bbl/d
Static r	ock pressure				ırface pre	ssure)	after		_Hours
NOTE: ON BACK OR STIMULATIN GEOLOGICAL RI	IG, PHYSICAL (CHANGE, ETC	Colon 2) THE WELL	LOG V	VHICH IS A	SYSTEMAT	IC DETAILED	CTURING	ì

RECEIVED

Office of Oil & Gas For: EAST RESOURCES, INC.

By: FEB 0 5 2013

Date:

WV Department of **Environmental Protection**

Treatment:

Treated Gordon perforations 3190'-3206' w/250 gals 15% HCL, 380 bbls cross linked gel and 25,000 # 20/40 sand

Well Log:

SEE ORIGINAL WELL RECORD

Farm name:

Glover, Forrest

4709501667

21-Oct-96 API# 47 -095- 1667

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

Well Operator's Report of Well Work

Operator Well No.: M. Elder #13-R

LOCATION:	Elevation:	1,320.00		Quad	irangl	e:	Cente	r Poi	nt			
	District: Latitude: Longitude:	McElroy 8,000 8,750	Feet south of Feet west of	39	nty: Deg Deg	27	Min	30 00	Sec.			
Company:	PENNZOIL I P.O. BOX 55 VIENNA, W	19	S COMPANY 519		8	sing & oing	Use Dril		Le in W		Ceme Fill U Cu. F	p
Agent:	PHILIP S. O	NDRUSEK			Si	ze						
Inspector: Permit Issued:	Mike Underv	yood 10/21/ 12/15/										
Well work Com Well work Com Verbal plugging	pleted:	1/3/9			8 5	/8"	57	'5'	57	5'	250 S	Sacks
permission gran Rotary <u>X</u> Total Depth (fe	_Cable et)	Rig 3336'			41	/2"	3280).00'	3280).00'	275 S	acks
Fresh water dep	oths (ft)	NA	-							÷		
Salt water depth	ns (ft)	NA	- -									
Is coal being mi Coal Depths (ft) OPEN FLOW I		657-6	N 61 s drilled as a wa	aterflo	od inj	ectio	n well.	. No (open-flow	v data w	as obtaine	
					J				-			
Produc Gas:	ing formation Initial open f	low	Gordon * M	ICF/d	Oil:	Initi			lepth (ft) v	:	3184-3 * E	bl/d
	Final open flo	ow	* N	ICF/d		Fina	l open				* E	bl/d
Static 1	Time of operock pressure	n flow bet	ween initial an	id fina sig (s			ssure)		* after	Hours	F	Iours
	l producing for								lepth (ft)			
Gas:	Initial open f	ow	N	ACF/d ACF/d		Fina	al open		,	Hours		Bbl/d Bbl/d
Static 1	rock pressure	en now bet	ween initial ar p	sig (s			ssure)	Á	after		F	Iours
NOTE: ON BACK OR STIMULATIN GEOLOGICAL R	NG, PHYSICAL	CHANGE, ET	C. 2) THE WELI	LOG ' COAL	WHICE ENCO	H IS A	SYST ERED	'EMA'	TIC DETA HE WELLI	ILED	TURING	
						• /						

Treatment:

Perforations:

3200' - 3204' - 4 holes/ft.(16 holes)

Teatment:

Treated via 4.5" Casing with 300 gals. 15% HCl, 204 bbls.

Borate cross-linked gelled water and 7,500 lbs. of 20/40 sand.

Well Log:

TD = 3336

Sand & Shale	0	-	590
Shale	590	-	634
Sand	634	-	657
Coal	657	-	661
Shale	661	•	847
Sand	847	-	870
Shale	870	-	1185
Sand	1185	-	1217
Shale	1217	-	1666
Sand	1666	-	1984
Shale	1984	-	2033
Sand	2033	-	2074
Shale	2074	-	2372
Sand	2372	-	2386
Big Lime	2386	-	2462
Big Injun	2462	-	2620
Shale	2620	-	3184
Gordon	3184	-	3210
Shale	3210	-	3336

WVGES O&G Record Reporting System 4709501687



Select County: (095) Tyler Select datatypes: (Check All) Production Plugging Location Enter Permit #: 1687 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Logs ✓ Pay/Show/Water Btm Hole Loc

Usage Notes Contact Information Disclaimer

WV Geological & Economic Survey:

Well: County = 95 Permit = 1687 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:44:11 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501687 | Tyler | 1687 | McElroy | Center Point | Centerpoint | 39.469484 | -80.678276 | 527673.7 | 4368927.3 |

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE 4709501687 1/19/1998 Original Loc Completed L J Lemasters 3A Donald LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_PR 67696-00 Pennzoil Prod Co Pennzoil Products Company Donald L McCoy

Completion Information:

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
 DEEPEST_FM
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 DEEPEST_F DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AF Unsuccessful Water Injection Rotary Acid+Frac Service Well 2990

API CMP_DT ACTIVITY PRODUCT SECTION DEPTH_TOP FM_TOP DEPTH_BOT FM_BOT G_BEF G_AFT O_BEF O_AFT WATER_QNTY
4709501687 1/19/1998 Horizon Injection Vertical 2929 Gordon 2933 Gordon 0 0
4709501687 1/19/1998 Horizon Injection Vertical 2937 Gordon 2940 Gordon 0 0

There is no Production Gas data for this well

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

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:

SUFFIX FM FM_QUALITY DEPTH_TOP DEPTH_QUALITY THICKNESS THICKNESS_QUALITY ELEV DATUM API SUFFIX FM FM_QUALIT 4709501687 Original Loc Gordon Well Record

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

WR-35 14-Oct-97 API# -095- 1687 State of West Virginia **Division of Environmental Protection** Section of Oil and Gas Well Operator's Report of Well Work Farm name: McCoy, Donald L. Operator Well No.: L.J. Lemasters #3A 1,017.00 LOCATION: Elevation: Quadrangle: Center Point District: Mc Elroy County: Tyler Latitude: 39 Deg 30 Min 0 3,300 Feet south of Sec. Longitude: 11,150 Feet west of 80 Deg 40 Min 0 Sec. Company: PENNZOIL PRODUCTS COMPANY Casing Used in Left Cement P.O. BOX 5519 & Fill Up VIENNA, WV 26105-5519 **Tubing** Drilling in Well Cu. Ft. PHILIP S. ONDRUSEK Agent: Size Inspector: Mike Underwood Permit Issued: 10/14/97 Well work Commenced: 11/11/97 Well work Completed: 1/23/98 8-5/8" 292' 292' 175 Sacks Verbal plugging permission granted on: Rotary Rig 4 1/2" 2989,60' 2989.60' 275 Sacks Cable Total Depth (feet) 2990' Fresh water depths (ft) NA Salt water depths (ft) NA Is coal being mined in area (Y/N) Coal Depths (ft): NA OPEN FLOW DATA *Well was drilled as a waterflood injection well. No open-flow data was obtained Producing formation Pay zone depth (ft) 2,935' Gordon Initial open flow Gas: 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 Second producing formation Pay zone depth (ft) Initial open flow Gas: Oil: Initial open flow Bbl/d MCF/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: Date: 9-14-98

Treatment:

Perforated Gordon sand with 28 holes from 2929'-2940' K.B. Fractured with 300 gals 15% HCL and 202 bbls gelled water and 11,000 lbs. 20/40 sand

Well Log:

All depth are relative to K.B.

0	272 Sand and Shal
272	460 sand
460	528 Shale
528	655 sand
655	722 Shale
722	800 sand
800	838 Shale
838	933 sand
933	1380 Shale
1380	1548 sand
1548	1640 Shale
1640	1778 sand
1778	1854 Shale
1854	1880 sand
1880	2050 Shale
2050	2144 Big Lime
2144	2382 Big Injun
2382	2906 Shale
2906	2935 Gordon Stray
2935	2944 Gordon
2944	3020 Shale

API#

14-Oct-97 47 -095 -01687

4709501687 State of West Virginia Division of Environmental Protection Section of Oil and Gas

Well Operator's Report of Well Work

rarm name:	McCoy, Don	iaid L.		Ope	rator well	No.: L.J.	Lema	office of C	IVED II & Gas	
LOCATION:	Elevation:	1,017.00)	Qua	drangle:	Center Po	int	UIC Se	ection	
	District: Latitude: Longitude:	McElroy 11,150' 3,300'	Feet south of Feet west of		nty: Tyl Deg 30 Deg 40	Min 0	Sec.	MAY Div	1 1998 ision of al Protection	
Company:	PENNZOIL P.O. BOX 5 VIENNA, W	519	S COMPANY		Casing & Tubing			Left in Well	Ceme Fill U Cu. F	p
Agent:	PHILIP S. C	NDRUSEK			Size			* .1* 		
Inspector: Permit Issued:	Mike Under	10/14			8 5/8"	292'		292'	175 Sa	cks
Well work Con Well work Con Verbal pluggin	npleted: B	11/11			4 1/2"	2989.6'		2989.6'	275 S	acks
permission grar Rotary X Total Depth (fe Fresh water de	Cable eet)	Rig 2,990' NA	·					+ 0x - 1		
Salt water dept	hs (ft)	NA						Marian States		
Is coal being m Coal Depths (f		7/N) N	N				. 5.68	. No sur lung (
OPEN FLOW	DATA	*Well wa	as drilled as a wa	aterflo	od injectio	on well. No	open-	flow data w	as obtaine	d
Produ Gas:	cing formation Initial open Final open f Time of op	flow low		ACF/d ACF/d	Fir	Pay zone tial open flowal open flow	w	(ft) Hours		,955' bl/d bl/d
Static	rock pressure		*p	sig (s	urface pr	essure)	afte	r	H	lours
Gas:	d producing for Initial open for Final open for Time of operock pressure	flow low	tween initial ar		Fir	Pay zone tial open flow all open flow ressure)	w	Hours	В	bbl/d bbl/d Iours
OR STIMULATI	NG, PHYSICAL	CHANGE, E	FOLLOWING: 1) IC. 2) THE WELL ONS, INCLUDING	LOG	WHICH IS	A SYSTEMA	TIC D	ETAILED	, , , ,	34003
			For: PENNZ By:	OIL P	RODUC	TS COMPA	NY_		the set of the	1998
			Date:		1-30-	98	<u> </u>			

F. at open they

要接入的2000年11日1日

A CARROLLANDA Grandous (1888)

Side of the local

100 2212

(A,A)

Treatment:

Perforations:

Teatment:

2,929' - 2,933' and 2,937' - 2,940': 4 holes/ft (28 holes) Treated via 4.5" Casing with 300 gals. 15% HCl, 202 bbls. cross-linked gelled water and 11,000 lbs. of 20/40 sand.

morine

Well Log:

* * * * * * * * * * * * * * * * * * *	Sand & Shale	0	-	460	$(t_{X_{i+1}},t_{i+1},T_{i+1},\ldots,T_{i+1})$			
	Sand	460		530	Mat. 1 Sec.			:4.edine,
	Sand & Shale	530		900		r Programa de la composición dela composición de la composición de la composición dela composición dela composición dela composición dela composición de la composición de la composición dela composición dela composición dela composición dela composición dela composición dela composición dela composición dela composición dela composición dela composición dela composición dela composición		
	Sand	900	-	940			*	
	Sand & Shale	940	-	1090				grand
	Shale	1090	¥	1130		्रम्या स्टार्	\$1. 李 <i>俊</i> 春。	- Seppense
	Sand & Shale	1130	- ,	1380	And the second s	The grant of the state of the s		loveli limitu
	Sand Page 19 7 A	1380	-	1420	Andrew Committee Committee	i i i i i i i i i i i i i i i i i i i		O Hrow: Nev
	Sand & Shale	1420	-	1640	and the second	• •		To Hope Base
maga and more of a	Sand	1640	-	1675				<mark>'edbal plugg</mark> Edward et e
	Sand & Shale	1675	-	1800	and the state of the second of	1 min 1 min	skisti i	i ami
!	Shale	1800		1860	mile and	al discontinuo anno anno	(22)	ासुडेर्स ७७०
	Sand	1860	-	1890		e de la compania del compania del compania de la compania del compania de la compania de la compania del compania de la compania de la compania de la compania del compania	Die eine	rest ware
	Sand & Shale	1890	-	2150	n • .		A control of the section of the sect	State where the segment of the eventures
	Sand Concentration	2150	-	2250	e e	gant - Servenin sen		a to the state of
	Sand & Shale	2250	-	2330	· 		rote in Junior	raced of toron.
	Shale	2330	-	2893	man in the same			altqa C fari
	Gordon	2893	-	2955	in the second set second in the second in th	territorio esta de sentencia de como esta en		7. 2.
?t *	Sand & Shale	2955	•	3000 여행	wa na hallin ta a se	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	MIAGN	क्षा प्रस्त
	Depth driller	2990		•	Control	§ % €	lucing formatio	er er er er er er er er er er er er er e
plant (Maria	Depth logger	3000			The same of the sa	Woir		8.0

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Harri Nys

WVGES O&G Record Reporting System 4709501688



Select datatypes: \Box (Check All) Select County: (095) Tyler Production Plugging Location Enter Permit #: 1688 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Logs Pay/Show/Water ✓ Btm Hole Loc

Usage Notes Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 95 Permit = 1688 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:44:44 AM

Location Information: View Map

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE 4709501688 6/17/1998 Original Loc Completed Donald L McCoy 13-A A D Len LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLET
12958-50 Pennzoil Prod Co et al Pennzoil Products Company OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_P A D Lemasters

Completion Information:

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
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 DEEPEST_F DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AF Unsuccessful Water Injection Rotary Acid+Frac Service Well 3050

There is no Production Gas data for this well

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

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_0	QUALITY	ELEV	DATUM
4709501688	Original Loc	Big Lime	Well Record	2138	Reasonable	55	Reasonable		1054	Ground Level
4709501688	Original Loc	Big Injun (Price&eq)	Well Record	2193	Reasonable	174	Reasonable		1054	Ground Level
4709501688	Original Loc	Gordon	Well Record	2950	Reasonable	40	Reasonable		1054	Ground Level

- Wireline (E-Log) Information:
 * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

t-35

14-Oct-97 API# 47-95-01688 S

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

Well Operator's Report 13 4548 Work Farm name: McCOY, DONALD L. Operator Well No.: A.D. Lemasters #13-A LOCATION: Elevation: 1,054.00 Ouadrangle: **CENTER POINT** District: **McELROY** County: TYLER 39 Deg 30 Min Latitude: 12,550 Feet south of 0 Sec. 80 Deg 40 Min Longitude: 3.450 Feet west of 0 Sec. PENNZOIL EXPLORATION & Company: Casing Used in Left Cement PRODUCTION CO., P.O. BOX 5519 & Fill Up VIENNA. WV 26105-5519 Tubing Drilling in Well Cu. Ft. Size Agent: PHILIP S. ONDRUSEK Inspector: MIKE UNDERWOOD Permit Issued: 10/14/97 Well work Commenced: 4/28/98 8-5/8 Well work Completed: 6/17/98 327.5 327.5 110 SKS Verbal plugging permission granted on: Rotary X Cable Rig 4 1/2" 3017.9 3017.9 275 SKS Total Depth (feet) 3.05Ō Fresh water depths (ft) NA NA Salt water depths (tt) Is coal being mined in area (Y/N) N Coal Depths (ft): NA * Water Injection Well **OPEN FLOW DATA** Gordon Sand Pay zone depth (ft) Producing formation 2950-2990 Initial open flow MCF/d Oil: Initial open flow Bbl/d Gas: 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 Second producing formation Pay zone depth (ft) MCF/d Initial open flow Oil: Initial open flow Bbi/d Gas: 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) 1HE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTEREDBY THE WELLBORE

For: PENNZOIL PRODUCTS COMPANY

By: Date: TYLER 16885

j

)

Treatment: Derforated Gordon Sand from 2963' to 2967' and 2971' to 2973' w/ 24 holes.

Treated w/ 300 gal. 15% HCl, 231 bbl cross-linked gelled water, and 13,000 lbs

20/40 sand (last 4,000# resin coated sand).

Well Log: All depths are measured relative to ground level.

Shale and Sand	0	-	501
Sand	501	-	520
Shale and Sand	520	-	700
Sand	700	•	757
Shale and Sand	757	•	921
Sand	921	-	966
Sand and Shale	966	-	1058
Sand	1058	-	1080
Shale and Sand	1080	-	1250
Sand	1250	-	1339
Sand and Shale	1339	-	1797
Sand	1797	-	1818
Sand and Shale	1818	-	1904
Sand	1904	-	1923
Sand and Shale	1923	-	2138
Big Lime	2138	•	2193
Big Injun	2193	-	2367
Shale and Sand	2367	•	2950
Gordon Sand	2950	-	2990
Shale	2990	-	3045

WVGES O&G Record Reporting System 4709501749



Select County:	(095) Tyler	Y	Select datatypes: (Check All)							
Enter Permit #:	1749		Location	Production	Plugging					
Get Data	Reset		✓ Owner/Completion✓ Pay/Show/Water	✓ Stratigraphy ✓ Logs	✓ Sample ✓ Btm Hole Loc					

Contact Information

WV Geological & Economic Survey:

Well: County = 95 Permit = 1749 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:45:13 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501749 | Tyler | 1749 | McElroy | Center Point | Centerpoint | 39.434923 | -80.697158 | 526062.4 | 4365086.1

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 I	PROP_TRGT_FM TFI
4709501749	9/2/2003 Original Loc	Completed	Dorsey Baker Heirs et al.	12	Dorsey Baker Heirs	13130-50 Fast Resources Inc et al.	Fast Resources, Inc.	

Completion Information:

API	CMP_DT SP	UD_DT ELE	V DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD NEW_FTG KOD G_BEF G_AFT O_BE
4709501749	9/2/2003 8/1	12/2003 12	'4 Ground Level	Bearsville	Catskill	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3299	3299

Pay/Show/Water Information:

PRODUCT SECTION DEPTH_TOP FM_TOP DEPTH_BOT FM_BOT G_BEF G_AFT O_BEF O_AFT WATER_QNTY API CMP_DT ACTIVITY 4709501749 9/2/2003 Water Flood 3144 Gordon

There is no Production Gas data for this well

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

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
4709501749	Original Loc	Big Lime	Well Record	2312	Reasonable	102	Reasonable	1274	Ground Level
4709501749	Original Loc	Big Injun (undiff)	Well Record	2414	Reasonable	154	Reasonable	1274	Ground Level
4709501749	Original Loc	Gordon Stray	Well Record	3130	Reasonable	10	Reasonable	1274	Ground Level
4709501749	Original Loc	Gordon	Well Record	3140	Reasonable	19	Reasonable	1274	Ground Level

- Wireline (E-Log) Information:
 * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

API#

1-Jul-03 47 095 01749

CORRECTED

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

		Well O _l	perator's F	Repor	t of Well	Work		,	MP
Farm name:	DORSEY BA	KER HRS.		Oper	ator Well	No.: BAKI	ER HRS 12	/	,
LOCATION:	Elevation:	1,274.00		Quad	lrangle:	CENTERP	OINT 7.5'		
	District: Latitude: Longitude:	MCELROY 8,575 Feet 8,675 Feet			ty: TYI Deg 27 Deg 40	Min 30	Sec.		
Company:	EAST RESO P.O. BOX 55 VIENNA, W				Casing & Tubing	Used in Drilling	Left in Well	F	Cement Fill Up Cu. Ft.
Agent:	MICHAEL M	ICCOWN			Size				
Inspector: Permit Issued:	MIKE UNDE	07/01/03							
Well work Com Well work Com Verbal plugging	pleted:	08/12/03 09/02/03	<u> </u>		7"	1358.95	1358.95	335	sks
permission gran Rotary X Total Depth (fee	Cable	Rig 3,299	_		4 1/2"	3274.00'	3274.00'	145	sks
Fresh water dep	ths (ft)	NA NA					Office of Oil &		
Salt water depth	s (ft)	NA					Office of Office Permitting	285	
Is coal being mi Coal Depths (ft)		N) NA N	_				OCT 3 1 20		
OPEN FLOW D	DATA	Waterflood inj	ector				WV Departme Environmental Pro	nt or etection	H
Produc	ing formation		Gordon			Pay zone d		3140'	-3159'
Gas:	Initial open fl					al open flow			_Bbl/d
	Final open flo	ow n flow between		CF/d		ıl open flow	Hours	<u></u>	Bbl/d
Static re	ock pressure	——————————————————————————————————————			rface pre	ssure)	after		Hours
Second	producing for	mation				Pay zone d	epth (ft)		
Gas:	Initial open fl					al open flow			Bbl/d
	Final open flo			CF/d		ıl open flow	Hours		Bbl/d
Static re	ock pressure	n flow between			ir tests irface pre	ssure)	after		Hours
NOTE: ON BACK OR STIMULATIN GEOLOGICAL RE	G, PHYSICAL C	HANGE, ETC. 2)	THE WELL	LOG W	HICH IS A	SYSTEMAT	IC DETAILED	ΓURIN	G

For: EAST RESOURCES/INC.

By: See Meld

10/30/63

Treatment:

Treated perfoations 3144'-3158' w/ 250 gals 15% HCL, 318 bbls cross linked gel and 19,600# 20/40 sand

Well Log:	Sand and Shale	0'	181'
	Sand	181'	186'
	Shale	186'	216'
	Sand	216'	228'
	Shale	228'	462'
	Sand	462'	476'
	Shale	476'	898'
	Sand	898'	964'
	Shale	964'	1086'
	Sand	1086'	1100'
	Shale	1100'	1140'
	Sand	1140'	1172'
	Shale	1172'	1282'
	Sand	1282'	1315'
	Shale	1315'	1630'
	Sand	1630'	1648'
	Shale	1648'	1660'
	Sand	1660'	1684'
	Shale	1684'	1774'
	Sand	1774'	1824'
	Shale	1824'	1860'
	Sand	1860'	1880'
	Shale	1880'	2032'
	Sand	2032'	2064'
	Shale	2064'	2286'
•	Sand	2286'	2300'
	Shale	2300'	2312'
	Big Lime	2312'	2414
	Big Injun	2414'	2568
	Shale	2568'	3130
	Gordon Stray	3130'	3140
	Gordon	3140'	3159

shale

TD

3299'

3159'

3299'

WVGES O&G Record Reporting System 4709501750



Select datatypes: \Box (Check All) Select County: (095) Tyler Production Plugging Location Enter Permit #: 1750 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Pay/Show/Water Logs ✓ Btm Hole Loc

Usage Notes Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey

Well: County = 95 Permit = 1750 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:46:03 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501750 | Tyler | 1750 | Meade | Center Point | Centerpoint | 39.436954 | -80.691548 | 526544.3 | 4365313 |

There is no Bottom Hole Location data for this well

Owner Information:

Α	ŀΡΙ	CMP_DT	SUFFIX	STATUS	SURFACE_0	OWNER WEL	_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR	AT_COMPLETION	PROP_\	VD PRO	P_TRGT_	FM T	-M
4	709501750	4/29/2004	Dytd Orani Loc	Completed	Ray F Glove	r.lr.et.al	15	Martha Elder 15	Marth Elder	99174-00	Fast Resources Inc et al.	Fast Resource	es Inc					

Completion Information:

API CMP_DT SPUD_DT ELEV DATUM FIELD DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTH 4709501750 4/29/2004 3/16/2004 893 Ground Level Jksnbg-Strngtwn Hampshire Grp Gordon Service Well Unsuccessful Water Injection Rotary Acid+Frac Comment: 4/29/2004 Drilled directionally with bottom hole location 861ft S and 78ft W of surface location. RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AFT 3097 3097

Pay/Show/Water Information

ay/onlow/water information.																		
API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_1	ОР	FM_TOP	DEPTH_	BOT	FM_BOT	G_BE	F G_	AFT	O_BEF	O_AFT	WATER	R_QNTY	7
4709501750	4/29/2004	Water	Fresh Water	Vertical					38	Pennsylvanian System								
4709501750	4/29/2004	Water	Fresh Water	Vertical					95	Pennsylvanian System								
4709501750	4/29/2004	Horizon	Injection	Deviated	2	976	Gordon		2989	Gordon								

There is no Production Gas data for this well

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

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:

Citatigraphy information.										
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM	
4709501750	Dvtd Orgnl Loc	Big Lime	Well Record	2136	Deviated Drlg	60	Deviated Drlg	893	Ground Level	
4709501750	Dvtd Orgnl Loc	Big Injun (undiff)	Well Record	2196	Deviated Drlg	191	Deviated Drlg	893	Ground Level	
4709501750	Dvtd Orgnl Loc	Gordon Stray	Well Record	2962	Deviated Drlg	16	Deviated Drlg	893	Ground Level	
4709501750	Dvtd Orgnl Loc	Gordon	Well Record	2978	Deviated Drlg	12	Deviated Drlg	893	Ground Level	
4709501750	Dvtd Orani Loc	Cavugan Group	WVGES Staff Geologist	2990	Deviated Drlg	107	Deviated Drlg	893	Ground Level	

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

API#

9-Jul-03 095 1750

State of West Virginia **Division of Environmental Protection** Section of Oil and Gas

Well Operator's Report of Well Work

MB
Cement Fill Up Cu. Ft.
120 sks
300 sks
OII & Gas of Chief

Farm name: GLOVER, RAY F. JR., ETAL Operator Well No.: MARTHA ELDER 15 LOCATION: Elevation: 893.00 Quadrangle: **CENTERPOINT 7.5'** District: **MCELROY** County: **TYLER** Latitude: 7.825 Feet south of 39 Deg 27 Min 30 Sec. Longitude: 7,075 Feet west of 80 Deg 40 Min 00 Sec. EAST RESOURCES, INC. Company: Casing Used in Left P.O. BOX 5519 & VIENNA, WV 26105-5519 Tubing Drilling in Well Agent: PHILIP S. ONDRUSEK Size Inspector: MIKE UNDERWOOD Permit Issued: 07/09/03 Well work Commenced: 03/16/04 Well work Completed: 04/29/04 8 5/8" 220.00' 220.00' Verbal plugging permission granted on: Rotary Cable Rig X 4 1/2" 3041.20' 3041.20' Total Depth (feet) 3097 Fresh water depths (ft) 38, 95 Salt water depths (ft) NA NA Is coal being mined in area (Y/N) 50 Soon Coal Depths (ft): NA W Department o This well was directionally drilled with bottom hole location 861' S and 78' W of Surface location open flow **OPEN FLOW DATA** Producing formation MCF/d Oil: Initial open flow Initial open flow Gas: Bbl/d Final open flow MCF/d Final open flow Bbl/d Time of open flow between initial and final tests Hours psig (surface pressure) Static rock pressure after Hours Second producing formation Pay zone depth (ft) Initial open flow Gas: 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: EAST RESOURCES, INC. By:

Date:

Treatment:

Treated perforations 2976'-2989' w/ 250 gals 15% HCL, 326 Bbls cross linked gel and 21,000 # 20/40 sand

Well Log:	0	534	Sand and Shale
	534	590	Sand
	590	762	Shale
	762	794	Sand
	794	1198	Shale
	1198	1222	Sand
	1222	1321	Shale
	1321	1404	Sand
	1404	1610	Shale
	1610	1628	Sand
	1628	1857	Shale
	1857	1884	Sand
	1884	2110	Shale
	2110	2136	Sand
	2136	2196	Big Lime
	2196	2387	Big Injun
	2387	2962	Shale
	2962	2978	Gordon Stray
	2978	2990	Gordon

2990

3097

Shale

$\mathsf{WVGES}\ \mathsf{O\&G}\ \mathsf{Record}\ \mathsf{Reporting}\ \mathsf{System}\ \mathbf{4709501763}$



Select datatypes: \Box (Check All) Select County: (095) Tyler Production Plugging Location Enter Permit #: 1763 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Pay/Show/Water Logs ✓ Btm Hole Loc Table Descriptions
County Code Translations
Permit-Numbering Series Usage Notes Contact Information Disclaimer WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey

Well: County = 95 Permit = 1763 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:46:31 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501763 | Tyler | 1763 | McElroy | Center Point | Centerpoint | 39.440289 | -80.691362 | 526559.1 | 4365683.2

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT SUFFIX	STATUS SURFACE_OWNER W	ELL_NUM CO_NUM LEASE	LEASE_NUM MINERAL_OWN	OPERATOR_AT_COMPLET	ION PROP_VD PROP_TRGT_FM TFN
470950	01763 4/29/2004 Dytd Orani Lo	oc Completed Ray F Glover Ir et al	16 Martha Elder 16 Martha Elder	99174-00 Fast Resources Inc et al	I Fast Resources Inc	Gordon

Completion Information:

API CMP_DT SPUD_DT ELEV DATUM FIELD DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTH 4709501763 4/29/2004 4/16/2004 1159 Ground Level Jksnbg-Strngtwn Hampshire Grp Gordon Service Well Unsuccessful Water Injection Rotary Acid+Frac Comment: 4/29/2004 Drilled directionally with bottom hole location 358ft S and 256ft W of surface location. CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AFT 3239 3239

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH	TOP	FM_TOF	DEPTH_BO	DT F	FM_BOT	G_BEF	G_AFT	O_E	BEF	O_AFT	WATER	QNTY
4709501763	4/29/2004	Water	Fresh Water	Vertical				_ 6	10								_
4709501763	4/29/2004	Water Flood	Injection	Deviated		3084	Gordon	30	98 (Gordon							

There is no Production Gas data for this well

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

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:

Ollaligrapii	Stratigraphy information.										
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM		
4709501763	Dvtd Wrkd Ovr	Big Lime	Well Record	2212	Deviated Drlg	92	Deviated Drlg	1159	Ground Level		
4709501763	Dvtd Wrkd Ovr	Big Injun (undiff)	Well Record	2304	Deviated Drlg	126	Deviated Drlg	1159	Ground Level		
4709501763	Dvtd Wrkd Ovr	Gordon Stray	Well Record	3052	Deviated Drlg	6	Deviated Drlg	1159	Ground Level		
4709501763	Dvtd Wrkd Ovr	Gordon	Well Record	3074	Deviated Drlg	24	Deviated Drlg	1159	Ground Level		
4709501763	Dvtd Wrkd Ovr	Hampshire Grp	WVGES Staff Geologist	3098	Deviated Drlg	138	Ostnble Pick	1159	Ground Level		

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

13-Feb-04 API# 47 095 1763

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

MP

Well Operator's Report of Well Work

Farm name:	GLOVER, RA	AY F. JR.,ETAL	Oper	ator Well	No.: MAR	THA ELDER 10	Ó
LOCATION:	Elevation:	1,159.00	Qua	drangle:	CENTERP	OINT 7.5'	
	District: Latitude: Longitude:	MCELROY 6,625 Feet south of 7,000 Feet west of	Cour 39 80	nty: TYL Deg 27 Deg 40	Min 30	Sec.	
Company:		URCES, INC.		Casing	Used in	Left	Cement Fill Up
	P.O. BOX 55 VIENNA, W	19 V 26105-5519		& Tubing	Drilling	in Well	Cu. Ft.
Agent:	PHILIP S. Of	NDRUSEK		Size		1	
Inspector: Permit Issued:	MIKE UNDE	02/13/04					
Well work Com Well work Com Verbal plugging	npleted:	04/16/04 04/29/04		8 5/8"	438.00'	438.00'	200 sks
permission gran Rotary X Total Depth (fee	nted on: _Cable			4 1/2"	3220.05'	3220.05'	300 sks
Fresh water dep	oths (ft)	610				Offic	CEIVED of Oil & Gas ice of Chief
Salt water depth	ns (ft)	NA NA					2000
Is coal being m		/N) N_				MÁ	
Coal Depths (ft	·):	NA NA				Fnviro	Department of nmental Protection
OPEN FLOW I		Water Injection Well	241.1	u 11 1	4: 2501 6	L	
Produc	This we sing formation	ell was directionally drilled v Gordon		ttom note ic	Pay zone d	lepth (ft)	3082-3098
Gas:	Initial open f	low * N	MCF/d		al open flov	<i>N</i>	* Bbl/d
	Final open flo		MCF/d		al open flow	* Hours	* Bbl/d
Static	Time of operock pressure	en flow between initial a	ına 111. əsig (s	urface pre	essure)	after	Hours
	•		3018 (3				
	d producing for		MCE/A	Oil Init	Pay zone of all open flow		Bbl/d
Gas:	Initial open for Final open fl		MCF/d		al open flow		Bbl/d
	Time of open	en flow between initial a	and fir	nal tests	<u>-</u>	Hours	
Static	rock pressure	I	osig (s	surface pre	essure)	after	Hours
OR STIMULATIN	NG, PHYSICAL (4, PUT THE FOLLOWING: 1) CHANGE, ETC. 2) THE WELL FORMATIONS, INCLUDING	L LOG	WHICH IS A	A SYSTEMAT	TIC DETAILED	TURING
		For: EAST I	RESOU	JRCES, IN	NC.	<u> </u>	
		By:			15u 10	(Ida	
		Date:			5/19/04	•	

Treatment:

Treated perforations 3084'-3098' w/ 250 gals 15% HCL, 342 Bbls cross linked gel and 21,500 # 20/40 sand

Well Log:	0	344	Sand and Shale
	344	372	Sand
	372	512	Shale
	512	540	Sand
	540	643	Shale
	643	666	Sand
	666	809	Shale
	809	868	Sand
	868	1024	Shale
	1024	1060	Sand
	1060	1182	Shale
	1182	1207	Sand
	1207	1410	Shale
	1410	1451	Sand
	1451	1488	Shale
	1488	1504	Sand
	1504	1526	Shale
	1526	1547	Sand
	1547	1598	Shale
	1598	1644	Sand
	1644	1900	Shale
	1900	1990	Sand
	1990	2212	Shale
	2212	2304	Big Lime
	2304	2430	Big Injun
	2430	3052	Shale
	3052	3058	Gordon Stray
	3058	3074	Shale
	3074	3098	Gordon

3098

3236

Shale

WVGES O&G Record Reporting System 4709501766



Select County: (095) Tyler
Select datatypes: (Check AII)

Enter Permit #: 1766

Get Data

Reset

Select datatypes: (Check AII)

Location

V Production
Stratigraphy
Stratigraphy
V 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"

WV Geological & Economic Survey:

Well: County = 95 Permit = 1766 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:46:58 AM

Location Information: View Map

| API | COUNTY PERMIT TAX DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501766 | Tyler | 1766 | McElroy | Center Point | Centerpoint | 39.445138 | -80.691129 | 526577.4 | 4366221.4

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SUFFACE_OWNER WELL_NUM CO_NUM LEASE LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFI 4709501766 4/89/2010 Dvtd Wrkd Ovr Completed Stephen Paul Glover 13 Phomer 13 Peter Horner 13 Peter Horner 15460-50 East Resources Inc. East Resources, Inc. 2885 Gordon

Completion Information:

API CMP_DT SPUD_DT ELEV DATUM FIELD DEEPEST_FM DEEPEST_FM DEEPEST_FM INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AF 4709501766 4/89/2004 4/81/2010 4/61/2010 812 Ground Level Jksnbg-Strngtwn Hampshire Grp Gordon Service Well Unsuccessful Water Injection Rotary Acid+Frac 2885 2885 4/10/2010 4/61/2010 812 Ground Level Jksnbg-Strngtwn Hampshire Grp Gordon Service Well Unsuccessful Water Injection Rotary Acid+Frac 2885 0

Comment: 4/29/2004 Drilled directionally with bottom hole location 278ft S and 379ft W of surface location.

Comment: 4/8/2010 No open flow data reported

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 4709501766 4//29/2004 Horizon Injection Deviated 2785 Gordon 2800 Gordon 4//2014 Horizon Injection Deviated 2783 Gordon 2817 Gordon 2817 Gordon

Production Gas Information: (Volumes in Mcf) * 2023 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	1
4709501766	East Resources, Inc.	2004	_ 0	0	0	0	0	0	0	0	0	0	0	0	0	
4709501766	East Resources, Inc.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	
4709501766	East Resources, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	
4709501766	East Resources, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	
4709501766	East Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0	
4709501766	East Resources, Inc.	2010	0	0	0	0	0	0	0	0	0	0	0	0	0	
4709501766	East Resources, Inc.	2011	0	0	0	0	0	0	0	0	0	0	0	0	0	
4709501766	HG Energy, LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0	
4709501766	HG Energy, LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0	ı
4709501766	HG Energy, LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0	1

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil *2023 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
4709501766	East Resources, Inc.	2004	2,887	0	0	0	0	0	0	400	788	507	501	379	312
4709501766	East Resources, Inc.	2005	199	168	31	0	0	0	0	0	0	0	0	0	0
4709501766	East Resources, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501766	East Resources, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501766	East Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501766	East Resources, Inc.	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501766	East Resources, Inc.	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501766	HG Energy, LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501766	HG Energy, LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501766	HG Energy, LLC	2014	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 * 2023 data for H6A wells only. Other wells are incomplete at this time.

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
4709501766	Dvtd Orgnl Loc	Big Lime	Well Record	1925	Deviated Drlg	66	Deviated Drlg	812	Ground Level
4709501766	Dvtd Orgnl Loc	Big Injun (undiff)	Well Record	1991	Deviated Drlg	171	Deviated Drlg	812	Ground Level
4709501766	Dvtd Orgnl Loc	Gordon Stray	Well Record	2756	Deviated Drlg	6	Deviated Drlg	812	Ground Level
4709501766	Dytd Oranl Loc	Gordon	Well Record	2774	Deviated Drlg	30	Deviated Drlg	812	Ground Level

Wireline (E-Log) Information:

* There is no Scanned/Raster Log data for this well

* There is no Digitized/LAS Log data for this well

* There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

API#

22-Mar-04 47 095 1766

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

My

Well Operator's Report of Well Work

Farm name:	GLOVER, ST	EPHEN, PAUL	Oper	ator Well	No.: P. HC	PRNER 13	
LOCATION:	Elevation:	812.00	Quad	drangle:	CENTERP	OINT 7.5'	
	District: Latitude: Longitude:	MCELROY 4,825 Feet south of 6,945 Feet west of		nty: TYL Deg 27 Deg 40	Min 30	Sec. Sec.	
Company:	EAST RESOU P.O. BOX 551			Casing &	Used in	Left	Cement Fill Up
		7 26105-5519		Tubing	Drilling	in Well	Cu. Ft.
Agent:	PHILIP S. ON	IDRUSEK		Size		1	
Inspector: Permit Issued: Well work Com	MIKE UNDE	RWOOD 03/22/04 04/03/04					
Well work Com Verbal plugging	pleted:	04/29/04		8 5/8"	306.00'	306.00'	125 sks
permission gran Rotary X Total Depth (fee	Cable	Rig 2885		4 1/2"	2875.00'	2875.00'	300 sks
Fresh water depth		NA NA				Office of Office	NED Oil & Gas of Chief
Is coal being mi		<u>NA</u> N) N				YAM !	50 5004
Coal Depths (ft)		NA					epartment of
OPEN FLOW D	DATA	Water Injection Well				Environ	epartment of mental Protection
D . 1 -		ell directionally drilled with	h botte	om hole lo	cation 278'	S and 379' W of	surface location 2785-2800
Gas:	ing formation Initial open flo	Gordon * M	ICF/d	Oil: Initi	Pay zone d al open flov		* Bbl/d
0	Final open flo	* N	ICF/d	Fina	al open flow		* Bbl/d
a.		n flow between initial ar				* Hours	Hauma
Static r	ock pressure	ps	sig (si	urface pre	ssure)	after	Hours
	producing form		<u> </u>		Pay zone d	* ` '	
Gas:	Initial open flo		1CF/d 1CF/d		al open flow al open flow		Bbl/d Bbl/d
	Final open flo	n flow between initial ar			n open now	Hours	
Static r	ock pressure	p:	sig (s	urface pre	ssure)	after	Hours
OR STIMULATIN	G, PHYSICAL C	, PUT THE FOLLOWING: 1) I HANGE, ETC. 2) THE WELL FORMATIONS, INCLUDING	LOG V	WHICH IS A	SYSTEMAT	IC DETAILED	TURING
		For: EAST R	ESOU	JRCES, IN		1.1	
		By:			gu N	Udm.	
		Date:				/ / 7/04	

Treatment:

Treated perforations 2785-2800' w/ 250 gals 15% HCL, 322 Bbls cross linked gel and 20,000 # 20/40 sand

Well Log:	0	418	Sand and Shale
Well Log.	418	436	Sand
	436	476	Shale
	476	524	Sand
	524	704	Sand and Shale
	704	736	Sand
	736	1090	Shale
	1090	1108	Sand
	1108	1153	Shale
	1153	1174	Sand
	1174	1262	Shale
	1262	1300	Sand
	1300	1310	Shale
	1310	1362	Sand
	1362	1900	Shale
	1900	1925	Sand
	1925	1991	Big Lime
	1991	2162	Big Injun
	2162	2756	Shale
	2756	2762	Gordon Stray
	2762	2774	Shale
	2774	2804	Gordon
			011-

2804

2885

Shale

WVGES O&G Record Reporting System 4709501770



Select datatypes: \Box (Check All) Select County: (095) Tyler Production Plugging Location Enter Permit #: 1770 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

Jsage Notes Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 95 Permit = 1770 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:47:27 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501770 | Tyler | 1770 | McElroy | Center Point | Centerpoint | 39.440579 | -80.696973 | 526076.1 | 4365713.8

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE 4709501770 5/27/2004 Original Loc Completed Mrs Homer Tennant 3 Tennant Heirs 3 Tennant Heirs LEASE_NUM MINERAL_OWN OPERATOR_AT_CO 99276-00 East Resources Inc et al East Resources, Inc OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_

Completion Information:

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
 DEEPEST_FM
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 DEEPEST_F DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AF Unsuccessful Water Injection Rotary Acid+Frac Service Well 3234

API CMP_DT ACTIVITY PRODUCT SECTION DEPTH_TOP FM_TOP DEPTH_BOT FM_BOT G_BEF G_AFT O_BEF O_AFT WATER_QNTY 4709501770 5/27/2004 Horizon Injection Vertical 3131 Gordon 3139 Gordon

There is no Production Gas data for this well

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

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:

oracigraphy mioritation.									
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4709501770	Original Loc	Big Lime	Well Record	2318	Reasonable	62	Reasonable	1247	Ground Level
4709501770	Original Loc	Big Injun (undiff)	Well Record	2380	Reasonable	170	Reasonable	1247	Ground Level
4709501770	Original Loc	Gordon Stray	Well Record	3105	Reasonable	19	Reasonable	1247	Ground Level
4709501770	Original Loc	Gordon	Well Record	3124	Reasonable	18	Reasonable	1247	Ground Level
4709501770	Original Loc	Hampshire Grp	WVGES Staff Geologist	3142	Reasonable	92	Qstnble Pick	1247	Ground Level

- Wireline (E-Log) Information:
 * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

API#

7-Apr-04 47 095 1770

4709501770 State of West Virginia Division of Environmental Protection Section of Oil and Gas

Well Operator's Report of Well Work

for 1	フ
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Farm name:	TENNANT,	HOMER MRS.	Ope	rator Well	No.: TENI	NANT HRS 3	
LOCATION:	Elevation:	1,247.00		drangle:	CENTERP		
	District: Latitude: Longitude:	MCELROY 6,475 Feet sor 8,625 Feet we		nty: TYI Deg 27 Deg 40	LER Min 30	Sec. Sec.	
Company:	P.O. BOX 55	URCES, INC. 19 V 26105-5519		Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Agent:	PHILIP S. Of	NDRUSEK		Size			
Inspector: Permit Issued: Well work Com	MIKE UNDE	ERWOOD 04/07/04 05/06/04					
Well work Com Verbal plugging permission gran	pleted:	05/27/04		8 5/8"	570.00'	570.00'	250 sks
Rotary X Total Depth (fee Fresh water dep	_Cable et)	Rig 3234 NA		4 1/2"	3195.10	3195.10'	300 sks
Salt water depth		NA NA				Office of Chief	
ls coal being min Coal Depths (ft)	ned in area (Y/ :	N) NA N	j		/ / ik	N Department of Onmental Protection	
OPEN FLOW D	ATA	Water Injection we	11				1
Gas:	ng formation Initial open flo Final open flo Time of oper)W *	MCF/d	Oil: Initia Final	Pay zone de al open flow open flow		3124-3140 * Bbl/d * Bbl/d
Static ro	ock pressure	*		rface pres	sure) a	after	Hours
Gas:	producing form Initial open flo Final open flo Time of open)W	MCF/d ial and fina	Oil: Initia Final l tests	Pay zone de l open flow open flow	Hours	Bbl/d Bbl/d
IOTE: ON BACK (OR STIMULATING	i, PHYSICAL CH	PUT THE FOLLOWING IANGE, ETC. 2) THE V ORMATIONS, INCLUI	G: 1) DETAIL WELL LOG W	HICH IS A S	ORATED INT	DETAILED	Hours
		For: EA By Da		RCES, INC	Zu Del	du	
		~ ~ ~			5/	47/04	-

Treatment:

Treated perforations 3131' -3139' w/ 250 gals 15% HCL, 327 Bbls cross linked gel and 21,000 # 20/40 sand

Well Log:

0	883	Sand and Shale
883	949	Sand
949	986	Shale
986	996	Sand
996	1071	Shale
1071	1083	Sand
1083	1122	Shale
1122	1161	Sand
1161	1274	Shale
1274	1291	Sand
1291	1464	Shale
1464	1542	Sand
1542	1600	Shale
1600	1637	Sand
1637	1680	Shale
1680	1728	Sand
1728	1800	Shale
1800	1810	Sand
1810	1850	Shale
1850	1872	Sand
1872	2061	Shale
2061	2106	Sand
2106	2266	Shale
2266	2318	Sand
2318	2380	Big Lime
2380	2250	Big Injun
2250	3105	Shale
3105	3124	Gordon Stray
3124	3142	Gordon
3142	3234	Shale

$\mathsf{WVGES}\ \mathsf{O\&G}\ \mathsf{Record}\ \mathsf{Reporting}\ \mathsf{System} \\ \mathbf{4709501777}$



Select County: (095) Tyler Select datatypes: (Check All) Location Production Plugging Enter Permit #: 1777 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Logs ✓ Pay/Show/Water ✓ Btm Hole Loc

Usage Notes Contact Information Disclaimer "Pipeline-Plus

WV Geological & Economic Survey:

Well: County = 95 Permit = 1777 Link to all digital records for well

Report Time: Thursday, November 30, 2023 9:47:53 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501777 | Tyler | 1777 | McElroy | Center Point | Centerpoint | 39.434277 | -80.700935 | 525737.6 | 4365013.2 |

There is no Bottom Hole Location data for this well

Owner Information:

 LEASE_NUM
 MINERAL_OWN
 OPERATOR_AT_CO

 12868-50
 East Resources Inc et al East Resources et al
 East Resources, Inc. East Resources, Inc.

 API
 CMP_DT
 SUFFIX
 STATUS
 SURFACE_OWNER
 WELL_NUM
 CO_NUM
 LEASE

 4709501777
 11/1/2004
 Original Loc
 Completed
 David W Lemasters
 6
 Baker 6
 Isaac Baker 4

 4709501777
 1/25/2010
 Worked Over
 Completed
 David W Lemasters
 6
 Isaac Baker 6
 Isaac Baker 6
 OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_ES 2970 Gordon

 DEEPEST_FM
 DEEPEST_FMT
 INITIAL_CLASS
 FINAL_CLASS
 TYPE

 Hampshire Grp
 Gordon
 Service Well
 Unsuccessful
 Water I

 Hampshire Grp
 Gordon
 Development Well
 Development Well
 Gas

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
 DEEPEST_FM
 DEEPES

 4709501777
 11/1/2004
 10/21/2004
 933
 Ground Level
 Jksnbg-Strngtwn
 Hampshire Grp
 Gordon

 4709501777
 1/25/2010
 1/22/2010
 933
 Ground Level
 Jksnbg-Strngtwn
 Hampshire Grp
 Gordon
 CMP MTHD TVD TMD NEW FTG KOD G BEE G RIG Water Injection Rotary Acid+Frac 2970 Rotary Acid+Frac 2970

Comment: 1/25/2010 Waterflood producer. No open flow data given

Pay/Show/Water Information:

Other wells are incomplete at this time.

4709501777 East Resources, Inc.

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
4709501777	Original Loc	Big Lime	Well Record	1979	Reasonable	101	Reasonable	933	Ground Level
4709501777	Original Loc	Big Injun (undiff)	Well Record	2080	Reasonable	153	Reasonable	933	Ground Level
4709501777	Original Loc	Gordon Stray	Well Record	2775	Reasonable	19	Reasonable	933	Ground Level
4709501777	Original Loc	Gordon	Well Record	2794	Reasonable	26	Reasonable	933	Ground Level

Wireline (E-Log) Information:
* There is no Scanned/Raster Log data for this well

There is no Plugging data for this well

^{*} There is no Digitized/LAS Log data for this well

^{*} There is no Scanned or Digital Logs available for download

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

4709501777

API#

12/30/2009

47 095 01777

Well Operator's Report of Well Work

14.	ULUE.	wen of	perator 8 i	Kehor	r or Averr	WOLK			
Farm nappenito	LEMASTER	S, DAVID		Oper	ator Well	No.: BAK	ER 6		
LOCATION:	Elevation:	933.00		Quac	lrangle:	CENTERP	OINT 7.5'		
	District: Latitude: Longitude:	MCELROY 8,750 Feet 9,725 Feet			nty: TYI Deg 27 Deg 40	Min 30	Sec. Sec.		
Company:	P.O. BOX 55	URCES, INC. 519 V 26105-5519			Casing/ tubing Size	Used in Drilling	Left in Well	Fil	ment l Up ı. Ft.
Agent:	PHILIP S. O	NDRUSEK							
Inspector: Permit Issued: Well work Com Well work Com Verbal plugging	pleted:	PR 12/30/09 01/22/10 01/25/10							
permission gran	ted on: _Cableet)	Rig 2,970	_		7"	257.00'	257.00'	70	sks
Salt water depth		NA			4 1/2"	2931.00'	2931.00'	150	sks
Is coal being mi Coal Depths (ft)	·	NA NA * WATERFLO	_ _ OOD PRO	DUCE	R	:			
Produc	ing formation		Gordon			Pay zone de		2794-29	913'
Gas:	Initial open f			CF/d CF/d		al open flow	7	*	Bbl/d Bbl/d
	Final open flor	ow on flow between				al open flow	Hours	•	Bol/a
Static r	ock pressure				rface pre	ssure)	after		Hours
Second	producing for	mation				Pay zone de	epth (ft)		
Gas:	Initial open f					al open flow			Bbl/d
	Final open flor	ow en flow between		CF/d d fina		d open flow	Hours		Bbl/d
Static re	ock pressure				rface pre	ssure)	after		Hours
OR STIMULATIN	G, PHYSICAL C	I, PUT THE FOLLO CHANGE, ETC. 2) T FORMATIONS, INC	THE WELL	LOG W	HICH IS A	SYSTEMAT	C DETAILED	TURING	
		For:	EAST RI By:	ESOU.	RCES, IN	C. Ful	Eld		
			Date:			4/	3/10		

Treatment:

Treated perforations 2794'-2813' w/ 250 gals. 15% HCl, 357 bbls cross linked gel, and 25,300 # 30/50 sand.

Well Log:

SEE ORIGINAL WELL RECORD

WVGES O&G Record Reporting System 4709501794



Select datatypes: \Box (Check All) Select County: (095) Tyler Production Plugging Location Enter Permit #: 1794 ✓ Owner/Completion Stratigraphy ✓ Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

<u>Jsage Notes</u> Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 95 Permit = 1794 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:20:19 AM

Location Information: View Map

| API | COUNTY | PERMIT TAZ_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501794 | Tyler | 1794 | McElroy | Center Point | Centerpoint | 39.446468 | -80.688133 | 526834.6 | 4366369.9 |

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_COM	PLETION PROP_VD PROP_TRGT_FM TFM_EST_I
4709501794	12/14/2004	Original Loc	Completed	Stephen Paul Glover	_ 5	_	Ingram	5 East Resources Inc	et al East Resources, Inc.	2925 Gordon
4709501794	4/10/2010	Worked Over	Completed	Stephen Paul Glover	5		H.I Ingram	99342-00 Fast Resources Inc.	et al. Fast Resources Inc.	2940 Gordon

Completion Information:

API		CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST	FMT	INITIAL_C	CLASS	FINAL_CL	LASS	TYPE	RIG	CMP_MTHD	TVD	TMD NEW_FTG KOD	G_BEF G_A
4709	9501794	12/14/2004	11/17/2004	925	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon		Service W	/ell	Unsucces:	sful	Water Injection	Rotary	Fractured	2940	2940	
4709	9501794	4/10/2010	4/8/2010	925	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon		Service W	/ell	Unsucces:	sful	Water Injection	Rotary	Acid+Frac	2940	0	

Comment: 4/10/2010 No open flow data reported Comment: 12/14/2004 waterflood injector

Pay/Show/Water Information:

,	a joint in that is a small in the small in t													
API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER	QNTY
4709501794	12/14/2004	Water	Salt Water	Vertical			1720	'Mauch Chunk'						
4709501794	12/14/2004	Water Flood	Injection	Vertical	2794	Gordon	2809	Gordon						
4709501794	4/10/2010	Water Flood	Injection	Vertical	2794	Gordon	2809	Gordon						

There is no Production Gas data for this well

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

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:

J	,								
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4709501794	Original Loc	Big Lime	Well Record	1966	Reasonable	100	Reasonable	925	Ground Level
4709501794	Original Loc	Big Injun (undiff)	Well Record	2066	Reasonable	148	Reasonable	925	Ground Level
4709501794	Original Loc	Gordon Stray	Well Record	2767	Reasonable	25	Reasonable	925	Ground Level
4709501794	Original Loc	Gordon	Well Record	2792	Reasonable	17	Reasonable	925	Ground Level

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

12/30/2009 API# 47 095 01794 **►**

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



Well Operator's Report of Well Work

Farm name:	GLOVER, ST	EPHEN PAUL		Oper	ator Well	No.: H. J. I	NGRAM 5		
LOCATION:	Elevation:	925'		Quad	lrangle:	CENTERPO	OINT 7.5'		
	District: Latitude: Longitude:	MCELROY 4,350 Feet 6,110 Feet			nty: TYL Deg 27 Deg 40	Min 30	Sec. Sec.		
Company:	EAST RESOU P.O. BOX 551 VIENNA, WV				Casing/ tubing Size	Used in Drilling	Left in Well	Fil	ment ll Up ı. Ft.
Agent:	PHILIP S. ON	DRUSEK			,				
Inspector: Permit Issued: Well work Com Well work Com Verbal plugging	pleted:	12/30/09 04/08/10 04/10/10	- - -						
Total Depth (fee	Cable 2	Rig 5,940 N/A	_		7"	355.00'	355.00'	90	sks
Fresh water dep		IN/A			4 1/2"	2901.00'	2901.00'	150	sks
Salt water depth	ıs (ft)	1720						-	
Is coal being mi Coal Depths (ft) OPEN FLOW I):	N) NA NA * WATERFLO	 OOD INJE(CTOR					
Gas:	ing formation Initial open flo Final open flo Time of oper ock pressure		* M initial an	CF/d d fin	Fina	Pay zone do al open flow ssure)	v	2794'-: * *	2809' Bbl/d Bbl/d Hours
Gas:	I producing form Initial open flow Final open flow Time of open rock pressure	ow	M initial an	CF/d d fin	Fina	Pay zone de lal open flow sure)	v		Bbl/d Bbl/d Hours
OR STIMULATIN	IG, PHYSICAL C	, PUT THE FOLLO HANGE, ETC. 2) ' FORMATIONS, IN	THE WELL	LOG V	WHICH IS A	SYSTEMAT	IC DETAILED	CTURING	ł
	RECI Office of	IVED Oil & Gas ^{For:}	EAST RI	ESOU	IRCES, IN	C.	Keldn		
	FEB 0	5 2013	Date:			VO	5/4/10		
E	WV Depa	irtment of al Protection							

Treatment:

Treated Gordon perforations 2794'-2809' w/250 gals 15% HCL, 389 bbls cross linked gel

and 22,000 # 20/40 sand

Well Log:

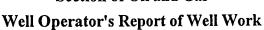
SEE ORIGINAL WELL RECORD

API#

4-Oct-04 095 01794 47

State of West Virginia Section of Oil and Gas

Division of Environmental Protection



Farm	name:

GLOVER, STEPHEN PAUL

Operator Well No.: H. J. INGRAM 5

LOCATION:

Elevation:

925.00

Ouadrangle:

CENTERPOINT 7.5'

30 Sec.

District:

MCELROY

County: TYLER

Latitude:

4,350 Feet south of

39 Deg 27 Min

Longitude:

6,100 Feet west of

00 Sec. 80 Deg 40 Min

Company:

EAST RESOURCES, INC.

P.O. BOX 5519

VIENNA, WV 26105-5519

Agent:

PHILIP S. ONDRUSEK

Inspector:

MIKE UNDERWOOD

Permit Issued:

10/04/04

Well work Commenced: Well work Completed:

11/17/04 12/14/04

Verbal plugging

permission granted on:

X Cable Rotary

Rig

Total Depth (feet) Fresh water depths (ft) 2940 NA

1720

Salt water depths (ft)

N

Is coal being mined in area (Y/N) Coal Depths (ft):

NA

Casing &	Used in	Left	Cement Fill Up
Tubing	Drilling	in Well	Cu. Ft.
Size			
,	:		
7"	355.00'	355.00'	90 sks
4 1/2"	2901.00'	2901.00'	150 sks
			·

OPEN FLOW DATA

* WATERFLOOD INJECTOR

	Produci	ing formation	Gordo	on	Pay zon	e depth (ft)_	279	4'-2809'
	Gas:	Initial open flow	*	MCF/d	Oil: Initial open f	flow	*	Bbl/d
	Guo.	Final open flow	*	MCF/d	Final open fl	low	*	Bbl/d
		Time of open flow	between initial				Hours	
	Static re	ock pressure		psig (su	rface pressure)	after		Hours
	Second	producing formation			Pay zon	e depth (ft)		
	Gas:	Initial open flow		MCF/d	Oil: Initial open i	flow		Bbl/d
	Gus.	Final open flow		MCF/d	Final open fl	low		Bbl/d
		Time of open flow	between initial	and final	tests	Ţ	Hours	E.
		ock pressure		psig (su	rface pressure)	after	Offic	ECEWED TO Oil & Gas
NOTE: O	N BACK	OF THIS FORM, PUT TH G, PHYSICAL CHANGE	HE FOLLOWING: ETC. 2) THE WE	1) DETAIL LL LOG W	S OF PERFORATEI HICH IS A SYSTEM) INTERVALS IATIC DETAII	, FRACTUR	NG0 8 2009
GEOLOG	GICAL RE	ECORD OF ALL FORMA	TIONS, INCLUDIN	G COAL E	NCOUNTERED BY	THE WELLBO	ORE. WW	Decartmen, ar Imental Profe

For: EAST RESOURCES, INC

By:

Date:

Treatment:

Treated perforations 2794'-2809' with 310 bbls cross linked gel and 20,200 # 20/40 sand

Well Log:	0	93	Sand and Shale
-	93	118	Sand
	118	546	Shale
	546	612	Sand
	612	734	Shale
	734	746	Sand
	746	788	Shale
	788	812	Sand
	812	1412	Shale
	1412	1444	Sand
	1444	1544	Shale
	1544	1632	Sand
	1632	1754	Shale
	1754	1762	Sand
	1762	1820	Shale
	1820	1834	Sand
•	1834	1939	Shale
	1939	1954	Sand
	1954	1966	Shale
•	1966	2066	Big Lime
•	2066	2214	Big Injun
	2214	2767	Shale
	2767	2792	Gordon Stray
	2792	2809	Gordon
	2809	2940	Shale
	2940		TD

$\mathsf{WVGES}\ \mathsf{O\&G}\ \mathsf{Record}\ \mathsf{Reporting}\ \mathsf{System} \\ \mathbf{4709501795}$



Select datatypes: (Check All) Select County: (095) Tyler Location Production Plugging Enter Permit #: 1795 ✓ Owner/Completion Stratigraphy ✓ Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

<u>Jsage Notes</u> Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 95 Permit = 1795 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:20:43 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501795 | Tyler | 1795 | McElroy | Center Point | Centerpoint | 39.444221 | -80.687962 | 526850.2 | 4366120.6

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP DT	SUFFIX	STATUS	SURFACE OWNER	WFII	NUM	CO NUM	LEASE	I FASE NUM	MINERAL OWN	OPERATOR AT	COMPLETION	PROP VD PROP	TRGT FM	TEM EST P
					***		00_110111						TROI_VD TROI_		
/700501705	12/15/2004	Original Loc	Completed	Stephen P Glover		7		E T Parks	99/10-00	East Resources Inc et al	East Resources In	20			
4100001100	12/13/2004	Original Loc	Completed	otephen i Giovei		,		LII aiks	33410-00	Last Nesources inc et al	Last Nesources, II	IC.			
4709501795	4/0/2010	Markad Over	Campleted	Stephen Paul Glover		7		E T Parks	00440 00	East Resources Inc	East Resources, In		3030 Gordon		

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_A
47095	01795	12/15/2004	11/11/2004	1006	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Fractured	3030	3030
47095	01795	4/8/2010	4/6/2010	1006	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3030	0

Comment: 12/15/2004 waterflood injector

Comment: 4/8/2010 No open flow data reported

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
4709501795	12/15/2004	Water	Salt Water	Vertical			1440	Pennsylvanian System						
4709501795	12/15/2004	Water Flood	Injection	Vertical	2888	Gordon	2904	Gordon						
4709501795	4/8/2010	Water Flood	Injection	Vertical	2884	Gordon	2915	Gordon						

There is no Production Gas data for this well

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

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:

o a aag.ap	<i>j</i>	0111							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4709501795	Original Loc	Big Lime	Well Record	2062	Reasonable	95	Reasonable	1006	Ground Level
4709501795	Original Loc	Big Injun (undiff)	Well Record	2157	Reasonable	145	Reasonable	1006	Ground Level
4709501795	Original Loc	Gordon Stray	Well Record	2870	Reasonable	10	Reasonable	1006	Ground Level
4709501795	Original Loc	Gordon	Well Record	2880	Reasonable	23	Reasonable	1006	Ground Level

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

Farm name:

Operator Well No.: E. T. Parks 7

API#

4-Oct-04 47 095 01795

4709501795 State of West Virginia Division of Environmental Protection Section of Oil and Gas

Well Operator's Report of Well Work

GLOVER, STEPHEN PAUL

LOCATION:	Elevation:	1,006.00		Qua	drangl	le:	CENT	ΓERP	OINT 7.5'		
	District: Latitude: Longitude:		Y Feet south of Feet west of		Deg			30 00	Sec. Sec.		
Company:	EAST RESOURCE P.O. BOX 55: VIENNA, WY	19			Cas & Tub	2	Used Drill		Left in Well	Fi	ement ill Up u. Ft.
Agent:	PHILIP S. ON				Siz						
Inspector: Permit Issued: Well work Comp Well work Comp		RWOOD 10/04/0 11/11/0 12/15/0)4								-
Verbal plugging permission grant Rotary X Total Depth (fee Fresh water dept	Cablet)	Rig 3030 NA			7'	!	354.	00'	354.00'	90	sks
Salt water depths	. ,	1440			4 1/	/2"	2962	.90'	2962.90'	150	sks
Is coal being mir Coal Depths (ft):		N) NA	N								
OPEN FLOW D	ATA	* WATER	FLOOD INJEC	CTOR							
Gas: Static ro	ck pressure	w flow betw	* Meen initial and	CF/d d fina	ıl test	Initia Final s pres	al open l open : ssure)	flow flow	Hours after	2888-2 * *	Bbl/d Bbl/d Hours
Gas:	producing form Initial open flow Final open flow Time of open ck pressure	- W -	Meen initial and	CF/d d fina]	Initia Final s	l open open	flow flow	epth (ft) Hours	3	Bbl/d Bbl/d Hours
NOTE: ON BACK (OR STIMULATING GEOLOGICAL REC	, PHYSICAL CH	IANGE, ETC.	2) THE WELL I	LOG W	HICH	IS A	SYSTE	MATI	C DETAILED	CTURING	
	JA	RECEIVED ce of Oil & Gas office of Chief N 0 5 2005 V Department conmental Protect	By: Date:	SOUI	RCES	, INC	136	er 1sy	zbld	1	

Treatment:

Treated perforations 2888'-2904' with 315 bbls cross linked gel and 20,500 #

20/40 sand

Well Log:	0	296	Sand and Shale
	296	314	Sand
	314	652	Shale
	652	700	Sand
	700	875	Shale
	875	908	Sand
	908	1012	Shale
	1012	1034	Sand
	1034	1282	Shale
	1282	1300	Sand
	1300	1348	Shale
	1348	1358	Sand
	1358	1460	Shale
	1460	1486	Sand
	1486	1508	Shale
	1508	1536	Sand
	1536	1580	Shale
	1580	1598	Sand
	1598	2062	Shale
	2062	2157	Big Lime
	2157	2302	Big Injun
	2302	2870	Shale
	2870	2880	Gordon Stray
	2880	2903	Gordon
	2903	3030	Shale
	3030		TD

$\mathsf{WVGES} \ \mathsf{O\&G} \ \mathsf{Record} \ \mathsf{Reporting} \ \mathsf{System} \ \mathbf{4709501836}$



Select County: (095) Tyler Select datatypes: (Check All) Location Production Plugging Enter Permit #: 1836 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series Usage Notes Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 95 Permit = 1836 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:21:14 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501836 | Tyler | 1836 | McElroy | Center Point | Centerpoint | 39.436954 | -80.687808 | 526866.2 | 4365314.1

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	N PROP_VD PROP_TRGT_F	M TFM_EST_PR
4709501836	10/17/2005	Original Loc	Completed	Marie Walters	11	LO McIntyre 11	99198-00	Fast Resources	Fast Resources Inc	2950 Gordon	

Completion Information:

API	CMP DT	SPUD DT	ATUM	FIELD	DEEPEST			CLASS	FINAL C		RIG		TMD NEW FTG KOD	G AI
	836 10/17/2005		round Level .	.lksnba-Strnatwn			Service 1		Unsucces	Water Injection		2990	2990	

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
4709501836	10/17/2005	Water Flood	Injection	Vertical	2797	Gordon	2798	Gordon	_	_	_	_	_	_
4709501836	10/17/2005	Water Flood	Injection	Vertical	2799	Gordon	2801	Gordon						
4709501836	10/17/2005	Water Flood	Injection	Vertical	2802	Gordon	2806	Gordon						

There is no Production Gas data for this well

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

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
4709501836	Original Loc	Greenbrier Group	Well Record	1992	Reasonable		Qstnble Pick	919	Ground Level
4709501836	Original Loc	Big Lime	Well Record	1992	Reasonable	50	Reasonable	919	Ground Level
4709501836	Original Loc	Big Injun (undiff)	Well Record	2042	Reasonable	174	Reasonable	919	Ground Level
4709501836	Original Loc	Gordon Stray	Well Record	2726	Reasonable	61	Qstnble Pick	919	Ground Level
4709501836	Original Loc	Gordon	Well Record	2787	Reasonable	20	Reasonable	919	Ground Level

Wireline (E-Log) Information:

There is no Plugging data for this well

^{*} There is no Scanned/Raster Log data for this well

^{*} There is no Digitized/LAS Log data for this well

^{*} There is no Scanned or Digital Logs available for download

24-Jun-05 API # 47 095 01836

> WV Department of Environmental Protection

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

Well Operator's Report of Well Work

Farm name:	MARIE WA	LTERS	Oper	rator Well	No.: J.Q. N	MCINTYRE 11		
LOCATION:	Elevation:	919.00	Quad	drangle:	CENTERP	OINT 7.5'		
	District: Latitude: Longitude:	MCELROY 7,800 Feet south of 6,025 Feet west of		nty: TYI Deg 27 Deg 40	Min 30	Sec.		
Company:	P.O. BOX 55	URCES, INC. 519 V 26105-5519		Casing & Tubing	Used in Drilling	Left in Well	Fil	ment Il Up 1. Ft.
Agent:	PHILIP S. O			Size				
Inspector: Permit Issued: Well work Com	MIKE UNDI							
Well work Com Verbal plugging permission gran	pleted:	10/17/05						
Rotary X Total Depth (fee	_Cable et)	Rig 2990		7"	225.00'	225.00'	60	sks
Fresh water dep Salt water depth	` '			4 1/2"	3298.40'	3298.40'	150	sks
Is coal being mi Coal Depths (ft)		/N) NA N						
OPEN FLOW I	DATA	WATER INJECTION W	ELL					
	ing formation	Gordon * M		Oil. Initi	Pay zone d al open flow	epth (ft)	2789-2 *	807 Bbl/d
Gas:	Initial open f Final open fl	ow * N	ICF/d	Fina	al open flow		*	Bbl/d
Static r	Time of ope ock pressure	en flow between initial ar		al tests urface pre	ssure)	after Hours		Hours
	producing for		COE/1	<u> </u>	Pay zone d	epth (ft)		Bbl/d
Gas:	Initial open final open float		ICF/d ICF/d		al open flov d open flow			-Bbl/d
Static r	Time of ope ock pressure	en flow between initial ar	nd fin sig (si	al tests urface pre	ssure)	Hours after		Hours
OR STIMULATIN	G, PHYSICAL (I, PUT THE FOLLOWING: 1)! CHANGE, ETC. 2) THE WELL FORMATIONS, INCLUDING	LOG V	WHICH IS A	SYSTEMAT	IC DETAILED	TURING	
		For: EAST R By:	ESOU	IRCES, IN	C. Poje	Cled	Office of Oil	18 Gaz 1
		Date:			<u>. </u>	(0/21/1)	OCT 27	2005

Treatment:

Perf: 2797'-2798', 2799'-2801', 2802'-2806'-4 holes per ft.(31 holes) Treated perfs. Via 4 1/2 casing w/ 500 gals. 15%HCl 390bbls cross linked gel & 19,900 lbs of 20/40 sand

w	ella	Log	
٧v	eп	LUZ	٠

0	78	Sand and Shale
78	102	Sand
102	218	Shale
218	243	Sand
243	288	Shale
288	308	Sand
308	507	Shale
507	520	Sand
520	558	Shale
558	604	Sand
604	730	Shale
730	738	Sand
738	784	Shale
784	802	Sand
802	1114	Shale
1114	1192	Sand
1192	1217	Shale
1217	1326	Sand
1326	1396	Shale
1396	1458	Sand
1458	1610	Shale
1610	1627	Sand
1627	1723	Shale
1723	1741	Sand
1741	1930	Shale
1930	1992	Sand
1992	2042	Big Lime
2042	2216	Big Injun
2216	2726	Shale
2726	2787	Gordon Stray
2787	2807	Gordon
2807	2990	Shale
2990		TD

$\mathsf{WVGES}\ \mathsf{O\&G}\ \mathsf{Record}\ \mathsf{Reporting}\ \mathsf{System}\ \boldsymbol{4709501837}$



Select datatypes: (Check All) Select County: (095) Tyler Production Plugging Location Enter Permit #: 1837 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

<u>Jsage Notes</u> Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 95 Permit = 1837 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:22:29 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501837 | Tyler | 1837 | McElroy | Center Point | Centerpoint | 39.432168 | -80.687246 | 526916.5 | 4364783.2

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP DT	SUFFIX	STATUS	SURFACE OWNER WE	FII NUM CO NUM	LEASE	LEASE NUM MINERA	AL OWN OPERAT	OR AT COMPLETION	PROP VD PROP	TRGT FM TFM	FST PR
4709501837	10/17/2005	Original Loc	Completed	Royce Watts et al	22 M V Baker 22	M V Baker	99139-00 Earl Lor	ng et al Fast Res	ources Inc	3100 Gordon		

Completion Information:

- [API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	M DEEPEST_	FMT INITIA	L_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD NEW_	FTG KOD	G_BEF G_	ΑĪ
- 14	470950	01837 10/17/2005	9/20/2005	1045	Ground Level	Jksnba-Strnatwn	Hampshire Gri	p Gordon	Servi	e Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3110	:	3110		

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
4709501	337 10/17/2005	Water	Salt Water	Vertical			2130	Big Injun (undiff)						
4709501	337 10/17/2005	Water Flood	Injection	Vertical	2897	Gordon	2901	Gordon						
4709501	337 10/17/2005	Water Flood	Injection	Vertical	2902	Gordon	2904	Gordon						
4709501	337 10/17/2005	Water Flood	Injection	Vertical	2905	Gordon	2908	Gordon						

There is no Production Gas data for this well

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

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:

ag. ap	,	•							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4709501837	Original Loc	Greenbrier Group	Well Record	2040	Reasonable		Qstnble Pick	1045	Ground Level
4709501837	Original Loc	Big Lime	Well Record	2040	Reasonable	62	Reasonable	1045	Ground Level
4709501837	Original Loc	Big Injun (undiff)	Well Record	2102	Reasonable	46	Reasonable	1045	Ground Level
4709501837	Original Loc	Gordon Stray	Well Record	2319	Reasonable	559	Reasonable	1045	Ground Level
4709501837	Original Loc	Gordon	Well Record	2878	Reasonable	30	Reasonable	1045	Ground Level

- Wireline (E-Log) Information:
 * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

WV Department of Environmental Protection

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

4709501837

Well Operator's Report of Well Work

Farm name:	ROYCE WA	TTS ET AL.	Oı	perator Well	No.: M.V.	BAKER 22		
LOCATION:	Elevation:	1,045.00	Qı	uadrangle:	CENTERP	OINT 7.5'		
Company:	District: Latitude: Longitude: EAST RESO	MCELROY 9,550 Feet so 5,675 Feet w	Couth of 3	ounty: TYI 9 Deg 27 0 Deg 40	Min 30	Sec. Sec.	T C6	ement
1 ,	P.O. BOX 55			& Tubing	Drilling	in Well		ll Up u. Ft.
Agent:	PHILIP S. O	NDRUSEK		Size				
Inspector: Permit Issued: Well work Com	MIKE UND	ERWOOD 06/25/05 09/20/05						
Well work Com Verbal plugging permission gran	npleted:	10/17/05						
Rotary X Total Depth (fe	_Cable et)	Rig 3110		7"	354.00'	354.00'	90	sks
Fresh water depth	、	2130		4 1/2"	3054.50'	3054.50'	150	sks
_							 	
Is coal being m	•						i	
Coal Depths (ft):	NA					<u> </u>	
OPEN FLOW I	DATA	WATER INJECT	ION WELI					
Produc	ing formation	(Gordon		Pay zone d	epth (ft)	2883'-2	2908'
Gas:	Initial open for Final open flore		MCF		al open flow al open flow		*	Bbl/d Bbl/d
Static 1	ock pressure			(surface pre	ssure)	after		Hours
Second	l producing for	rmation			Pay zone d	enth (ft)		
Gas:	Initial open f Final open fl	low ow	MCF.					Bbl/d Bbl/d
Static 1	ock pressure	en flow between in		mai tests (surface pre	ssure)	after		Hours
OR STIMULATIN	IG, PHYSICAL (I, PUT THE FOLLOWI CHANGE, ETC. 2) THE FORMATIONS, INCL	E WELL LOC	3 WHICH IS A	SYSTEMAT	IC DETAILED	TURING	-
]	Ву:	OURCES, IN	C. Noze	dold-	RECEIV	ED & Gas
			Date:			(0/26X05	Mice of Or	Chiet

Treatment:

Perf: 2897'-2901', 2902'-2904', 2905'-2908'- 4 holes per ft. (39 holes). Treated perfs via 4 1/2 casing w/ 500 gals 15% HCl 373 bbls cross linked gel & 21,000 lbs of 20/40 sand

Well Log:

0	203	Sand and Shale
203	214	Sand
214	332	Shale
332	350	Sand
350	667	Shale
667	714	Sand
714	884	Shale
884	910	Sand
910	1198	Shale
1198	1235	Sand
1235	1347	Shale
1347	1357	Sand
1357	1444	Shale
1444	1483	Sand
1483	1514	Shale
1514	1538	Sand
1538	1592	Shale
1592	1610	Sand
1610	1832	Shale
1832	1862	Sand
1862	2040	Shale
2040	2102	Big Lime
2102	2148	Big Injun
2148	2319	Shale
2319	2878	Gordon Stray
2878	2908	Gordon
2908	2907	Shale
	3110	TD

$\mathsf{WVGES} \, \mathsf{O\&G} \, \mathsf{Record} \, \mathsf{Reporting} \, \mathsf{System} \, \boldsymbol{4709501838}$



Select datatypes: \Box (Check All) Select County: (095) Tyler Production Plugging Location Enter Permit #: 1838 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

Usage Notes Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 95 Permit = 1838 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:23:30 AM

Location Information: View Map

| API | COUNTY | PERMIT TAZ_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501838 | Tyler | 1838 | McElroy | Center Point | Centerpoint | 39.434489 | -80.686685 | 526963.8 | 4365040.9 |

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE_OWNI 4709501838 10/17/2005 Original Loc Completed Royce Watts et al STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE
C Completed Royce Watts et al 23 M V Baker 23 M V Baker LEASE_NUM_MINERAL_OWN OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_PR
r 99139-00 Earl Long et al East Resources, Inc. 2950 Gordon

Completion Information:

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
 DEEPEST_FM
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 DEEPEST_F DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AI Unsuccessful Water Injection Rotary Acid+Frac Service Well 3020

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 4709501838 10/17/2005 Water Flood Injection Vertical 2785 Gordon 2795 Gordon

There is no Production Gas data for this well

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

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
4709501838	Original Loc	Greenbrier Group	Well Record	1949	Reasonable		Qstnble Pick	913	Ground Level
4709501838	Original Loc	Big Lime	Well Record	1949	Reasonable	129	Reasonable	913	Ground Level
4709501838	Original Loc	Big Injun (undiff)	Well Record	2078	Reasonable	132	Reasonable	913	Ground Level
4709501838	Original Loc	Gordon Stray	Well Record	2766	Reasonable	12	Reasonable	913	Ground Level
4709501838	Original Loc	Gordon	Well Record	2778	Reasonable	17	Reasonable	913	Ground Level

- Wireline (E-Log) Information:
 * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

API#

24-Jun-05 095 01838

OCT 27 2005

W Department of Environmental Protection

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

Well Operator's Report of Well Work

Farm name:	ROYCE WA	TTS ET AL		Opera	ator Well	No.: M.V.	BAKER 23		
LOCATION:	Elevation:	913.00		Quad	rangle:	CENTERP	OINT 7.5'		
	District: Latitude: Longitude:	MCELROY 8,725 Fee 5,725 Fee	t south of	Coun 39 80	Deg 27		Sec.		
Cómpany:	P.O. BOX 55	URCES, INC. 519 V 26105-5519			Casing & Tubing	Used in Drilling	Left in Well	Cem Fill Cu.	Up
Agent:	PHILIP S. O	NDRUSEK			Size				
Inspector: Permit Issued: Well work Com	MIKE UNDI	ERWOOD 06/24/05 09/16/05	_						
Well work Com Verbal plugging	pleted:	10/17/05	<u> </u>						
Total Depth (fee	_Cable et)	Rig 3020			7"	225.00'	225.00'	60 :	sks
Fresh water depth				* # #	4.1/2",	2921.10'	2921.10'	150	sks
Is coal being mi Coal Depths (ft)		/N) NA N		g with No. of					
OPEN FLOW I	DATA	WATER INJE	CTION WE	ELL	Simple State of				
Produc Gas:	ing formation Initial open f Final open fl		* M	CF/d	Fina	Pay zone dal open flow lopen flow	v <u> </u>		'95' Bbl/d Bbl/d
Static 1	cock pressure	en now between	psi	ig (su	rface pre		after		Hours
Second Gas:	I producing for Initial open f Final open fl Time, of open	low	M	CF/d	Fina	Pay zone d al open flow al open flow	v		Bbl/d Bbl/d
Static 1	ock pressure		psi	ig (su	rface pre	ssure)	after		Hours
OR STIMULATIN	IG, PHYSICAL	M, PUT THE FOLLO CHANGE, ETC. 2) D. FORMATIONS, 11	THE WELL I	Log W	/HICH IS A	SYSTEMAT	IC DETAILED	TURING	•
	1	For	:: EAST RE	ESOU	RCES, IN	(C/)/	NI	ECEIVED	as
gerither in the second of the	•		By: Date:			v Cge	(0/2 Var	ECEIVED thice of Chie	1

Treatment:

Perf: 2785'-2795'- 4 holes per ft. Treated perfs via 4 /12 casing. w/ 500 gals. 15 % HCl 371 bbls cross linked gel & 20,600 lbs of 20/40 sand

Well Log:	0	202	Sand and Shale
	202	244	Sand
	244	527	Shale
	527	592	Sand
	592	718	Shale
	718	730	Sand
	730	774	Shale
	774	864	Sand
	864	1116	Shale
	1116	1188	Sand
	1188	1332	Shale
	1332	1370	Sand
	1370	1412	Shale
	1412	1442	Sand
	1442	1496	Shale
	1496	1510	Sand
	1510	1600	Shale
	1600	1620	Sand
	1620	1712	Shale
	1712	1736	Sand
	1736	1949	Shale
	1949	2078	Big Lime
	2078	2210	Big Injun
	221 0	2766	Shale
	2766	2778	Gordon Stray
	2778	2795	Gordon
	2795	3020	Shale
	3020		TD

WVGES O&G Record Reporting System 4709501839



Select datatypes: (Check All) Select County: (095) Tyler Production Plugging Location Enter Permit #: 1839 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

<u>Jsage Notes</u> Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 95 Permit = 1839 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:23:51 AM

Location Information: View Map

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_COMPLETIO	N PROP_VD	PROP_1	TRGT_FM	TFM_E	S
4709501839	10/18/2005	Original Loc	Completed	Marie Walters		10 、	J Q McIntyre 10	McIntyre	99198-00 East Resources	East Resources, Inc.	3075	Gordon			
4709501839	2/4/2010	Worked Over	Completed	Marie Walters			LO Mointyre 10		99198-00 Fast Resources Inc et al.	Fast Resources Inc	3080	Gordon			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST	_FMT	INITIAL_	CLASS	FINAL_CLAS	S TYPE	RIG	CMP_MTHD	TVD	TMD NEW_FTG KOD G_BEF G_A
4709501839	10/18/2005	9/27/2005	1033	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon		Service V	Vell	Unsuccessful	Water Injection	Rotary	Acid+Frac	3080	3080
4709501839	2/4/2010	2/4/2010	1033	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon		Service V	Vell	Unsuccessful	Water Injection	Rotary	Acid+Frac	3080	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
4709501839	10/18/2005	Water	Salt Water	Vertical			1430	Pennsylvanian System						
4709501839	10/18/2005	Water Flood	Injection	Vertical	2898	Gordon	2905	Gordon						
4709501839	2/4/2010	Water Flood	Injection	Vertical	2890	Gordon	2907	Gordon						

There is no Production Gas data for this well

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

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:

Changiapi	y milomiaa	011.							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4709501839	Original Loc	Greenbrier Group	Well Record	2093	Reasonable		Qstnble Pick	1033	Ground Level
4709501839	Original Loc	Big Lime	Well Record	2093	Reasonable	71	Reasonable	1033	Ground Level
4709501839	Original Loc	Big Injun (undiff)	Well Record	2164	Reasonable	152	Reasonable	1033	Ground Level
4709501839	Original Loc	Hampshire Grp	Well Record	2874	Reasonable	10	Reasonable	1033	Ground Level
4709501839	Original Loc	Gordon	Well Record	2884	Reasonable	24	Reasonable	1033	Ground Level

Wireline (E-Log) Information:

There is no Plugging data for this well

^{*} There is no Scanned/Raster Log data for this well

^{*} There is no Digitized/LAS Log data for this well

^{*} There is no Scanned or Digital Logs available for download

Farm name:

LOCATION:

MARIE WALTERS

Elevation:

1,033.00

4709501839

24-Jun-05 API # 47 095 01839

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

Well Operator's Report of Well Work

Quadrangle:

Operator Well No.: J.Q. MCINTYRE 10

CENTERPOINT 7.5'

	District: Latitude: Longitude:	MCELROY 7,025 Fee 6,225 Fee	et south of et west of		nty: TYL Deg 27 Deg 37	Min 30	Sec. Sec.		
Company:	P.O. BOX 55	URCES, INC. 19 V 26105-5519			Casing & Tubing	Used in Drilling	Left in Well	Fil	ment ll Up ı, Ft.
A	ŕ				Size	Dinnig	III WCII		1, 1 ¹ t.
Agent:	PHILIP S. O				Size				
nspector: Permit Issued:	MIKE UNDE	06/24/05							
Well work Com		09/27/05							
Well work Com Verbal plugging		10/18/05							
permission gran								1	
Rotary X	Cable	_Rig			7"	385.00'	385.00'	90	sks
Total Depth (fee Fresh water dep		3080						 	
Tesii watei dep	tiis (It)	-			4 1/2"	2922.00'	2922.00'	150	sks
Salt water depth	ns (ft)	1430							in .
s coal being mi Coal Depths (ft)	,	/N) NA NA	1						
	> A TT A	WATED DIE		DI I					
OPEN FLOW I	DATA	WATER INJE	ECTION W.	CLL					
Produc	ing formation		Gordon			Pay zone d	epth (ft)	2884-2	
Gas:	Initial open f					al open flov		*	Bbl/d
	Final open flo	ow n flow betwee:		CF/d		ıl open flow	Hours		Bbl/d
Static r	ock pressure				irface pres	ssure)	after		Hours
Second	l producing for	mation				Pay zone d	epth (ft)		
Gas:	Initial open f	low				al open flov			Bbl/d
	Final open flo	ow en flow betwee		CF/d		ıl open flow	Hours		Bbl/d
Static r	ock pressure	ii iiow octwee.	ps	sig (su	irface pres	ssure)	after		Hours
OR STIMULATIN	IG, PHYSICAL C	, PUT THE FOLL CHANGE, ETC. 2) FORMATIONS, I	THE WELL	LOG V	VHICH IS A	SYSTEMAT	IC DETAILED	CTURING	
		Fo	r: EAST R	ESOU	RCES, IN	C. //	(1,0		
			By: Date:			Moze	1010 M	CEIVED	ee /
			Bato.				ON CONTRACT	of Oil & Chie	
							00	T 27 20 W Departm	, כטו
							Env	TOTAL	-

Treatment:

Perforations: 2898'-2905'- 4 holes per ft.(29 holes). Treated Perfs via 4 1/2 casing w/ 500 gals. 15% HCl 377 bbls cross linked gel and 19,900 ibs of 20/40 sand.

Well	Log

0	184	Sand and Shale
184	227	Sand
227	320	Shale
320	350	Sand
350	396	Shale
396	415	Sand
415	658	Shale
658	705	Sand
705	828	Shale
828	840	Sand
840	880	Shale
880	912	Sand
912	1234	Shale
1234	1246	Sand
1246	1262	Shale
1262	1294	Sand
1294	1374	Shale
1374	1408	Sand
1408	1423	Shale
1423	1434	Sand
1434	1456	Shale
1456	1498	Sand
1498	1820	Shale
1820	1839	Sand
1839	2066	Shale
2066	2093	Sand
2093	2164	Big Lime
2164	2316	Big Injun
2316	2874	Shale
2874	2884	Gordon Stray
2884	2908	Gordon
2908	3080	Shale
3080		TD

$\mathsf{WVGES}\ \mathsf{O\&G}\ \mathsf{Record}\ \mathsf{Reporting}\ \mathsf{System} \\ \mathbf{4709501846}$



Select datatypes: (Check All) Select County: (095) Tyler Production Plugging Location Enter Permit #: 1846 ✓ Owner/Completion Stratigraphy ✓ Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

<u>Jsage Notes</u> Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 95 Permit = 1846 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:24:22 AM

Location Information: View Map

There is no Bottom Hole Location data for this well

Owner Information:

ſ	API	CMP DT	SUFFIX	STATUS	SURFACE OWNER W	ELL N	UM CO NUM	LEASE	LEASE NUM	MINERAL OWN	OPERATOR AT CO	OMPLETION PROP VD	PROP TRGT FM TFM E
	4709501846	10/18/2005	Original Loc	Completed	Fred/Dottie Glover	_	15 E W McIntyre 15	E W McIntyre	99173-00	East Resources	East Resources, Inc	s. <u>33</u> 50	Gordon
	4709501846	4/16/2010	Worked Over	Completed	Fred & Dottie Glover		15	F W McIntyre	99173-00	Fast Resources Inc.	Fast Resources Inc	3320	Gordon

Completion Information:

AP			SPUD_DT				DEEPEST_FM			AL_CLASS	FINAL_CLAS	S TYPE	RIG	CMP_MTHD	TVD	TMD NEW_FTG KOD G_BEF G_A
470	9501846	10/18/2005	10/3/2005	1311	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Serv	ce Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3320	3320
470	9501846	4/16/2010	4/16/2010	1311	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Serv	ce Well	Unsuccessful	Water Injection	Rotary	Acidized	3320	0

Comment: 4/16/2010 No open flow data reported

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_QNT	Υ
4709501846	4/16/2010	Water Flood	Injection	Vertical	3173	Gordon	3185	Gordon						
4709501846	10/18/2005	Water Flood	Injection	Vertical	3176	Gordon	3185	Gordon						
4709501846	4/16/2010	Water Flood	Injection	Vertical	3199	Gordon	3203	Gordon						

There is no Production Gas data for this well

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

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
4709501846	Original Loc	Greenbrier Group	Well Record	2350	Reasonable		Qstnble Pick	1311	Ground Level
4709501846	Original Loc	Big Lime	Well Record	2350	Reasonable	102	Reasonable	1311	Ground Level
4709501846	Original Loc	Big Injun (undiff)	Well Record	2452	Reasonable	140	Reasonable	1311	Ground Level
4709501846	Original Loc	Hampshire Grp	Well Record	3164	Reasonable	2	Reasonable	1311	Ground Level
4709501846	Original Loc	Gordon	Well Record	3166	Reasonable	20	Reasonable	1311	Ground Level

- Wireline (E-Log) Information:
 * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

Farm name:

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

4709501846

W Department of Environmental Protection

Well Operator's Report of Well Work

Operator Well No.: E.W. MCINTYRE 15

FRED & DOTTIE GLOVER

LOCATION:	Elevation:	1,311.00	Qua	drangle:	CENTERP	OINT 7.5'		
	District: Latitude: Longitude:	MCELROY 10,725 Feet so 6,100 Feet we		nty: TYI Deg 27 Deg 40	Min 30	Sec. Sec.		
Company:	P.O. BOX 53	OURCES, INC. 519 V 26105-5519		Casing & Tubing	Used in Drilling	Left in Well	Fill	nent Up Ft.
Agent:	PHILIP S. O	NDRUSEK		Size				
Inspector: Permit Issued: Well work Cor Well work Cor	npleted:	ERWOOD 07/13/05 10/03/05 10/18/05						
Verbal pluggin permission gra Rotary X Total Depth (for Fresh water de	nted on: Cable eet)	Rig 3,320		7"	644.00'	644.00'	160	sks
Salt water dept	,			4 1/2"	3278.80'	3278.80'	150	sks
San water dept	ns (1t)	the reserve and the second				<u> </u>		
Is coal being m Coal Depths (f	ined in area (Yt):	7N) NA N						
OPEN FLOW	DATA	WATER INJECT	ION WELL					
Produ	cing formation		ordon		Pay zone d		3166'-31	
Gas:	Initial open f				al open flov			Bbl/d
	Final open fl	ow * en flow between in	MCF/d		ıl open flow	Hours	<u> </u>	Bbl/d
Static	rock pressure			urface pre	ssure)	after		Hours
Secon	d producing for	mation			Pay zone d	enth (ft)		
Gas:	Initial open f		MCF/d	Oil: Initi	al open flov	V		Bbl/d
	Final open fl	ow	MCF/d	Fina	ıl open flow			Bbl/d
C4 - 4: -		en flow between in				Hours		[]
Static	rock pressure		psig (s	urface pre	ssure)	after		Hours
OR STIMULATII	NG, PHYSICAL (1, PUT THE FOLLOWI CHANGE, ETC. 2) THE FORMATIONS, INCLU	WELL LOG V	WHICH IS A	SYSTEMAT	IC DETAILED	TURING	
		For: E	AST RESOL	RCES, IN	C. //	11.	ECEIVED	as
			By: Date:	 .	//Core	10/2 1 1 C	ECEIVED the of Oil & Go thice of Chie	1
		-			*	· ~ ~ 0 / W3		10F

Treatment:

Perf: 3176'-3185' 4 holes per ft. (37 holes). Treated perfs via 4 1/2 casing w/500 gals. 15% HCl 355 bbls cross linked gel & 20,200 lbs 20/40/ sand

Well Log:	0	188	Sand and Shale
WON BOLL	188	246	Sand
	246	590	Shale
	590	628	Sand
	628	936	Shale
	936	982	Sand
	982	1102	Shale
	1102	1114	Sand
	1114	1153	Shale
	1153	1186	Sand
	1186	1511	Shale
	1511	1538	Sand
	1538	1736	Shale
	1736	1764	Sand
	1764	1882	Shale
	1882	1897	Sand
	1897	2030	Shale
	2030	2058	Sand
	2058	2324	Shale
	2324	2350	Sand
	2350	2452	Big Lime
	2452	2592	Big Injun
	2592	3164	Shale
	3164	3166	Gordon Stray
	3166	3186	Gordon
	3186	3320	Shale

3320

TD

WVGES O&G Record Reporting System 4709501851



Select datatypes: \Box (Check All) Select County: (095) Tyler Production Plugging Location Enter Permit #: 1851 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

<u>Jsage Notes</u> Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 95 Permit = 1851 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:24:51 AM

Location Information: View Map

| API | COUNTY | PERMIT TAZ_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501851 | Tyler | 1851 | McElroy | Center Point | Centerpoint | 39.442174 | -80.704455 | 525431.7 | 4365888.6

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT				WELL_	NUM	CO_NUM	LEASE	LEASE_NU	M MIN	NERAL_OWN	OPERATO	R_AT	COMPLETION	PROP_\	D PRO	P_TRGT	_FM ·	TFM_E	EST_P	·F
4709501851	7/7/2006	Original Loc	Completed	Virginia LeMasters		9		B A Swiger	Fee 883-00	Eas	st Resources	East Resou	rces,	Inc.	28	40 Gor	don				
4709501851	4/23/2013	Worked Over	Completed	David W and BA Lemasters		9		BA Swiger				HG Energy	LLC								

Completion Information:

API		CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD T	MD NEW_FTG KOD G_BEF G
4709	9501851	7/7/2006	1/11/2006	799	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Development Well	Development Well	Oil and Gas	Rotary	Acid+Frac	2810	2810
4709	9501851	4/23/2013	1/16/2013	799	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	unknown	2810	0

Comment: 7/7/2006 waterflood producer

Comment: 4/23/2013 Converted to water injection. No open flow data reported

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_QNT	7
4709501851	7/7/2006	Water Flood	Oil & Gas	Vertical		2668	Gordon	2675	Gordon						
4709501851	4/23/2013	Water Flood	Injection	Vertical		2656	Gordon	2675	Gordon						

Production Gas Information: (Volumes in Mcf) * 2023 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	ОСТ	NOV	DCM
4709501851	East Resources, Inc.	2006	133	0	0	0	0	0	0	0	45	35	28	1	24
4709501851	East Resources, Inc.	2007	295	57	83	53	0	0	31	14	0	41	16	0	0
4709501851	East Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501851	East Resources, Inc.	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501851	East Resources, Inc.	2011	47	0	5	7	0	3	6	6	2	6	4	3	5
4709501851	HG Energy, LLC	2012	7	4	3	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil *2023 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
470950185	 East Resources, Inc. 	2006	328	0	0	0	0	0	0	0	33	15	0	14	266
470950185	1 East Resources, Inc.	2007	735	226	139	129	111	74	36	15	0	5	0	0	0
470950185	1 East Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
470950185	1 East Resources, Inc.	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
470950185	1 East Resources, Inc.	2011	427	0	19	40	24	59	82	61	69	0	0	16	57
470950185	1 HG Energy, LLC	2012	113	61	52	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
4709501851	Original Loc	Big Lime	Well Record	1856	Reasonable	56	Reasonable	799	Ground Level
4709501851	Original Loc	Greenbrier Group	Well Record	1856	Reasonable	56	Reasonable	799	Ground Level
4709501851	Original Loc	Big Injun (undiff)	Well Record	1912	Reasonable	178	Reasonable	799	Ground Level
4709501851	Original Loc	Gordon Stray	Well Record	2634	Reasonable	20	Reasonable	799	Ground Level
4709501851	Original Loc	Gordon	Well Record	2654	Reasonable	20	Reasonable	799	Ground Level

Wireline (E-Log) Information:

There is no Plugging data for this well

^{*} There is no Scanned/Raster Log data for this well

^{*} There is no Digitized/LAS Log data for this well

^{*} There is no Scanned or Digital Logs available for download

27-Jul-05

API#

47 095 01851

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

		Well Operat	or's Repor	t of W	'ell V	Work			
arm name:	LEMASTER	S, VIRGINIA HRS	Ope	rator W	Vell 1	No.:	SWIGER 9		
OCATION:	Elevation:	799.00	Qua	drangle) :	CENTERE	OINT 7.5	A.	
	District: Latitude: Longitude:	MCELROY 5,900 Feet sout 10,700 Feet west	h of 39	nty: ' Deg Deg	TYL 27 40	ER Min 30 Min 00	SWIGER 9 POINT 7.5 Sec. Sec.	YOU.	,
company:	P.O. BOX 55	URCES, INC. 519 V 26105-5519		Casi & Tubi	:	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.	
gent:	PHILIP S. O	NDRUSEK		Siz	æ	 - 	1		
nspector: ermit Issued: Vell work Com Vell work Com Verbal plugging	pleted:	ERWOOD 07/27/05 01/11/06 07/07/06							
ermission gran totary X otal Depth (fe	ted on: _Cable et)	Rig 2810'		7'	1	224'	224.00'	55 sks	
resh water dep		N/A N/A		4 1/	′2"	2742.00'	2742.00'	150 sks	
alt water dept	us (11)					<u> </u>			
s coal being mi Coal Depths (ft		/N) NA N							
PEN FLOW I		* WATERFLOOD	PRODUC:	ER				,	
	cing formation		ordon	~~~	+ • ••	Pay zone o		2656-2675 * Bb	
Gas:	Initial open for Final open floor		MCF/d MCF/d			al open flow I open flow		* Bb * Bb	
G:	Time of op	en flow between initi		al tests	3		Hour	S	ours
Static	rock pressure		psig (s	urrace	pre	•			uis
Second Gas:	I producing for Initial open f Final open fl	low	— MCF/d		Fina	Pay zone of al open flow I open flow	ж	Bb Bb	
Static	rock pressure		psig (s	urface	pre	ssure)			ours
STORES OF THE ACTUAL ACTUAL	TO DESCRICAT	M, PUT THE FOLLOWIN CHANGE, ETC. 2) THE L FORMATIONS, INCLUI	WILL LOG	wHICH	a ett	(SYSTEMA)	ngwetailed he wellbore	· R	
on1		For: EA	ST RESOU	URCES	S, IN	Core-	SAMPLE	artmont of atal protect	<i>IIII</i>
			nte:			7/3	REMOTE WITH		

Treatment:

Perforations 2668'-2675'(4spf). Treated perfs via 4 1/2 casing w/ 500 gals 15% HCL acid; 237bbls cross linked gel, and 16,300# 30/50 sand.

Well Log:	0	210	Sand and Shale
	210	326	Shale
د	326	342	Sand
	342	422	Shale
	422	494	Sand
	494	606	Shale
	606	624	Sand ·
	624	662	Shale
	662	688	Sand
•	688	1136	Shale
	1136	1150	Sand
	1150	1226	Shale
	1226	1262	Sand .
	1262	1374	Shale
	1374	1406	Sand
	1406	1832	Shale
	1832	1856	Sand
	1856	1912	Big Lime
	1912	2090	Big Injun
	2090	2634	Shale
	2634	2654	Gordon Stray
	2654	2674	Gordon
	2674	2810	Shale
	2810		TD

$\mathsf{WVGES}\ \mathsf{O\&G}\ \mathsf{Record}\ \mathsf{Reporting}\ \mathsf{System} \\ \mathbf{4709501889}$



Select County: (095) Tyler Select datatypes: (Check All) Production Plugging Location Enter Permit #: 1889 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Logs Pay/Show/Water Btm Hole Loc

<u>Jsage Notes</u> Contact Information <u>Disclaimer</u> WVGES Main

WV Geological & Economic Survey:

Well: County = 95 Permit = 1889 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:25:29 AM

Location Information: View Map

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 4709501889 7/12/2007 Original Loc Completed Ralph & Betty Hayes 23 F R Ball East Resources East Resources, Inc. 3250 Gordon

Completion Information:

| API | CMP_DT | SPUD_DT | ELEV DATUM | FIELD | DEEPEST_FM | DEEPES | 4709501889 | 7/12/2007 | 7/26/2006 | 1231 | Ground Level | Jksnbg-Strngtwn | Hampshire Grp | Gordon | Comment: | 7/12/2007 | Core well | | DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AF Service Well Unsuccessful Water Injection Rotary Acid+Frac 3300

Pay/Show/Water Information:

 PRODUCT
 SECTION
 DEPTH_TOP
 FM_TOP
 DEPTH_BOT
 FM_BOT

 Fresh Water
 Vertical
 140
 Pennsylvanian System

 Injection
 Vertical
 3122
 Gordon
 3140
 Gordon
 API CMP_DT ACTIVITY
4709501889 7/12/2007 Water G_BEF G_AFT O_BEF O_AFT WATER_QNTY 4709501889 7/12/2007 Water Flood Injection

Production Gas Information: (Volumes in Mcf) * 2023 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERAT	OR PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DCM
4709501889	East Resources, Inc.	2006	920	0	0	0	0	0	0	0	0	0	915	2	3
4709501889	East Resources, Inc.	2007	12	12	0	0	0	0	0	0	0	0	0	0	0
4709501889	East Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501889	East Resources, Inc.	2010	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 * 2023 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	ОСТ	NOV	DCM
4709501889	East Resources, Inc.	2006	_ 0	0	0	0	0	0	0	0	0	0	0	0	0
4709501889	East Resources, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501889	East Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501889	East Resources, Inc.	2010	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
4709501889	Original Loc	Big Lime	Well Record	2314	Reasonable	66	Reasonable	1231	Ground Level
4709501889	Original Loc	Greenbrier Group	Well Record	2314	Reasonable	66	Reasonable	1231	Ground Level
4709501889	Original Loc	Big Injun (undiff)	Well Record	2380	Reasonable	162	Reasonable	1231	Ground Level
4709501889	Original Loc	Gordon Stray	Well Record	3096	Reasonable	20	Reasonable	1231	Ground Level
4709501889	Original Loc	Gordon	Well Record	3116	Reasonable	27	Reasonable	1231	Ground Level

Wireline (E-Log) Information:

There is no Plugging data for this well

^{*} There is no Scanned/Raster Log data for this well

^{*} There is no Digitized/LAS Log data for this well

^{*} There is no Scanned or Digital Logs available for download



API#

07/19/2006 47 095 01889

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

4709501889

Well Operator's Report of Well Work

Farm name:	HAYES, RAI	LPH & BETTY	Operator	r Well	No.: F.R. B	ALL 23		
LOCATION:	Elevation:	1,231'	Quadran	gle:	CENTERPO	DINT 7.5'		
	District: Latitude: Longitude:	MCELROY 1,375 Feet south of 5,100 Feet west of	County: 39 De 80 De	g 27	Min 30	Sec. Sec.		
Company:	P.O. BOX 55	URCES, INC. 19 V 26105-5519	tı	asing/ ubing Size	Used in Drilling	Left in Well	Fill	nent Up . Ft.
Agent:	PHILIP S. ON	NDRUSEK						
Inspector: Permit Issued: Well work Com	MIKE UNDE	ERWOOD 07/19/06 07/26/06					<u> </u>	
Well work Com Verbal plugging	pleted:	07/12/07	1	1 3/4"	387'	387'	280	sks
permission gran Rotary X Total Depth (fee	Cable	Rig 3300'	8	3 5/8"	1518'	1518'	100	sks
Fresh water depth		140'	4	1/2"	3257'	3257'	300	sks
_								
Is coal being mi Coal Depths (ft)		/N) NA N						
OPEN FLOW I	DATA	* WATERFLOOD INJE	CTOR					
Produc	ing formation	Gordon			Pay zone de		3122'-3	
Gas:	Initial open fl		MCF/d O MCF/d		al open flow al open flow			Bbl/d Bbl/d
	Final open flo Time of ope	en flow between initial and			ii open now	Hours		Dona
Static r	ock pressure		sig (surfa		ssure)	after		Hours
Second	producing for				Pay zone de			
Gas:	Initial open floring Final open floring		MCF/d O: MCF/d		al open flow al open flow			Bbl/d Bbl/d
	<u> </u>	en flow between initial and			n open now	Hours		Dona
Static r	ock pressure		sig (surfa		ssure)	after		Hours
OR STIMULATIN	IG, PHYSICAL C	1, PUT THE FOLLOWING: 1) CHANGE, ETC. 2) THE WELL FORMATIONS, INCLUDING	LOG WHI	CH IS A	SYSTEMATI	C DETAILED	CTURING	
		For: EAST R By:	RESOURC	ES, IN	se /sh	th		
		Date:			2/1	/0P		
					-			

Treatment:

Shot Perforated interval (3122'-3140') w/ Gas Gun, displaced 500 gals 15%HCl acid into formation.

Well Log:	0	415	Sand and Shale
	415	438	Sand
	438	776	Shale
	776	846	Sand
	846	860	Shale
	860	870	Sand
	870	884	Shale
	884	934	Sand
	934	1100	Shale
	1100	1146	Sand
	1146	1242	Shale
	1242	1260	Sand
	1260	1490	Shale
	1490	1528	Sand
	1528	1590	Shale
	1590	1626	Sand
	1626	1678	Shale
	1678	1713	Sand
	1713	1780	Shale
	1780	1800	Sand
	1800	1852	Shale
	1852	1892	Sand
	1892	1978	Shale
	1978	1994	Sand
	1994	2068	Shale
	2068	2106	Sand
	2106	2266	Shale
	2266	2314	Sand
	2314	2380	Big Lime
	2380	2542	Big Injun
	2542	3096	Shale
	3096	3116	Gordon Stray
	3116	3143	Gordon
	3143	3257	Shale
	3257		TD

$\mathsf{WVGES} \ \mathsf{O\&G} \ \mathsf{Record} \ \mathsf{Reporting} \ \mathsf{System} \\ \mathbf{4709501890}$



Select datatypes: \Box (Check All) Select County: (095) Tyler Production Plugging Location Enter Permit #: 1890 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

Usage Notes Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 95 Permit = 1890 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:25:53 AM

Location Information: View Map

| API | COUNTY | PERMIT TAZ_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501890 | Tyler | 1890 | McElroy | Center Point | Centerpoint | 39.433328 | -80.705759 | 525322.7 | 4364906.6

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 P
4709501890	9/1/2006 Original Loc	Completed	David W Lemasters	_	Isaac Baker 10	12868-50	Fast Resources Inc et al	Fast Resources	Inc	3200 Gordon		

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	I DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD NEW_FTG KOD G_BEF G	_AFT O_
4709501890	9/1/2006	8/15/2006	1207	Ground Level	Jksnbg-Strngtwn	Gordon	Gordon	Development Well	Development Well	Gas	Rotary	Acid+Frac	3280	3280	
Comment:	9/1/200	6 Waterfl	and pr	oducer											

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_QNT
4709501890	9/1/2006	Water Flood	Oil & Gas	Vertical	3053	Gordon	3064	Gordon					

There is no Production Gas data for this well

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

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:

o a aagrap	,	J. 1.1.							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4709501890	Original Loc	Big Lime	Well Record	2210	Reasonable	120	Reasonable	1207	Ground Level
4709501890	Original Loc	Big Injun (undiff)	Well Record	2330	Reasonable	140	Reasonable	1207	Ground Level
4709501890	Original Loc	Gordon Stray	Well Record	3035	Reasonable	17	Reasonable	1207	Ground Level
4709501890	Original Loc	Gordon	Well Record	3052	Reasonable	12	Reasonable	1207	Ground Level

- Wireline (E-Log) Information:
 * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

47 95 01890

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

4709501890

Well Operator's Report of Well Work

Farm name:	LEMASTER	S, DAVID W.	Open	rator Well	No.: ISAA	C BAKER 10	
LOCATION:	Elevation:	1,207'	Qua	drangle:	CENTERP	OINT 7.5'	
	District: Latitude: Longitude:	MCELROY 9,125 Feet sou 11,025 Feet we		nty: TYI Deg 27 Deg 40	Min 30	Sec.	
Company:	P.O. BOX 5	OURCES, INC. 519 V 26105-5519		Casing/ tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Agent:	PHILIP S. C	NDRUSEK		ľ			
Inspector: Permit Issued: Well work Con Well work Con Verbal plugging	npleted:	ERWOOD 08/03/06 08/15/06 09/01/06					
permission gran Rotary X Total Depth (fe	nted on: Cable et)	Rig 3280'		7"	516.00'	516.00'	130 sks
Fresh water de				4 1/2"	3220.00'	3220.00'	150 sks
Salt water dept	hs (It)			BI	CEIVED		
Is coal being m	ined in area (Y	/N) N			of Oil & G		
Coal Depths (ft	:):	NA] <mark>√ 2 1 200</mark> 6		
OPEN FLOW	DATA	* WATERFLOOD	PRODUCE	R WV [Departmer	nt of	
	cing formation		ordon		mental Pro Pay zone d		3053'-3064'
Gas:	Initial open		MCF/d		al open flow		* Bbl/d
	Final open fl		MCF/d		al open flow	Hours	*Bbl/d
Static	rock pressure	en flow between ini		u tests urface pre	ecure)	after	Hours
Statie	rock pressure		parg (a	urrace pre	33410)		
	d producing fo				Pay zone de		
Gas:	Initial open				ial open flow	-	Bbl/d
	Final open fl		MCF/d		al open flow	TT	Bbl/d
Statio	time of op rock pressure	en flow between ini		u tests urface pre	vacura)	Hours	Hours
NOTE: ON BACK	C OF THIS FORM NG, PHYSICAL	M, PUT THE FOLLOWING CHANGE, ETC. 2) THE FORMATIONS, INCLU	NG: 1) DETAL	ILS OF PER WHICH IS A	FORATED IN A SYSTEMAT	TERVALS, FRACIC DETAILED	
		For: $\overline{\mathbf{E}}$	AST RESOU	JRCES, IN		· d	<u> </u>
			y:		Ljuk	120/06	
		Γ	ate:			120/06	

$\mathsf{WVGES}\ \mathsf{O\&G}\ \mathsf{Record}\ \mathsf{Reporting}\ \mathsf{System} \\ \mathbf{4709501892}$



Select datatypes: \Box (Check All) Select County: (095) Tyler Production Plugging Location Enter Permit #: 1892 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

Usage Notes Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 95 Permit = 1892 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:26:28 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501892 | Tyler | 1892 | McElroy | Center Point | Centerpoint | 39.467889 | -80.674346 | 528012.3 | 4368751.4

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE_OWNER WELL_NUM CO_NUM 4709501892 10/6/2006 Original Loc Completed Donald McCoy 8 L J Lemas LEASE LEASE_NUM MINERAL_OWN OPERATOR_AT_COME East Resources et al East Resources, Inc. OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_PR 8 L J Lemasters 8

Completion Information:

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
 DEEPEST_FM
 DEEPEST_FM
 DEEPEST_FM
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 DEEPEST_FM
 DEEPEST_F DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AF Unsuccessful Water Injection Rotary Acid+Frac Service Well 3470

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 4709501892 10/6/2006 Water Flood Injection Vertical 3243 Gordon 3256 Gordon

There is no Production Gas data for this well

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

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
4709501892	Original Loc	Big Lime	Well Record	2415	Reasonable	55	Qstnble Pick	1347	Ground Level
4709501892	Original Loc	Greenbrier Group	Well Record	2415	Reasonable	55	Reasonable	1347	Ground Level
4709501892	Original Loc	Big Injun (undiff)	Well Record	2470	Qstnble Pick	180	Reasonable	1347	Ground Level
4709501892	Original Loc	Gordon Stray	Well Record	3222	Reasonable	20	Reasonable	1347	Ground Level
4709501892	Original Loc	Gordon	Well Record	3242	Reasonable	16	Reasonable	1347	Ground Level

- Wireline (E-Log) Information:
 * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

Farm name:

MCCOY, DONALD

4709501892

Operator Well No.: LEMASTERS 8

API # 47

7/24/2006 · 95 · 01892

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

Well Operator's Report of Well Work

LOCATION:	Elevation:	1,347'	Quad	drangle:	CENTERP	OINT 7.5'		
	District: Latitude: Longitude:	MCELROY 11,725 Feet south of 2,200 Feet west of		Deg 30 Deg 40	Min 0	Sec. Sec.		
Company:	EAST RESOUP.O. BOX 55 VIENNA, WY	•		Casing/ tubing Size	Used in Drilling	Left in Well	Fil	ment l Up ı. Ft.
Agent:	PHILIP S. ON	NDRUSEK		·				
Inspector: Permit Issued: Well work Com Well work Com Verbal plugging	pleted:	RWOOD 07/24/06 09/05/06 10/06/06						
permission gran Rotary X Total Depth (fee	ted on: Cable et)	Rig 3470'		7"	642'	642'	155	sks
Fresh water dep				4 1/2"	3294'	3294'	150	sks
Salt water depth	• •							
Is coal being mi Coal Depths (ft)		N) NA NA						
OPEN FLOW I	DATA	*WATERFLOOD INJE	CTOR					
Produc	ing formation	Gordon		· ·	Pay zone		3243'-3	
Gas:	Initial open flor Final open flor		ACF/d ACF/d		ial open flow al open flow	,	*	_Bbl/d _Bbl/d
Static 1	Time of operock pressure	n flow between initial ar	nd fina osig (s	al tests urface pre	essure)	Hou after	ırs	Hours
	d producing for		CCE/1	01.1.4	Pay zone			Bbl/d
Gas:	Initial open fl Final open flo		MCF/d MCF/d		ial open flow al open flow			_Bbl/d
Static 1	Time of operock pressure	n flow between initial a	nd fina osig (s	al tests urface pro	essure)	Hou after	ırs	_Hours
OR STIMULATIN	NG. PHYSICAL C	I, PUT THE FOLLOWING: 1) CHANGE, ETC. 2) THE WELL FORMATIONS, INCLUDING	L LOG	WHICH IS .	A SYSTEMA	TIC DETAILEL	Office of Oil 8	k Gas nief
		For: EAST I	RESOU	JRCES, II	NC		DEC 0 6 2	UU6
		By:		· · · · · ·	Vege	- 6 Mg/	WW Departmental Pi	
		Date:				11/ 7/ 01811	vii Olii Noliilai Pi	OLECHOIT

Treatment:

Treated perforations (3243'-3256') (4SPF) via 4 1/2 casing w/ 250 gals. 15% HCl acid, 307 bbls cross linked gel, and 20,000 # 30/50 sand.

**	•	Log	
w	ΔH	l na	ė
77		LUCE	

		*
0	132	Sand and Shale
132	142	Sand
142	364	Shale
364	398	Sand
398	760	Shale
760	795	Sand
795	934	Shale
934	950	Sand
950	985	Shale
985	1032	Sand
1032	1148	Shale
1148	1158	Sand
1158	1202	Shale
1202	1222	Sand
1222	1340	Shale
1340	1356	Sand
1356	1692	Shale
1692	1733	Sand
1733	1749	Shale
1749	1768	Sand
1768	1817	Shale
1817	1860	Sand
1860	1958	Shale
1958	2005	Sand
2005	2030	Shale
2030	2050	Sand
2050	2078	Shale
2078	2092	Sand
2092	2155	Shale
2155	2195	Sand
2195	2248	Shale
2248	2283	Sand
2283	2374	Shale
2374	2338	Sand
2338	2415	Shale
2415	2470	Big Lime
2470	2650	Big Injun
2650	3222	Shale
3222	3242	Gordon Stray
3242	3258	Gordon
3258	3470	Shale
3470		TD

$\mathsf{WVGES}\ \mathsf{O\&G}\ \mathsf{Record}\ \mathsf{Reporting}\ \mathsf{System} 4709501896$



Select County: (095) Tyler
Select datatypes: C(Check All)

Enter Permit #: 1896

Get Data Reset

Select datatypes: C(Check All)

Location Production Stratigraphy
Pay/Show/Water Logs

Btm Hole Loc

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

WV Geological & Economic Survey:

Well: County = 95 Permit = 1896 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:26:47 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501896 | Tyler | 1896 | McElroy | Center Point | Centerpoint | 39.435793 | -80.705761 | 525321.7 | 4365180.2

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_N	NUM CO_NUM	LEASE	LEASE_NUM MINERAL_OWN	OPERATOR_AT_COMPLETION PRO	OP_VD PROP_TRGT_FM TI
4709501896	9/22/2006	Original Loc	Completed	David W Lemasters		Joshua Haught 7		99226-00 East Resources Inc et al	East Resources, Inc.	3150 Gordon
4709501896	4/8/2013	Worked Over	Completed	David W Lemasters		7	Joshua Haught		HG Energy, LLC	

Completion Information:

AP	'I	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
47	09501896	9/22/2006	8/20/2006	1124	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Development Well	Development Well	Oil	Rotary	Acid+Frac	3200	3200
47	09501896	4/8/2013	3/28/2013	1124	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	unknown	3200	0

Comment: 9/22/2006 Waterflood Producer

Comment: 4/8/2013 Converted to water injection. No open flow data reported

Pay/Show/Water Information:

ſ	API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH	TOP	FM_	TOP	DEPTH_	вот	FM_	вот	G_BEF	G_AFT	O_BE	F O	_AFT	WATER	QNTY
1	4709501896	9/22/2006	Water Flood	Oil	Vertical		2959	Gord	lon		2966	Gord	don							
-	4709501896	4/8/2013	Water Flood	Injection	Vertical		2050	Gord	lon		2006	Gord	lon							

Production Gas Information: (Volumes in Mcf) * 2023 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATO	OR PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DCM	1
4709501896	East Resources, Inc.	2006	_ 0	0	0	0	0	0	0	0	0	0	0	0	0	ı
4709501896	East Resources, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	ı
4709501896	East Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0	ı
4709501896	East Resources, Inc.	2010	0	0	0	0	0	0	0	0	0	0	0	0	0	ı
4709501896	East Resources, Inc.	2011	0	0	0	0	0	0	0	0	0	0	0	0	0	ı
4709501896	HG Energy, LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0	ı
4709501896	HG Energy LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0	ı

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil *2023 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	
4709501896	East Resources, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	
4709501896	East Resources, Inc.	2007	101	0	0	0	0	0	0	0	0	0	93	8	0	
4709501896	East Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0	
4709501896	East Resources, Inc.	2010	32	23	0	7	0	0	0	0	0	0	0	0	2	
4709501896	East Resources, Inc.	2011	0	0	0	0	0	0	0	0	0	0	0	0	0	
4709501896	HG Energy, LLC	2012	264	0	0	0	0	35	27	2	26	43	53	57	21	
4709501896	HG Energy, LLC	2012	280	0	0	0	0	35	27	2	26	47	58	61	24	

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:

Stratigraph	y ii ii Oi i ii au	OH.							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4709501896	Original Loc	Big Lime	Well Record	2150	Reasonable	86	Reasonable	1124	Ground Level
4709501896	Original Loc	Big Injun (undiff)	Well Record	2236	Reasonable	152	Reasonable	1124	Ground Level
4709501896	Original Loc	Gordon Stray	Well Record	2940	Reasonable	15	Reasonable	1124	Ground Level
4709501896	Original Loc	Gordon	Well Record	2955	Reasonable	12	Reasonable	1124	Ground Level

Wireline (E-Log) Information:

There is no Plugging data for this well

^{*} There is no Scanned/Raster Log data for this well

^{*} There is no Digitized/LAS Log data for this well

^{*} There is no Scanned or Digital Logs available for download

WR-35 RM&Beived

4709501896

API#

10/23/2012 47-095-01896

State of West Virginia **Division of Environmental Protection** Section of Oil and Gas Well Operator's Report of Well Work

MAY 1 3 2013

Farm natifice of Oil LEMASTERS, DAVID W.

Operator Well No.: JOSHUA HAUGHT 7

WV Dept. of Environmental Protection

LOCATION:

Elevation:

1,124.00

Quadrangle:

CENETERPOINT 7.5'

District:

MCELROY

County:

Latitude:

TYLER

30 Sec.

Longitude:

8.225 Feet south of 11,675 Feet west of

39 Deg 27 Min

80 Deg 40 Min Sec.

Company Address:	HG Energy 5260 DuPon Parkersburg,		Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Inspector:	Joe Ta	ylor				
Date Permit Is	sued: <u>10</u>	/23/2012				
Date Well Wo	rk Commenced:	03/28/2013				
Date Well Wo	rk Completed:	04/08/2013				
Verbal Pluggi	ng:					
Date Permissi	on Granted On:					÷
Rotary X	Cable R	ig	7"	419	419	105 sks
Total vertical	Depth (ft):	3200				
Total Measure	ed Depth (ft):	3200				
Fresh Water D	epth (ft):	none	4 ½"	3123.55'	3123.55'	150 sks
Salt Water De	pth (ft):	none				
Is Coal being	mined in ares (Y/N)?	No	2 3/8	2855.2	2855.2	on packer
Coal Depths (None	2 3/6	2033.2	2055.2	оп раскег
Void(s) encou	ntered (Y/N) depth(s)	•				
			L			L

OPEN FLOW DATA

* Waterflood Injector

Producing formation	Gordon	,	2959'-2966'
Gas: Initial open flow	* MCF/d Oil: In	itial open flow *	Bbl/d
Final open flow	* MCF/d Fi	nal open flow *	Bbl/d
Time of open flow between	initial and final tests	* Hour	·s
Static rock pressure	* psig (surface p	ressure) after *	* Hours
	-		
Second producing formation		Pay zone depth (ft)	
Second producing formation Gas: Initial open flow	MCF/d Oil: In		Bbl/d
Gas: Initial open flow			Bbl/d Bbl/d
	MCF/d Fi	itial open flow	Bbl/d

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Were	core samp	oles taken?	No		Were cutti		luring drilling?	_	12 - N
Were	Y Y/N NOTE: IN	Electrical, THE AREA BEL	N Y/N OW PUT THE	Mechanical, FOLLOWING: 1). DI THE WELL LOG W	Y/N ETAILS OF F	PERFORATED	cal logs record INTERVALS, FR	ACTURIN	G OR
THE	OPS AND	BOTTOMS OF	ALL FORMAT	TIONS, INCLUDING O	COAL ENCO	JNTERED BY	THE WELLBORE	FROM S	URFACE TO
Treat	ment :	None				•			
		Converted to	water inje	ection					
Well]	Log:	See original	well record	d		•		1. 1. 1.	

WVGES 0&G Record Reporting System 4709501899



Select datatypes: \Box (Check All) Select County: (095) Tyler Production Plugging Location Enter Permit #: 1899 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

Usage Notes Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 95 Permit = 1899 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:28:02 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501899 | Tyler | 1899 | McElroy | Center Point | Centerpoint | 39.452905 | -80.687439 | 526891.9 | 4367084.5

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_CC 4709501899 10/27/2006 Original Loc Completed John W L Jones J B Gorrell 6 East Resources et al East Resources, Inc. OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_PR

Completion Information:

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
 DEEPEST_FM
 DEEPEST_FM
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 DEEPEST_F DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AI Unsuccessful Water Injection Rotary Acid+Frac Service Well 3050

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 4709501899 10/27/2006 Water Flood Injection Vertical 2780 Gordon 2795 Gordon

There is no Production Gas data for this well

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

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
4709501899	Original Loc	Big Lime	Well Record	1990	Reasonable	36	Reasonable	890	Ground Level
4709501899	Original Loc	Big Injun (undiff)	Well Record	2026	Reasonable	178	Reasonable	890	Ground Level
4709501899	Original Loc	Gordon Stray	Well Record	2770	Reasonable	8	Reasonable	890	Ground Level
4709501899	Original Loc	Gordon	Well Record	2778	Reasonable	20	Reasonable	890	Ground Level

- Wireline (E-Log) Information:
 * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

API#

08/23/2006 095 01899

W Department of Environmental Protection

47

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

Well Operator's Report of Well Work

Farm name:	JONES, JOHN	N W.L.	Opera	ntor Well	No.: J.B. C	ORRELL 6		
LOCATION:	Elevation:	890'	Quad	rangle:	CENTERP	OINT 7.5'		
Dock Troit.	District: Latitude: Longitude:	MCELROY 2,000 Feet south of 5,900 Feet west of	Coun	_	Min 30	Sec.		
Company:	EAST RESOU P.O. BOX 55 VIENNA, WY		Ţ -	Casing/ tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.	
Agent:	PHILIP S. ON	IDRUSEK					<u> </u>	
Inspector: Permit Issued: Well work Com Well work Com Verbal plugging	npleted:	RWOOD 08/23/06 09/14/06 10/27/06					, ,	
permission gran Rotary X Total Depth (fe	nted on: Cableet)	Rig 3050'		7"	708'	708'	185 sks	
Fresh water dep				4 1/2"	2957.80'	2957.80'	150 sks	
Salt water depth	ns (ft)		,					
Is coal being m Coal Depths (ft		N) NA						
OPEN FLOW I	DATA	* WATERFLOOD INJI	ECTOR					
Produc	cing formation	Gordon			Pay zone d		2780'-2795'	
Gas:	Initial open fl		MCF/d MCF/d		ial open flow al open flow		* Bbl/d * Bbl/d	
	Final open flor Time of ope	en flow between initial a	nd fina	al tests	•	Hours		
Static	rock pressure	p	osig (su	ırface pre	essure)	after	Hours	i
Second Gas:	d producing for Initial open f Final open flo	low ow N	MCF/d	Fin	Pay zone of ial open flow all open flow	W	Bbl/d Bbl/d	
Static	Time of operock pressure	en flow between initial a	ind fina osig (su	al tests urface pre	essure)	after Hours	Hours	3
NOTE: ON BACK	x OF THIS FORM NG, PHYSICAL (1, PUT THE FOLLOWING: 1) CHANGE, ETC. 2) THE WELI FORMATIONS, INCLUDING	DETAI L LOG V G COAL	LS OF PER WHICH IS A ENCOUNT	FORATED IN A SYSTEMAT ERED BY TH	TIC DETAILED IE WELLBORE.	EIVED	
		For: EAST F	RESOU	IRCES,/IN		Office	e of Chief	

By: Date:

Treatment:

Treated perforations (2780'-2795') (4SPF) via 4 1/2 casing w/ 250 gals. 15% HCl acid, 235 bbls cross linked gel, and 10,800# 30/50 sand.

Well Log:	0	210	Sand and Shale
	210	228	Sand
	228	506	Shale
	506	516	Sand
	516	530	Shale
	530	588	Sand
	588	754	Shale
	754	780	Sand
	780	910	Shale
	910	922	Sand
	922	992	Shale
	992	1015	Sand
•	1015	1140	Shale
	1140	1182	Sand
	1182	1325	Shale
	1325	1373	Sand
	1373	1408	Shale
¢	1408	1424	Sand
	1424	1530	Shale
÷	1530	1555	Sand
•	1555	1739	Shale
- * A	1739	1769	Sand
e transfer of the second secon	1769	1920	Shale
	1920	1935	Sand
	1935	1956	Shale
	1956	1990	Sand
	1990	2026	Big Lime
	2026	2204	Big Injun
	2204	2770	Shale
	2770	2778	Gordon Stray
	2778	2798	Gordon
	2798	3050	Shale
\mathcal{E}_{i}	3050		TD

WVGES O&G Record Reporting System 4709501903



Select datatypes: \Box (Check All) Select County: (095) Tyler Production Plugging Location Enter Permit #: 1903 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

<u>Jsage Notes</u> Contact Information Disclaimer

WV Geological & Economic Survey:

Well: County = 95 Permit = 1903 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:29:04 AM

Location Information: View Map

| API | COUNTY | PERMIT TAZ_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501903 | Tyler | 1903 | McElroy | Center Point | Centerpoint | 39.472675 | -80.678463 | 527656.3 | 4369281.3 |

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE_OWNER WELL_NUM CO_NUM 4709501903 3/16/2007 Original Loc Completed Donald McCoy L J Lemas LEASE LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_PR L J Lemasters 9 East Resources East Resources, Inc.

Completion Information:

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
 DEEPES

 4709501903
 3/16/2007
 2/21/2007
 1217
 Ground Level Jksnbg-Strngtwn
 Gordon
 DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AF Unsuccessful Water Injection Rotary Acid+Frac Gordon Service Well 3330

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 4709501903 3/16/2007 Water Flood Injection Vertical 3113 Gordon 3121 Gordon

There is no Production Gas data for this well

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

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
4709501903	Original Loc	Big Lime	Well Record	2280	Reasonable	50	Reasonable	1217	Ground Level
4709501903	Original Loc	Big Injun (undiff)	Well Record	2330	Reasonable	180	Reasonable	1217	Ground Level
4709501903	Original Loc	Gordon Stray	Well Record	3082	Reasonable	22	Reasonable	1217	Ground Level
4709501903	Original Loc	Gordon	Well Record	3104	Reasonable	20	Reasonable	1217	Ground Level

- Wireline (E-Log) Information:
 * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

095 01903

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

4709501903

W Department of W Departmental Protection

Well Operator's Report of Well Work

		Wen Operator	s Kepoi	t or vven	VVOIK			
Farm name:	MCCOY, D	ONALD	Oper	ator Well	No.: L. LE	MASTERS 9		
LOCATION:	Elevation:	1,217'	Quad	drangle:	CENTERP	OINT 7.5'		
	District: Latitude: Longitude:	MCELROY 10,000 Feet south of 3,375 Feet west of		nty: TYI Deg 30 Deg 40		Sec.		
Company:	P.O. BOX 5	OURCES, INC. 519 /V 26105-5519		Casing/ tubing Size	Used in Drilling	Left in Well	Fil	ment l Up ı. Ft.
Agent:	PHILIP S. C	NDRUSEK						
Inspector: Permit Issued: Well work Com	MIKE UND	ERWOOD 08/29/06 02/21/07						
Well work Com Verbal plugging	npleted:	03/16/07						
permission gran Rotary X Total Depth (fe	Cable et)	Rig 3330'		7"	483'	483'	125	sks
Fresh water dept	. ,			4 1/2"	3275'	3275'	150	sks
Is coal being mi Coal Depths (ft	ined in area (Y	/N) NA	·					
OPEN FLOW I	DATA	*WATERFLOOD INJ	ECTOR					
Produc	cing formation	Gordo	on .		Pay zone d	epth (ft)	3113'-3	3121'
Gas:	Initial open	flow *	MCF/d		ial open flow		*	Bbl/d Bbl/d
	Final open fl Time of op	en flow between initial	MCF/d and fina		al open flow	Hours		_ DUI/U
Static	rock pressure			urface pre	essure)	after		Hours
Second	d producing fo	rmation			Pay zone d	epth (ft)		
Gas:	Initial open	flow	MCF/d		ial open flow			Bbl/d
	Final open fl	ow en flow between initial	MCF/d		al open flow	Hours		_Bbl/d
Static	rock pressure			urface pre	essure)	after		Hours
OR STIMULATIN	NG, PHYSICAL	M, PUT THE FOLLOWING: CHANGE, ETC. 2) THE WE L FORMATIONS, INCLUDIN	LL LOG '	WHICH IS A	A SYSTEMAT	IC DETAILED E WELLBORE.		7
		For: EAST	RESOL	JRCES, IN	NQ.	17 REC	Oil & Gas	\
		Ву:			I gen	Social Office	OIL & Open	1
		Date:			5/2	0/07	2 1 200.	

Treatment:

Treated perforations (3113'-3121') (4SPF) via 4 1/2 casing w/ 250 gals. 15% HCl acid, 318 bbls cross linked gel, and 20,500 # 30/50 sand.

Well Log:	0	240	Sand and Shale
	240	266	Sand
	266	326	Shale
	326	343	Sand
	343	744	Shale
	744	760	Sand
	760	860	Shale
	860	906	Sand
	906	1022	Shale
	1022	1030	Sand
	1030	1080	Shale
	1080	1092	Sand
	1092	1098	Shale
	1098	1114	Sand
	1114	1202	Shale
	1202	1222	Sand
	1222	1274	Shale
	1274	1304	Sand
	1304	1403	Shale
	1403	1418	Sand
	1418	1536	Shale
	1536	1548	Sand
	1548	1570	Shale
	1570	1610	Sand
	1610	1618	Shale
	1618	1684	Sand
	1684	1700	Shale
	1700	1728	Sand
	1728	1822	Shale
	1822	1910	Sand
	1910	2044	Shale
	2044	2052	Sand
	2052	2114	Shale
	2114	2130	Sand
	2130	2236	Shale
	2236	2250	Sand
	2250	2280	Shale
	2280	2330	Big Lime
	2330	2510	Big Injun
	2510	3082	Shale
	3082	3104	Gordon Stray
	3104	3124	Gordon
	3124	3128	Shale
	3128	3136	Sand
	3136	3140	Shale
	3140	3142	Sand
	3142	3330	Shale
			TETE:

3330

TD

WVGES O&G Record Reporting System 4709501909



Select datatypes: \Box (Check All) Select County: (095) Tyler Production Plugging Location Enter Permit #: 1909 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

Usage Notes Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 95 Permit = 1909 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:34:09 AM

Location Information: View Map

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL	_NUM	CO_N	NUM	LEASE		LEASE_NUM	MINERAL	_OWN	OPERATOR_AT	_COMPLETION	PROP_VD
4709501909	11/17/2006	Original Loc	Completed	Randy & Terry Wadsworth			FM Le	emasters 12	Randy & Terry	Wadsworth et al	47221-00	East Resc	urces Inc et al	East Resources	, Inc.	3050

Completion Information:

API	CMP_DT	SPUD_DT	ELEV DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE F	RIG	CMP_MTHD	TVD	TMD NEW_FTG KOD G_	_BEF G_/
4709501909	11/17/2006	10/10/2006	1029 Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection F	Rotary	Acid+Frac	3120	3120	

Pay/Show/Water Information:

PRODUCT SECTION DEPTH_TOP FM_TOP DEPTH_BOT FM_BOT G_BEF G_AFT O_BEF O_AFT WATER_QNTY APÍ CMP_DT ACTIVITY 4709501909 11/17/2006 Water Flood

There is no Production Gas data for this well

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

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
4709501909	Original Loc	Big Lime	Well Record	2066	Reasonable	44	Reasonable	1029	Ground Level
4709501909	Original Loc	Big Injun (undiff)	Well Record	2110	Reasonable	190	Reasonable	1029	Ground Level
4709501909	Original Loc	Gordon Stray	Well Record	2854	Reasonable	18	Reasonable	1029	Ground Level
4709501909	Original Loc	Gordon	Well Record	2872	Reasonable	28	Reasonable	1029	Ground Level

- Wireline (E-Log) Information:
 * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

API#

47 095 1909

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

4709501909

Well Operator's Report of Well Work

Farm name:	WADSWOR	TH, RANDY & TERRY	Operator We	ell No.: LEMA	ASTERS 12	
LOCATION:	Elevation:	1,029'	Quadrangle:	CENTERP	OINT 7.5'	
	District: Latitude: Longitude:	MCELROY 3,500 Feet south of 10,600 Feet west of	County: T 39 Deg 2 80 Deg 4	YLER 27 Min 30 40 Min 00	Sec	
Company:	P.O. BOX 55	OURCES, INC. 519 V 26105-5519	Casing tubin Size	g	Left in Well	Cement Fill Up Cu. Ft.
Agent:	PHILIP S. O	NDRUSEK		,]		
Inspector: Permit Issued: Well work Co Well work Co Verbal pluggin	mmenced: mpleted: ng	ERWOOD 09/11/06 10/10/06 11/17/06				
permission gra Rotary X Total Depth (Cable feet)	Rig 3120'	7"	419'	419'	75 sks
Fresh water d	epths (It)		4 1/2	2963'	2963'	150 sks
Salt water dep	oths (ft)					
Is coal being to Coal Depths (mined in area (Y	/N) NA N				
OPEN FLOW	DATA	*WATERFLOOD INJE	CTOR			
Prod	ucing formation	Gordor			lepth (ft)	2886'-2896'
Gas:	Initial open i	flow * 1		nitial open flow		* Bbl/d * Bbl/d
	Final open fl	ow en flow between initial a		inal open flow	Hours	
Stati	c rock pressure	en now between initial a	osig (surface	pressure)	after	Hours
Seco	nd producing fo			Pay zone c	lepth (ft)	
Gas:			MCF/d Oil: I	nitial open flov		Bbl/d
	Final open fl	•		Final open flow		Bbl/d
Stati	Time of op c rock pressure	en flow between initial a	nd final tests psig (surface	pressure)	after Hours	s Hours
OR STIMULAT	TING, PHYSICAL	M, PUT THE FOLLOWING: 1 CHANGE, ETC. 2) THE WEL L FORMATIONS, INCLUDING	L LOG WHICH	IS A SYSTEMA'	FIC DETAILED	
		By:	RESOURCES	, INC	Holden	Office of Circum
		Date:		U	12/20/06	W Department of W Departmental Protection
						W Department of W Department of Environmental Protection

Treatment:

Treated perforations (2886'-2896') (4SPF) via 4 1/2 casing w/ 250 gals. 15% HCl acid, 278 bbls cross linked gel, and 20,000# 30/50 sand.

Well Log:	0	154	Sand and Shale
	154	184	Sand
	184	550	Shale
	550	564	Sand
	564	650	Shale
	650	695	Sand
	695	814	Shale
	814	830	Sand
	830	860	Shale
	860	902	Sand
	902	1085	Shale
	1085	1098	Sand
	1098	1242	Shale
	1242	1255	Sand
	1255	1430	Shale
	1430	1480	Sand
	1480	1545	Shale
	1545	1560	Sand
	1560	1638	Shale
	1638	1666	Sand
	1666	1676	Shale
	1676	1690	Sand
	1690	1808	Shale
	1808	1847	Sand
	1847	2008	Shale
	2008	2022	Sand
	2022	2032	Shale
	2032	2066	Sand
	2066	2110	Big Lime
	2110	2300	Big Injun
	2300	2854	Shale
	2854	2872	Gordon Stray
	2872	2900	Gordon
	2900	3120	Shale
	3120		TD

WVGES O&G Record Reporting System 4709501910



Select datatypes: \Box (Check All) Select County: (095) Tyler Production Plugging Location Enter Permit #: 1910 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

<u>Jsage Notes</u> Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 95 Permit = 1910 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:34:36 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4709501910 | Tyler | 1910 | McElroy | Center Point | Centerpoint | 39.454776 | -80.704601 | 525414.6 | 4367287.2

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_TRG	T_FM T	FM_EST_
4709501910	3/16/2007	Original Loc	Completed	Edwin J Kinney		W J Wharton 6		13256-50	East Resources Inc et al	East Resources	, Inc.	3050	Gordon		
4709501910	1/25/2010	Worked Over	Completed	Edwin J Kinney		W J Wharton 6		13256-50	East Resources Inc et al	East Resources	Inc.	3090	Gordon		

Completion Information:

AP	Pl	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_	FMT INIT	AL_CLASS	FINAL_CLA	SS TYPE	RIG	CMP_MTHD	TVD	TMD NEW_FTG KOD G_BEF G_AF
470	09501910	3/16/2007	2/8/2007	1024	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Serv	ce Well	Unsuccessfu	Water Injection	Rotary	Acid+Frac	3090	3090
470	09501910	1/25/2010	1/25/2010	1024	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Serv	ce Well	Unsuccessfu	Water Injection	Rotary	Acid+Frac	3090	0

Comment: 1/25/2010 No flow data listed on completion. Workover plat says water injection and completion says producer. Went with listing on plat since well was originally an injector and

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
4709501910	1/25/2010	Water Flood	Injection	Vertical		2881	Gordon	2896	Gordon						_
4709501910	3/16/2007	Water Flood	Injection	Vertical		2881	Gordon	2896	Gordon						

There is no Production Gas data for this well

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

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:

o a aagrapii	<i>j</i>	0111							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4709501910	Original Loc	Big Lime	Well Record	2066	Reasonable	82	Reasonable	1024	Ground Level
4709501910	Original Loc	Big Injun (undiff)	Well Record	2148	Reasonable	150	Reasonable	1024	Ground Level
4709501910	Original Loc	Gordon Stray	Well Record	2858	Reasonable	21	Reasonable	1024	Ground Level
4709501910	Original Loc	Gordon	Well Record	2879	Reasonable	17	Reasonable	1024	Ground Level

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

WR-35 RECETOR & CONTROL OF COMPRESSION APR 26 CONTROL OF COMPRESSION APR 26 CONTROL OF COMPRESSION APR 26 CONTROL OF COMPRESSION APR 26 CONTROL OF COMPRESSION APR 26 CONTROL OF COMPRESSION APR 26 CONTROL OF COMPRESSION APR 26 CONTROL OF COMPRESSION APR 26 CONTROL OF COMPRESSION APR 26 CONTROL OF COMPRESSION APR 26 CONTROL OF COMPRESSION APR 26 CONTROL OF COMPRESSION APR 26 CONTROL OF COMPRESSION APR 26 CONTROL OF COMPRESSION APR 26 CONTROL OF COMPRESSION APR 26 CONTROL OF COMPRESSION APR 26 CONTROL OF COMPRESSION APR 26 CONTROL OF COMPRESSION APPR 26 CONTROL OF

API#

12/30/2009 47 095 01910

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

4709501910

Well Operator's Report of Well Work

Farm name	KINNEY, E	OWIN J.	Oper	ator Well	No.: W. J.	WHARTON 6	
LOCATION:	Elevation:	1024'	Quad	lrangle:	CENTERPO	OINT 7.5'	
	District: Latitude: Longitude:	MCELROY 1,300 Feet south of 10,800 Feet west of		Deg 27	Min 30	Sec.	
Company:	P.O. BOX 5:	OURCES, INC. 519 V 26105-5519		Casing/ tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Agent:	PHILIP S. O	NDRUSEK					
Inspector: Permit Issued: Well work Con		OR 12/30/09 01/25/10 01/25/10				· · · · · · · · · · · · · · · · · · ·	
Well work Con Verbal pluggin	_	01/23/10					
permission grad Rotary X Total Depth (fe	nted on: Cable	Rig 3,090		7"	418'	418'	100 sks
Fresh water dep				4 1/2"	3059.25'	3059.25'	150 sks
Salt water dept	hs (ft)					·	
Is coal being m Coal Depths (fi	· ·	(/N) NA N					
OPEN FLOW	DATA	* WATERFLOOD PRO	ODUCE	ER			
	cing formation			<u> </u>	Pay zone de		2881'-2896' * Rbl/d
Gas:	Initial open for Final open for		MCF/d MCF/d		al open flow Il open flow		* Bbl/d * Bbl/d
	Time of op	en flow between initial a	and fina	al tests		Hours	·
Static	rock pressure		psig (su	urface pres	ssure)	after	Hours
	d producing fo			<u> </u>	Pay zone de		D11/1
Gas:	Initial open for Final open for		MCF/d MCF/d		al open flow al open flow	·	Bbl/d Bbl/d
		en flow between initial a	and fina	al tests		Hours	
Static	rock pressure		psig (sı	urface pre	ssure)	after	Hours
OR STIMULATII	NG, PHYSICAL	M, PUT THE FOLLOWING: 17 CHANGE, ETC. 2) THE WEL L FORMATIONS, INCLUDING	L LOG V	VHICH IS A	SYSTEMATI	C DETAILED	TURING
		For: EAST By:	RESOU	RCES, IN	C. D	Wide	
		Date:			0	4/23/10	· · · · · · · · · · · · · · · · · · ·

Treated perforations 2881'-2896' w/ 250 gals. 15% HCl,

351 bbls cross linked gel, and 25,200 # 30/50 sand.

Well Log:

SEE ORIGINAL WELL RECORD

API#

9/21/2006 47 095 01910

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



		Well Ope	rator's Repo	rt of Well	Work	9(
arm name:	KINNEY, EI	OWIN J.	Op	erator Well	No.: W.J. V	VHARTON 6	
LOCATION:	Elevation:	1,024'	Qu	adrangle:	CENTERPO	OINT 7.5'	
	District: Latitude: Longitude:	MCELROY 1,300 Feet so 10,800 Feet w	outh of 39	unty: TYI Deg 27 Deg 40	Min 30	Sec. Sec.	
Company:	P.O. BOX 55	URCES, INC. 519 V 26105-5519		Casing/ tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Agent:	PHILIP S. O	NDRUSEK					
nspector: Permit Issued: Well work Com Well work Com Verbal plugging	npleted:	ERWOOD 09/21/06 02/08/06 03/16/07	·				
permission gran Rotary X Fotal Depth (fe	Cable et)	Rig 3090'		7"	418'.	418'	100 sks
Fresh water dept	hs (ft)			4 1/2"	3059.25'	3059.25'	150 sks
Is coal being m Coal Depths (ft		/N) <u>N</u> NA					
OPEN FLOW	DATA	* WATERFLOO	D INJECTO	R			·
Gas:	cing formation Initial open for Final open flow Time of operock pressure	low	* MCF/	d Fina	Pay zone dial open flow al open flow essure)	/	2881'-2896' * Bbl/d * Bbl/d Hours
Gas:	d producing fo Initial open for Final open fl Time of op rock pressure	low	MCF/	d Fin	Pay zone dial open flow essure)	v	Bbl/d Bbl/d Hours
NOTE: ON BACI OR STIMULATI	K OF THIS FORI NG, PHYSICAL	M, PUT THE FOLLOW CHANGE, ETC. 2) TI L FORMATIONS, INC	VING: 1) DET HE WELL LOO	AILS OF PER WHICH IS	RFORATED IN A SYSTEMAT	TIC DETAILED	CTURING
507.02.0°		For:	EAST RESO By: Date:	OURCES, II	NV. Igen	120/07	

Treatment:

Treated perforations (2881'-2896') (4SPF) via 4 1/2 casing w/ 250 gals. 15% HCl acid, 322 bbls cross linked gel, and 20,500# 30/50 sand.

Well Log:	0	162.	Sand and Shale
	162	208	Sand
	208	260	Shale
	260	290	Sand
	290	450	Shale
	450	482	Sand
	482	540	Shale
	. 540	556	Sand
	556	652	Shale
	652	698	Sand
	698	818	Shale
	818	834	Sand
	834	816	Shale
	816	835	Sand
	835	872	Shale
	872	900	Sand
	900	1016	Shale
	· 1016	1030	Sand
	1030	1428	Shale
	1428	1478	Sand
	1478	1540	Shale
	1540	1558	Sand
	1558	1638	Shale
	1638	1650	Sand
	1650	1660	Shale
•	1660	1698	Sand
	1698	1822	Shale
<i>3</i>	1822	1850	Sand
	1850	2010	Shale
	2010	2026	Sand
	2026	2034	Shale
	2034	2066	Sand
	2066	2148	Big Lime
	2148	2298	Big Injun
	2298	2858	Shale
	2858	2879	Gordon Stray
	2879	2896	Gordon
	2896	2916	Shale
	2916	2918	Sand
	2918	3090	Shale
	3090		TD

$\mathsf{WVGES}\ \mathsf{O\&G}\ \mathsf{Record}\ \mathsf{Reporting}\ \mathsf{System}\ \mathbf{4709501913}$



Select datatypes: \Box (Check All) Select County: (095) Tyler Production Plugging Location Enter Permit #: 1913 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

Usage Notes Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 95 Permit = 1913 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:35:13 AM

Location Information: View Map

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
4709501913	6/11/2007 Original L	oc Completed	West Virginia Public Lands Corn	56	C.C. Pennick	Fast Resources et al	L Fast Resources Inc	3200 Gordon	

Completion Information:

7	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_BEI	F G_AF
- 14	470950	01913 6/11/2007	2/16/2007 1145	Ground Level	Pn Gry-Cmp Run	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3300	3300	

Pay/Show/Water Information:

PRODUCT SECTION DEPTH_TOP FM_TOP DEPTH_BOT FM_BOT G_BEF G_AFT O_BEF O_AFT WATER_QNTY Injection Vertical 3054 Gordon 3074 Gordon API CMP_DT ACTIVITY PRODUC 4709501913 6/11/2007 Water Flood Injection

There is no Production Gas data for this well

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

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:

9	,								
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4709501913	Original Loc	Big Lime	Well Record	2230	Reasonable	56	Reasonable	1145	Ground Level
4709501913	Original Loc	Big Injun (Price&eq)	Well Record	2286	Reasonable	182	Reasonable	1145	Ground Level
4709501913	Original Loc	Gordon Stray	Well Record	3030	Reasonable	22	Reasonable	1145	Ground Level
4709501913	Original Loc	Gordon	Well Record	3052	Reasonable	23	Reasonable	1145	Ground Level

- Wireline (E-Log) Information:
 * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

4709501913

09/21/2006 095 01913

47

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

Well Operator's Report of Well Work

Farm name:	WV PUBLIC	LANDS CORP	•	Oper	ator Well	No.: C.C.	PENNICK 56 Of	AECEIVED Gas ice of Oil & Chief
LOCATION:	Elevation:	1,145'		Quac	lrangle:	CENTERP	OINT 7.5'	UN 1 9 5003
	District: Latitude: Longitude:	MCELROY 9,950 Fee 2,150 Fee		39	nty: TYI Deg 30 Deg 40	Min 0	Sec. Sec.	WV Department of nvironmental Protection
Company:	EAST RESOUR P.O. BOX 55 VIENNA, WY	,	. 1	,	Casing/ tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Agent:	PHILIP S. ON	DRUSEK						
Inspector: Permit Issued: Well work Com	MIKE UNDE	RWOOD 09/21/06 02/16/0 7						
Well work Com Verbal plugging	pleted:	06/11/07	<u>. </u>		annalis	:		,
permission gran Rotary X Total Depth (fee	Cable3	Rig 300'	 	•	7"	422'	422'	100 sks
Fresh water depth				•	4 1/2"	3147.15'	3147.15'	150 sks
Is coal being min Coal Depths (ft)	•	N) NA	<u> </u>					
OPEN FLOW D	OATA	* WATERFLO	OOD INJEC	CTOR				
	ng formation	·	Gordon	~= /4		Pay zone de		3054'-3074'
Gas:	Initial open flo Final open flo	w	* Mo	CF/d	Fina	al open flow I open flow		* Bbl/d * Bbl/d
Static re	Time of oper ock pressure	n flow between			l tests rface pres	ssure)	Hours after	Hours
Second	producing form	nation				Pay zone de		
Gas:	Initial open flo Final open flo		and the second s	CF/d		al open flow		Bbl/d
	*	w n flow between		CF/d d fina		l open flow	Hours	Bbl/d
Static re	ock pressure				rface pres	ssure)	after	Hours
NOTE: ON BACK OR STIMULATING GEOLOGICAL RE	G, PHYSICAL CI	HANGE, ETC. 2)	THE WELL I	LOG W	HICH IS A	SYSTEMATI	C DETAILED	TURING
	•	For	EAST RE	SOLI	CES IN			
		101.	By:	.5001		/Ser 1	Hed-	
	•		Date:			0	6/18/07	
					٠		• •	

Treatment:

Treated perforations (3054'-3074') (4SPF) via 4 1/2 casing w/ 250 gals. 15% HCl acid, 313 bbls cross linked gel, and 15,000 # 30/50 sand.

Well Log:

0	188	Sand and Shale
188	210	Sand
210	471	Shale
471	496	Sand
496	540	Shale
540	552	Sand
552	812	Shale
812	860	Sand
860	974	Shale
974	988	Sand
988	1096	Shale
1096	1116	Sand
1116	1154	Shale
1154	1176	Sand
1176	1492	Shale
1492	1508	Sand
1508	1562	Shale
1562	1606	Sand
1606	1624	Shale
1624	1690	Sand
1690	1760	Shale
1760	1824	Sand
1824	1840	Shale
1840	1856	Sand
1856	1860	Shale
1860	1872	Sand
1872	1884	Shale
1884	1910	Sand
1910	1982	Shale
1982	2012	Sand
2012	2070	Shale
2070	2102	Sand
2102	2190	Shale
2190	2204	Sand
2204	2230	Shale
2230	2286	Big Lime
2286	2468	Big Injun
2468	3030	Shale
3030	3052	Gordon Stray
3052	3075	Gordon
3075	3080	Shale
3080	3088	Sand
3088	3300	Shale
3300		TD
2230		

$\mathsf{WVGES}\ \mathsf{O\&G}\ \mathsf{Record}\ \mathsf{Reporting}\ \mathsf{System} 4709501916$



Select datatypes: \Box (Check All) Select County: (095) Tyler Production Plugging Location Enter Permit #: 1916 ✓ Owner/Completion Stratigraphy ✓ Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

Usage Notes Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 95 Permit = 1916 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:35:42 AM

Location Information: View Map

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_
4709501916	3/9/2007 Dvtd Oranl Loc	Completed	James & Betty McCov et al	AD Lemasters 26	East Resources et al	East Resources, Inc.	Gordon

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST	_FMT	INITIAL_CLA	SS FINAL	_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG KOD G	BEF G_AF
4709501916	3/9/2007	12/17/2006	955	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon		Service Well	Unsuc	cessful	Water Injection	Rotary	Acid+Frac	3013	3224	3224	
Comment:	3/0/200	7 Drillad o	direction	mally S20 de	agrees E at a d	ictance of 70	1ft											

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 4709501916 3/9/2007 Water Flood Injection Deviated 3040 Gordon 3052 Gordon

There is no Production Gas data for this well

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

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
4709501916	Dvtd Orgnl Loc	Big Lime	Well Record	2064	Reasonable	54	Reasonable	955	Ground Level
4709501916	Dvtd Orgnl Loc	Big Injun (undiff)	Well Record	2118	Reasonable	220	Reasonable	955	Ground Level
4709501916	Dvtd Orgnl Loc	Gordon Stray	Well Record	3004	Deviated Drlg	36	Reasonable	955	Ground Level
4709501916	Dvtd Orgnl Loc	Gordon	Well Record	3040	Deviated Drlg	26	Reasonable	955	Ground Level

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

11/27/2006 47 095 01916

4709501916

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

Well Operator's Report of Well Work

Farm name:	MCCOY, DO	NALD & DELORES	Operator Well No.: AD LEMASTERS 26							
LOCATION:	Elevation:	955'	Quad	rangle:	CENTERPO	OINT 7.5'				
	District: Latitude: Longitude:	MCELROY 11,250 Feet south of 3,750 Feet west of		ty: TYL Deg 30 Deg 40	Min 0	Sec. Sec.				
Company:	EAST RESOUP.O. BOX 55 VIENNA, WY			Casing/ tubing Size	Used in Drilling	Left in Well	Ceme Fill U Cu. J	Up		
Agent:	PHILIP S. ON	NDRUSEK								
Inspector: Permit Issued:	MIKE UNDE	11/27/06								
Well work Com Well work Com Verbal plugging	pleted:	12/17/06 03/09/07		11 3/4"	242'	242'	165 s.	ks		
permission gran Rotary X Total Depth (fee	Cable	Rig D) OR 3013'(TVD)		8 5/8"	1292'	1292'	185 s	ks		
Fresh water depth	oths (ft)			4 1/2"	3152'	3152'	150 s	ks		
				•						
Is coal being mi Coal Depths (ft		N) NA N					<u> </u>			
OPEN FLOW I	DATA	* WATERFLOOD INJE This well drilled direction			istance of 79	9 1'				
	ing formation	Gordon			Pay zone de	epth (ft)	3040'-30: *			
Gas:	Initial open floring Final open floring florin		ACF/d ACF/d		al open flow al open flow		L	3bl/d 3bl/d		
		n flow between initial ar			ii open now	Hours		2021 4		
Static	cock pressure	p	sig (su	rface pre	ssure)	after	H	Hours		
Second	d producing for	mation			Pay zone d	epth (ft)				
Gas:	Initial open fl	low N			al open flow			3bl/d		
	Final open flo		MCF/d		al open flow	Hours		3bl/d		
Static	rock pressure	n flow between initial an p	sig (su	ir tests irface pre	ssure)	after		Hours		
OR STIMULATIN	NG, PHYSICAL C	I, PUT THE FOLLOWING: 1) CHANGE, ETC. 2) THE WELL FORMATIONS, INCLUDING	LOG W	VHICH IS A	SYSTEMAT	IC DETAILED	CTURING			
		For: EAST R	ESOU	RCES, IN	e.) //	01				
		By: Date:			Jer 101	207				
		Duto.			-//5					

Treatment:

Treated perforations (3040'-3052') (4SPF) via 4 1/2 casing w/ 250 gals. 15% HCl acid, 316 bbls cross linked gel, and 18,500# 30/50 sand.

		Α.	
Well Log:	0	426	Sand and Shale
	426	458	Sand
•	458.	490	Shale
1.0	490	510	Sand
	510	546	Shale
	546	567	Sand
	567	584	Shale
	584	652	Sand
	. 652	765	Shale
	765	784	Sand
	784	810	Shale
	810	864	Sand
	864	1208	Shale
	1208	1232	Sand
	1232	1362	Shale
	1362	1416	Sand
	1416	1424	Shale
	1424	1476	Sand
	1476	1496	Shale
	1496	1522	Sand
	1522	1570	Shale /
	1570	1590	Sand
	1590	1595	Shale
	1595	1636	Sand
•	1636	1678	Shale
	1678	1728	Sand
	1728	1792	Shale
i	1792	1825	Sand
	1825	1846	Shale
•	1846	1880	Sand
	1880	1896	Shale
	1896	1912	Sand
	1912	2016	Shale
	2016	2030	Sand
	2030	2064	Shale
	2064	2118	Big Lime
•	2118	2338	Big Injun
	2338	3004	Shale
	3004	3040	Gordon Stray
	3040	3066	Gordon
	3066	3072	Shale
	3072	3076	Sand
•	3076	3224	Shale
	3224	·	TD
	J447		~~

WVGES O&G Record Reporting System 4710300906



Select County: (103) Wetzel Select datatypes: \Box (Check All) Production Plugging Location Enter Permit #: 906 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Pay/Show/Water Logs ✓ Btm Hole Loc

<u>Jsage Notes</u> Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 103 Permit = 906 Link to all digital records

Report Time: Thursday, November 30, 2023 10:36:26 AM

Well Reassignment Information: Reassigned From OLD_COUNTY OLD_PERMIT NEW_COUNTY NEW_PERMIT 103 70498 103 906

 Location Information:
 View Map

 API
 COUNTY PERMIT TAX_DISTRICT QUAD_75
 QUAD_15
 LAT_DD LON_DD UTME

 4710300906
 Wetzel
 906
 Green
 Pine Grove Littleton
 39.516081
 -80.692512
 526431
 UTMN

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_N	NUM CO_	NUM I	LEASE	LEASE_NUM MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD F	ROP_T	RGT_FN	N TFM_E
4710300906	9/17/1898	Original Loc	Completed	Rachael Wright		3				South Penn Oil (S. Penn Nat. Gas)				
4710300006	11/10/1006	Worked Over	Completed	Santford I Haught		3		Pachael Wright	25042-50 Pennzoil Producte Co	Pennzoil Producte Company				

Completion Information:

API	CMP_DT	SPUD_DT	ELEV DATUM	FIELD	DEEPEST_FM	DEEPEST_FM	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD NEW_FTG	KOD G_BEF C
47103009	06 9/17/1898	4/13/1898		Jksnbg-Strngtwn	Hampshire Grp	Gordon	unclassified	unclassified	Oil	unknown	Shot	2697	2697	0
47103009	06 11/19/1996	9/9/1996	854 Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Cable Tool	Acid+Frac	2697	0	0

Pay/Show/Water Information:

7	API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_1	ГОР	FM_TOP	DEPTH_B	от г	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_0	QNTY
4	4710300906	9/17/1898	Pay	Oil	Vertical				26	373 (Gordon	10	0				
- 12	4710300906	11/10/1006	Horizon	Injection	Vertical	2	681	Gordon	26	393 (Gordon	Λ	Λ				

Production Gas Information: (Volumes in Mcf) * 2023 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
	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4710300906	Pennzoil Company	1982	19	0	0	0	0	0	0	0	0	0	0	0	0
4710300906	Pennzoil Company	1983	26	0	0	0	0	0	0	0	0	0	0	0	0
4710300906	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4710300906	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4710300906	Pennzoil Products Company	1992	214	0	0	0	0	0	0	0	154	60	0	0	0
4710300906	Pennzoil Products Company	1993	27	0	0	0	0	0	0	0	0	2	16	9	0
4710300906	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4710300906	Pennzoil Products Company	1995	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 *2023 data for H6A wells only. Other wells are incomplete at this time.

	On morniagon (voiding														
API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DCM
	Pennzoil Company	1981	1	0	0	0	0	0	0	0	0	0	0	0	0
4710300906	Pennzoil Company	1982	0	0	0	0	0	0	0	0	0	0	0	0	0
	Pennzoil Company	1983	0	0	0	0	0	0	0	0	0	0	0	0	0
4710300906	Pennzoil Company	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4710300906	Pennzoil Products Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4710300906	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4710300906	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4710300906	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4710300906	Pennzoil Products Company	1995	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

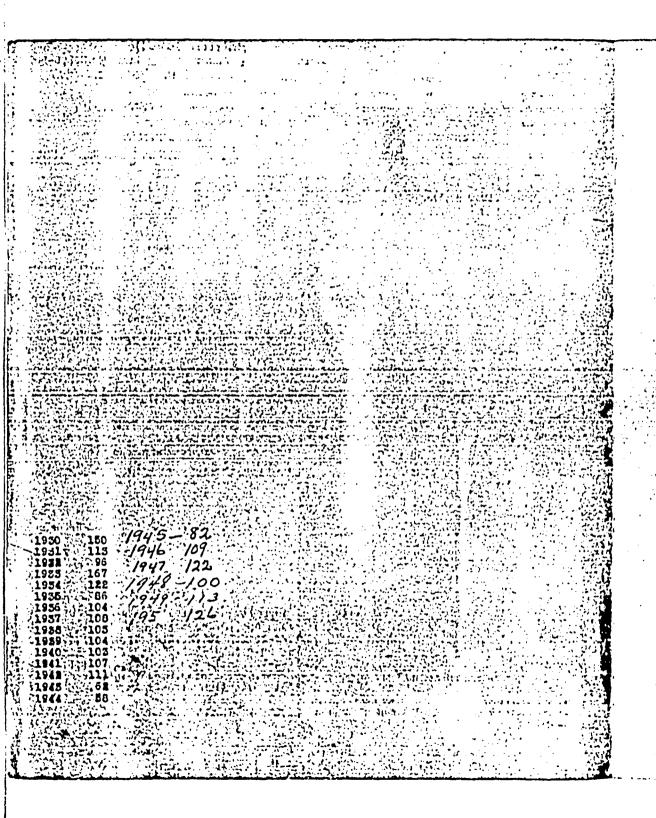
Wireline (E-Log) Information:

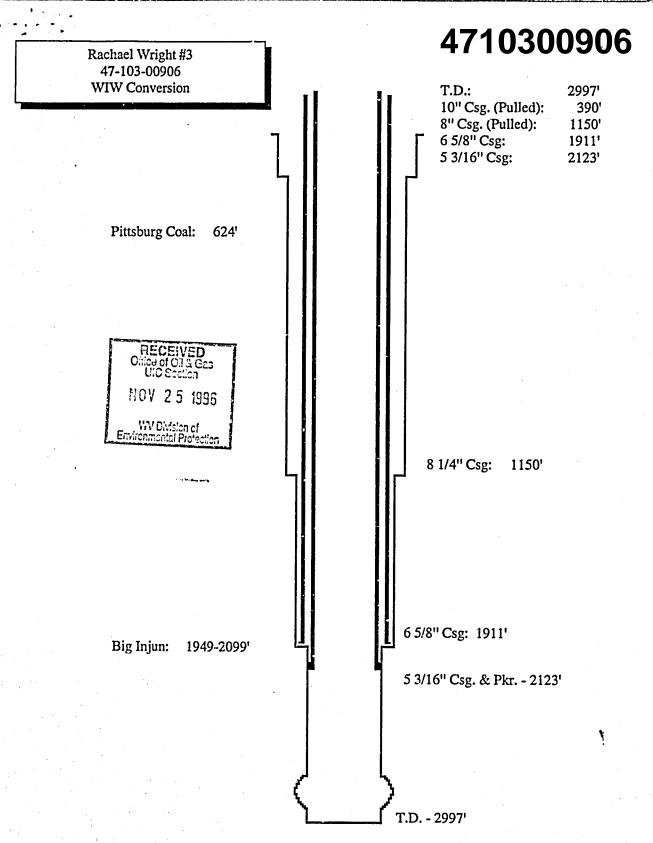
- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

	/13/98	COUNT IP IP IP IP IP IP IP IP IP IP IP IP IP	COMPL COMPL COMPL	атко 9/17/9	STATE B Size Cond 10 81 6- 5-	CONTRACT CON	N. 5	S. CORD	E.	29622594 W.
NIA COMMENCED DATA COMMENCED NINO Pgh Coal Big Injun Stray Gas Gordon	/13/98 Fo Tor 624 1949 2655 2657 2681	RMATION BOTTOM 8099	COMPL COMPL COMPL	.етер .етер 9/17/9 .етер	SIZE Cond 10 81 6 5	CONTRAC CONTRAC CONTRAC CONTRAC CONTRAC CONTRAC CONTRAC CONTRAC CONTRAC CONTRAC CONTRAC CONTRAC CONTRAC CONTRAC CONTRAC	ASING RE TOR ASING RE TOR ASING RE 16 390 1150 1911 2123	CORD (TA	PALLED LY MEAN 1	Larry be United Admirth.
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Pgh Coal Big Injun Stray Gas Gordon	Fo Tor 624 1949 2655 2657 2681	RMATION BOTTOM 2099	COMPL	.e1100	SIZE Cond 10 81 6- 5-	CONTRACT C C Perron Cales	ASING RE 16 390 1150 1911 2123	CORD	390	Wheep America
Pgh Coal Big Injun Stray Gas Gordon	1949 2655 2657 2681	E099	l trem bes		Cond 10 81 6- 5-	COMPANIENT CAMPANIENT CONTROL LABORS (A) (A) (A) (A) (A) (A) (A) (A) (A) (A)	16 390 1150 1911 2123	1	390	Wheep America
Pgh Coal Big Injun Stray Gas Gordon	1949 2655 2657 2681	80999	Breek Leet	REMARKS	Cond 10 81 6- 5-	BIVYING CASING - PYEN, LINE)	16 390 1150 1911 2123	1	390	Wheep America
Pgh Coal Big Injun Stray Gas Gordon	624 1949 2655 2657 2681	2099	Branchess	REMARKS	Cond 10 81 6- 5-	5/8 5/16	16 . 390 . 1150 . 1911 £123	ĩ	390	Wheep America
Big Injun Stray Gas Gordon	1949 2655 2657 2681	2099			10 8‡ 6- 5-	5/16	390 1150 1911 2123	1	390 .	
Stray Gas Gordon	1949 2655 2657 2681	2099			8 <u>1</u> 6- 5-	5/16	1150 1911 2123 PACKERS	1	390 .	
Stray Gas Gordon	2655 2657 2681				6- 5-	5/16	1911 2123 PACKERS	1	150	
Gas Gordon	2657 2681	2693			5-	5/16	2123			
Gas Gordon	2681	2693				KIND				
Gordon	2681	2693				KIND				1
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566





Gordon: 2681 - 2693

State of West Virginia

API#

7-May-96 47 -103- 0906

Cement

Fill Up

2681-2603

JA11 21. Posterior

Division of Environmental Protection Section of Oil and Gas

4710300906

Office of Class also Well Operator's Report of Well Work

Farm name:	
------------	--

Haught, Sanford Joe

Operator Well No.: Rachael Wright #3

LOCATION:

Elevation:

854.00

Ouadrangle:

Pine Grove

District:

Green

County: Wetzel

Latitude: Longitude: 9,300 Feet south of 7,300 Feet west of

39 Deg 32 Min

Company:

PENNZOIL PRODUCTS COMPANY

P.O. BOX 5519

VIENNA, WV 26105-5519

Agent:

PHILIP S. ONDRUSEK

X

Inspector:

Randal Mick

Permit Issued: Well work Commenced:

5/7/96 9/9/96

NA

NA

N

11/19/96

Well work Completed: Verbal plugging

permission granted on:

Rotary Cable

Rig 2697' Total Depth (feet) Fresh water depths (ft) NA

Salt water depths (ft)

Is coal being mined in area (Y/N) Coal Depths (ft):

Producing formation

80 Deg 40 Min 00 Sec. Used in Left Casing

30 Sec.

١	Tubing	Drilling	in Well	Cu. Ft.				
	Size							
	6 5/8"	1911.00'	1911.00'	Existing Casing				
	5 3/16"	2123.00'	2123.00'	Existing Casing				
		- 40						
	3 1/2"	2694.43'	2694.43'	300 Sacks				
		Note: P	ulled 4 x 4.5" Li	iner				

CPEN FLOW DATA

*Well was converted to a waterflood injection well. No open-flow data was obtained.

Pay zone denth (ft)

1 loddenig formation	Gordon	r ay zone ucp	11 (11)	2001-2093
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 bety	veen initial and final	tests *	Hours	
Static rock pressure	*psig (sur	face pressure) af	ter	Hours
Second producing formation		Pay zone dep	th (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 bety	veen initial and final	tests	Hours	
Static rock pressure	psig (sur	face pressure) af	ter	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.

Gordon

For: PENNZOIL PROD

By:

Date:

₹ 90

Treatment:

Perforations:

2682' - 2686' - 4 holes/ft.(16 holes)

Teatment:

Treated via 3.5" Casing with 300 gals. 15% HCl, 208 bbls.

Borate cross-linked gelled water and 10,800 lbs. of 20/40 sand.

Well Log:

Note: See Original Well Record.

$\mathsf{WVGES} \ \mathsf{O\&G} \ \mathsf{Record} \ \mathsf{Reporting} \ \mathsf{System} \\ \mathbf{4710300947}$



Select County: (103) Wetzel	~	Select datatypes: (Check All)	
Enter Permit #: 947		Location	Production	Plugging
Get Data Reset		Owner/Completion	Stratigraphy	Sample
Get Data Reset		✓ Pay/Show/Water	Logs	✓ Btm Hole Loc

<u>Jsage Notes</u> Contact Information

WV Geological & Economic Survey:

Well: County = 103 Permit = 947 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:37:13 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4710300947 | Wetzel | 947 | Green | Pine Grove | Littleton | 39.500274 | -80.690635 | 526598.8 | 4372340.6

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM CO_NUM	LEASE L	EASE_NUM MINERAL_OWN	OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFI
4710300947	12/27/1898	Original Loc	Completed	James A Booth	5			Pennzoil Company
4710300947	5/21/1901	Worked Over	Completed	James A Booth	4			Pennzoil Company
4710300947	11/26/1902	Worked Over	Completed	James A Booth	4			Pennzoil Company
4710300947	3/29/1996	Worked Over	Completed	John & Stanley Pittman	5	James A Booth	15636-50 Pennzoil Products Co et al	Pennzoil Products Company

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_F	FMT I	NITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD NEW_FT	KOD G_	BEF G
4710300947	12/27/1898	10/25/1898	1220	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	ι	unclassified	unclassified	Oil	unknown	Shot	3099	3099)	0
4710300947	5/21/1901	-/-/-	1220	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	ι	unclassified	unclassified	Oil	unknown	Shot	3099	()	0
4710300947	11/26/1902	-/-/-	1220	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	ι	unclassified	unclassified	Oil	unknown	Shot	3099	()	0
4710300947	3/29/1996	1/18/1996	1217	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	5	Service Well	Unsuccessful	Water Injection	unknown	Acid+Frac	3099	()	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
4710300947	12/27/1898	Pay	Oil	Vertical		Gordon	0	Gordon	0	0				
4710300947	12/27/1898	Show	Oil	Vertical			2380	Big Injun (undiff)	0	0				
4710300947	12/27/1898	Show	Oil	Vertical			3027	Gordon Stray	0	0				
4710300947	3/29/1996	Horizon	Injection	Vertical	3072	Gordon	3086	Gordon	0	0				

Production Gas Information: (Volumes in Mcf) * 2023 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
4710300947	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4710300947	Pennzoil Company	1983	118	0	0	0	0	0	0	0	0	0	0	0	0
4710300947	Pennzoil Company	1984	212	0	0	0	0	0	0	0	0	0	0	0	0
4710300947	Pennzoil Products Company	1989	1,142	81	0	58	71	41	105	132	102	137	131	106	178
4710300947	Pennzoil Products Company	1990	956	0	58	109	77	67	142	133	65	41	86	76	102
4710300947	Pennzoil Products Company	1991	597	106	156	62	93	17	72	0	22	24	31	0	14
4710300947	Pennzoil Products Company	1992	805	120	26	98	71	43	0	0	88	21	149	76	113
4710300947	Pennzoil Products Company	1993	436	64	0	55	124	126	36	4	0	2	16	9	0
4710300947	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4710300947	Pennzoil Products Company	1995	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 *2023 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	ı
4710300947	Pennzoil Company	1981	56	0	0	0	0	0	0	0	0	0	0	0	0	ı
4710300947	Pennzoil Company	1983	81	0	0	0	0	0	0	0	0	0	0	0	0	ı
4710300947	Pennzoil Company	1984	72	0	0	0	0	0	0	0	0	0	0	0	0	ı
4710300947	Pennzoil Products Company	1989	69	5	6	5	6	7	8	7	8	7	7	0	3	ı
4710300947	Pennzoil Products Company	1990	72	7	5	5	6	9	6	2	7	5	6	7	7	ı
	Pennzoil Products Company	1991	70	8	10	3	7	8	7	5	2	0	1	10	9	ı
4710300947	Pennzoil Products Company	1992	73	8	7	7	9	5	4	7	6	5	8	7	0	ı
4710300947	Pennzoil Products Company	1993	32	7	7	9	7	2	0	0	0	0	0	0	0	ı
4710300947	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0	ı
4710300947	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0	J

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

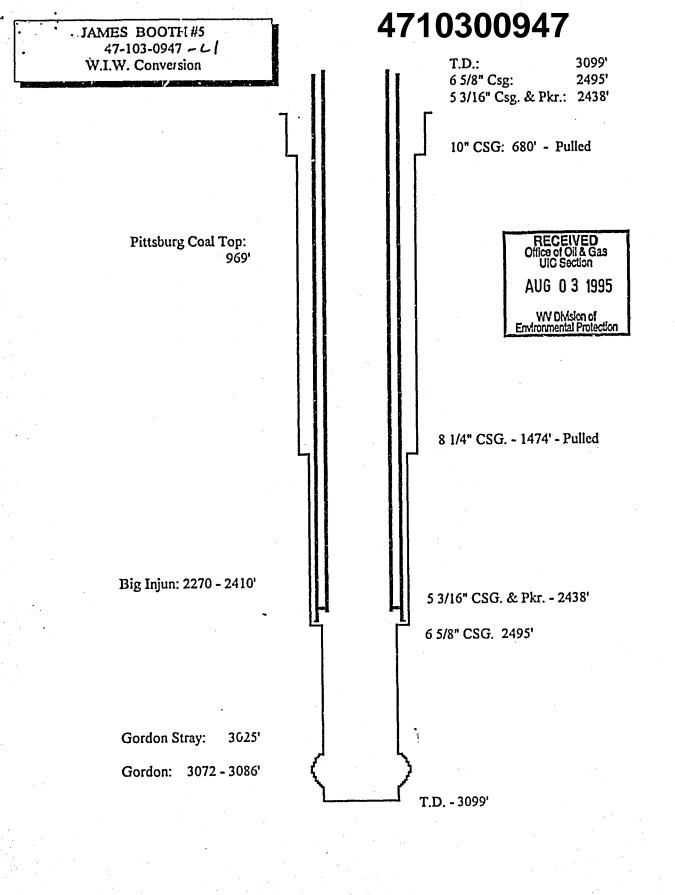
There is no Stratigraphy data for this well

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

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WVGES O&G Record Reporting System 4710301315



Select datatypes: \Box (Check All) Select County: (103) Wetzel Production Plugging Location Enter Permit #: 1315 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Pay/Show/Water Logs Btm Hole Loc

<u>Jsage Notes</u> Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 103 Permit = 1315 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:38:17 AM

Location Information:

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_PF
4710301315	12/2/1984	Original Loc	Completed	Dallison Timberlands Inc	13		Irene Reilly	15634-50	Thomas F Newman	Pennzoil Company		
4710301315	2/12/1986	Worked Over	Completed	Dallison Timberlands Inc	13		Irene Reilly	15634-50	Thomas F Newman	Pennzoil Company		
4710301315	10/3/1995	Worked Over	Completed	Dallison Timberlands Inc	13		Irene Reilly	15634-50	Thomas F Newman	Pennzoil Products Company		
4710301315	-/-/-	Worked Over	Cancelled	W V DNR	13		Irene Reilly	15634-50	Thom F Newman	HG Energy, LLC	2990 Gordon	

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 KO	D G_BE
4710	301315	12/2/1984	11/26/1984	1005	Ground Level	Jksnbg-Strngtwn	Gordon	Gordon	Service Well	Unsuccessful	Other	Rotary	Nat/Open H	2990	2990	
4710	301315	2/12/1986	2/12/1986	1005	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Development Well	Development Well	Gas	unknown	Acid+Frac	2990	0	15
4710	301315	10/3/1995	10/3/1995	1005	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Cable Tool	unknown	2990	0	
4710	301315	-/-/-	-/-/-	1005	Ground Level						Water Injection					

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
١	4710301315	12/2/1984	Water	Fresh Water	Vertical			250	Pennsylvanian System					0
	4710301315	12/2/1984	Water	Salt Water	Vertical			1811	Maxton					0
	4710301315	10/3/1995	Horizon	Injection	Vertical	2881	Gordon	2890	Gordon	0	0			
	4710301315	2/12/1986	Pay	Gas	Vertical	2911	Gordon	2915	Gordon	150	94			

Production Gas Information: (Volumes in Mcf) * 2023 data for H6A wells only. Other wells are incomplete at this time.

	(·							,.				•	~p		
API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DCM
	Pennzoil Products Company		1,635	0	0	0	0	282	330	258	257	257	0	0	251
4710301315	Pennzoil Products Company	1990	2,800	244	227	240	193	209	209	80	205	0	515	396	282
4710301315	Pennzoil Products Company	1991	2,786	257	301	233	222	270	255	124	109	109	333	255	318
4710301315	Pennzoil Products Company	1992	1,720	195	236	210	132	157	50	114	153	110	112	146	105
4710301315	Pennzoil Products Company	1993	523	118	138	76	31	1	47	112	0	0	0	0	0
4710301315	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301315	Pennzoil Products Company	1995	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 *2023 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
4710301315	Pennzoil Products Company	1989	_ 0	0	0	0	0	0	0	0	0	0	0	0	0
4710301315	Pennzoil Products Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301315	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301315	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301315	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301315	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301315	Pennzoil Products Company	1995	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:

Citatigraphy information.											
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM		
4710301315	Original Loc	unidentified coal	Well Record	⁻ 781	Reasonable	9	Reasonable	1005	Ground Level		
4710301315	Original Loc	Maxton	Well Record	1811	Reasonable	29	Reasonable	1005	Ground Level		
		Blue Monday	Well Record	1995	Reasonable	13	Reasonable	1005	Ground Level		
4710301315	Original Loc	Pencil Cave	Well Record	2008	Reasonable	14	Reasonable	1005	Ground Level		
4710301315	Original Loc	Big Lime	Well Record	2046	Reasonable	72	Reasonable	1005	Ground Level		
4710301315	Original Loc	Big Injun (Price&eq)	Well Record	2190	Reasonable	96	Reasonable	1005	Ground Level		
4710301315	Original Loc	Gordon Stray	Well Record	2858	Reasonable	23	Reasonable	1005	Ground Level		
4710301315	Original Loc	Gordon	Well Record	2881	Reasonable	109	Qstnble Pick	1005	Ground Level		

Wireline (E-Log) Information:

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_SEC1 4710301315

WSC Comment: 2 sets of boxes

^{*} There is no Scanned/Raster Log data for this well

^{*} There is no Digitized/LAS Log data for this well

^{*} There is no Scanned or Digital Logs available for download

Environmental Protection

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

Well Operator's Report of Well Work 0301315

Farm name:	WVA. PUBLIC L	AND	Operator	Well No.:	IRENE REI	LLY#13
LOCATION:	Elevation: 1,	005.00 Qua	drangle: C	ENTER POINT		
	District: GRI Latitude: 27 Longitude 83	EEN 10 Feet So 10 Feet We	uth of 39	ounty: WETZ Deg. 30Min Deg. 40 Mi	. 0 Sec.	•
Company: PEN	NZOIL PRODUCTS	COMPANY				
	BOX 5519 NNA, WV 26105-	-5519		Used in	İ	Cement Fill Up
Agent: JAM	ES A. CREWS	•. •	~	Drilling	in Well 	Cu. Ft.
Inspector: Permit Issue Well work Co	ed: 12/ ommenced: 10	/14/94 //03/95	Size	 		
Well work Co Verbal Plugo Permission	ompleted: 10	/03/95 -	8-5/8"	 893 '	893'	Existing Casing
Rotary Total Depth	Cable X F	2990' NA	4-1/2"	 2976'	2976'	Existing Casing
Salt water o	depths (ft)	NA				
Is coal bein	ng mined in are (ft):	a (Y/N)? <u>N</u>			.	
OPEN FLOW DA	ATA CO	*Water injec	tion well			
Produci Gas: Ir	ng formation nitial open flo nal open flow me of open flo rock Pressure	Gordon w * MCF * MCF	/d Oil: In	Pay zone d nitial open nal open fl	lepth (ft) flow <u>*</u> .ow*	2881-299 Bbl/d Bbl/d
Static	rock Pressure_	w between i psi	nitial and g (surface	l final test e pressure)	s * after *	Hours Hours
Second Gas: In	producing form	ation wMCF	/d Oil: In	Pay zone d	lepth (ft)	Bb1/0
Fi Ti	nal open flow me of open flo	MCF	/d Fi	nal open fl	.OW	Bbl/d Hours
Topogono Static	rock Pressure_	psi	g (surface	pressure)	after	Hours
LOG WHICH I	rock Pressure_ KOOF THIS FORE RACTURING OR S S A ^N SYSTEMATICAL ENCOUNTERED	C DETAILED	GEOLOGICA	: 1). DETA L CHANGE, L RECORD O	F ALL FOR	MATIONS
				· 🔿#:	RECEIVE	
	F	or: PENNZOI	L PRODUCTS	COMPANY	ce of Oil an	
	.•	By:	Kmull (1/2/95	SEP 23 2013	}
			<u></u>	-1, <u>-1, 33</u> - M.	V Departme	nt of

Treatment:

Sandonotched - 2888'-2892' Treated via $4\frac{1}{2}$ " csg. w/300 gals. 15% HCl acid, 217 bbls. of gelled water & 73,700—lbs. of 20/40 sand

Well Log:

13,700

See original well record

Received

SEP 2013

Office of Oil and Gee Protection

Wy Dept. of Environmental Protection

SEP 232013

SEP 232013

Wy Dept. of Environmental Protection

Wy Dept. of Environmental Protection

WVGES O&G Record Reporting System 4710301514



Select County: (103) Wetzel Select datatypes: (Check All) Location Production Plugging Enter Permit #: 1514 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Logs ✓ Pay/Show/Water ✓ Btm Hole Loc

Usage Notes Contact Information Disclaimer

WV Geological & Economic Survey:

Well: County = 103 Permit = 1514 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:39:08 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4710301514 | Wetzel | 1514 | Green | Center Point | Centerpoint | 39.476155 | -80.679961 | 527526.1 | 4369667 |

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_COMPLET
4710301514 12/14/1992 Dvtd Orgnl Loc Completed Donald L McCoy K-14-B CT Hall 67696-00 Pennzoil Products Co et al Pennzoil Products Company OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_

Completion Information

 API
 CMP_DT
 SPUD_DT
 ELEV DATUM
 FIELD
 DEEPEST_FM
 DEEPEST_FM
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 <t DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_A Service Well Unsuccessful Water Injection Rotary Acid+Frac 3600

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 4710301514 12/14/1992 Water Flood Injection Deviated 3466 Gordon 3474 Gordon 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:

FM FM_QUALITY DEPTH_TOP DEPTH_QUALITY THICKNESS THICKNESS_QUALITY ELEV DATUM SUFFIX 4710301514 Dvtd Orgnl Loc Gordon Well Record

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

Reviewed. Recorded.

· · · · · · · · · · · · · · · · · · ·		API	# 47-103	-01514 s
State of Westivision of Environ Section of O	nmental P	rotection A	71030)1514
WP 2'4 93 Well Operator's Re	eport of	Well Work		
Farm name Wy Division Of , DONALD L.	Operator	Well No.:	C.T. HALL	K-14B
LOCATION: Elevation: 1405.00 Quadi	rangle: C	ENTER POINT		
District: CHURCH Latitude: 8650 Feet Sout Longitude 3800 Feet West	th of 39	ounty: WETZ Deg. 30Min Deg. 40 Min	. O Sec	• .
Company: PENNZOIL PRODUCTS COMPANY P. O. BOX 5519	Casing	 Used in	 T.eft	 Cement
VIENNA, WV 26105-5519	&	Drilling	j	Fill Up
Agent: JAMES A. CREWS	 Size	 		
Inspector: RANDAL MICK Permit Issued: 10/05/92 Well work Commenced: 10/22/92		 		
Well work Completed: 12/14/92 Ø Verbal Plugging Permission granted on:	8 5/8 	 659.75 		To Surface 170 Sks.
Rotary X Cable Rig Total Depth (feet) 3600' Fresh water depths (ft) N/A	4 1/2	 3561.1	3561.1	 300 Sks.
Salt water depths (ft) N/A		 		
Is coal being mined in area (Y/N)? N Coal Depths (ft): N/A			 	
OPEN FLOW DATA (Water Injection Wel	1)			
Producing formation Gordon Gas: Initial open flow MCF/ Final open flow MCF/ Time of open flow between in Static rock Pressure psice	d Oil: În d Fi nitial and	nitial open inal open f] d final test	flow low	Hours
Second producing formation Gas: Initial open flow MCF/ Final open flow mcF/ Time of open flow between in	d Oil: Ir d Fi	Pay zone on the pay zone of th	depth (ft flow	Hours Bbl/d Bbl/d Hours
Static rock Pressurepsignorm. NOTE: ON BACK OF THIS FORM PUT THE	FOLLOWING	G: 1). DETA	AILS OF PI	Hours
LOG WHICH IS A SYSTEMATIC DETAILED INCLUDING COAL ENCOUNTERED BY THE WELL	PHYSICA GEOLOGICA BORE.	AL CHANGE, AL RECORD (ETC. 2).	THE WELL
For: PENNZOIL	PRODUCTS mothy P. Ro		* () * ()	
	pervisor -	Surveying/Map	ping	
RYLUI UCU				

TREATMENT

PERFORATED:

3466' - 3474' Gordon w/ 16 Holes

Treated w/300 Gal. Reg. H.F. Acid, 282 Bbls. Gelled Water,

1500# 80/100 & 3500# 20/40 Sand.

WELL LOG

(Measured Depths Directionally Drilled)

(Unable to Log Open Hole. Gamma Ray Caliper Only)

Shale 3100 - 3230Sand 3230 - 3238 3238 - 3244 Shale Sand 3244 - 3248Shale 3248 - 3442Gordon 3442 - 3503

T.D. 3600**'**

067-619

$\mathsf{WVGES} \ \mathsf{O\&G} \ \mathsf{Record} \ \mathsf{Reporting} \ \mathsf{System} \\ \mathbf{4710301516}$



Select County: (103) Wetzel Select datatypes: \Box (Check All) Production Plugging Location Enter Permit #: 1516 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

<u>Jsage Notes</u> Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 103 Permit = 1516 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:39:30 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX, DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4710301516 | Wetzel | 1516 | Green | Center Point | Centerpoint | 39.47891 | -80.680336 | 527492.8 | 4369972.7

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER WE	LL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD PROP_TRGT_FM TFM
4710301516	12/14/1992	Dytd Oranl Loc	Completed	State of WV		L-15	CC Pennick	67696-00	Pennzoil Products Co et a	Pennzoil Products Company	Gordon

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FI	M DEEPEST	_FMT INI	TIAL_CLASS	FINAL_CLASS	S TYPE	RIG	CMP_MTHD	TVD TMD	NEW_FTG KOD	G_BEF G_AF
4710301516	12/14/1992	11/8/1992	1386	Ground Level	Jksnbg-Strngtwn	Hampshire Gr	rp Gordon	Se	rvice Well	Unsuccessful	Water Injection	Rotary	Fractured	3520	3520	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
4710301516	12/14/1992	Water Flood	Injection	Deviated	3388	Gordon	3396	Gordon	0	0				
4710301516	12/14/1992	Water Flood	Injection	Deviated	3408	Gordon	3412	Gordon	0	0				

Production Gas Information: (Volumes in Mcf) * 2023 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
4710301516	Pennzoil Products Company	1994	_ 0	0	0	0	0	0	0	0	0	0	0	0	0
4710301516	Pennzoil Products Company	1995	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 *2023 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	ост	NOV	DCM
471	0301516	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
471	0301516	Pennzoil Products Company	1995	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
4710301516	Dvtd Orgnl Loc	Gordon	Well Record	3365	Reasonable	65	Reasonable	1386	Ground Level

- Wireline (E-Log) Information:
 * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

	RECEIVED
	Office of Oil & Gas
	MAR 2 4 93
- 11	name Bivision VA.

State of West Virginia Division of Environmental Protection 4710301516 Section of Oil and Gas

Well Operator's Report of Well Work

Far

PUBLIC LAND CORP.

Operator Well No.: C.C.PENNICK-L15

LOCATION: Elevation: 1386.00

Quadrangle: CENTER POINT

District:

12/14/92

Rig

Latitude:

GREEN County: WETZEL
7700 Feet South of 39 Deg. 30Min. 0 Sec.
3900 Feet West of 80 Deg. 40 Min. 0 Sec.

Longitude

Company: PENNZOIL PRODUCTS COMPANY P. O. BOX 5519

VIENNA, WV 26105-5519

Agent: JAMES A. CREWS

Inspector: RANDAL MICK

Permit Issued: 10/05/92 Well work Commenced: 11/8/92 Well work Completed:

Verbal Plugging

Permission granted on:

Rotary X Cable
Total Depth (feet)
Fresh water depths (ft)

3520' N/A

Salt water depths (ft)

Is coal being mined in area (Y/N)? Coal Depths (ft): N/A

	Used in	Left in Well	Cement Fill Up Cu. Ft.
Size	 	 	
8 5/8	661.20'	661.20	To Surface
4 1/2	3506.38	3506.38	300 Sks.
 		<u>-</u>	<u>-</u>

OPEN FLOW DATA

(Water Injection Well)

Producing formation	Gordon	Pay zone depth	(ft) 3365' - 343
Gas: Initial open flow	MCF/d Oi	: Initial open flow	Bh1 /d
Final open flow	MCF/d	Final open flow	Bbl/d
Time of open flow	between initial	l and final tests	Hours
Static rock Pressure	psig (su	face pressure) after	Hours
Second producing format	ion	Pay zone depth	(ft)
Gas: Initial open flow	MCF/d Oil	: Initial open flow	Bb1/d
Final open flow	MCF/d	Final open flow	Ph1/d
Time of open flow	between initial	lacksquare and final tests	Hours
Static rock Pressure	psig (sur	face 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 FRODUCTS COMPANY

Timothy P. Roush

By: Supervisor - Surveying/Mapping

Date: 3-3-93

Recorded. Deweiver

TREATMENT

PERFORATED:

Gordon w/ 8 Holes

3388' - 3396'

w/ 4 Holes

3408' - 3412'

Treated w/300 Gals. Reg. H.F., 283 Bbl. Gel Water

1500# 80/100 and 3500# 20/40 Sand

WELL LOG

(Measured Depths Directionally Drilled)

Sand &	Shale	0	_	510
Sand		510	_	530
Sand &	Shale	530	_	830
Sand		830	_	845
Sand &	Shale	845	_	1020
Sand		1020	_	1090
Sand &	Shale	1090	_	1340
Sand		1340		1370
Sand &	Shale	1370	-	1510
Shale		1510	_	1795
Sand		1795	_	1985
Sand &	Shale	1985	_	2490
Sand		2490	_	2660
Sand &	Shale	2660	_	2780
Shale		2780	_	3365
Gordon		3365	_	3430
T.D.		3520		







Select County: (103) Wetzel Select datatypes: \Box (Check All) Production Plugging Location Enter Permit #: 1542 ✓ Owner/Completion Stratigraphy ✓ Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

<u>Jsage Notes</u> Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 103 Permit = 1542 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:39:59 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4710301542 | Wetzel | 1542 | Green | Center Point | Centerpoint | 39.48297 | -80.671728 | 528231.4 | 4370426

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_I	NUM CO	O_NUM	LEASE	LEASE_NUM	MINERAL	OWN	OPERATOR_AT_COMPLETION	PROP_VD PROP_TRGT_FM TFM_E
4710301542	10/10/1993	Dvtd Orgnl Loc	Completed	State of WV	L-17		_	Henry Nolan	24422-50	Pennzoil F	Products Co et al	Pennzoil Products Company	Gordon
4710301542	-/-/-	Worked Over	Permitted	State of WV	I -17			Henry Nolan	24422-50	Pennzoil F	Products Co et al.	Pennzoil Products Company	

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FN	1 DEEPEST	_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD '	TVD TMD	NEW_FTG KOD	G_BEF G_
4710301542	10/10/1993	9/8/1993	925	Ground Level	Jksnbg-Strngtwn	Hampshire Gr	Gordon		Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3017	3017	0
4710301542	-/-/-	-/-/-	925	Ground Level					unclassified	unclassified	not available	unknown	unknown			

Pay/Show/Water Information:

-	\PI	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_	QNTY
- 4	710301542	10/10/1993	Water Flood	Injection	Deviated	2920	Gordon	2922	Gordon	0	0				
- 1,	7103015//2	10/10/1003	Water Flood	Injection	Deviated	2025	Gordon	2036	Gordon	Λ	Λ				

Production Gas Information: (Volumes in Mcf) * 2023 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
4710301542	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301542	Pennzoil Products Company	1995	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 *2023 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
4710301542	Pennzoil Products Company	1994	_ 0	0	0	0	0	0	0	0	0	0	0	0	0
4710301542	Pennzoil Products Company	1995	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

Stratigraph	y imormation								
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4710301542	Dvtd Orgnl Loc	Little Lime	Well Record	2030	Reasonable	16	Reasonable	925	Ground Level
4710301542	Dvtd Orgnl Loc	Pencil Cave	Well Record	2046	Reasonable	14	Reasonable	925	Ground Level
4710301542	Dvtd Orgnl Loc	Big Lime	Well Record	2060	Reasonable	70	Reasonable	925	Ground Level
4710301542	Dvtd Orgnl Loc	Big Injun (undiff)	Well Record	2130	Reasonable	178	Reasonable	925	Ground Level
4710301542	Dvtd Orgnl Loc	Gordon Stray	Well Record	2896	Reasonable	6	Reasonable	925	Ground Level
4710301542	Dytd Oranl Loc	Gordon	Well Record	2902	Reasonable	58	Reasonable	925	Ground Level

- Wireline (E-Log) Information:
 * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

API # 47-103-01542 S WE = 35State of West Virginia Division of Environmental Protection Section of Oil and Gas Well Operator's Report of Well Work Operator Well No.: H, NOLAND L-17 Farm name: WVA. PUBLIC LAND CORP. Quadrangle: CENTER POINT Elevation: 925.00 LOCATION: District: GREEN County: WETZEL Latitude: 6100 Feet South of 39 Deg. 30Min. Longitude 2300 Feet West of 80 Deg. 40 Min. County: WETZEL Sec. Company: PENNZOIL PRODUCTS COMPANY | Casing | Used in | Left P. O. BOX 5519 VIENNA, WV 26105-5519 |Fill Up| Tubing | Drilling | in Well | Cu. Ft. | Agent: JAMES A. CREWS Size Inspe tor: RANDAL MICK
Permi' Issued: 05/12/93 Well work Commenced: Well work Completed: 9/8/93 100 Sks 8 5/8 Verba Plugging Permission granted on:
Rotal / X Cable
Total Depth (feet) 3017 2990.77 ¹ 300 Sks. 2990.77 4 1/2 Fresh water depths (ft) Salt water depths (ft) N/A Is coal being mined in area (Y/N)? N Coal Depths (ft):_ OPEN FLOW DATA Pay zone depth (ft) 2896 - 2960 Producing formation Gordon Pay zone depth (ft Sas: Initial open flow * MCF/d Oil: Initial open flow * Final open flow * MCF/d Final open flow * Bb1/d Time of open flow between initial and final tests Final open flow____ ___psig (surface pressure) after Static rock Pressure_ W for Injection Well - Not Tested Second producing formation MCF/d Oil: Initial open flow MCF/d Oil: Initial open flow Second producting

Second producting

MCF/d

Gas: Initial open flow

MCF/d Final open flow ___ Bbl/d Final open flow_ 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, IN INCIUDING COAL ENCOUNTERED BY THE WELLBORE. FOR: PENNZOIL PRODUCTS COMPANY

TREATMENT:

Perforated:

2920 - 2922 } 2925 - 2936 }

2 Holes Per Foot - 26 Holes

Treated:

300 Gal. 15% HKI Acid, 271 Bbl. Gelled Water & 1500# 80/100 Sand & 3500# 20/40 Sand

WELL LOG:

0 - 580 Sand & Shale 0 - 580 580 - 632 632 - 1390 1390 - 1520 1520 - 1705 1705 - 1730 1730 - 1812 Sand Sand & Shale Sand Sand & Shale Saral Shalle 1730 - 1612 1812 - 1852 1852 - 2030 2030 - 2046 2046 - 2060 Sard Shale Little Lime Pencil Cave 2060 - 2130 Big Lime 2.30 - 2308 2308 - 2896 2896 - 2902 2902 - 2960 Big Injun Shale Stray Cordon

T.D.

3017



Select datatypes: \Box (Check All) Select County: (103) Wetzel Production Location Plugging Enter Permit #: 1543 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

Usage Notes Contact Information <u>Disclaimer</u> WVGES Main

WV Geological & Economic Survey:

Well: County = 103 Permit = 1543 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:40:29 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX, DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4710301543 | Wetzel | 1543 | Green | Center Point | Centerpoint | 39.47862 | -80.673225 | 528104.4 | 4369942.7

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_ES
4710301543	10/1/1993	Original Loc	Completed	State of WV	M-15			C C Pennick	15688-50	Pennzoil Products Co et	t al Pennzoil Products Company
4710301543	_1_1_	Worked Over	Cancelled	W.V. Public Land Corp.		M-1	5	C C Dannick	15688-50	East Resources et al	Fact Recourses 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_AF
4710301543	10/1/1993	8/9/1993	1249	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3264	3264	0
4710301543	-/-/-	-/-/-	1249	Ground Level											

Pay/Show/Water Information:

DEPTH_BOT FM_BOT G_BEF G_AFT O_BEF O_AFT WATER_QNTY 3143 Gordon Stray 3165 Gordon

Production Gas Information: (Volumes in Mcf) * 2023 data for H6A wells only. Other wells are incomplete at this

API PRODUCING_OPERATOR PRD_YEAR ANN_GAS JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DCM Other wells are incomplete at this time. API PRODUCING_OPERATOR
4710301543 Pennzoil Products Company
4710301543 Pennzoil Products Company 1994 Ω Ω 0 0 0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2023 data for H6A wells only. Other wells are incomplete at this time. JUN JUL AUG SEP OCT NOV DCM
0 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

1995

There is no Production Water data for this well

Stratigraphy Information:

Stratigraph	y iiiiOiiiiau	JII.							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4710301543	Original Loc	Little Lime	Well Record	2280	Reasonable	15	Reasonable		Ground Level
4710301543	Original Loc	Pencil Cave	Well Record	2295	Reasonable	36	Reasonable	1249	Ground Level
4710301543	Original Loc	Big Lime	Well Record	2331	Reasonable	43	Reasonable	1249	Ground Level
4710301543	Original Loc	Big Injun (undiff)	Well Record	2374	Reasonable	176	Reasonable	1249	Ground Level
4710301543	Original Loc	Gordon Stray	Well Record	3144	Reasonable	10	Reasonable	1249	Ground Level
4710201542	Original Loc	Cordon	Mall Booord	215/	Pagagapabla	22	Doggopoblo	1240	Cround Lovel

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

State of West Virginia Div_sion of Environmental Protection 4710301543 Section of Oil and Gas

Well Operator's Report of Well Work

District: GREEN County: WETZEL Latitude: 7700 Feet South of 39 Deg. 30Min. Sec. Longitude 1900 Feet West of 80 Deg. 40 Min. Sec. Company: PENNZOIL PRODUCTS COMPANY P. O. BOX 5519 VIENNA, WV 26105-5519 Casing Used in Left Cement Fill Upgent: JAMES A. CREWS Tubing Drilling in Well Cu. Ft. Size Tubing Drilling in Well Cu. Ft. Size Size Size Size Size Size Size Size	Farm name:	WVA. PUBLIC LAND CORP.	Operator	Well No.:	C.C.PENNI	CK M15
Latitude: 7700 Feet South of 39 Deg. 30Min. Sec. Longitude 1900 Feet West of 80 Deg. 40 Min. Sec. Ompany: PENNZOIL PRODUCTS COMPANY F. O. BOX 5519 VIENNA, WV 26105-5519 Gent: JAMES A. CREWS Inspector: RANDAL MICK ermit Issued: 05/12/93 ell work Commenced: 8/9/93 ell work Commenced: 8/9/93 ell work Completed: 10/1/93 ermission granted on: 05/12/93 ell work completed: 10/1/93 ermission granted on: 05/12/93 alt water depths (ft) N/A alt water depths (ft) N/A alt water depths (ft) N/A Foal Depth (feet) 3264 Time of open flow * MCF/d Oil: Initial open flow * Bbl/d Final open flow with CF/d Final open flow between initial and final tests Hours Static rock Pressure psig (surface pressure) after Hours Static rock Pressure psig (surface pressure) after Hours Static rock Pressure psig (surface pressure) after Hours Static rock Pressure psig (surface pressure) after Hours Static rock Pressure psig (surface pressure) after Hours Static rock Pressure psig (surface pressure) after Hours Static rock Pressure psig (surface pressure) after Hours Static rock Pressure psig (surface pressure) after Hours Static rock Pressure psig (surface pressure) after Hours Static rock Pressure psig (surface pressure) after Hours Static rock Pressure psig (surface pressure) after Hours Static rock Pressure psig (surface pressure) after Hours Static rock Pressure psig (surface pressure) after Hours Static rock Pressure psig (surface pressure) after Hours Static rock Pressure psig (surface pressure) after Hours Static rock Pressure Psig (surface pressure) after Hours Static rock Pressure Psig (surface pressure) after Hours Static rock Pressure Psig (surface pressure) after Hours Static rock Pressure Psig (surface pressure) after Hours Static rock Pressure Psig (surface pressure) after Hours Static rock Pressure Psig (surface pressure) after Hours Static rock Pressure Psig (surface pressure) after Hours Static rock Pressure Psig (surface pressure) after Hours Static rock Pressure Psig (surface pressure) after Hours Static rock Psig Psig Psig						•
P. O. BOX 5519 VIENNA, WV 26105-5519 Gent: JAMES A. CREWS Inspector: RANDAL MICK ermit Issued: 105/12/93 ell work Commenced: 106/193 erbal Plugging ermission granted on: 107/193 erbal Plugging ermission granted on: 108/193 ermission granted on:		Latitude: 7700 Feet So	uth of 39	Deg 30Min	900	
VIENNA, WV 26105-5519 gent: JAMES A. CREWS Inspector: RANDAL MICK ermit Issued: 05/12/93 ell work Commenced: 8/9/93 ell work Completed: 10/1/93 ermission granted on: 05/12/93 etalision	ompany: PEN	NZOIL PRODUCTS COMPANY				
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Aspector: RANDAL MICK permit Issued: 05/12/93 8/9/93 11 work Commenced: 8/9/93 12 work Completed: 10/1/93 10	gent: JAM	ES A. CREWS		Driffind	in Well	Cu. Ft.
ermit Issued: 05/12/93 ell work Commenced: 8/9/93 ell work Commenced: 8/9/93 erbal Plugging erba	nspector:	RANDAL MICK	Size			
State Plugging State Plugging State Plugging State Plugging State Plugging State Plugging State Plugging State Plugging State Plugging State Plugging State Plugging State State State State State Plugging State State Plugging State Plugging State Plugging State Plugging State Plugging State Plugging State Plugging State Plugging State Plugging State Plugging State Plugging State Plugging State Plugging State Plugging State Plugging State Plugging State Plugging State Plugging Plugging State Plugging Pluggin	ermit Issue ell work Co	ed: 05/12/93 ommenced: 8/0/03				
Alt water depths (ft) N/A Coal being mined in area (Y/N)? N Coal being mined in area (Y/N)? N	אווט ובחזב	~1 n ~	8 5/8	526	526	170 Sks.
Producing formation Gordon Pay zone depth (ft) 3144 - 3 Producing formation Gordon Pay zone depth (ft) 3144 - 3 Producing formation Gordon Pay zone depth (ft) 3144 - 3 Final open flow MCF/d Oil: Initial open flow Bbl/d Final open flow Bbl/d Final open flow Hours Static rock Pressure Paig (surface pressure) after Hours * Water Injection Well - Not Tested 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 Final open flow Final open flow Final open flow Final open fl	otal Depth resh water	(feet) 3264 depths (ft) N/A	4 1/2	3221.70	3221.70	300 Sks.
Producing formation Gordon Pay zone depth (ft) 3144 - 3 Gas: Initial open flow * MCF/d Oil: Initial open flow * Bbl/d Final open flow w 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 - Not Tested 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 TE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED TERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL GWHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS CLUDING COAL ENCOUNTERED BY THE WELLBORE.	alt water o	depths (ft) N/A				
Producing formation Gordon Pay zone depth (ft) 3144 - 3 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 - Not Tested 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 Static rock Pressure psig (surface pressure) after Hours Static rock Pressure psig (surface pressure) after Hours TE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED TERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL GWICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS CLUDING COAL ENCOUNTERED BY THE WELLBORE.	coal being	ng mined in area (Y/N)? N (ft):				
Producing formation Gordon Pay zone depth (ft) 3144 - 3 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 - Not Tested 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 Static rock Pressure psig (surface pressure) after Hours Static rock Pressure psig (surface pressure) after Hours Green Hours Static rock Pressure Psig (surface pressure) after Hours Green Hours H						
Static rock Pressure psig (surface pressure) after Hours * Water Injection Well - Not Tested 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 OTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED FREWALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL OF WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS FOR: PENNZOIL PRODUCTS COMPANY						
Static rock Pressure psig (surface pressure) after Hours * Water Injection Well - Not Tested 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 TE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED TERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL GWHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS CLUDING COAL ENCOUNTERED BY THE WELLBORE.	Produci Gas: In	ing formation Gordon		Pay zone	depth (ft)	3144 - 31
Static rock Pressurepsig (surface pressure) afterHours # Water Injection Well - Not Tested Second producing formationPay zone depth (ft)	Fj	inal open flow * MCF	/d 011: 11	nitial open inal open fi	flow *	Bb1/d
* Water Injection Well - Not Tested 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 TE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED TERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL GWHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS CLUDING COAL ENCOUNTERED BY THE WELLBORE.	Ti Static	ime of open flow between i	nitial and	d final test	:s	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 TE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED TERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL G WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS CLUDING COAL ENCOUNTERED BY THE WELLBORE.	* Water In	jection Well - Not Tested	g (surface	e pressure)	after	Hours
Final open flow MCF/d oil: Initial open flow Bbl/d Time of open flow between initial and final tests Hours Static rock Pressure psig (surface pressure) after Hours TE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED TERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL GWHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS CLUDING COAL ENCOUNTERED BY THE WELLBORE.	Second	producing formation	and the second s	Pay zone d	lepth (ft)	
Time of open flow between initial and final tests Hours Static rock Pressure psig (surface pressure) after Hours TE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED TERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL GWHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS CLUDING COAL ENCOUNTERED BY THE WELLBORE.	Gas: In		/d Oil: Ir	nitial open	flow	Bb1/d
TE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED TERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL GWICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS CLUDING COAL ENCOUNTERED BY THE WELLBORE.	Ti	me of open flow between	/d Fi	inal open fl	low	Bb1/d
TE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED TERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL GWHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS CLUDING COAL ENCOUNTERED BY THE WELLBORE.	Static	rock Pressure psi	g (surface	l linai test	s_	
G WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS CLUDING COAL ENCOUNTERED BY THE WELLBORE. For: PENNZOIL PRODUCTS COMPANY			, , , , , , , , , , , , , , , , , , , ,	- Propertel	AT CE !	Hours
FOR: PENNZOIL PRODUCTS COMPANY	G WHICH I	S A SYSTEMATIC DETAILED	GEOLOGICA		ETC. 2). F ALL FOR	THE WELL
By:					The state of the s	COIL COIL
Date: 12/6/93 NOV Department		For: PENNZOI	PRODUCTS	COMPANY	Office of the of	3 8 5003
12/6/93 12/6/93			molly H	(will	1 160	Went of
		Date:		12/6/93		NA Debarra Prote

TREATMENT:

Perforated:

3143 - 3165 2 Holes Per Foot - 44 Holes

Treated:

300 Gal. 15% HCI, Acid, 296 Bbl. Gelled Water &

1500# 80/100 Sand & 3400# 20/40 Sand

WELL LOG:

T.D.

Sand & Shale	0 - 634
Sand	634 - 646
Sand & Shale	646 - 786
Sand	786 - 808
Sand & Shale	808 - 902
Sand	902 - 950
Sand & Shale	950 - 1063
Sand	1063 - 1072
Shale	1072 - 1170
Sand	1170 - 1200
Sand & Shale	1200 - 1420
Sand	1420 - 1434
Sand & Shale	1434 - 1586
Sand	1586 - 1600
Sand & Shale	1600 - 2280
Little Lime	2280 - 2295
Pencil Cave	2295 - 2231
Big Lime	2231 - 2374
Big Injun	2374 - 2550
Shale	2550 - 3144
Stray	3144 - 3154
Gordon	3154 - 3176

3264

$\mathsf{WVGES}\ \mathsf{O\&G}\ \mathsf{Record}\ \mathsf{Reporting}\ \mathsf{System}\ \boldsymbol{4710301544}$



Select County: (103) Wetzel Select datatypes: \Box (Check All) Production Plugging Location Enter Permit #: 1544 ✓ Owner/Completion Stratigraphy ✓ Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

<u>Jsage Notes</u> Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 103 Permit = 1544 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:40:56 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4710301544 | Wetzel | 1544 | Green | Center Point | Centerpoint | 39.482966 | -80.673303 | 528096 | 4370425 |

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL	NUM CO_NU	JM LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD PROP_TRGT_FM TFM_EST_F
4710301544	10/16/1993	Original Loc	Completed	State of West Virginia	M-17		Henry Nolan	24422-50	Pennzoil Products Co	Pennzoil Products Company	
4710301544	_/_/_	Worked Over	Cancelled	State of West Virginia	M-17		Henry Nolan	24422-50	H.G. Fenray I.I.C. et al.	HG Energy LLC	3050 Gordon

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST	_FMT	INITIAL_CLASS	FINAL_CLAS	S TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG KOD	G_BEF G	3_A
4710301544	10/16/1993	9/14/1993	1000	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon		Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3050		3050	0	
4710301544	-/-/-	-/-/-	1000	Ground Level							Inj/InSitu Comb							

Pay/Show/Water Information:

ΑF	Pl	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_C	NTY
47	10301544	10/16/1993	Horizon	Injection	Vertical	2893	Gordon	2896	Gordon	0	0				
147	10301544	10/16/1003	Horizon	Injection	Vertical	2000	Cordon	2010	Gordon	Λ	Λ				

Production Gas Information: (Volumes in Mcf) * 2023 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
4710301544	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301544	Pennzoil Products Company	1995	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 *2023 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
4710301544	Pennzoil Products Company	1994	_ 0	0	0	0	0	0	0	0	0	0	0	0	0
4710301544	Pennzoil Products Company	1995	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:

Citatigraphy information:											
	API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM	
	4710301544	Original Loc	Little Lime	Well Record	2030	Reasonable	14	Reasonable	1000	Ground Level	
	4710301544	Original Loc	Pencil Cave	Well Record	2044	Reasonable	9	Reasonable	1000	Ground Level	
	4710301544	Original Loc	Big Lime	Well Record	2053	Reasonable	67	Reasonable	1000	Ground Level	
	4710301544	Original Loc	Big Injun (undiff)	Well Record	2150	Reasonable	150	Reasonable	1000	Ground Level	
	4710301544	Original Loc	Gordon Stray	Well Record	2868	Reasonable	5	Reasonable	1000	Ground Level	
	4710301544	Original Loc	Gordon	Well Record	2873	Reasonable	57	Reasonable	1000	Ground Level	

- Wireline (E-Log) Information:
 * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

State of West Virginia Divion of Environmental Protection Section of Oil and Gas

4710301544

Well Operator's Report of Well Work

· · · · · · · · · · · · · · · · · · ·	WVA. PUBLIC LAND	CORP.	Operator	Well No .	U NOTAGE	
LOCATION:	Elevation: 1,000	.00 Quad	rangle: C	ENTER POINT	n. NOLAND	M-17
	District: GREEN Latitude: 6250 Longitude 1900		C	ounty: WETZ	EL	:
Company: PENI	NZOIL PRODUCTS CO	MTIBATT			sec	•
F. (J. BOX 5519		 Casin			
VIE	NNA, WV 26105-55	19	casing &	Used in	Left	Cement
Agent: JAM	ES A. CREWS		Tubing	Drilling	in Well	Fill Up Cu. Ft.
Inspector: F	RANDAI. MICK		Size			
Lermin Issue	ed: 0E/15	/0.2				
MOTT MOTE CO	ommenced. Alak	, 3.3 , 3.3		j	·	
MeTT MOLK Co	mpleted.	93				
verbal pluca			0.570			· i
Rotary v	ranted on:		8 5/8	256	256	100 Sks.
Total Depth	Cable Rig (feet) 3050		1	1	.1.1	
rresh water	depths (ft) N/A		4 1/2	2979.00	ļ.	300 Sks.
	epths (ft) N/A				au ¹	
Is coal bein	g mined in area (VXNID			· · · ·	
Coal Depths	(ft):	1/N), N	!	1	.1	
				· .		
OPEN FLOW DA	TA	•	;			
Produci	na 6			• •		
Gas: In	ng formation	Gordon		Pay zone de	enth (f+)	2868 - 202
Fir	itial open flow	MCF/	d Oil: In	_ray zone de itial open : nal open fl	flow *	Bb1/d
T11	Re Of Open floor	- 1			JW n	Bbl/d
Static A	nal open flow ne of open flow b	etween in	itial and	final tests	s_ 	Hours
* Water Inia	Ottoor Wall		(Surface	pressure) a	fter	Hours
		011		Date mana a		
Oub. IIII	· riai oben//imom	MCF/c	d Oil: Ini	Pay zone de tial open f	pth (ft)	
יווי איניין איניין	al open flow		- Fir	lal open fla	. TOM	Bbl/d
Station	ne of open flow be ock Pressure	etween in	itial and	final tests	·	Bbl/d Hours
Old lein	na lio.	psig	(surface	pressure) a	fter	Hours
-10,	Milolina Solito					
NOTE: ON BACK	Ock Pressure	OUT THE B	OLLOWING.	1\ 5555	LSABEFILE	D
LOG WHICH TO	ACTURING WOR STIN A SYSTEMATIC DE	MULATING,	PHYSICAL			
INCLUDING COA	A SYSTEMATIC DE L ENCOUNTERED BY	ETALLED C	EOLOGICAL	RECORD 6	TC ON DIE	HE WELL
- COA	L ENCOUNTERED BY	THE WELLE	ORE.	33	THE SERVER	(A) (A)
	For:	PENNZOTZ	PRODUCTS	Off	WAY Depart	ment of
	• • • •			COMPANY	MA DeBat	imerion Il Protection
		By: Lu	will H	(V -	~ 1161 11 11 1 1 1	- # 6AI
		Date:	(m-1)	12/6/93	nvironmente	Algin Allon
	·			/0/93	Micouuseurs, Mi Dsberg Minou	SOUR CLOS
•				Fr	Michigan	

TREATMENT:

Perforated: 2893 - 2896 6 Holes

2900 - 2910 20 Holes

Treated: 300 Gal. 15% HCL Acid, 281 Bbl. Gelled Water &

1900# 80/100 Sand & 3700# 20/40 Sand

WELL LOG:

Sand & Shale	0 - 535
Sand	535 - 562
Shale	562 - 650
Sand	650 - 700
Sand & Shale	700 - 1130
Sand	1130 - 1240
Sand & Shale	1240 - 1430
Sand	1430 - 1460
Shale	1460 - 1500
Sand	1500 - 1540
Sand & Shale	1540 - 2030
Little Lime	2030 - 2044
Pencil Cave	2044 - 2053
Big Lime	2053 - 2120
Shale	2120 - 2150
Big Injun	2150 - 2300
Shale	2300 - 2868
Stray	2868 - 2873
Gordon	2868 - 2873 2873 - 2930

T.D. 3050

Received

SEP 7 3 2013

Office of Oil and Game Protection

Wy Dept. of Environmental Protection



Select County: (103) Wetzel Select datatypes: (Check All) Location Production Plugging Enter Permit #: 1545 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Logs ✓ Pay/Show/Water ✓ Btm Hole Loc

Usage Notes Contact Information Disclaimer

WV Geological & Economic Survey:

Well: County = 103 Permit = 1545 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:41:19 AM

Location Information: View Map

| API | COUNTY PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4710301545 | Wetzel | 1545 | Green | Center Point | Centerpoint | 39.483115 | -80.681834 | 527362.3 | 4370438.9 |

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE (4710301545 10/16/1993 Original Loc Completed State of WV STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLET
C Completed State of WV J-17 J J Reilly 57098-00 Pennzoil Products Co et al Pennzoil Products Company OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_P

Completion Information:

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
 DEEPEST_FM
 DEEPES

 4710301545
 10/16/1993
 9/30/1993
 927
 Ground Level
 Jksnbg-Strngtwn
 Hampshire Grp
 Gordon
 DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AI Unsuccessful Water Injection Rotary Acid+Frac Service Well 2962 2962

Pay/Show/Water Information:

API CMP_DT ACTIVITY PRODUCT SECTION DEPTH_TOP FM_TOP DEPTH_BOT G_BEF G_AFT O_BEF O_AFT WATER_QNTY 4710301545 10/16/1993 Horizon Injection Vertical 2821 Gordon 2825 Gordon 0 0

4710301545 Pennzoil Products Company 1995

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:

Changraph	y mnomia.	JII.							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4710301545	Original Loc	Little Lime	Well Record	1948	Reasonable	12	Reasonable	927	Ground Level
4710301545	Original Loc	Pencil Cave	Well Record	1960	Reasonable	28	Reasonable	927	Ground Level
4710301545	Original Loc	Big Lime	Well Record	1988	Reasonable	14	Reasonable	927	Ground Level
4710301545	Original Loc	Big Injun (undiff)	Well Record	2044	Reasonable	138	Reasonable	927	Ground Level
4710301545	Original Loc	Gordon Stray	Well Record	2796	Reasonable	24	Reasonable	927	Ground Level
4710301545	Original Loc	Gordon	Well Record	2820	Reasonable	10	Reasonable	927	Ground Level

Wireline (E-Log) Information:

There is no Plugging data for this well

^{*} There is no Scanned/Raster Log data for this well

^{*} There is no Digitized/LAS Log data for this well

^{*} There is no Scanned or Digital Logs available for download

State of West Virginia Division of Environmental Protection 4710301545

Well Operator's Report of Well Work

DEC 0 7 05

Farm name: WVA PUBLIC LANDS CO

Operator Well No.: J.T.REILLY J-17

LOCATION:

Elevation: 927

Quadrangle: CENTER POINT

District: GREEN

County: WETZEL
Feet South of 39 Deg. 30Min. 00 Sec.
Feet West of 80 Deg. 40 Min. 00 Sec. Latitude: 6100 Longitude 4550

Company: PENNZOIL PRODUCTS COMPANY

P. O. BOX 5519

VIENNA, WV 26105-5519

Agent: JAMES A. CREWS

Inspector: RANDAL MICK

Permit Issued: 05/12/93 Well work Commenced: Well work Completed: 9/30/93 10/16/93 Verbal Plugging Permission granted on: Rotary X Cable Rig

Rotary X Cable Total Depth (feet) 2962 Fresh water depths (ft) N/A

Salt water depths (ft) N/AIs coal being mined in area (Y/N)? N

Coal Depths (ft):_

Casing	Used in	Left	Cement
Tubing	Drilling	 in Well	Fill Up Cu. Ft.
Size		 	 !
8 5/8	216	216 	125 Sks.
4 1/2	2855.00	2855.00	300 Sks.
	 إ	 	
) 	 	

OPEN FLOW DATA

2820 - 2830

	Producing family				2020	2030
	Producing formation	Gordon	Pay zone depth	1 = 1		
	Gas: Initial open flow	* MCE/d	Oil tay zone depth	(TC)		
	Gas: Initial open flow	MCF/d	Oll: Initial open flow	*	Bb	1/d
	r rugr Obell ITOM	* M(`F'/d	Final area 61			
	Time of open flow	between init	ial and final tests	*		l/d
	Static rock Pressure	zeeween inte	rar and rinar tests		Ho	urs
		psig (:	surface pressure) after			urs
V	Vater Injection Well Second producing format		1 22001			urs
	Second producing format	ion	_			
	Cage Initial	1011	Pay zone depth ((ft)		
	Gas: Initial open flow	MCF/d (Dil. Initial amam ci	· / -	Dh	7 /3
	Final open flow	MCF/d	Final open flow			1/d
	Time of open flow	her/u	rinal open flow		Bb.	l/d
	TIME OF OPEN TIOM	perween init:	ial and final tests			urs
	Static rock Pressure	psia (s	surface pressure) after			
			arrace pressure; after		Hot	urs

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:	PENNZOJI PRODU	CTS COMPANY	
	By: Lingely	OL I	
	Date: t	12/6/93	

TREATMENT:

Perforated: 2821 - 2825 8 Holes

Treated: 300 Gal. 15% HCL Acid, 258 Bbls. Gelled Water & 1600#

80/100 Sand & 4100# 20/40 Sand

WELL LOG:

Sand & Shale Sand Shale Sand	0 - 522 522 - 546 546 - 562 562 - 628
Sand & Shale	628 - 742
Sand	742 - 756
Shale	756 - 818
Sand	818 - 836
Shale	836 - 876
Sand	876 - 892
Sand & Shale	892 - 1264
Sand	1264 - 1322
Shale	1322 - 1348
Sand	1348 - 1408
Shale	1408 - 1436
Sand	1436 - 1466
Sand & Shale	1466 - 1762
Sand	1762 - 1800
Sand & Shale	1800 - 1948
Little Lime	1948 - 1960
Pencil Cave	1960 - 1988
Big Lime	1988 - 2002
Shale	2002 - 2044
Big Injun	2044 - 2182
Sand & Shale	2182 - 2796
Stray	2796 - 2820
Gordon	2820 - 2830
T.D.	2962

DF-419

$\mathsf{WVGES} \, \mathsf{O\&G} \, \mathsf{Record} \, \mathsf{Reporting} \, \mathsf{System} \, \boldsymbol{4710301625}$



Select County: (103) Wetzel Select datatypes: (Check All) Production Plugging Location Enter Permit #: 1625 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Logs ✓ Pay/Show/Water ✓ Btm Hole Loc

Usage Notes Contact Information <u>Disclaimer</u> WVGES Main

WV Geological & Economic Survey:

Well: County = 103 Permit = 1625 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:41:45 AM

Location Information: View Map

API COUNTY PERM 4710301625 Wetzel 1625

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE
4710301625 9/16/1994 Original Loc Completed State of WV P-12 EB Lem LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLET
47254-00 Pennzoil Products Co et al Pennzoil Products Company OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST EB Lemasters

Completion Information:

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
 DEEPEST_FM
 DEEPEST_FM
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 DEEPEST_F DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AF Unsuccessful Water Injection Rotary Acid+Frac Service Well 3059

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

Stratigraphy miormation.										
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM	
4710301625	Original Loc	Big Lime	Well Record	2090	Reasonable	12	Reasonable	1040	Ground Level	
4710301625	Original Loc	Big Injun (Price&eq)	Well Record	2213	Reasonable	137	Reasonable	1040	Ground Level	
4710301625	Original Loc	Gordon Stray	Well Record	2922	Reasonable	2	Reasonable	1040	Ground Level	
4710301625	Original Loc	Gordon	Well Record	2938	Reasonable	30	Reasonable	1040	Ground Level	

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

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

Well Operator's Report of Well Work

Farm name: WVA.	PUBLIC LANDS	Op	erator	Well No.: H	E.LEMASTE	RS P12
LOCATION: Elev	ation: 1,040.00	Quadran	igle: C	ENTER POINT		
Lati	rict: GREEN tude: 10600 Feet itude 11100 Feet	South West	of 39	ounty: WETZI Deg. 30Min Deg. 37 Mir	Sec.	
P. O. BO VIENNA, Agent: JAMES A.	WV 26105-5519 CREWS	C 1 	&	Used in		To
Inspector: RANDA Permit Issued: Well work Commen Well work Comple Verbal Plugging Permission grant	05/12/94 07/27/94 ted: 09/16/94	8 	-5/8 	308	308	surface 50 sks.
Rotary X Cabl Total Depth (fee Fresh water dept	e Rig	_ 4	-1/2 	3019.45	 3019.45 	 300 sks.
Salt water depth	s (ft) N/A					
Is coal being mi Coal Depths (ft)	ned in area (Y/N: N/A)? <u>N</u>				
Gas: Initia Final Time of Static rock Second prod Gas: Initia Final Time of Static rock NOTE: ON BACK OF	formation Gordon to pen flow * open flow * of open flow between the control open flow open flow open flow open flow of open flow of open flow between the control open flow of open flow of open flow between the control open flow between the control open flow of open flow between the control open flow betwe	mCF/d mCF/d een init psig mCF/d mCF/d mCF/d een init psig	Oil: I Fial an (surfac Oil: I Fial an (surfac	inal open for d final test e pressure) Pay zone on itial open for d final test e pressure) G: 1). DET	flow * low * ts after depth (ft flow ts after depth after depth series of P	Bbl/d Hours Hours Bbl/d Bbl/d Hours Hours Bbl/d Hours Hours
LOG WHICH IS A	TURING OR STIMUL. SYSTEMATIC DETA ENCOUNTERED BY TH	ILED G	EOLOGIC ORE.			

TREATMENT

Perforated with 24 holes 2946'-2958'. Treated with 300 gallons 15% HCL acid, 270 barrels gelled water and 7000 # 20/40 sand.

WELL LOG

Sand & Shale	0'-1372'					
Sand	1372'-1384'					
Sand & Shale	1384'-1783'					
Sand	1783'-1816'					
Shale	1816'-2090'					
Big Lime	2090'-2102'					
Shale	2102'-2213'					
Big Injun	2213'-2350'					
Shale	2350'-2922'					
Stray	2922'-2924'					
Gordon	2938'-2968'					
T.D. /	3059'.					



Select County: (103) Wetzel Select datatypes: (Check All) ✓ Production Plugging Location Enter Permit #: 1626 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Logs ✓ Pay/Show/Water ✓ Btm Hole Loc

Usage Notes Contact Information <u>Disclaimer</u> WVGES Main

WV Geological & Economic Survey:

Well: County = 103 Permit = 1626 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:42:22 AM

Location Information: View Map

| API | COUNTY PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4710301626 | Wetzel | 1626 | Green | Center Point | Centerpoint | 39.477025 | -80.662618 | 529017.4 | 4369769.1

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE
4710301626 9/16/1994 Original Loc Completed State of WV P-14 Mary Le LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLET
57097-00 Pennzoil Products Co et al Pennzoil Products Company OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_E Mary Lemasters

Completion Information:

 API
 CMP_DT
 SPUD_DT
 ELEV
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 DEEPEST_F DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AF Unsuccessful Water Injection Rotary Acid+Frac Service Well 3089

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:

	statigraphy information										
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM		
4710301626	Original Loc	Little Lime	Well Record	2092	Reasonable	12	Reasonable	1038	Ground Level		
4710301626	Original Loc	Big Lime	Well Record	2120	Reasonable	62	Reasonable	1038	Ground Level		
4710301626	Original Loc	Big Injun (Price&eq)	Well Record	2216	Reasonable	140	Reasonable	1038	Ground Level		
4710301626	Original Loc	Gordon Stray	Well Record	2922	Reasonable	2	Reasonable	1038	Ground Level		
4710301626	Original Loc	Gordon	Well Record	2941	Reasonable	41	Reasonable	1038	Ground Level		

- Wireline (E-Log) Information:
 * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

06-May-94 API # 47-103-01626 S

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

Well Operator's Report of Well Work

Farm name: WVA. PUBLIC LANDS Operator Well No.: M.LEMASTERS-P14 Elevation: 1,038.00 Quadrangle: CENTER POINT LOCATION: District: **GREEN** County: WETZEL 8550 Feet South of 39 10600 Feet West of 80 Latitude: Deg. 30Min. Sec. Deg. 37 Min. 30 Sec. Longitude Company: PENNZOIL PRODUCTS COMPANY P. O. BOX 5519 Casing | Used in Left Cement VIENNA, WV 26105-5519 Fill Up Drilling | in Well|Cu. Ft.| Tubing | Agent: JAMES A. CREWS Size To surface | Inspector: RANDAL MICK 8-5/8 308 308 150 sks. Permit Issued: 05/12/94 Well work Commenced: Well work Completed: 08/16/94 09/16/94 Verbal Plugging Permission granted on: Rotary X Cable Total Depth (feet) 4-1/2 3023 3023 300 sks. 3089 Fresh water depths (ft) N/A Salt water depths (ft) N/A Is coal being mined in area (Y/N)? Coal Depths (ft): N/A OPEN FLOW DATA * Water Injection Well Pay zone depth (ft) 2941-2982

MCF/d Oil: Initial open flow * Bbl/d

MCF/d Final open flow * Bbl/d Producing formation Gordon Gas: Initial open flow * Final open flow * Time of open flow between initial and final tests Hours Static rock Pressure psig (surface pressure) after Hours Second producing formation_ Pay zone depth (ft)_MCF/d Oil: Initial open flow____ Second producing _____MCF/d Ull:
Gas: Initial open flow ____MCF/d ____MCF/d ____MCF/d Bb1/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. PRODUCTS COMPANY For: PENNZOIL

4710301626 °

TREATMENT

Perforated with 20 holes 2956'-2966'. Treated with 300 gallons 15% HCL acid, 273 barrels gelled water & 7000# 20/40 sand.

WELL LOG

Sand & Shale	0'- 968'						
Sand	968'- 988'						
Sand & Shale	988'-1762'						
Sand	1762'-1796'						
Sand & Shale	1796'-2092'						
Little Lime	2092'-2104'						
Shale	2104'-2120						
Big Lime	2120'-2182'						
Shale	2182'-2216'						
Big Injun	2216'-2356'						
Shale	2356'-2922'						
Stray	2922'-2924'						
Gordon	2941'-2982'						
T.D.	3089'						



Select datatypes: \Box (Check All) Select County: (103) Wetzel Production Plugging Location Enter Permit #: 1627 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Pay/Show/Water Logs ✓ Btm Hole Loc

<u>Jsage Notes</u> Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 103 Permit = 1627 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:42:38 AM

Location Information: View Map

| API | COUNTY PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4710301627 | Wetzel | 1627 | Green | Center Point | Centerpoint | 39.484566 | -80.667985 | 528552.6 | 4370604.2

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
4710301627	10/20/1994	Original Loc	Completed	State of West Virginia	a N-17		T W Reilly	57094-00	Pennzoil Products Co et al	Pennzoil Products Company	
4710301627	-/-/-	Worked Over	Cancelled	W V Public Lands	N-17				East Resources	East Resources, Inc.	
4710301627	-/-/-	Worked Over	Cancelled	State of West Virginia	a N-17		T W Reilly		East Resources Inc et al	Pennzoil Products Company	3070 Gordon

Completion Information

Completion	miomia	, i i i i														
API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_F	FMT INIT	AL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD NEW_FTG KO	D G_BEF G_
4710301627	10/20/1994	8/21/1994	991	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Serv	ce Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3070	3070	0
4710301627	-/-/-	-/-/-	991	Ground Level												
4710301627	-/-/-	-/-/-	991	Ground Level				uncl	ssified	unclassified	not available	unknown	unknown			

Pay/Show/Water Information:

API CMP_DT ACTIVITY PRODUCT SECTION DEPTH_TOP FM_TOP DEPTH_BOT G_BEF G_AFT O_BEF O_AFT WATER_QNTY 4710301627 10/20/1994 Horizon Injection Vertical 2906 Gordon 2914 Gordon 0 0

Production Gas Information: (Volumes in Mcf) * 2023 data for H6A wells only.

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:

Stratigraph									
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4710301627	Original Loc	Big Injun (Price&eq)	Well Record	2078	Reasonable	178	Reasonable	991	Ground Level
4710301627	Original Loc	Gordon Stray	Well Record	2870	Reasonable	4	Reasonable	991	Ground Level
4710301627	Original Loc	Gordon	Well Record	2884	Reasonable	49	Reasonable	991	Ground Level

Wireline (E-Log) Information:

There is no Plugging data for this well

^{*} There is no Scanned/Raster Log data for this well

^{*} There is no Digitized/LAS Log data for this well

^{*} There is no Scanned or Digital Logs available for download

State of West Virginia Division of Environmental Protection 4710301627

Well Operator's Report of Well Work

Farm name:	WVA. PUBLI	C LANDS		Operator	Well No.: 5	rom REILL	Y N-17
LOCATION:	Elevation:	991.00)uad r	angle: Ci	ENTER POINT		
	District: Latitude: Longitude	GREEN 5700 Feet 400 Feet	Sout West	h of 39	ounty: WETZI Deg. 30Min Deg. 40 Min	. Sec.	
Ρ.	NZOIL PRODU O. BOX 5519 NNA, WV 26			Casing & Tubing	Used in	j	Cement Fill Up Cu. Ft.
-	Commenced: Completed:	05/12/94 08/21/94 10/20/94	·	Size 8-5/8	 266 	 266 	To surface 50 sks.
Permission Rotary X Total Depth Fresh water	granted on: Cable (feet) depths (ft		 	4-1/2	2993	Tak Miles	300 sks.
	depths (ft)	N/A	_	 	Office	Gas	
	ng mined in (ft):		<u>N</u>		 W De	11 5 2003	
Gas: I F Statio Second Gas: I	cing formaticing formaticinal open from the of open crock Press in producing initial open from of open crock Press crock Press	flow * low * flow betwee ure formation flow low flow betwee	MCF/ MCF/ psic MCF/ MCF/	/d Oil: In /d F nitial and g (surface /d Oil: In /d F nitial and	Pay zone on the pressure of th	depth (ft flow * low * ts after depth (ft flow low ts	Bbl/d Bbl/d Hours Hours
INTERVALS, LOG WHICH	ACK OF THIS FRACTURING IS A SYSTE COAL ENCOUNT	OR STIMULA: MATIC DETAIL	ring, LED	, PHYSIC. GEOLOGIC.	AL CHANGE,	ETC. 2).	THE WELL
		For: PENI	NZOI I	PRODUCT	s COMPANY		

TREATMENT

Perforated with 16 holes 2906'-2914'. Treated with 300 gallons 15% HCL acid, 460 barrels gelled water and 20,000#20/40 sand.

WELL LOG

Sand & Shale	0'- 920'
Sand	920'- 948'
Shale	948'-1012'
Sand	1012'-1028'
Sand & Shale	1028'-1720
Sand	1720'-1786'
Shale	1786'-2078'
Big Injun	2078'-2256'
Shale	2256'-2870'
Stray	2870'-2874'
Gordon	2884'-2933'
T.D.	3070 '



Select County: (103) Wetzel Select datatypes: (Check All) Location Production Plugging Enter Permit #: 1628 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Logs ✓ Pay/Show/Water ✓ Btm Hole Loc

<u>Jsage Notes</u> Contact Information Disclaimer

WV Geological & Economic Survey:

Well: County = 103 Permit = 1628 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:43:31 AM

Location Information: View Map

API COUNTY FERMI 4710301628 Wetzel 1628

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE 4710301628 10/20/1994 Original Loc Completed State of WV STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLET
Completed State of WV P-17-B TW Reilly 57094-00 Pennzoil Products Co et al Pennzoil Products Company OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_P

Completion Information:

 API
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 SPUD_DT
 ELEV
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 DEEPEST_F DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AI Unsuccessful Water Injection Rotary Acid+Frac Service Well 3055

Pay/Show/Water Information:

API CMP_DT ACTIVITY PRODUCT SECTION DEPTH_TOP FM_TOP DEPTH_BOT G_BEF G_AFT O_BEF O_AFT WATER_QNTY 4710301628 10/20/1994 Horizon Injection Vertical 2954 Gordon 2962 Gordon 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:

Stratigraph	y iiiioiiiiau	UII.							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4710301628	Original Loc	Little Lime	Well Record	2073	Reasonable	11	Reasonable	1030	Ground Level
4710301628	Original Loc	Big Lime	Well Record	2116	Reasonable	68	Reasonable	1030	Ground Level
4710301628	Original Loc	Big Injun (Price&eq)	Well Record	2202	Reasonable	132	Reasonable	1030	Ground Level
4710301628	Original Loc	Gordon	Well Record	2910	Reasonable	64	Reasonable	1030	Ground Level

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

06-May-94 API # 47-103-01628 S

4710301628 State of West Virginia Division of Environmental Protection Section of Oil and Gas

Well Operator's Report of Well Work

Farm name:	WVA. PUBLIC	C LANDS	Operator	Well No.: 3	TOM REILL	Y P17B
LOCATION:	Elevation:	1,030.00 Quad	rangle: CI	ENTER POINT		
	District: Latitude: Longitude	GREEN 5500 Feet Sout 10900 Feet West	th of 39	ounty: WETZI Deg. 30Min Deg. 37 Min	. Sec.	•
Company: PEN	NZOIL PRODU	CTS COMPANY -				
	O. BOX 5519 NNA, WV 26	105-5519		Used in Drilling	į ,	Cement Fill Up Cu. Ft.
Agent: JAM	ES A. CREWS					To
Permit Issu Well work C Well work C	ommenced: ompleted:	05/12/94 08/26/94	Size 8-5/8 	 308 	 308 	surface 110 sks.
Verbal Plug			ļ	İ	İ	i į
Rotary X Total Depth	granted on: Cable (feet) depths (ft	Rig 3055	4-1/2	 2996.9	2996.9	 300 sks.
	depths (ft)		<u> </u>			
To coal boi	na minod in	area (Y/N)? N				
	(ft):		 	 	 	
OPEN FLOW D	ATA	* Water Injectio	n Well			
T	'ime of open	on Gordon flow * MCF low * MCF flow between i ure psi	nitial an	d final tes	ts	Hours
				_		
	l producing nitial open	formation MCF	74 O:1: T	_ Pay zone on pen	depth (ft)
	inal open f			inal open f		Bbl/d
		flow between i urepsi	nitial an	d final tes	ts	Hours Hours
INTERVALS, LOG WHICH	FRACTURING IS A SYSTE	FORM PUT THE OR STIMULATING MATIC DETAILED ERED BY THE WEL	, PHYSIC GEOLOGIC	AL CHANGE,	ETC. 2).	THE WELL
		For: PENNZOI	L FRODUCT	SCOMPANY		

TREATMENT

Perforated with 16 holes 2954'-2962'. Treated with 300 gallons 15% HCL acid, 282 barrels gelled water and 7000# of 20/40 sand.

WELL LOG

Sand & Shale 0'- 971' Sand 971'- 985' Sand & Shale 985'-1450' 1450'-1494' Sand & Shale 1494'-1761' Sand 1761'-1808' Sand & Shale 1808'-2073' Little Lime 2073'-2084' 2084'-2116' Shale Big Lime 2116'-2184' Shale 2184'-2202' 2202'-2334' Big Injun Shale 2334'-2910' 2910'-2974' Gordon T.D. 3055**'**



Select datatypes: \Box (Check All) Select County: (103) Wetzel Production Plugging Location Enter Permit #: 1632 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Pay/Show/Water Logs ✓ Btm Hole Loc

Usage Notes Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 103 Permit = 1632 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:43:50 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4710301632 | Wetzel | 1632 | Green | Center Point | Centerpoint | 39.490474 | -80.670744 | 528313 | 4371259 |

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
4710301632	9/23/1994	Original Loc	Completed	State of WV	N-19	G V Reilly	15544-560	Pennzoil Products Co et al	Pennzoil Products Company			
4710301632	6/12/2008	Worked Over	Completed	WV Public Land Corp	N-19	Reilly		East Resources Inc	East Resources, Inc.	3492	Gordon	
4710301632	11/21/2013	Worked Over	Completed	WV Public Lands	N-19	G V Reilly	15634-50	H G Energy LLC et al	HG Energy, LLC	3492	Gordon	
4710301632	-/-/-	Worked Over	Permitted	State of WV	N-19	GV Reilly	15544-260	Pennzoil Products Co	Pennzoil Products Company			
4710301632	-/-/-	Worked Over	Cancelled	W V Public Land Corp	N-19	G V Reilly		East Resources	East Resources, Inc.			

Completion Information

Completion	i iiiioiiiiati	OII.												
API	CMP_DT	SPUD_DT	ELEV DATUM	FIELD	DEEPEST_FM	DEEPEST_FI	MT INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD NEW_FTG KOD	G_BEF G
			1445 Ground Lev				Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3492	3492	0
4710301632	6/12/2008	6/12/2008	1445 Ground Lev	el Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acidized	3492	0	
4710301632	11/21/2013	11/21/2013	1445 Ground Lev	el Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Fractured	3492	0	
4710301632	-/-/-	-/-/-	1445 Ground Lev	el			unclassified	unclassified	not available	unknown	Fractured			
4710301632	-/-/-	-/-/-	1445 Ground Lev	el										

Pay/Show/Water Information:

. a,,														
API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_	QNTY
4710301632	6/12/2008	Water Flood	Injection	Vertical	3326	Gordon	3330	Gordon						
4710301632	6/12/2008	Water Flood	Injection	Vertical	3334	Gordon	3339	Gordon						
4710301632	9/23/1994	Water Flood	Injection	Vertical	3334	Gordon	3345	Gordon	0	0				
4710301632	6/12/2008	Water Flood	Injection	Vertical	3344	Gordon	3350	Gordon						
4710301632	11/21/2013	Water Flood	Injection	Vertical	3352	Gordon	3356	Gordon						
4710301632	6/12/2008	Water Flood	Injection	Vertical	3352	Gordon	3356	Gordon						

API PRODUCING_OPERATOR 4710301632 Pennzoil Products Company

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
4710301632	Original Loc	Gordon Stray	Well Record	3303	Reasonable	3	Reasonable	1445	Ground Level
4710301632	Original Loc	Gordon	Well Record	3316	Reasonable	42	Reasonable	1445	Ground Level

There is no Plugging data for this well

Wireline (E-Log) Information:
* There is no Scanned/Raster Log data for this well

^{*} There is no Digitized/LAS Log data for this well

^{*} There is no Scanned or Digital Logs available for download

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State of West Virginia

Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

Page 1 of 4

_{API 47 -} 103 ₋ 1632	County WETZEL	Dia	trict GREEN	
API <u>47</u> - 103 - 1632 Quad CENTERPOINT 7.5'	Pad Name G.V. RE	ILLY Fie	ld/Pool Name	STRINGTOWN
Farm name WV PUBLIC LANDS	Fau Name	We	ell Number N-	19
Operator (as registered with the OOG)	H.G. ENERGY LLC			
Address 5260 DuPONT ROAD	City_PARK	ERSBURG	State WV	Zip 26101
•	Northing 4,371,259 M		528,313 M	
<u> </u>	Northing Northing			
Elevation (ft) 1,445' GL		New Existing		t □Interim BFinal
Permit Type Deviated H	orizontal 🗆 Horizontal	6A • Vertical	Depth Type	□ Deep ■ Shallow
Type of Operation □ Convert □ I	Deepen 🗆 Drill 🗆 P	lug Back 🛮 🗆 Redrillin	g 🗆 Rework	■ Stimulate
Well Type □ Brine Disposal □ CBM	M □ Gas □ Oil ■ Secon	ndary Recovery 🗆 Solut	ion Mining 🗆 S	Storage Other
Drilled with □ Cable ■ Rotary Drilling Media Surface hole ■ Ai Production hole ■ Air □ Mud Mud Type(s) and Additive(s) N/A		r Intermediate holo	e ■Air □Mu	ud ■ Fresh Water □ Brine
Date permit issued10/25/13	Date drilling comme	enced N/A	Date drillin	g ceased N/A
Date completion activities began		Date completion activit		
Verbal plugging (Y/N) N	Date permission granted		Granted by	
Sait water depth(s) it	None None	Open mine(s) (Y/N) dep	ths	RECEIVED Office of Oil & Gas DNC 2.7 2013 N W Department of ronmental Protection
Is coal being mined in area (Y/N)	N.I.	Caronics, encountered (Unmental Protection
is coal being mined in area (1/N)				Reviewed by:

CASING STRINGS Conductor Surface Coal	Hole Size	Farm na	me_WV PUB	LIC LANDS	3	Wal	I number_N-1	9
Conductor urface		Casing				WEI	i number	
urface		Size	Depth	New or Used	Grade wt/ft	. .	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
								Existing
oai	-	8 5/8"	706'	Existing				LAISTING
					-			
ntermediate 1								
ntermediate 2								
ntermediate 3								Eviating
Production		4 1/2"	3395.9'	Existing	-			Existing
ubing								
acker type and dept	h set							
CEMENT DATA	Class/Type of Cement	Numbe of Sack			rield ³/sks)	Volume (ft ³)	e Ceme Top (N	
Conductor								
Surface	Existing	295						
Coal	<u> </u>							
Intermediate 1	-							
Intermediate 2								
Intermediate 3								
Production	Existing	300						
Tubing								
Drillers TD (ft) Deepest formation Plug back proce	on penetrated	Gordon		Loggers T Plug back				
Kick off depth (ft)							
Check all wireli	ne logs run	□ caliper □ neutron			ed/direction		induction temperature	□sonic
Well cored	Yes ■ No	Convent	ional Side	ewall	We	ere cuttin	gs collected 1	■ Yes □ No
DESCRIBE TH	E CENTRAL	IZER PLACEM	ENT USED FO	OR EACH C	ASING ST	TRING _		
WAS WELL CO	OMPLETED A	AS SHOT HOL	E □Yes ■	No D	ETAILS			
WAS WELL CO	OMPLETED (OPEN HOLE?	□ Yes 💄 🛚	No DET	AILS			

WR-35 Rev. 8/	23/13				Page $\frac{3}{2}$ of $\frac{4}{2}$
API 4	7- 103 - 1632	Farm nar	me_WV PUBLIC	LANDS	Well number N-19
			PERFORATI	ON RECORD	
Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	11/21/13	3352'	3356'	16	Gordon
1	Existing	3326'	3356'	120	Gordon
		<u> </u>			
			-		
			-		
			-		
	<u> </u>				

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	11/21/13	10	2284	1977	1870	20,000	407	
			-					
	-							
****	-							
								-
								-
	-							
		<u> </u>						
	-							
				-				<u> </u>
-				-		-		
			,					

Please insert additional pages as applicable.

WR-35 Rev. 8/23/13	4								Page 7 01
API 47- 103	_ 1632	Farm n	name WV PUB	LIC LAN	1D2		_Well numbe	r_11-19	
PRODUCING F	ORMATION(S	<u>s)</u>	DEPT <u>HS</u>						
Gordon				_TVD	332	6'-3356'	MD		
				_ _			_		
		_ -		_					
Please insert add	ditional pages a	s applicable.							
GAS TEST	□ Build up □	Drawdown	□ Open Flow		OIL	TEST DF	low □ Pum	р	
SHUT-IN PRES	SSURE Surf	ace	_psi Botto	m Hole	. <u></u>	psi	DURATION	OF TEST _	hrs
OPEN FLOW	Gas	Oil	NGL				GAS MEAS		
OI LIVI LO W	mcf	pd1	bpd	bpd		bpd	□ Estimated	□ Orifice	□ Pilot
		DOTTON	TOD	вотто	M.				
LITHOLOGY/ FORMATION	TOP DEPTH IN FT	BOTTOM DEPTH IN FT	TOP DEPTH IN FT	DEPTH IN			ROCK TYPE AN		
	NAME TVD	TVD	MD	MD		TYPE OF FL			OIL, GAS, H ₂ S, ETC
	0	<u> </u>	0				See ong	ginal Well Reco	Ju
				-					
				-	_		<u> </u>		
					-				
	!	<u> </u>	 						
Please insert ac	ditional pages	as applicable.				<u> </u>			
	actor								
							State	Zip	
Logging Comr	oany Appalachia	an Well Surveys							
Address 4973 S	Skyline Drive		City	Cambrid	lge		State OH	Zip <u>43</u>	725
Camanting Co									
							State	Zip	
	ompany Produ								
Address 109 S	outh Graham Stree	et	City	Zanesvi	lle		State OH	Zip <u>43</u>	701
Please insert a	dditional pages	as applicable.							
Completed by	v Koser	· Held.	Ma_ Title _		-6	Telephone	<u> 304-</u>	420-110	7
Signature	Der 100	a-	Title _	Open	Kari	Mso	Date	1/1/26	113
(iring Chamical	Disclosure Info	ormation	Д	ttach conv	of FRACFOC	US Registry	

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

4710301632

Well Operator's Report of Well Work

Farm name:	WVA. PUBLIC	LANDS		Operator	Well No.: 0	G.V.REILL	Y N-19
LOCATION:	Elevation:	1,445.00	Quadr	angle: CF	ENTER POINT		
	District: Latitude: Longitude	3500 Feet	Sout West	h of 39	ounty: WETZI Deg. 30Min Deg. 40 Min	. Sec.	
Company: PEN	NZOIL PRODUC	CTS COMPANY	_				
P. (O. BOX 5519 NNA, WV 261			&	Used in Drilling	Ì	Cement Fill Up
Agent: JAM	ES A. CREWS		İ	Size			 To
Inspector: Permit Issue Well work Co	ed: ommenced:	05/25/94 08/24/94		8-5/8	706	706	surface 50 sks.
Verbal Plug Permission Rotary X	ging granted on:			 	 	 	
Total Depth Fresh water	(feet)	3492	_	4-1/2	3395.9	3395.9	300 sks.
Salt water	depths (ft)	N/A	_			 	
Is coal bei Coal Depths	ng mined in (ft):	area (Y/N) N/A	? <u>N</u>			. 	
OPEN FLOW D	ATA ?	Water Inject	tion W	/e11			
Gas: I: F T	ing formation nitial open inal open fi ime of open rock Presso	flow * ow * flow between	MCF/ MCF/ en in	d Oil: Ir d Fi itial and	d final test	flow <u>*</u> low <u>*</u> ts	Bbl/d Bbl/d Hours
Gas: I F T	producing initial open inal open fine of open	flow ow flow between	MCF/ en in	d Fi iitial and	Pay zone on the control of the contr	flow low ts	Bbl/d Bbl/d Hours
Static	rock Pressu	ire	_psig	(Surface	e pressure)	after	Hours
NOTE: ON BAINTERVALS, LOG WHICH INCLUDING C	FRACTURING	OR STIMULA	TING, LED	PHYSICA GEOLOGICA	AL CHANGE, F AL RECO DÍFIC	PECEIVED OPP Dibrared: SEP 23 2013	erforated THE WELL ABSTIONS,
		For: PEN	4	PRODUCTS	COMPANYVV Environ	Departmen mental Prot	t of ection

TREATMENT

Perforated with 22 holes, 3334'-3345'. Treated with 300 gallons 15% HCL acid, 234 barrels gelled water and 7000# of 20/40 sand.

WELL LOG

Sand &	Sha1e	0'-1080'
Sand		1080'-1126'
Shale		1126'-1238'
Sand		1238'-1260'
Sand &	Shale	1260'-1858'
Sand		1858'-1914'
Sand &	Shale	1914'-2452'
Sand		2452'-2464
Shale		2464'-2548'
Sand		2548'-2734'
Shale		2734'-3303'
Stray		3303'-3306'
Gordon		3316'-3358'
T.D.		3492 '

Received

Office of Oil and Gas
W Dept. of Environmental Protection



Select datatypes: \Box (Check All) Select County: (103) Wetzel Production Location Plugging Enter Permit #: 1633 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Pay/Show/Water Logs ✓ Btm Hole Loc

Usage Notes Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 103 Permit = 1633 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:44:25 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4710301633 | Wetzel | 1633 | Green | Center Point | Centerpoint | 39.490077 | -80.670537 | 528331 | 4371215 |

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
4710301633	9/23/1994	Original Loc	Completed	State of WV	O-19		MJ Reilly	15543-128 Pennzoil Products Co et al	Pennzoil Products Company	
4710301633	6/12/2008	Worked Over	Completed	WV Public Lands	O-19		M J Reilly	East Resources Inc	East Resources, Inc.	3656 Gordon
4710301633	11/21/2013	Worked Over	Completed	WV Public Lands	O-19		M J Reilly	H G Energy LLC et al	HG Energy, LLC	3656 Gordon

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 KO	G_BEF G_
4710301633	9/23/1994	8/28/1994	1438	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3656	3656	0
4710301633	6/12/2008	6/12/2008	1438	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acidized	3656	0	
4710301633	11/21/2013	11/21/2013	1438	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Fractured	3656	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
4710301633	6/12/2008	Water Flood	Injection	Vertical	3495	Gordon	3502	Gordon						
4710301633	9/23/1994	Water Flood	Injection	Vertical	3510	Gordon	3516	Gordon	0	0				
4710301633	6/12/2008	Water Flood	Injection	Vertical	3506	Gordon	3517	Gordon						
4710301633	11/21/2013	Water Flood	Injection	Vertical	3494	Gordon	3534	Gordon						

Production Oil Information: (Volumes in BbI) ** some operators may have reported NGL under Oil * 2023 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 | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT

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:

Suaugraph	y illioilliation	•							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4710301633	Dvtd Orgnl Loc	Gordon Stray	Well Record	3472	Reasonable	22	Reasonable	1438	Ground Level
4710301633	Dytd Orani Loc	Gordon	Well Record	3494	Reasonable	40	Reasonable	1438	Ground Level

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

Page 1 of 4

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Rev. 8/23/13

State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

/
1
1 /

API 47 - 103 _ 1633 _ County WETZE	District GREEN	
	REILLY Field/Pool Name STRINGTOW	/N
Farm name WV PUBLIC LANDS	Well Number O-19	
Operator (as registered with the OOG) H.G. ENERGY LL	C Well Prainter	
Address 5260 DuPONT ROAD City PAI	RKERSBURG State WV Zip 26	6101
As Drilled location NAD 83/UTM Attach an as-drilled Top hole Northing 4,371,215 M Landing Point of Curve Northing Bottom Hole Northing	Easting	
Elevation (ft) 1,438' GL Type of Well	□New ■ Existing Type of Report □Interim	Final
Permit Type Deviated Horizontal Horizon	tal 6A Vertical Depth Type Deep	■ Shallow
Type of Operation Convert Deepen Drill	Plug Back □ Redrilling □ Rework ■ Stimulate	
Well Type □ Brine Disposal □ CBM □ Gas □ Oil ■ Sec	ondary Recovery Solution Mining Storage Oth	er
Type of Completion ■ Single □ Multiple Fluids Produ Drilled with □ Cable ■ Rotary	ced □ Brine □Gas □ NGL ■ Oil □ Other	
Drilling Media Surface hole Air Mud Fresh War Production hole Air Mud Fresh Water Brin Mud Type(s) and Additive(s)		ater 🗆 Brine
	nenced N/A Date drilling ceased	
Date completion activities began11/21/13	Date completion activities ceased11/21/13	
Verbal plugging (Y/N) N Date permission grante	d Granted by	
Please note: Operator is required to submit a plugging applic	Open mine(s) (Y/N) depths Void(s) encountered (Y/N) depths DEC 27	ED.
Freshwater depth(s) ft None	Open mine(s) (Y/N) depths	a Gas
Salt water depth(s) ftNone	Void(s) encountered (Y/N) depths	13
Coal depth(s) ftNone	Cavern(s) encountered (Y/N) depths	
Is coal being mined in area (Y/N) N	Void(s) encountered (Y/N) depths DEC 27 NO NO NO NO NO NO NO NO NO NO NO NO NO	nt of Diection

Page 2 of 4 WR-35 Rev. 8/23/13 _Well number_O-19 API 47- 103 -WV PUBLIC LANDS 1633 Farm name Did cement circulate (Y/N) CASING Hole Casing New or Grade Basket **STRINGS** Used wt/ft Depth(s) * Provide details below* Size Depth Size Conductor Surface Existing 8 5/8" 710.85' Existing Coal Intermediate 1 Intermediate 2 Intermediate 3 Production Existing 4 1/2" 3566' Existing Tubing Packer type and depth set Comment Details WOC CEMENT Class/Type Number Slurry Yield Volume Cement (ft 3/sks) $(ft^{\frac{3}{2}})$ Top (MD) DATA of Cement of Sacks wt (ppg) (hrs) Conductor Surface 290 Existing Coal Intermediate 1 Intermediate 2 Intermediate 3 Production Existing 300 Tubing Drillers TD (ft) 3656' Loggers TD (ft) 3641' Plug back to (ft) N/A Deepest formation penetrated Gordon Plug back procedure N/A Kick off depth (ft) Check all wireline logs run □ caliper □ density □ deviated/directional □ induction □ neutron □ resistivity □ gamma ray □ temperature □sonic Sidewall Were cuttings collected ■ Yes □ No Well cored □ Yes ■ No Conventional DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING Existing WAS WELL COMPLETED AS SHOT HOLE □ Yes 📱 No **DETAILS DETAILS** WAS WELL COMPLETED OPEN HOLE? □ Yes 🖪 No WERE TRACERS USED □ Yes ■ No TYPE OF TRACER(S) USED

WR-35 Rev. 8/23/13		 			 • ·		Page 3_of 4_
API 47- 103 -	1633	Farm name	WV PUBLI	C LANDS	Well nu	mber O-19	

PERFORATION RECORD

Stage No	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	Existing	3495'	3502'	35	Gordon
1	Existing	3506'	3517'	66	Gordon
	-				
		- ''			

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date 11/21/13	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI) 2627	Max Breakdown Pressure (PSI)	ISIP (PSI) 2571	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
	11/21/13	10	2021	2100	2011	11,000	577	
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			-	**				
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Please insert additional pages as applicable.

WR-35 Rev. 8/23/13		•							Page <u>4</u> of <u>4</u>
API 47- 103	_ 1633	Farm	_{name} WV PUE	BLIC LAN	NDS		Well number	O-19	
PRODUCING	FORMATION(<u>(S)</u>	<u>DEPTHS</u>						
Gordon				_ TVD	3494'-3	534'	MD		
						·			
Please insert ad									
GAS TEST	□ Build up 0	□ Drawdown	□ Open Flow		OIL TE	ST □ F	Flow □ Pump	•	
SHUT-IN PRE	SSURE Sur	face	_psi Botto	m Hole		_psi	DURATION (OF TEST	hrs
OPEN FLOW	Gas mc	Oil fpd	NGL bpd	_ bpd	Water	_ bpd	GAS MEASU ☐ Estimated	JRED BY □ Orifice	□ Pilot
LITHOLOGY/ FORMATION	TOP DEPTH IN FT	BOTTOM DEPTH IN FT	TOP DEPTH IN FT	BOTTO DEPTH IN		SCRIBE I	ROCK TYPE AND	RECORD QUA	ANTITYAND
	NAME TVD	TVD	MD_	MD	TYI	PE OF FL			L, GAS, H ₂ S, ETC)
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	ompany Produ								
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Please insert ac	dditional pages								
Completed by	Koger	Heldm	an		Tel	lephone	420 r Date_	1107	
Signature	Jun 10	1910	Title <i>[</i>	perotos	W	Myr	Date _	11/26/13	
Submittal of H	ydraulic Fractu	ring Chemical 1	Disclosure Info	rmation	Attach	сору о	f FRACFOCUS	S Registry	

State of West Virginia Division of Environmental Protection Section of Oil and Gas 4710301633

Well Operator's Report of Well Work

Farm name:	WVA. PUBLIC	CLANDS	Operator	Well No.: M	.J.REILLY	7 0-19
LOCATION:	Elevation:	1,438.00 Quadr	angle: CE	ENTER POINT		
	Longitude	3550 Feet Sout 1150 Feet West	h of 39	ounty: WETZE Deg. 30Min. Deg. 40 Mir	Sec.	
P. VIE	NZOIL PRODUC O. BOX 5519 NNA, WV 26		&	Used in Drilling		Fill Up Cu. Ft.
Agent: JAM	ES A. CREWS		 Size	 	 	To
Permit Issu	RANDAL MICK led: commenced:	05/25/94	8-5/8	710.85	710.85	surface 290 sks.
Well work C Verbal Plug	Completed:	09/23/94			 	
Rotary X Total Depth	Cable (feet) (ft	Rig 3656	4-1/2 	3566'	 3566' 	300 sks.
Salt water	depths (ft)	N/A	 		 	
Is coal bei	ing mined in s (ft):	n area (Y/N)? <u>N</u> N/A			 	
OPEN FLOW I	DATA * Water	Injection Well				
Produc Gas: 1 Statio	cing formati Initial oper Final open f Time of oper c rock Press	on Gordon flow * MCF low * MCF n flow between i surepsi	/d Oil: I /d F nitial an	Pay zone initial open final open for final test ce pressure)	flow <u>*</u> low <u>*</u> ts	Bbl/d Bbl/d Hours
Gas:	Initial oper Final open to Time of oper	formation flow MCF flow between isure psi	d Oil: I d F nitial an	initial open Final open f nd final tes	low low sts	Bbl/c Bbl/c Bbl/c Hours
INTERVALS,	FRACTURING	S FORM PUT THE OR STIMULATING EMATIC DETAILED TERED BY THE WEI	GEOLOGI	AL CHANGE.	EIC. Z)	. TUC MERI
		For: PENNZO	L PRODUCT	TS_COMPANY		

TREATMENT

Perforated with 12 holes 3510-'3516'. Treated with 300 gallons 15% HCL acid, 293 barrels gelled water and 7000# 20/40 sand.

WELL LOG

(Measured depths, directionally drilled)

```
Sand & Shale
                0'-1078'
             1078'-1130'
Sand & Shale 1130'-1249'
Sand
             1249'-1262'
Shale
             1262'-1361'
             1361'-1377'
Sand
Sand & Shale 1377'-1451'
             1451'-1462'
Sand
Shale
             1462'-1590'
Sand & Shale 1590'-2266'
             2266'-2288'
Sand
Shale
             2288'-2583'
Sand
             2583'-2599'
Shale
             2599'-2710'
Sand
             2710'-2876'
Shale
             2876'-3472
             3472'-3494'
Stray
Gordon
             3494'-3534'
             3656
T.D.
```

WVGES O&G Record Reporting System 4710301634



Select County: (103) Wetzel Select datatypes: (Check All) Location Production Plugging Enter Permit #: 1634 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Logs ✓ Pay/Show/Water ✓ Btm Hole Loc

Usage Notes Contact Information <u>Disclaimer</u> WVGES Main

WV Geological & Economic Survey:

Well: County = 103 Permit = 1634 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:45:05 AM

Location Information: View Map

 COUNTY PERMIT TAX_DISTRICT
 QUAD_75
 QUAD_15
 LAT_DD
 LON_DD
 UTME
 UTMN

 Wetzel
 1634
 Green
 Center Point
 Centerpoint
 39.479635
 -80.664304
 528871.3
 4370058.2
 API COUNTY PERM 4710301634 Wetzel 1634

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE 4710301634 9/23/1994 Original Loc Completed State of WV O-15 CC Pen LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLET
15773-60 Pennzoil Products Co Pennzoil Products Company OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_PR CC Pennick

Completion Information:

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
 DEEPEST_FM
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 DEEPEST_F DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AF Unsuccessful Water Injection Rotary Acid+Frac Service Well 3479 3479

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

Stratigraph	y ii ii Oi i ii au	JII.							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4710301634	Original Loc	Big Injun (Price&eq)	Well Record	2526	Reasonable	238	Reasonable	1458	Ground Level
4710301634	Original Loc	Gordon Stray	Well Record	3334	Reasonable	3	Reasonable	1458	Ground Level
4710301634	Original Loc	Gordon	Well Record	3352	Reasonable	44	Reasonable	1458	Ground Level

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

State of West Virginia Division of Environmental Protection 4710301634 Section of Oil and Gas

Well Operator's Report of Well Work

Farm name:	WVA. PUBLIC	C LANDS	Operator	Well No.: C	.PENNICK	0-15
LOCATION:	Elevation:	1,458.00 Quad	rangle: CE	ENTER POINT		
	District: Latitude: Longitude	GREEN 7400 Feet Sou 11100 Feet Wes	th of 39	ounty: WETZE Deg. 30Min. Deg. 37 Mir	Sec.	
. P.	NZOIL PRODU O. BOX 5519 NNA, WV 26			Used in Drilling	4	Fill Up
Inspector: Permit Issu	RANDAL MICK led:	05/25/94	Size 8-5/8	705.10	705.10	To surface 225 sks.
Well work C Verbal Plug Permission	Completed: gging granted on:	09/23/94	4-1/2	 	 3452.2	
	Cable (feet) (ft depths (ft)		4-1/2	3432.2 	3432.2 	300 sks.
Coal Depths	s (ft):			 	 	
Produc Gas: 1 Statio	cing formati Initial open Final open f Time of open c rock Press	* Water Injection on Gordon flow * MCF flow * MCF a flow between in oure psi	F/d Oil: I F/d F Initial an ig (surfac	e pressure)	arter	HOULS
	Final open f	flow between :	F/d F initial an	nitial open inal open f	flow low ts	Bbl/d Bbl/d Hours Hours
INTERVALS, LOG WHICH	FRACTURING IS A SYSTE	S FORM PUT THE OR STIMULATING EMATIC DETAILED TERED BY THE WE	G, PHYSIC GEOLOGIC	AL CHANGE,	ETC. 2).	THE WELI

For: PENNZOIL PRODUCTS COMPANY

By: Date:

TREATMENT

Perforated with 20 holes 3374'-3384'. Treated with 300 gallons 15% HCL acid, 282 barrels gelled water and 7000# 20/40 sand.

WELL LOG

Sand &	Shale	0'-1103'
Sand		1103'-1152'
Sand &	Shale	1152'-1322'
Sand		1322'-1340'
Sand &	Shale	1340'-2050'
Sand		2055'-2083'
Shale		2083'-2103'
Sand		2103'-2120
Shale		2120'-2172'
Sand		2172'-2208'
Shale		2208'-2294'
Sand		2294'-2323'
Shale		2323'-2500'
Sand		2500'-2512'
Shale		2512'-2526'
Big In	jun	2526'-2764'
Shale		2764'-3334'
Stray		3334'-3337'
Shale		3337'-3352'
Gordon	1	3352'-3396'
T.D.		3479 '

WVGES O&G Record Reporting System 4710301635



Select County: (103) Wetzel Select datatypes: (Check All) Location Production Plugging Enter Permit #: 1635 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Logs ✓ Pay/Show/Water ✓ Btm Hole Loc

Usage Notes Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 103 Permit = 1635 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:45:42 AM

Location Information: View Map

 COUNTY PERMIT TAX DISTRICT QUAD_75
 QUAD_15
 LAT_DD
 LON_DD
 UTME
 UTMN

 Wetzel
 1635
 Green
 Center Point
 Centerpoint
 39.486596
 -80.658319
 529383.1
 4370832.6
 API COUNIY PERM 4710301635 Wetzel 1635

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE_ 4710301635 9/23/1994 Dvtd Orgnl Loc Completed State of WV STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLET
47256-00 Pennzoil Products Co et al Pennzoil Products Company OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_ES HM Jamison Q-17

Completion Information:

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
 DEEPEST_FM
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 DEEPEST_F DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AFT Unsuccessful Water Injection Rotary Acid+Frac Service Well 3804 3804

Pay/Show/Water Information:

 PRODUCT
 SECTION
 DEPTH_TOP
 FM_TOP
 DEPTH_BOT
 FM_BOT
 G_BEF
 G_AFT
 O_BEF
 O_AFT
 WATER_QNTY

 Injection
 Deviated
 3666
 Gordon
 3676
 Gordon
 0
 0
 0

 API
 CMP_DT
 ACTIVITY
 PRODUCTION

 4710301635
 9/23/1994
 Water Flood
 Injection

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:

Otratigraph	y innomination	•							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4710301635	Dvtd Orgnl Loc	Big Injun (Price&eq)	Well Record	2780	Reasonable	215	Reasonable	1477	Ground Level
4710301635	Dvtd Orgnl Loc	Gordon Stray	Well Record	3628	Reasonable	4	Reasonable	1477	Ground Level
4710301635	Dytd Orani Loc	Gordon	Well Record	3648	Reasonable	44	Reasonable	1477	Ground Level

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

27-May-94 API # 47-103-01635 s

State of West Virginia Division of Environmental Protection 4710301635 Section of Oil and Gas

Well Operator's Report of Well Work

		-	-			
Farm name:	WVA. PUBLI	C LANDS	Operator	Well No.: 1	H.M.JAMIS	ON Q17
LOCATION:	Elevation:	1,477.00 Quadr	angle: CI	ENTER POINT		
	District: Latitude: Longitude	GREEN 4950 Feet Sout 9400 Feet West	h of 39	ounty: WETZI Deg. 30Min Deg. 37 Min	. Sec.	
P.	NZOIL PRODUC O. BOX 5519 NNA, WV 26		&	Used in	İ	Cement Fill Up
Agent: JAM	ES A. CREWS		Tubing	Drilling	in Well	Cu. Ft.
Inspector: Permit Issu	RANDAL MICK	06/01/94	Size 8-5/8	 750	750	To surface 310 sks.
Well work C Verbal Plug Permission	ompleted: ging granted on:	09/23/94			 	
Rotary X Total Depth Fresh water	Cable (feet) 3 depths (ft	Rig 804') N/A	4 - 1/2	3753 	3753 	300 sks.
Salt water	depths (ft)	N/A		 		
Is coal bei Coal Depths	ng mined in (ft):	area (Y/N)?_N		 	 	
OPEN FLOW D	ATA	* Water Injection	Well			,
Produc Gas: I F	ing formationitial open final open fine of open	on Gordon flow * MCF/ low * MCF/ flow between in	d Oil: Ii d F:	Pay zone on the pay in	depth (ft flow* low*	3648-3692 * Bbl/d Bbl/d Hours
		urepsic	y (surface	_	-	Hours
Gas: I F T	producing nitial open from of open frock Press	flow MCF, low MCF, flow between ir	d F: nitial and	Pay zone on itial open inal open final open final teste pressure)	flow low ts	Bbl/d Bbl/d Hours Hours
NOTE: ON BA		FORM PUT THE	FOLLOWING	G: 1). DETA	AILS OF PI	ERFORATED

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.

By: 14/95

TREATMENT

Perforated with 20 holes, 3666'-3676'. Treated with 300 gallons 15% HCL acid, 249 barrels gelled water and 8700 lbs. of 20/40 sand

WELL LOG

```
Sand & Shale
                0'-1118'
Sand
             1118'-1168'
Sand & Shale 1168'-1391'
Sand
             1391'-1462'
Shale
             1462'-1800'
Sand
             1800'-1846'
Sand & Shale 1846'-1984'
Sand
             1984'-2050'
Sand & Shale 2050'-2382'
Sand
             2382'-2432'
Sand & Shale 2432'-2752'
Sand
             2752'-2772'
Shale
             2772'-2780'
Big Injun
             2780'-2995'
Shale
             2995'-3628'
Stray
             3628'-3632'
Gordon
             3648'-3692'
T.D.
             3804'
```



Select County: (103) Wetzel Select datatypes: (Check All) Location ✓ Production Plugging Enter Permit #: 1641 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Logs ✓ Pay/Show/Water ✓ Btm Hole Loc

<u>Jsage Notes</u> Contact Information Disclaimer

WV Geological & Economic Survey:

Well: County = 103 Permit = 1641 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:46:12 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4710301641 | Wetzel | 1641 | Green | Center Point | Centerpoint | 39.496746 | -80.698869 | 525892.2 | 4371946.7

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE 4710301641 12/8/1994 Original Loc Completed John Eves G-22 Isaac B LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLET
47251-00 Pennzoil Products et al Pennzoil Products Company OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_PI

Completion Information:

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
 DEEPEST_FM
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 DEEPEST_F DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AF Unsuccessful Water Injection Rotary Acid+Frac Service Well 2849 2849

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:

Stratigraph	y iiiioiiiiau	UII.							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4710301641	Original Loc	Little Lime	Well Record	1805	Reasonable	13	Reasonable	851	Ground Level
4710301641	Original Loc	Pencil Cave	Well Record	1818	Reasonable	12	Reasonable	851	Ground Level
4710301641	Original Loc	Big Lime	Well Record	1830	Reasonable	168	Reasonable	851	Ground Level
4710301641	Original Loc	Big Injun (Price&eq)	Well Record	1998	Reasonable	96	Reasonable	851	Ground Level
4710301641	Original Loc	Gordon Stray	Well Record	2674	Reasonable	18	Reasonable	851	Ground Level
4710301641	Original Loc	Gordon	Well Record	2703	Reasonable	29	Reasonable	851	Ground Level

Wireline (E-Log) Information:

There is no Plugging data for this well

^{*} There is no Scanned/Raster Log data for this well

^{*} There is no Digitized/LAS Log data for this well

^{*} There is no Scanned or Digital Logs available for download

03-Oct-94 API # 47-103-01641 s

Hours

 $J_{i,j}$

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

Well Operator's Report of Well Work

Farm name: EVES, JOHN Operator Well No.: I. WILEY #G-22 LOCATION: Elevation: 851.00 Quadrangle: CENTER POINT District: GREEN County: WETZEL 1250 Feet South of 39 9150 Feet West of 80 Latitude: Deg. 30Min. 0 Sec. Deg. 40 Min. 0 Sec. Longitude Company: PENNZOIL PRODUCTS COMPANY P. O. BOX 5519 Casing | Used in | Left Cement VIENNA, WV 26105-5519 & |Fill Up| Tubing | Drilling | in Well|Cu. Ft.| Agent: JAMES A. CREWS To Size Inspector: RANDAL MICK surface 10/04/94 10/30/94 Permit Issued: 8-5/8 263 263 50 sks. Well work Commenced: 12/08/94 Well work Completed: Verbal Plugging Permission granted on: Rotary X Cable
Total Depth (feet) 28
Fresh water depths (ft) 4-1/2 2931.15' 2931.15' 300 sks. N/A Salt water depths (ft) N/A Is coal being mined in area (Y/N)? N Coal Depths (ft): N/A OPEN FLOW DATA * Water Injection Well Producing formation Gordon Pay zone depth (ft) 2703-2732 Gas: Initial open flow * MCF/d Oil: Initial open flow * Bbl/d Final open flow * MCF/d Final open flow * Bbl/d Final open flow __ Bbl/d Time of open flow between initial and final tests Hours Static rock Pressure psig (surface pressure) after Hours Gas: Initial open flow MCF/d Oil: Initial open flow Final open flow MCF/d Final open flow Second producing formation Bbl/d Time of open flow between initial and final tests 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.

Static rock Pressure

For:	PENNZOIL PRODUCTS COMPANY
	By: timely
	Date: 1/4/95

__psig (surface pressure) after

TREATMENT

Perforated with 12 holes 2708'-2714'. Treated with 300 gallons 15% HCL acid, 257 barrels gelled water and 7000 lbs. of 20/40 sand.

WELL LOG

Sand & Shale	0'-1152'
Sand	1152'-1188'
Sha1e	1188'-1212'
Sand	1212'-1232'
Sand & Shale	1232'-1448'
Sand	1448'-1476'
Sand & Shale	1476'-1636'
Sand	1636'-1675'
Sha1e	1675'-1805'
Little Lime	1805'-1818'
Pencil Cave	1818'-1830'
Big Lime	1830'-1998'
Big Injun	1998'-2094'
Sha1e	2094'-2674'
Stray	2674'-2692'
Gordon	2703'-2732'
T.D.	2849 '

WVGES O&G Record Reporting System 4710301642



Select County: (103) Wetzel Select datatypes: (Check All) Location Production Plugging Enter Permit #: 1642 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Logs ✓ Pay/Show/Water ✓ Btm Hole Loc

Usage Notes Contact Information Disclaimer

WV Geological & Economic Survey:

Well: County = 103 Permit = 1642 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:47:12 AM

Location Information: View Map

| Tornation: | View Map | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN API COUNIT FENT 4710301642 Wetzel 1642

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_I 4710301642 12/8/1994 Original Loc Completed John Eves/Opal Cole G-23 S H Wiley RG 2832-00 Pennzoil Products Co et al Pennzoil Products Company East Resources, Inc.

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
 DEEPEST_FM
 DEEPEST_FM

 4710301642
 12/8/1994
 11/4/1994
 831
 Ground Level
 Jksnbg-Strngtwn
 Hampshire Grp
 Gordon

 4710301642
 3/10/2003
 3/6/2003
 831
 Ground Level
 Jksnbg-Strngtwn
 Hampshire Grp
 Gordon
 DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP MTHD TVD TMD NEW_FTG KOD G_BEF G_AF Service Well Service Well Unsuccessful Water Injection Rotary Acid+Frac Water Injection Rotary Acid+Frac

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 4710301642 3/10/2003 Horizon Injection Vertical 2694 Gordon 2696 Gordon 4710301642 12/8/1994 Horizon Injection Vertical 2694 Gordon 2698 Gordon

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

Otratigraph	y iiiioiiiiau	JII.							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4710301642			Well Record	1786	Reasonable	14	Reasonable	831	Ground Level
4710301642			Well Record	1800	Reasonable	18	Reasonable	831	Ground Level
4710301642	Original Loc	Big Lime	Well Record	1818	Reasonable	174	Reasonable	831	Ground Level
4710301642	Original Loc	Big Injun (Price&eq)	Well Record	1992	Reasonable	80	Reasonable	831	Ground Level
4710301642	Original Loc	Gordon Stray	Well Record	2662	Reasonable	15	Reasonable	831	Ground Level
4710301642	Original Loc	Gordon	Well Record	2690	Reasonable	23	Reasonable	831	Ground Level

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

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

4710301642

Well Operator's Report of Well Work

Farm name:	FLUHARTY	, RICKEY		Oper	ator V	Vell :	No.: S.	H W	ILEY	J-23 F.	CHIVED	
LOCATION:	Elevation:	831.00		Quad	lrangl	e:	PINEGI	ROVI	Ε	Ong	ernising	i5
	District: Latitude: Longitude:	GREEN 14,850 Feet 9,150 Feet	t south of		nty: Deg Deg	30			ec. ec.	WV D	1 4 2003 Repartment nental Prote	oi
Company:	P.O. BOX 55	URCES, INC. 19 V 26105-5519			Cas & Tub	۲	Used i	į	Le in V	ft	Cen Fill Cu.	ient Up
Agent:	MICHAEL M	ICCOWN			Siz	ze						
Inspector: Permit Issued:	MIKE UNDE	02/07/03										
Well work Com Well work Com Verbal plugging	pleted:	03/06/03 03/10/03			8 5	/8"	264.0	00	264	.00	100 sks	
permission gran Rotary X Total Depth (fee Fresh water dep	_Cable	Rig 2,798 NA			4 1	/2"	2760.0	00'	2760	0.00'	300 sks	
Salt water depth	ns (ft)	NA						-				
Is coal being mi Coal Depths (ft)	•	/N) <u>N</u> A	<u>4</u>									
OPEN FLOW I		erflood injection	well									
	ing formation		Gordon				Pay zor		oth (ft)		2690-27	
Gas:	Initial open f						al open					Bbl/d Bbl/d
•	Final open flo	ow en flow between		CF/d			al open f	IOW		Hours		DUI/U
Static r	_	on now between					ssure)	a	fter	TIOUIS		Hours
	-		*			-			41 (0)			
	l producing for		M	CE/4	<u> </u>	Tniti	Pay zor al open		otn (It)			Bbl/d
Gas:	Initial open for Final open float			CF/d CF/d			al open f					Bbl/d
		en flow between					ar open r	10 W		Hours		Dona
Static r	ock pressure	on now between					ssure)	a	fter			Hours 🛫
OR STIMULATIN	IG, PHYSICAL C	I, PUT THE FOLLO CHANGE, ETC. 2) FORMATIONS, IN	THE WELL	LOG V	WHICH	I IS A	SYSTEM	IATIC	DETA	ILED	TURING	
		For	: EAST RI	ESOI	RCE	5. IN	IC. / -					
		1 01	By:	7	/5/	2/	(d)	∽ ,				Ì
			Date:		0			3/11/	103			

Treatment:

 $Treated\ Gordon\ perforations\ 2694'-2698'\ with\ 250\ gals\ 15\%\ HCL,\ 293\ bbls\ Crosslinked\ gel\ water\ and\ 15,400\#\ 20/40\ sand$

Well Log See original well log

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

4710301642

Well Operator's Report of Well Work

Farm name:	COLE, OPAL	JONH EVES	Operator	Well No.: S	S.H. WILE	₹#G-23
LOCATION:	Elevation:	831.00 Qu	adrangle: P	INE GROVE		
	District: Latitude: Longitude	GREEN 14850 Feet S 9150 Feet W	outh of 39	ounty: WETZI Deg. 30Min Deg. 40 Min	. 0 Sec.	•
Ρ.	NZOIL PRODU O. BOX 5519 NNA, WV 26		&	Used in Drilling		Cement Fill Up Cu. Ft.
Agent: JAM	ES A. CREWS		 Size	. <u>-</u> 		To
Permit Issu Well work C	ommenced: completed:	10/04/94 11/04/94	8-5/8	264	264 . 	surface 100 sks.
Permission Rotary X Total Depth	granted on: Cable (feet) 27 depths (ft	Rig 798	4-1/2	2760	2760	300 sks.
Salt water	depths (ft)	N/A		<u> </u>	 	
Is coal bei	ng mined in (ft): N	area (Y/N)?_ /A	<u>N</u>			
OPEN FLOW I	OATA * Wat	ter Injection We	:11			
Produc Gas: I I Static	cing formati Initial oper Final open f Time of oper c rock Press	on Gordon i flow * I flow * I i flow between sure	MCF/d Oil: 1 MCF/d I n initial an psig (surfac	nd final tes ce pressure) Pay zone	flow * low * ts after depth (ft	Bbl/d Bbl/d Hours Hours
Gas:	Initial oper Final open	n flow	MCF/d Oil:	<u>In</u> itial oper Final open f	i tlow	Bbl/d Bbl/d
· · · · · · · · · · · · · · · · · · ·	Time of oper	flow between sure	n initial a	nd final tes	sts	Hours Hours
INTERVALS, LOG WHICH	FRACTURING IS A SYST	S FORM PUT T OR STIMULAT EMATIC DETAIL FERED BY THE	ING, PHYSI ED GEOLOGI	CAL CHANGE,	ETC. 2).	. THE WELL "
		For: PENN By:_ Date	ZOIK PRODUC - finally :	TS COMPANY		
						· · · · · · · · · · · · · · · · · · ·

TREATMENT

Perforated with 8 holes, 2694'-2698'. Treated with 300 gallons 15% HCL acid, 259 barrels gelled water and 7000 lbs. of 20/40 sand.

WELL LOG

Sand & Shale	0 -1116'
Sand	1116'-1182'
Shale	1182'-1226'
Sand	1226'-1268'
Sand & Shale	1268'-1590'
Sand	1590'-1653'
Sand & Shale	1653'-1786'
Little Lime	1786'-1800'
Pencil Cave	1800'-1818'
Big Lime	1818'-1992'
Big Injun	1992'-2072'
Sand & Shale	2072'-2662'
Stray	2662'-2677'
Gordon	2690'-2713'
T.D.	2798 '

WVGES O&G Record Reporting System 4710301643



Select County: (103) Wetzel Select datatypes: (Check All) Location ✓ Production Plugging Enter Permit #: 1643 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Logs ✓ Pay/Show/Water ✓ Btm Hole Loc

Usage Notes Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 103 Permit = 1643 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:47:39 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4710301643 | Wetzel | 1643 | Green | Center Point | Centerpoint | 39.491816 | -80.698305 | 525942.5 | 4371399.6

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE 4710301643 12/8/1994 Original Loc Completed State of WV STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLET
15634-50 Pennzoil Products Co et al Pennzoil Products Company OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_F Irene Reilly G-20

Completion Information:

API CMP_DT SPUD_DT ELEV DATUM 4710301643 12/8/1994 -/-/- 885 Ground FIELD DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AF 885 Ground Level Jksnbg-Strngtwn Hampshire Grp Gordon Unsuccessful Water Injection Rotary Acid+Frac Service Well 2923

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 E	LEV	DATUM	
4710301643	3 Original Loc	Big Injun (Price&eq)	Well Record	2066	Reasonable	70	Reasonable		885	Ground Level	
4710301643	3 Original Loc	Gordon	Well Record	2726	Reasonable	42	Reasonable		885	Ground Level	

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

Farm name:

State of West Virginia Division of Environmental Protection 4710301643 Section of Oil and Gas

Well Operator's Report of Well Work

DEPT. NATURAL RESOURCES Operator Well No.: I. REILLY G-20

LOCATION:	Elevation:	885.00	Quadr	angle: CF	ENTER POINT		
	District: Latitude: Longitude	2950 Feet	t Sout t West	h of 39	ounty: WETZE Deg. 30Min Deg. 40 Min	. 0 Sec.	
P	ENNZOIL PRODUC . O. BOX 5519 IENNA, WV 263		Y - 	&	 Used in Drilling		Cement Fill Up Cu. Ft.
Agent: J	AMES A. CREWS						
Permit Is Well work	Commenced: Completed:	10/04/94		Size 8-5/8	 220 	220	surface 60 sks.
Rotary X Total Dep	Cable Cable th (feet) er depths (ft	Rig _2923)_N/A		4-1/2	 2858.95 	2858.95	 300 sks.
Salt wate	r depths (ft)	N/A			İ		
	peing mined in the half the ha)? <u>N</u>				
OPEN FLOW	I DATA	* Water Inje	ction V	Vell			
Stat Seco Gas: Stat	ducing formatical open final open for Time of open cic rock Pressond producing final open for Time of open cic rock Pressond prock Pressond producing final open for the of open cic rock Pressond Presso	flow betwure formation flow low flow betwure	MCF,	of (surface) Od Oil: I Od Finitial and General (surface)	e pressure) Pay zone nitial open inal open f d final tes e pressure)	depth (ft flow low ts after	Hours Hours Bbl/d Bbl/d Hours Hours
INTERVALS	BACK OF THIS FRACTURING IS A SYSTE COAL ENCOUNT	OR STIMUL	ATING	, PHYSIC GEOLOGIC	AL CHANGE,	ETC. 2).	THE WELL
		For: PE By Da	4	PRODUCT	COMPANY		
					N f		

TREATMENT

Perforated with 16 holes 2740'-2748'. Treated with 300 gallons 15% HCL acid, 255 barrels gelled water & 7000# 20/40 sand.

WELL LOG

Sand & Shale	0'-1176'
Sand	1176'-1226'
Sand & Shale	1226'-1652'
Sand	1652'-1690'
Sand & Shale	1690'-1876'
Sand & Shale	1876'-2066'
Big Injun	2066'-2136'
Shale	2136'-2505'
Sand	2505'-2509'
Shale	2509'-2520'
Sand	2520'-2524'
Sand & Shale	2524'-2722'
Sand	2712'-2726'
Shale	2726'-2768'
T.D.	2923 '

WVGES O&G Record Reporting System 4710301645



Select County: (103) Wetzel Select datatypes: (Check All) Location ✓ Production Plugging Enter Permit #: 1645 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Logs ✓ Pay/Show/Water ✓ Btm Hole Loc

Usage Notes Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 103 Permit = 1645 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:48:04 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4710301645 | Wetzel | 1645 | Green | Center Point | Centerpoint | 39.492976 | -80.691194 | 526553.6 | 4371530.5 |

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE 4710301645 12/16/1994 Original Loc Completed State of WV STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_
15634-50 Pennzoil Products Co et al Pennzoil Products Company Irene Reilly I-20

Completion Information:

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
 DEEPEST_FM
 DEEPEST_FM
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 DEEPEST_FM
 DEEPEST_F DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_A Unsuccessful Water Injection Rotary Acid+Frac Service Well 3427

API CMP_DT ACTIVITY PRODUCT SECTION DEPTH_TOP FM_TOP DEPTH_BOT FM_BOT G_BEF G_AFT O_BEF O_AFT WATER_QNTY 4710301645 12/16/1994 Horizon Injection Vertical 3342 Gordon 3350 Gordon 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
4710301645	Original Loc	Gordon Stray	Well Record	3308	Reasonable	16	Reasonable	1476	Ground Level
4710301645	Original Loc	Gordon	Well Record	3333	Reasonable	42	Reasonable	1476	Ground Level

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

16-Nov-94 API # 47-103-01645 S

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

Well Operator's Report of Well Work

Farm name:	DEPT. NATUR	RAL RESOURCES	Operator	Well No.:	. REILLY	I-20
LOCATION:	Elevation:	1,476.00 Quadr	cangle: CI	ENTER POINT		
	District: Latitude: Longitude	GREEN 2550 Feet Sout 6950 Feet West	h of 39	ounty: WETZI Deg. 30Min Deg. 40 Min	O Sec.	•
	BOX 5519 NNA, WV 261		& Tubing	Used in		i
Inspector: 1 Permit Issue Well work Co Well work Co Verbal Plugo	ed: commenced: completed: ging	11/16/94 11/18/94 12/16/94	Size 8-5/8 	748' 748'	 748' 	To surface 295 sks.
Permission of Rotary X Total Depth Fresh water	Cable	Rig	4½	3422.9	 3422.9 	 300 sks.
Salt water	depths (ft)	N/A				
Is coal being Coal Depths	ng mined in (ft): N/A	area (Y/N)?N			 	
OPEN FLOW D	ATA * Wa	ter Injection Well				
Gas: I: F. T.	nitial open inal open fi ime of open	on Gordon flow * MCF/ low * MCF/ flow between in ure psic	/d Oil: In /d Fi nitial and	Pay zone on itial open inal open final teste pressure)	flow <u>*</u> low <u>*</u> ts	Bbl/d Bbl/d Hours
Gas: I: F T	producing : nitial open inal open fi ime of open rock Press	formationMCF, flowMCF, flow_between in arepsic	d Oil: Indicate of the control of th	Pay zone on titial open inal open final teste of the pressure)	flow low ts	Bbl/d Bbl/d Hours
LOG WHICH	FRACTURING IS A SYSTEI	FORM PUT THE OR STIMULATING MATIC DETAILED ERED BY THE WELI	, PHYSICA GEOLOGICA	AL CHANGE.	ETC. 21.	THE WELL

For: PENNZOIL PRODUCTS

Date:

TREATMENT

Perforated with 16 holes 3342'-3350'. Treated with 300 gallons HCL acid, 285 barrels gelled water and 7,000 lbs. of 20/40 sand.

WELL LOG

Sand & Shale - 0 - 1242' - 1242'-1248' Sand & Shale - 1248'-1778' - 1778'-1840' Sand & Shale - 1840'-1876' Sand - 1876'-1930' Shale - 1930'-2068' Sand - 2068'-2095' Sha1e - 2095'-2270' Sand - 2270'-2330' Sand & Shale - 2330'-2565' Sand 10100 - 2565'-2608' Sand & Shale - 2608'-2726' Shale - 2726'-3308' Stray - 3308'-3324' Gordon - 3333'-3375' T.D. - 3427**'**.

$\mathsf{WVGES}\ \mathsf{O\&G}\ \mathsf{Record}\ \mathsf{Reporting}\ \mathsf{System} \\ \mathbf{4710301657}$



Select datatypes: \Box (Check All) Select County: (103) Wetzel Location Production Plugging Enter Permit #: 1657 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

Usage Notes Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 103 Permit = 1657 Link to all digital records

Report Time: Thursday, November 30, 2023 10:48:27 AM

Well Reassignment Information: Reassigned From OLD_COUNTY OLD_PERMIT NEW_COUNTY NEW_PERMIT 103 71322 103 1657

 Location Information:
 View Map

 API
 COUNTY PERMIT
 TAX_DISTRICT
 QUAD_75
 QUAD_15
 LAT_DD
 LON_DD
 UTML
 UTMN

 4710301657
 Wetzel
 1657
 Green
 Center Point
 Centerpoint
 39.474414
 -80.699982
 525804.8
 4369467.9

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_
4710301657	11/13/1995	Original Loc	Completed	Virginia Fluharty Drew et al	E-14	William M Fluharty	Fee-2831	Pennzoil Products Co et al	Pennzoil Products Company
4710301657	3/6/2004	Worked Over	Completed	Virginia Fluharty Drew	E-14	William Fluharty	Fee-2831	East Resources et al	East Resources, Inc.
4710301657	9/10/2004	Dvtd Wrkd Ovr	Completed	WV Public Lands Corp	E-14	Fluharty	Fee-2831	East Resources Inc et al	East Resources, Inc.

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FM1	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG P	OD G	BEF (G_AI
4710301657	11/13/1995	7/10/1995	1416	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3415		3415			
4710301657	3/6/2004	3/2/2004	1416	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3415		0			
4710301657	9/10/2004	9/7/2004	1416	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	unknown	3415					

Comment: 11/13/1995 Waterflood Injection Well
Comment: 3/6/2004 WV Public Lands Corporation - Water injection well
Comment: 9/10/2004 Cut 3 horizontal laterals 49'-111' deep at 3295'- Waterflood injection

Pay/Show/Water Information:

	J														
AP	rl	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER	QNTY
47	10301657	11/13/1995	Water Flood	Injection	Vertical	3290	Gordon	3298	Gordon						
47	10301657	3/6/2004	Water Flood	Injection	Vertical	3290	Gordon	3298	Gordon						
47	10301657	9/10/2004	Water Flood	Injection	Deviated	3258	Gordon	3320	Gordon						

There is no Production Gas data for this well

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

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_QUALIT	Y ELEV	DATUM
4710301657	Original Loc	Gordon	Well Record	3258	Reasonable	62	Reasonable	1416	Ground Level
4710301657	Original Loc	Hampshire Grp	WVGES Staff Geologist	3320	Reasonable	95	Ostnble Pick	1416	Ground Level

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

API#

25-Aug-04 47 103 1657

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

but

		Well Operator	s Report	of Well V	Vork		,	, ·
Farm name:	W V PUBLI	C LAND CORP.	Opera	tor Well N	No.: FLUH	ARTY E-14		
LOCATION:	Elevation:	1,416.00	Quad	rangle:	CENTERPO	OINT 7.5'		
LOCATION.	District: Latitude: Longitude:	MCELROY 9,350 Feet south o 9,450 Feet west o		Deg 30 Deg 40	Min 30 5	Sec.	Car	ment
Company:	P.O. BOX 5	OURCES, INC. 519 VV 26105-5519		Casing & Tubing	Used in Drilling	Left in Well	Fill	l Up ı. Ft.
Agent:		NDRUSEK		Size				
Inspector: Permit Issued:	MIKE UND	ERWOOD 08/25/04 09/07/04						
Well work Cor Well work Cor Verbal pluggin permission gra Rotary X	npleted: ig nted on: Cable	09/10/04 Rig 3415		8 5/8"	670.00'	670.00'	200	sks
Total Depth (for Fresh water de	epths (ft)	NA NA		4 1/2"	3349.00'	3349.00'	170	sks
Salt water dep Is coal being r Coal Depths (nined in area (ft):		R INJECT	ION WEI	JL			
OPENILOW	DITT		Gord	lon	Pay zone (depth (ft)	3258-	3320
Produ Gas:	Einel open	flow *	MCF/c	Oil: Ini	tial open flow	''	*	Bbl/d Bbl/d
Stati	Time of c c rock pressure	open flow between initi	ar and m psig (surface pr	essure)	after		_Hours
Gas:	Final oper Time of	n flow flow open flow between initial	MCF/o	d Fi	Pay zone (tial open flownal open flownessure)	W	'S	Bbl/d Bbl/d Hours
NOTE: ON BA	ic rock pressur CK OF THIS FO TING, PHYSICA C RECORD OF A	RM, PUT THE FOLLOWING L CHANGE, ETC. 2) THE V LL FORMATIONS, INCLU	G: 1) DETA WELL LOG DING COA	AILS OF PE	RFORATED I A SYSTEMA ITERED BY T	HE WELLBORE.	-======================================	-
		For: EA	DI KER	OKCIO,		PRE	CENTR GO	to I

By:

Date:

NOV 0 9 2004

WV Department of Environmental Protection

Treatment: cut 3 horisontal laterals 46'-111' deep at 3295'

Well Log: SEE ORIGINAL WELL RECORD

03-27-95 API# 47-103-1657S

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

Well Operator's Report of Well Work

							7 TP 4 4	
Farm name:	DREW, VIRO	JINIA FLUHARTY	Opera	ator Well	No.: WM	FLUHART	K E-14	
LOCATION:	Elevation:	1,416	Quad	rangle:	CENTERP	OINT		
	District: Latitude: Longitude:	GREEN 9,350 Feet south of 9,450 Feet west of		ty: WE' Deg 30 Deg 40		Sec. Sec.		
Company:	P.O. BOX 55	PRODUCTS COMPANY 19 V 26105-5519		Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.	
Agent:	PHILIP S. O	NDRUSEK		Size				
Inspector: Permit Issued: Well work Com	RANDAL M	ICK 3/27/95 7/10/95						
Well work Com Verbal plugging	ipleted:	11/13/95		8-5/8	670'	670'	200 SKS	
permission gran Rotary X Total Depth (fe	_Cable et)	Rig 3,415		4 1/2"	3349'	3349'	170 SKS	
Fresh water dep	oths (ft)	NA.						
Salt water dept	hs (ft)	NA				F	RECEIVED	
Is coal being m Coal Depths (ft	ined in area (Y/	N) N				I A	RECEIVED Office of Oil & Ga Office of Chief	*
OPEN FLOW	DATA	*Waterflood Injection W	ell			Enviro	Department of	Γ
Gas:	cing formation Initial open for Final open floor Time of oper rock pressure	ow * N	ACF/d ACF/d nd fina	Fin	Pay zone of ial open flow al open flow essure)	w	* Bbl/d * Bbl/d * Bbl/d * Bbl/d * Bbl/d Hours	
	-				Pay zone	denth (ft)		
Gas:		low Now Now Now Now Now Now Now Now Now N	MCF/d MCF/d nd fina	Fin	ial open flow al open flow	w Ho	Bbl/d Bbl/d urs or of C Hours On seed Hours	
NOTE: ON BAINTERVALS,	FRACTURING IS A SYSTEM	FORM, PUT THE FOLLO G OR STIMULATING, PHI IATIC DETAILED GEOLO INTEREDBY THE WELL	WING HYSIC OGIC	G: 1) DET CAL CHAI AL RECO	AILS OF F	ERFORAT 2) THE W	ED 18 2003	
		For: PENNZ	OIL P	RODUCI	S/CÓMPA			•
		Bv:		Lynnel	V/ (HL	\mathcal{L}		



Treatment:

Perforated Gordon 3290-3298 4 Holes Per Foot (32 Holes) Treated via 4 1/2" with 300 gal 15% HCl Acid, 188 BBL Gelled Water, 8,900 lbs 20/40 Sand.

Well Log:

Sand & Shale	0	-	1580'
Sand	1580'	-	1671'
Shale	1671'	_	1812'
Sand	1812'		1846'
Sand & Shale	1846'	-	2351'
Sand	2351'	-	2360'
Shale	2360'	_	2382'
Sand	2382'	_	2594'
Sand & Shale	2594'	-	3258'
Gordon	3258'	-	3320'
T.D.	3415'		

WVGES O&G Record Reporting System 4710301659



Select County: (103) Wetzel Select datatypes: (Check All) Location ✓ Production Plugging Enter Permit #: 1659 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Logs ✓ Pay/Show/Water ✓ Btm Hole Loc

Usage Notes Contact Information <u>Disclaimer</u> WVGES Main

WV Geological & Economic Survey:

Well: County = 103 Permit = 1659 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:49:36 AM

Location Information: View Map

| TOTMBUOT: | VIEW WIRD | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN | UTMN API COUNTY FERM 4710301659 Wetzel 1659

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE_OWNER WEL 4710301659 9/12/1996 Original Loc Completed Carl E & Betty Fluharty F-25 STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE
 LEASE
 LEASE_NUM
 MINERAL_OWN
 OPERATOR_AT_COMPLET

 Anderson Wiley
 FEE-3318-00
 Pennzoil Products Co et al
 Pennzoil Products Company
 OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_

Completion Information:

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
 DEEPEST_FM
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 DEEPEST_F DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AF Unsuccessful Water Injection Rotary Acid+Frac Service Well 2807 2807

API CMP_DT ACTIVITY PRODUCT SECTION DEPTH_TOP FM_TOP DEPTH_BOT FM_BOT G_BEF G_AFT O_BEF O_AFT WATER_QNTY 4710301659 9/12/1996 Horizon Injection Vertical 2656 Gordon 2662 Gordon 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:

Otratigraph	y iiiioiiiiau	JII.							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4710301659	Original Loc	unidentified coal	Well Record	562	Reasonable	6	Reasonable	814	Ground Level
4710301659	Original Loc	Big Lime	Well Record	1807	Reasonable	75	Reasonable	814	Ground Level
4710301659	Original Loc	Big Injun (undiff)	Well Record	1882	Reasonable	174	Reasonable	814	Ground Level
4710301659	Original Loc	Gordon Stray	Well Record	2625	Reasonable	15	Reasonable	814	Ground Level
4710301659	Original Loc	Gordon	Well Record	2651	Reasonable	19	Reasonable	814	Ground Level

There is no Plugging data for this well

Wireline (E-Log) Information:
* There is no Scanned/Raster Log data for this well

^{*} There is no Digitized/LAS Log data for this well

^{*} There is no Scanned or Digital Logs available for download

API#

11-Apr-95 47 -103- 1659

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

		Well Operator's	Repor	t of Well V	Vork		One of the second
Farm name:	Fluharty, Car	l & Betty	Ope	rator Well	No.: A. W		MAR 12 1004
LOCATION:	Elevation:	814.00	Qua	drangle:	Pine Grove		Environ VOVE 7 100
	District: Latitude: Longitude:	Green 13,100 Feet south of 8,750 Feet west of	39	nty: Wet Deg 32 Deg 40	Min 30		Environ Oncom of
Company:	P.O. BOX 55	PRODUCTS COMPANY 19 V 26105-5519		Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Agent:	PHILIP S. O	NDRUSEK		Size			
Inspector: Permit Issued:	Randal Mick	4/11/95		11'	30'	30'	
Well work Cor Well work Cor Verbal pluggin permission gra	npleted: g	6/14/96 9/12/96		8-5/8''	219'	219'	175 Sacks
Rotary X Total Depth (fe	Cable	Rig 2807'		4 1/2"	2744.15'	2744.15'	275 Sacks
Fresh water de	puis (1t)	<u>NA</u>					
Salt water dept	hs (ft)	NA		· 	· 		
Is coal being m Coal Depths (f	ined in area (Y/t):	N) N					
OPEN FLOW	DATA	*Well was drilled as a w	aterflo	od injection	n well. No o	pen-flow data v	vas obtained
Gas:	cing formation Initial open flo Final open flo Time of ope rock pressure	w * N n flow between initial ar	MCF/d MCF/d nd fina	Fina	Pay zone d al open flow l open flow		2651-2670 * Bbl/d * Bbl/d Hours
	d producing for		oig (si	mace pres			Tiours
Gas:	Initial open flo Final open flo	ow No	MCF/d	Fina	Pay zone d al open flow I open flow		Bbl/d Bbl/d
Static	rock pressure			irface pres	ssure)	after	Hours
OR STIMULATII	NG, PHYSICAL C	, PUT THE FOLLOWING: 1) HANGE, ETC. 2) THE WELL FORMATIONS, INCLUDING	LOG V	VHICH IS A	SYSTEMAT	TC DETAILED	CTURING
		effor: PENNZ By:	OIL PI	CODUCY	100 PA	X	
		Date:		4/11/C	0		

Treatment:

Perforations:

2656' - 2662' - 6 holes/ft. (36 holes)

Treatment:

Treated via 4.5" Casing with 300 gals. 15% HCl, 209 bbls.

Borate cross-linked gelled water and 15,300 lbs. of 20/40 sand.

Well Log:

Sand & Shale	0	-	227
Shale	227	-	414
Sand	414	•	462
Sand & Shale	462	-	562
Coal	562	-	568
Sand	568	-	600
Sand & Shale	600	-	698
Sand	698	-	715
Shale	715	-	1013
Sand	1013	-	1041
Shale	1041	-	1112
Sand	1112	-	1173
Shale	1173	-	1209
Sand	1209	-	1243
Shale	1243	-	1478
Sand	1478	-	1505
Shale	1505	-	1578
Sand	1578	-	1604
Shale	1604	-	1807
Big Lime	1807	-	1882
Big Injun	1882	-	2056
Shale	2056	-	2625
Gordon Stray	2625	-	2640
Shale	2640	-	2651
Gordon Sand	2651	•	2670
Shale	2670	-	2802

WVGES O&G Record Reporting System 4710301660



Select County: (103) Wetzel Select datatypes: (Check All) Production Plugging Location Enter Permit #: 1660 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

Usage Notes Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 103 Permit = 1660 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:50:05 AM

Location Information: View Map

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE_OWNER WEL 4710301660 10/18/1995 Original Loc Completed Elza & Joyce Anderson G-25 STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLET
47250-00 Pennzoil Products Co et al Pennzoil Products Company OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_E Jacob Wiley

Completion Information:

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
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 DEEPEST_F DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AI Unsuccessful Water Injection Rotary Acid+Frac Service Well 3038 3038

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 4710301660 10/18/1995 Horizon Injection Vertical 2888 Gordon 2906 Gordon 0 0

There is no Production Gas data for this well

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

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 FN
 FM_QUALITY
 DEPTH_TOP
 DEPTH_QUALITY
 THICKNESS
 THICKNESS_QUALITY
 ELEV
 DATUM

 Well Record
 2867
 Reasonable
 58
 Reasonable
 1041
 Ground
 FM API SUFFIX FM FM_QUALIT 4710301660 Original Loc Gordon Well Record

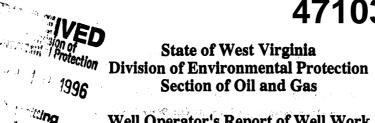
Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

04-11-95

47-103-1660 S





Well Operator's Report of Well Work

Farm name:	ANDERSON,	ELZA & JOYC	E Op	erator Well	No.: J.A. V	WILEY G-2	5
LOCATION:	Elevation:	1,041'	Qu	adrangle:	PINEGRO	VE	"
	District: Latitude: Longitude:	GREEN 13,250 Feet 7,750 Feet	south of 39	unty: WE 30 Deg 40		Sec. Sec.	
Company:	P.O. BOX 55	RODUCTS COM 19 V 26105-5519	MPANY	Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Agent:	PHILIP S. ON	NDRUSEK		Size			
Inspector: Permit Issued:	RANDAL MI	4/11/95					
Well work Com Well work Com Verbal plugging	pleted:	9/5/95 10/18/95	- *	8-5/8	307'	307'	125 SKS
permission gran Rotary X Total Depth (fee	_Cable	Rig ,038'	_	4 1/2"	3010'	3010'	170 SKS
Fresh water dep	ths (ft)	NA					
Salt water depth	ns (ft)	NA					
Is coal being mi Coal Depths (ft)		N) NA	_ _				
OPEN FLOW I	DATA	*Waterflood In	jection Well				
Gas:	ing formation Initial open flo Final open flo Time of oper	ow	* MCF/ initial and fi		al open flow	v	2867-2925 * Bbl/d * Bbl/d rs * Hours
	l producing for			<u> </u>	Pay zone d	• ' '	511/1
Gas:	Initial open flo Final open flo Time of open		MCF/		al open flow		Bbl/d Bbl/d
Static 1	rock pressure			(surface pre	ssure)	after	Hours
INTERVALS, I LOG WHICH I	FRACTURING S A SYSTEM	FORM, PUT THI GOR STIMULA ATIC DETAILEI NTEREDBY TH	TING, PHYSI D GEOLOGIO	CAL CHAN	IGE, ETC.	2) THE WE	ELL
		For:	PENNZOIL	PRODUCT	S/COMPAN)	
	•		Ву:	finell	M <	/	

Date:

电线线线 电流

第3、1914年,1915年6月1日,1914年1月1日

AND DECEMBER OF THE PARTY OF TH

Treatment: Perforated Gordon 2888-2906 (32 Holes) Treated via 4 1/2" Casing w/300 gal. 15% HCl Acid, 222 BBL gelled water and 15,400# 20/40 Sand.

Well Log:

Sand & Shale	0	- * **	1260'
Sand	1260'		1286'
Sand & Shale	1286'	-	1828'
Sand	1828'	-	1856'
Sand & Shale	1856'	-	2006'
Sand	2006'	-	2022'
Sand & Shale	2022'	- 1	2184'
Sand John ?	2184'	-	2296'
	2296'	-	2867'
Gordon	2867'	-	2925'

14. 6

and the control of th

T.D 3038'

$\mathsf{WVGES}\ \mathsf{O\&G}\ \mathsf{Record}\ \mathsf{Reporting}\ \mathsf{System} \\ \mathbf{4710301671}$



Select County: (103) Wetzel Select datatypes: \Box (Check All) Production Plugging Location Enter Permit #: 1671 ✓ Owner/Completion Stratigraphy ✓ Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

<u>Jsage Notes</u> Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 103 Permit = 1671 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:50:38 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4710301671 | Wetzel | 1671 | Green | Center Point | Centerpoint | 39.477605 | -80.700357 | 525771.3 | 4369821.9 |

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_TRO
4710301671	10/3/1995	Original Loc	Completed	Virginia Fluharty Drew et al	E-15		WM Fluharty E-	15 William Fluharty	15577-50 Pennzoil Products Co et al	Pennzoil Products Company
4710301671	2/18/2004	Worked Over	Completed	Virginia Fluharty Drew	E-15		WMFluharty E-1	5 William Fluharty	15577-50 East Resources et al	East Resources, Inc.

Completion Information:

Al	PI	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_AF
47	10301671	10/3/1995	8/5/1995	1022	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3007	3007
47	10301671	2/18/2004	2/14/2004	1022	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3007	0

Comment: 10/3/1995 Waterflood Injection Well

Comment: 2/18/2004 Water Injection Well - W Va Public Land Corporation

Pay/Show/Water Information:

- aj/enen/race memacem														
API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_	QNTY
4710301671	2/18/2004	Horizon	Injection	Vertical	2892	Gordon	2902	Gordon						
4710301671	10/3/1995	Horizon	Injection	Vertical	2892	Gordon	2902	Gordon						

There is no Production Gas data for this well

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

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:

J	,									
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUA	LITY ELEV	DATUM	
4710301671	Original Loc	Gordon	Well Record	2855	Reasonable	65	Reasonable	1022	Ground Level	
4710301671	Original Loc	Hampshire Grp	WVGES Staff Geologist	2920	Reasonable	87	Ostnble Pick	1022	Ground Level	

- Wireline (E-Log) Information:
 * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

4710301671 4-Dec-03 47 103 1671

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

JUN 1 8 2006

Farm name:	DREW, VIR	GINIA FLUHARTY	Oper	ator Well	No.: WM I	FLUHARTY E-	15	
LOCATION:	Elevation:	1,022.00	Quad	drangle:	CENTERP	OINT 7.5'		
	District: Latitude: Longitude:	GREEN 8,200 Feet sou 9,600 Feet wes	Counth of 39	•	ΓΖΕL Min 0	Sec.		
Company:	P.O. BOX 55	URCES, INC. 119 V 26105-5519		Casing & Tubing	Used in Drilling	Left in Well] Fi	ement ll Up u. Ft.
Agent:	PHILIP S. O	NDRUSEK		Size				
Inspector: Permit Issued: Well work Com	MIKE UNDI	ERWOOD 12/04/03 02/14/04						
Well work Com Verbal plugging	pleted:	02/14/04		8 5/8"	308.00'	308.00'	90	sks
permission gran Rotary X Total Depth (fee	_Cable et)	Rig 3007		4 1/2"	2980.30'	2980.30'	170	sks
Fresh water dep Salt water depth		NA NA				RECEIVEI Office of Oil &	Gas	
Is coal being mi	ned in area (V	NA N				Office of Ch		-
Coal Depths (ft)		NA NA				MAY 2 0 20	104	
OPEN FLOW I	DATA	Water Injection We	ell			WV Departme Environmental Pr		
	ing formation		ordon		Pay zone d		2855-2	
Gas:	Initial open for Final open floating of open floating of open floating floating from the final open floating fl		MCF/d	Fina	al open flow ll open flow		*	_Bbl/d _Bbl/d
Static r	ock pressure	*		urface pre	ssure)	after		_Hours
Second	l producing for	mation			Pay zone de	epth (ft)		
Gas:	Initial open for Final open floring of open		MCF/d	Fina	al open flow al open flow	Hours		_Bbl/d _Bbl/d
Static r	ock pressure			urface pre	ssure)	after		_Hours
OR STIMULATIN	IG, PHYSICAL C	I, PUT THE FOLLOWIN CHANGE, ETC. 2) THE FORMATIONS, INCLU	WELL LOG V	WHICH IS A	SYSTEMAT	IC DETAILED	TURING	WET
		For: EA	ST RESOU	/ Y /				····
		B _i	y: ate:	1/64	alde	112/14		<u>6</u>
		D	~~·			110114		

ATTAMENTAL PROPERTY AND A TOTAL

Treatment:

Treated perforations 2892' -2902' w/ 250 gals 15% HCL, 327 Bbls cross linked gel and 20,500 # 20/40

A CONTRACTOR SET OF THE BUSINESS OF A CONTRACTOR OF A CONTRACTOR OF THE CONTRACTOR OF A SET OF A SET OF A CONT FROM CONTRACTOR OF THE SET OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR AS A CONTRACTOR OF A CONTRACTOR OF A

sand

Well Log:

See original well record

RECEIVED
WY Division of
Environmental Protection

APR 1 () 1996

4710301674#

05-03-95 47-103-1671S

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

Permitting Office of Oil & Gas

Farm name:	DREW, VIRO	SINIA FLUHARTY	Ope	rator Well	No.: WM	FLUHART	Y E-15	
LOCATION:	Elevation:	1,022	Qua	drangle:	CENTER	POINT		3¥.
	District: Latitude: Longitude:	GREEN 8,200 Feet south 9,600 Feet west		nty: WE Deg 30 Deg 40		Sec.	1 14	X .O
Company:	P.O. BOX 55	PRODUCTS COMPAN 19 V 26105-5519	NΥ	Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.	
Agent:	PHILIP S. ON	NDRUSEK		Size				
Inspector: Permit Issued: Well work Com	RANDAL MI	CK 5/3/95 8/5/95						
Well work Com Verbal plugging permission gran	pleted:	10/3/95		8-5/8	308'	308'	90 SKS	
	Cable3	Rig 5,007' NA		4 1/2"	2980.3'	2980.3'	170 SKS	
Salt water depth		NA						
Is coal being mi Coal Depths (ft)		N) N						
OPEN FLOW D	DATA	*Waterflood Injection	n Well					
Gas:	ing formation Initial open flo Final open flo Time of open ock pressure		MCF/d MCF/d and fina	Fina		v	2855-2920 * Bbl/d * Bbl/d rs * Hours	
Gas:	producing form Initial open flo Final open flo Time of open ock pressure	ow	MCF/dl and fina	Fina	Pay zone of all open flow ssure)	v	Bbl/d Bbl/d rs Hours	
INTERVALS, F LOG WHICH IS	FRACTURING S A SYSTEMA	FORM, PUT THE FOL FOR STIMULATING, ATIC DETAILED GEO NTEREDBY THE WE	, PHYSIC OLOGIC <i>A</i>	AL CHAN	IGE, ETC.	2) THE WE	ELL	
	·	For: PEN By: Dat		RODUCT fin &	S COMPAN L CZ	JY .		

DESCRIPTION OF THE PROPERTY OF

Treatment: Perforated Gordon 2892-2902 (40 Holes) Treated Via 4 1/2" with 550 gals 15% HCl, 221 BBL gelled water & 15,300# 20/40 Sand.

3 400

Well Log:

Sand & Shale	0	-	1220'
Sand	1220'		1270'
Sand & Shale	1270'	-	1785'
Sand	1785'	-	1856'
Shale	1856'	-	2002'
Sand	2002'	-	2052'
Shale	2052'	-	2108'
-Sand Invac	2108'	-	2279
Shale	2279'	-	2855'
Gordon	2855'	-	2920'
T.D.	3007'		

$\mathsf{WVGES} \, \mathsf{O\&G} \, \mathsf{Record} \, \mathsf{Reporting} \, \mathsf{System} \, \boldsymbol{4710301672}$



Select County: (103) Wetzel Select datatypes: \Box (Check All) Production Plugging Location Enter Permit #: 1672 ✓ Owner/Completion Stratigraphy ✓ Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

<u>Jsage Notes</u> Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 103 Permit = 1672 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:50:59 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4710301672 | Wetzel | 1672 | Green | Center Point | Centerpoint | 39.482026 | -80.700518 | 525755.9 | 4370312.6

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_N	IUM CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION PRO	OP_VD PROP_TRGT_FN
4710301672	10/3/1995	Original Loc	Completed	Virginia Fluharty Drew et al	E-16		William M Fluharty	15577-50	Pennzoil Products Co et al	Pennzoil Products Company	
4710301672	2/18/2004	Worked Over	Completed	Virginia Fluharty Drew	E-16		William Fluharty	15577-50	East Resources et al	East Resources, Inc.	
4710301672	3/26/2010	Worked Over	Completed	W/V Public Lands Corn	F-16		Flubarty	15577-50	Fast Resources Inc et al	Fast Resources Inc	2942 Gordon

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 KC	D G_BEF G_AF
4710301672	10/3/1995	8/9/1995	963	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2942	2942	
4710301672	2/18/2004	2/14/2004	963	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2942	0	
4710301672	3/26/2010	3/25/2010	963	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2942	0	

Comment: 10/3/1995 Waterflood Injection Well

Comment: 2/18/2004 W Va Public Lands Corporation - Water Injection Well

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
4710301672	10/3/1995	Water Flood	Injection	Vertical		2820	Gordon	2828	Gordon						
4710301672	2/18/2004	Water Flood	Injection	Vertical		2820	Gordon	2828	Gordon						
4710301672	3/26/2010	Water Flood	Injection	Vertical		2814	Gordon	2829	Gordon						

There is no Production Gas data for this well

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

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:

Stratigraph	tratigraphy information.										
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM		
4710301672	Original Loc	Gordon	Well Record	2786	Reasonable	63	Reasonable	963	Ground Level		
4710301672	Original Loc	Hamnshire Grn	WVGES Staff Geologist	2849	Reasonable	93	Ostnhle Pick	963	Ground Level		

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

There is no Sample data for this well



State of West Virginia	
Division of Environmental Protectio) II
Section of Oil and Gas	

	Well Operator's	Repor	t of W	ell V	Work				64
WV PUBLIC	LAND CORP.	Open	rator W	/ell l	No.: FL	UHART	Y E-16		
Elevation:	963'	Quad	drangle) :	CENTER	RPOINT	7.5'		
District: Latitude: Longitude:	GREEN 6,625 Feet south of 9,650 Feet west of	39	Deg	30	Min 0				
P.O. BOX 55	119		Tubi	ing			Left n Well	Fil	ment 1 Up 1. Ft.
PHILIP S. O	NDRUSEK								
nmenced: npleted:	ANAGE 12/30/09 03/25/10 03/26/10								
_Cable et)	Rig 2942'		8 5/	8"	219'		219'	75	sks
oths (It)	<u>NA</u>		4 1/	2"	2877.45	5' 2	877.45'	170	sks
ns (ft)	NA							1	
):	NA								
DATA	* WATERFLOOD INJE	CTOR	_						
Final open flo Time of ope	low * N ow * N en flow between initial as	ACF/d ACF/d nd fin	al tests	Initia Fina s	al open flo	ow ow		*	Bbl/d Bbl/d
ock pressure	p	sig (si	urface	pres	ssure)	anter			Hours
Initial open floring Final open floring	low N	ACF/d]	Initia Fina	al open fl	ow			Bbl/d Bbl/d
ock pressure	p	sig (s	urface	pres	ssure)	after			Hours
IG, PHYSICAL C ECORD OF ALL	HANGE, ETC. 2) THE WELL	LOG V	VHICH	IS A	SYSTEMA	ATIC DE	TAILED	CTURING	
e of Oil & C	as For: EAST R	ESOU	RCES	, IN	C. (7)	/1	1 11	·	
UG 0 8 2011	By: Date:				2	5/	12/10		
	Elevation: District: Latitude: Longitude: EAST RESO P.O. BOX 55 VIENNA, W PHILIP S. Of DAVID SCR menced: spleted: gted on: Cable et) ths (ft) DATA ing formation Initial open floring open floring open floring for many open floring for many open floring open flor	Elevation: 963' District: GREEN Latitude: 6,625 Feet south of Longitude: 9,650 Feet west of EAST RESOURCES, INC. P.O. BOX 5519 VIENNA, WV 26105-5519 PHILIP S. ONDRUSEK DAVID SCRANAGE 12/30/09 menced: 03/25/10 ppleted: 03/26/10 Steed on: Cable Rig Et) 2942' ths (ft) NA Inced in area (Y/N) N DATA *WATERFLOOD INJE AS (Final open flow * N Time of open flow between initial at ock pressure producing formation Initial open flow Final open flow Time of open flow between initial at ock pressure producing formation Initial open flow Time of open flow between initial at ock pressure producing formation Initial open flow Time of open flow between initial at ock pressure producing formation Initial open flow Time of open flow between initial at ock pressure producing formation Initial open flow Time of open flow between initial at ock pressure producing formation Initial open flow Time of open flow between initial at ock pressure producing formation Initial open flow Time of open flow between initial at ock pressure producing formation Initial open flow Time of open flow between initial at ock pressure producing formation Initial open flow Time of open flow between initial at ock pressure producing formation Initial open flow Time of open flow between initial at ock pressure producing formation Initial open flow Time of open flow between initial at ock pressure producing formation Initial open flow Time of open flow between initial at ock pressure producing formation Initial open flow Initial open f	Elevation: 963' Quan District: GREEN Coun Latitude: 6,625 Feet south of 39 Longitude: 9,650 Feet west of 80 EAST RESOURCES, INC. P.O. BOX 5519 VIENNA, WV 26105-5519 PHILIP S. ONDRUSEK DAVID SCRANAGE 12/30/09 menced: 03/25/10 mpleted: 03/26/10 Green Rig et) 2942' ths (ft) NA DATA *WATERFLOOD INJECTOR ing formation Gordon Initial open flow *MCF/d Final open flow *MCF/d Time of open flow between initial and finock pressure producing formation Initial open flow Final open flow Time of open flow between initial and finock pressure producing formation Initial open flow MCF/d Time of open flow between initial and finock pressure producing formation Initial open flow Time of open flow between initial and finock pressure producing formation Initial open flow Time of open flow between initial and finock pressure psig (story Producing formation Initial open flow Time of open flow between initial and finock pressure psig (story Pressure psig (stor	Elevation: 963' Quadrangle District: GREEN County: Latitude: 6,625 Feet south of 39 Deg Longitude: 9,650 Feet west of 80 Deg EAST RESOURCES, INC. P.O. BOX 5519 VIENNA, WV 26105-5519 PHILIP S. ONDRUSEK DAVID SCRANAGE 12/30/09 Intenced: 03/25/10 Intel on: 03/25/10 Intel on: 03/25/10 Intel on: 03/25/10 Intel on: 03/25/10 Intel on: 03/25/10 Intel on: 03/25/10 Intel on: 03/25/10 Intel on: 03/25/10 Intel on: 03/25/10 Intel on: 03/25/10 Intel on: 03/25/10 Intel on: 03/25/10 Intel on: 03/25/10 Intel on: 03/25/10 Intel on: 03/25/10 Intel on: 03/25/10 Intel on: 03/25/10 Intel on: 03/25/10 Intel on: 04/25/10 Intel on: 05/25/	Elevation: 963' Quadrangle: District: GREEN County: WE'. Latitude: 6,625 Feet south of 39 Deg 30 Longitude: 9,650 Feet west of 80 Deg 40 EAST RESOURCES, INC. P.O. BOX 5519 VIENNA, WV 26105-5519 PHILIP S. ONDRUSEK DAVID SCRANAGE 12/30/09 Interfect Office Offi	District: GREEN County: WETZEL Latitude: 6,625 Feet south of 39 Deg 30 Min 0 Longitude: 9,650 Feet west of 80 Deg 40 Min 0 EAST RESOURCES, INC. P.O. BOX 5519 VIENNA, WV 26105-5519 PHILIP S. ONDRUSEK DAVID SCRANAGE 12/30/09 Interected: 03/25/10 Interected: 03/25/10 Interected: 03/26	WV PUBLIC LAND CORP. Operator Well No.: FLUHART Elevation: 963' Quadrangle: CENTERPOINT County: WETZEL Latitude: 6,625 Feet south of 39 Deg 30 Min 0 Sec. Longitude: 9,650 Feet west of 80 Deg 40 Min 0 Sec. BAST RESOURCES, INC. P.O. BOX 5519 VIENNA, WV 26105-5519 PHILIP S. ONDRUSEK DAVID SCRANAGE 12/30/09 Intenced: 03/25/10 Inted on: Cable Rig Sit) 2942' ths (ft) NA Inced in area (Y/N) N Interest of the second of	Elevation: 963' Quadrangle: CENTERPOINT 7.5' District: GREEN County: WETZEL Latitude: 6,625 Feet south of 39 Deg 30 Min 0 Sec. Longitude: 9,650 Feet west of 80 Deg 40 Min 0 Sec. EAST RESOURCES, INC. P.O. BOX 5519 VIENNA, WV 26105-5519 PHILIP S. ONDRUSEK DAVID SCRANAGE 12/30/09 Intenced: 03/25/10 Intel on: Cable Rig 85/8" 219' 219' Ith s(ft) NA Intel in area (Y/N) Na DATA *WATERFLOOD INJECTOR Initial open flow A MCF/d Final open flow Final open flow Brian open flow Final open flow MCF/d Final open flow Final open flow MCF/d Final open flow Final open flow MCF/d Final open flow Final open flow MCF/d Final open flow Final open flow MCF/d Final open flow Final open flow MCF/d Final open flow Final open flow MCF/d Final open flow Final open flow MCF/d Final open flow Final open flow MCF/d Final open flow Final open flow Final open flow MCF/d Final open flo	Blevation: 963'

WV Department of Environmental Protection

Treatment:

Treated perfs. 2814'-2829' w/ 250 gals. 15% HCl acid, 329 bbls cross linked gel, and 19,000 # 20/40 sand.

Well Log:

SEE ORIGINAL WELL RECORD

RECEIVED
Office of Oil & Gas

AUG 0.8 2011

WV Department of Environmental Protection

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

4710301672

Farm name:	DREW, VIRO	GINIA FLUHARTY	Oper	ator Well	l No.: WM I	FLUHARTY	E-16
LOCATION:	Elevation:	1,416	Quad	drangle:	CENTERP	OINT	
	District: Latitude: Longitude:	GREEN 6,625 Feet south of 9,650 Feet west of		nty: WI Deg 30 Deg 40		Sec. Sec.	
Company:	P.O. BOX 55	PRODUCTS COMPANY 19 V 26105-5519		Casing & Tubing		Left in Well	Cement Fill Up Cu. Ft.
Agent:	PHILIP S. Of	NDRUSEK		Size			
Inspector: Permit Issued: Well work Com Well work Com	pleted:	7/5/95 8/9/95 10/3/95		8-5/8	219'/	0KS 12-	75 SKS
Verbal plugging permission gran Rotary X Total Depth (fee Fresh water dep	ted on: _ Cableet)2	Rig 2,942' NA		4 1/2"	2877.45'	2877.45'	170 SKS
Salt water depth	ns (ft)	NA NA					
_							
Is coal being mi Coal Depths (ft		N) NA N					
OPEN FLOW I	DATA	*Waterflood Injection W	ell				·
Gas:	ing formation Initial open florinal open floring Time of operock pressure	ow * I en flow between initial a	MCF/d MCF/d nd fin	. Fi	Pay zone of itial open flow nal open flow ressure)	<i></i>	2786-2849 * Bbl/d * Bbl/d rs * Hours
Gas:	d producing for Initial open flo Final open flo Time of oper rock pressure	lowlow between initial a	MCF/d nd fin	l Fi	Pay zone of itial open flow nal open flow ressure)	w	Bbl/d Bbl/d ars Hours
INTERVALS, LOG WHICH	FRACTURING IS A SYSTEM	FORM, PUT THE FOLLO G OR STIMULATING, PI ATIC DETAILED GEOL INTEREDBY THE WELI	HYSIC OGIC	CAL CHA AL RECO	ANGE, ETC.	2) THE W	さしし
		For: PENNZ By: Date:	ZOIL F	RODUC Junal	TS COMPA	NY	

<u>Treatment:</u>

Perforated Gordon 2820-2828 (32 Holes) Treated via 4 1/2" with 300 gals

15% HCl Acid, 152 BBLS gelled water & 15,200# 20/40 Sand

Well Log:

Sand & Shale	0	-	1273'
Sand	1273'	-	1298'
Sand & Shale	1298'	-	1764'
Sand	1764'	-	1788'
Shale	1788'	-	1926'
Sand	1926'	-	1974'
Shale	1974'	-	2027'
Sand	2027'	-	2212'
Shale	2212'	-	2786'
Gordon	2786'	-	2849'
T.D.	2942'		

07-05-95 API # 47-103-1672 S

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

Farm name:	DREW, VIRO	GINIA FLUHARTY	Oper	rator Well	No.: WM F	LUHARTY	E-16
LOCATION:	Elevation:	1,416	Quad	drangle:	CENTERP	OINT	
	District: Latitude: Longitude:	GREEN 6,625 Feet south of 9,650 Feet west of		Deg 30		Sec.	
Company:	P.O. BOX 55	PRODUCTS COMPANY 19 V 26105-5519	ľ	Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Agent:	PHILIP S. O	NDRUSEK		Size	,		
Inspector: Permit Issued:	RANDAL M	7/5/95					· .
Well work Com Well work Com Verbal plugging	npleted:	8/9/95 10/3/95		8-5/8	219'	219'	75 SKS
permission grar Rotary X Total Depth (fe	nted on: _Cable			4 1/2"	2877.45'	2877.45'	170 SKS
Fresh water dep	· · · · · · · · · · · · · · · · · · ·	NA					
Salt water dept	hs (ft)	NA				-	
Is coal being m Coal Depths (fo		/N) NA N					
OPEN FLOW	DATA	*Waterflood Injection	Well				
Gas: Static	rock pressure	ow * en flow between initial *	MCF/c MCF/c and fin	i Fin	Pay zone of tial open flow all open flow essure)	* Hou	2786-2849 * Bbl/d * Bbl/d rs * Hours
Gas:	d producing fo Initial open f Final open fl Time of op rock pressure	low	MCF/o	d Fir	tial open flow	w	Bbl/d Bbl/d ars Hours
NOTE: ON BAINTERVALS	ACK OF THIS FRACTURIN IS A SYSTEM	FORM, PUT THE FOL G OR STIMULATING, IATIC DETAILED GEO UNTEREDBY THE WE	LOWIN PHYSIO DLOGIC	G: 1) DE CAL CHA CAL RECC	TAILS OF I	2) I HE W	CLL
			NZOIL	PRODUC	TS COMPA	NY /	
		By: Date	e	Junal	8/90		

<u>Treatment:</u>

Perforated Gordon 2820-2828 (32 Holes) Treated via 4 1/2" with 300 gals 15% HCl Acid, 152 BBLS gelled water & 15,200# 20/40 Sand

Well Log:

Sand & Shale	0	-	1273'
Sand	1273'	-	1298'
Sand & Shale	1298'	-	1764'
Sand	1764'	-	1788'
Shale	1788'	-	1926'
Sand	1926'	-	1974'
Shale	1974'	-	2027'
Sand	2027'	-	2212'
Shale	2212'	-	2786'
Gordon	2786'	-	2849'
T.D.	2942'		

WVGES O&G Record Reporting System 4710301673



Select County: (103) Wetzel Select datatypes: \Box (Check All) Location Production Plugging Enter Permit #: 1673 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

<u>Jsage Notes</u> Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 103 Permit = 1673 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:51:21 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4710301673 | Wetzel | 1673 | Green | Center Point | Centerpoint | 39.486274 | -80.700486 | 525757 | 4370784

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
4710301673	10/18/1995	Original Loc	Completed	Yellow House Sports Club	E-18	J K Fluharty	2831-00	Pennzoil Products Co et al	Pennzoil Products Company	
4710301673	3/21/2014	Worked Over	Completed	Yellow House Sportman's Club	E-18	J K Fluharty	Fee 2831-00	H G Energy LLC	HG Energy, LLC	3262 Gordon
4710301673	-/-/-	Worked Over	Cancelled	Yellow House Sportsmans Club	E-18	JK Fluharty	Fee 2831-00	East Resources Inc et al	East Resources, Inc.	3262 Gordon

Completion Information

Completion	i iiiioiiiiati	, i i i i															
API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_	FMT I	NITIAL_C	LASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD NEW_FTG KOD	G_BEF G_
4710301673	10/18/1995	7/25/1995	1268	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	5	Service We	ell	Unsuccessful	Water Injection	Rotary	Acid+Frac	3262	3262	0
4710301673	3/21/2014	12/9/2013	1268	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	5	Service We	ell	Unsuccessful	Water Injection	Rotary	Fractured	3262	0	
4710301673	-/-/-	-/-/-	1268	Ground Level								not available	unknown	unknown			

Comment: 3/21/2014 No open flow data reported

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
4710301673	10/18/1995	Water Flood	Injection	Vertical	;	3124	Gordon	3132	Gordon	0	0				
4710301673	3/21/2014	Water Flood	Injection	Vertical	:	3122	Gordon	3136	Gordon						

There is no Production Gas data for this well

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

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
4710301673	Original Loc	Gordon	Well Record	3093	Reasonable	62	Reasonable	1268	Ground Level

Wireline (E-Log) Information:

* There is no Scanned/Raster Log data for this well

* There is no Digitized/LAS Log data for this well

* There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

There is no Sample data for this well

WR-35 Rev. 8/23/13



State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

API <u>47</u> 103 - 01673 County WETZE	L District	GREEN	
Quad CENTERPOINT 7.5' Pad Name J.K. F	FLUHARTY Field/Po	ol Name STRINGTOW	N
Farm name_YELLOW HOUSE SPORTS CLUB	Well N		
Operator (as registered with the OOG) H.G. ENERGY LL	С		
Address 5260 DuPONT ROAD City PA	RKERSBURG Stat		101
As Drilled location NAD 83/UTM Attach an as-drilled Top hole Northing 4,3470,784 M Landing Point of Curve Northing Bottom Hole Northing	Easting	•	
Elevation (ft) 1,268' GL Type of Well	□New ■ Existing Typ	e of Report 🗆 Interim 💄	Final
Permit Type Deviated Horizontal Horizon	ntal 6A 🗂 Vertical De	pth Type 🗆 Deep	■ Shallow
Type of Operation Convert Deepen Drill	Plug Back	□ Rework ■ Stimulate	
Well Type □ Brine Disposal □ CBM □ Gas ■ Oil ■ Sec	condary Recovery	lining □ Storage □ Othe	er
Type of Completion ■ Single □ Multiple Fluids Produ Drilled with □ Cable ■ Rotary			
Drilling Media Surface hole □ Air □ Mud □ Fresh Water □ Brine	ter Intermediat R	CEIMED - Fresh Wa	ter 🗆 Brine
Mud Type(s) and Additive(s) N/A	00[U Z 2014	
	Enviro Dep	artment of	
Date permit issued 10/25/13 Date drilling comm	menced N/A I	ate drilling celicin	N/A
Date completion activities began12/9/13			
Verbal plugging (Y/N) N Date permission grante	d Gran	ted by	
Please note: Operator is required to submit a plugging applic	ation within 5 days of verbal pe	mission to plug	
Freshwater depth(s) ft N/A	Open mine(s) (Y/N) depths	N	
Salt water depth(s) ft N/A	Void(s) encountered (Y/N) de		
Coal depth(s) ft N/A	Cavern(s) encountered (Y/N)	N.I.	
Is coal being mined in area (Y/N) N			
		Reviewe	d by:

Page 2 of 4 WR-35 Rev. 8/23/13 API 47- 103 -YELLOW HOUSE SPORTS CLUB_Well number_E-18 01673 **CASING** Basket Hole Casing Grade Did cement circulate (Y/N) New or **STRINGS** * Provide details below* Size Size Used wt/ft Depth(s) Depth Conductor Surface **EXISTING** 8 5/8" 528' **EXISTING** 20# Coal Intermediate 1 Intermediate 2 Intermediate 3 Production 4 1/2" 3231.95' **EXISTING** J-55 **EXISTING** Tubing Packer type and depth set Comment Details CEMENT WOC Class/Type Number Slurry Yield Volume Cement DATA of Cement of Sacks (ft 3/sks) $(ft^{\frac{3}{2}})$ Top (MD) wt (ppg) (hrs) Conductor Surface **EXISTING** Reg Neat 275 Coal Intermediate 1 Intermediate 2 Intermediate 3 Production **EXISTING** 50:50 Pozmix 170 Tubing Drillers TD (ft) 3262' Loggers TD (ft) N/A Deepest formation penetrated Gordon Plug back to (ft) N/A Plug back procedure N/A Kick off depth (ft) N/A Check all wireline logs run □ caliper □ density □ deviated/directional □ induction □ neutron □ resistivity ■ gamma ray □ temperature □sonic Well cored □ Yes ■ No Conventional Sidewall Were cuttings collected □ Yes ■ No DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING WAS WELL COMPLETED AS SHOT HOLE 🗆 Yes 💄 No DETAILS WAS WELL COMPLETED OPEN HOLE? **DETAILS** □ Yes ■ No WERE TRACERS USED □ Yes ■ No TYPE OF TRACER(S) USED _

WR-35 Rev. 8/23/13 Page 3 of 4

API	47- 103 _	01673	Farm name	YELLOW HOUSE SPORTS CLUB	Well number E-18
			_	***************************************	

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	12/11/13	3122'	3136'	56	GORDON
	•				

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	12/12/13	10	2341	2925	1954	8,500	278	
		· · · · · · · · · · · · · · · · · · ·						
		·						

Please insert additional pages as applicable.

WR-35 Page 4 of 4 Rev. 8/23/13 API 47- 103 _ 01673 Farm name YELLOW HOUSE SPORTS CLUB Well number E-18 PRODUCING FORMATION(S) **DEPTHS** Gordon 3122'-3136' 3122'-3136' TVD MD Please insert additional pages as applicable. **GAS TEST** □ Build up □ Drawdown □ Open Flow OIL TEST | Flow | Pump Surface _____ psi Bottom Hole psi SHUT-IN PRESSURE DURATION OF TEST hrs Oil **OPEN FLOW** Gas NGL Water GAS MEASURED BY mcfpd bpd bpd bpd □ Estimated □ Orifice □ Pilot LITHOLOGY/ TOP **BOTTOM** TOP **BOTTOM FORMATION** DEPTH IN FT DEPTH IN FT DEPTH IN FT DEPTH IN FT DESCRIBE ROCK TYPE AND RECORD QUANTITY AND NAME TVD TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H2S, ETC) MD MD Sand/Shale SEE ORIGINAL WELL RECORD 0 0 Pittsburgh Coal Sand/Shale Big Lime Big Injun Shale Fifty Foot Shale Sand Shale Gordon Shale Please insert additional pages as applicable. Drilling Contractor Address City State Zip Logging Company Appalachian Well Surveys Address 10291 Ohio Ave __ Zip 43725 State OH Cambridge City Cementing Company City Address State Zip 43701 State OH Address 109 South Graham Street Zanesville City Please insert additional pages as applicable. Telephone 304-420-1107 Completed by Roger Heldman Signature Title Operations Manager Date 06/27/14

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

03-5-95 API # 47-103-1673S

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

Farm name:	YELLOW HO	OUSE SPORTS C	LUB Ope	rator Well	No.: J.K. I	FLUHARTY	Z E-18
LOCATION:	Elevation:	1,268	Qua	drangle:	CENTERF	POINT	
	District: Latitude: Longitude:	GREEN 5,050 Feet s 9,600 Feet v			TZEL Min 0 Min 0	Sec. Sec.	
Company:	P.O. BOX 55	RODUCTS COM 19 7 26105-5519	PANY	Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Agent:	PHILIP S. ON	DRUSEK		Size			
Inspector: Permit Issued: Well work Comi	RANDAL Mi	CK 5/3/95 7/25/95					
Well work Comp Verbal plugging	pleted:	10/18/95		8-5/8	528'	528'	275 SKS
permission grant Rotary Total Depth (fee Fresh water dept	Cable3	Rig ,262 NA		4 1/2"	3231.95'	3231.05'	170 SKS
Salt water depth		NA NA					
Is coal being mir Coal Depths (ft):		NA N					
OPEN FLOW D	ATA	*Waterflood Injection	ction Well				
Produci Gas:	ng formation Initial open flo Final open flov Time of open	w *	MCF/d	Oil: Initia Fina	Pay zone do al open flow a lope	·	3093-3155 * Bbl/d Bbl/d
Static ro	ock pressure	*		rface pres	sure)		Hours
Gas:	producing form Initial open flow Final open flow Time of open tock pressure	w 5	MCF/d and fina	Oil: Initia Final	Pay zone de la open flow sure)	Hour after RECE	WETHours
NOTE: ON BAC INTERVALS, F LOG WHICH IS INCLUDING CO	CK OF THIS FOR RACTURING A SYSTEMA DAL ENCOUN	ORM, PUT THE FOR STIMULATING DETAILED OF THE	FOLLOWING NG, PHYSICA GEOLOGICA WELLBORE.	: 1) DETA AL CHANG L RECOR	GE, ETC. 2 D OF ALL	RFORATE C) THE WEI FORMATION	DNS,
		For: P	ENNZOIL PR By: Date:	100 UCIS 12/2/46	COMPAN	Y ^{nmentar}	ment of Protection

Treatment:

Perforated Gordon 3124'-3132' (32 Holes) Treated Via 4 1/2 CSG with 300 Gal 15% HCl Acid, 272 BBL Gelled Water & 15,000 LB 20/40 Sand.

Well Log:

Sand & Shale	0	-	1564'
Sand	1564'	-	1648'
Shale	1648'	-	1660'
Sand	1660'	-	1712'
Sand & Shale	1712'	-	2227'
Sand	2227'	-	2276'
Sand & Shale	2276'	-	2238'
Sand	2238'	-	2516'
Sand & Shale	2516'	-	3093'
Gordon	3093'	-	3155'
T.D.	3262'		

Received

SEP 25 2013

Office of Oil and Gas Protection

Office of Oil and Gas Protection

Wy Dept. of Environmental Protection

WVGES O&G Record Reporting System 4710301675



Select County: (103) Wetzel Select datatypes: (Check All) Production Plugging Location Enter Permit #: 1675 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

Usage Notes Contact Information Disclaimer

WV Geological & Economic Survey:

Well: County = 103 Permit = 1675 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:52:15 AM

Location Information: View Map

| API | COUNTY PERMIT TAX DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4710301675 | Wetzel | 1675 | Green | Center Point | Centerpoint | 39.48268 | -80.693062 | 526396.8 | 4370387.3 |

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE
4710301675 7/5/1996 Original Loc Completed Pig & A Poke Inc G-17 Henry Fluharty LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_PR 57197-00 Pennzoil Products Co Pennzoil Products Company

Completion Information:

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
 DEEPEST_FM
 DEEPES

 4710301675
 7/5/1996
 7/27/1995
 1243
 Ground Level Jksnbg-Strngtwn
 Hampshire Grp
 Gordon
 DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AFT Unsuccessful Water Injection Rotary Acid+Frac Service Well 3255 3255

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 4710301675 7/5/1996 Horizon Injection Vertical 3118 Gordon 3128 Gordon 0 0

There is no Production Gas data for this well

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

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 FN FM FM_QUALITY DEPTH_TOP DEPTH_QUALITY THICKNESS THICKNESS_QUALITY ELEV DATUM API SUFFIX FM FM_QUALITY 4710301675 Original Loc Gordon Well Record 3090 Reasonable 65 Reasonable 1243 Ground Level

Wireline (E-Log) Information:

* There is no Scanned/Raster Log data for this well

- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

There is no Sample data for this well

HECEIVED
WW Division of
Environmental Protection

State of West Virginia NOV 19 1996

API#

3-May-95 47 -103- 1675

Division of Environmental Protection Section of Oil and Gas

4710301675

Permitting Office of Oil & Ca

Well Operator's Report of Well Work

Farm name:	Pig in a Poke	e, Inc.		Operator Well	No.: Henry Fluharty G-17
LOCATION:	Elevation:	1,127.00	l a	Ouadrangle:	Center Point

os os ું 7/૫ક County: Wetzel District: Green Latitude:

6,300 Feet south of 39 Deg 30 Min Sec. 0 Longitude: 7,500 Feet west of 80 Deg 40 Min 0 Sec.

Company: PENNZOIL PRODUCTS COMPANY

7/5/96

P.O. BOX 5519

VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: Randal Mick Permit Issued: 5/3/95 Well work Commenced: 7/27/95

Well work Completed: Verbal plugging

permission granted on:

Rotary Cable Rig

Total Depth (feet) 3255 Fresh water depths (ft) NA

Salt water depths (ft) NA

Is coal being mined in area (Y/N) N Coal Depths (ft): NA

Casing &	Used in	Left	Cement Fill Up				
Tubing	Drilling	in Well	Cu. Ft.				
Size							
1							
8 5/8"	524'	524'	160 Sacks				
4 1/2"	3201.75'	3201.75'	170 Sacks				
<u></u>							

*Well was drilled as a water injection well. No open-flow data was obtained

Produc	ing formation		Gord	lon	Pay zoi	ne depth (ft)		3090-3155
Gas:	Initial open flow		*	MCF/d	Oil: Initial open	flow	*	Bbl/d
	Final open flow		*	MCF/d	Final open f		*	Bbl/d
	Time of open flo	w between	initial	and final	tests	*	Hours	
Static r	ock pressure	_	*	_psig (su	rface pressure)	after		Hours
Second	producing formation	n			Pay zoi	ne depth (ft)		
Gas:	Initial open flow			MCF/d	Oil: Initial open	flow	•••	Bbl/d
	Final open flow			MCF/d	Final open f			Bbl/d
	Time of open flo	w between	initial	and final	tests		Hours	
Static r	ock pressure			_psig (su	rface 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 PRO By:

Date:

NOV 2 2 1995

me of its

on Water!

Treatment:

Perforations: 3118-3128 - 4 holes/ft. (40 holes)

makember di kebaba pak akarib keresahili di

one of the first of the contracting the

wa or sol do

Connector

Teatment:

Treated via 4.5" Casing with 300 gals. mud acid, 184 bbls. gelled water and 2,300 lbs. of 20/40 sand.

Well Log:

damin's Sindill.

ooliavs48

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Sand & Shale			
Sand	1582	-	1638
Shale	1638	-	1664
Sand	1664	-	1700
Sand & Shale	1700	-	2232
Sand	2232	_	2243
Shale	2243		2259
Sand	2259	-	2280
Shale	2280	-	2331
Sand Joyum?	2331	_'	2523
Shale	2523	-	3090
Gordon	3090	-	3155
TD	3255		

WVGES O&G Record Reporting System 4710301677



Select County: (103) Wetzel Select datatypes: (Check All) Production Plugging Location Enter Permit #: 1677 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Logs ✓ Pay/Show/Water ✓ Btm Hole Loc

<u>Jsage Notes</u> Contact Information Disclaimer

WV Geological & Economic Survey:

Well: County = 103 Permit = 1677 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:52:36 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4710301677 | Wetzel | 1677 | Green | Center Point | Centerpoint | 39.488481 | -80.689695 | 526684.1 | 4371032 |

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE
4710301677 8/18/1995 Original Loc Completed State of WV H-19 Irene Re LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLET

15634-50 Pennzoil Products Co te al Pennzoil Products Company OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_F Irene Reilly

Completion Information:

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
 DEEPEST_FM
 DEEPEST_FM
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 DEEPEST_F DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AF Unsuccessful Water Injection Rotary Acid+Frac Service Well 3385

There is no Production Gas data for this well

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

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

FM_QUALITY DEPTH_TOP DEPTH_QUALITY THICKNESS THICKNESS_QUALITY ELEV DATUM 3224 Reasonable 63 Reasonable

Wireline (E-Log) Information:

* There is no Scanned/Raster Log data for this well

- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

There is no Sample data for this well

05-31-95 API # 47-103-1677-S

APR 1 0 1996

State of West Virginia
Division of Environmental Protection 4710301677
Section of Oil and Gas

Permitting Office of Oil & Ga

	on a Gas										
Farm name:	WVA PUBL	IC LAND CORP.	(Opeı	ator V	Vell	No.:	I. RE	ILLY H-19		
LOCATION:	Elevation:	1,382		Quad	drangle	e:	CENT	ΓERF	POINT		1 40
	District: Latitude: Longitude:	GREEN 4,200 Feet so 6,550 Feet w	outh of		nty: Deg Deg	30		0	Sec.		ক বিজ্ঞান
Company:	P.O. BOX 55	PRODUCTS COM 19 V 26105-5519	PANY	•	Casi & Tub	:	Use Dril		Left in Well	Cement Fill Up Cu. Ft.	
Agent:	PHILIP S. O	NDRUSEK			Siz	ze					
Inspector: Permit Issued: Well work Com	RANDAL M	5/31/95	4 4								
Well work Com Verbal plugging	pleted:	6/25/95 8/18/95			8-5	/8	66	iO'	660'	To Surface	٠.
permission gran Rotary X Total Depth (fe Fresh water dep	_Cable et)	Rig 3,385' NA			4 1/	ź''	336	56'	3366'	170 SKS	
Salt water depth	` ,	NA									
Is coal being mi Coal Depths (ft		N) NA N								·	
OPEN FLOW I	DATA	*Waterflood Injec	ction Well								
Gas:	ing formation Initial open florinal open floring of operock pressure	ow *	MC nitial and	F/d fina		Fina	al open	i flow flow		3224-3287 * Bbl/d * Bbl/d s Hours	
Gas:	I producing for Initial open flo Final open flo Time of ope rock pressure	ow	MC nitial and	fina		Fina	al open l open	ı flow	epth (ft) Hour	Bbl/d Bbl/d rs Hours	
INTERVALS, I LOG WHICH I	FRACTURINO S A SYSTEM	FORM, PUT THE F FOR STIMULATI ATIC DETAILED (NTEREDBY THE	NG, PHY: GEOLOG	SIC. ICA	AL CE L RE(IAN	GE, E	TC. 2	2) THE WE	ED LL	
	·]	PENNZOI By: Date:	L PI	KOĐU Tunga 4/	CTS Els	COM	IPAN	TY C		4

rolling.

:MOT. N. 11

Treatment: Perforated Gordon 3258-3262 (16 Holes) Treated via 4 1/2" Casing w/300 gal. 15% HCl Acid, 251 BBL gelled water & 6900# 20/40 Sand.

as thereal Intransporter to an shift

Well Log:

Sand & Shale	0	-	1710'
Sand	1710'	- ,,	1758'
Shale	1758'	-	1802'
Sand	1802'	-	1858'
Sand & Shale	1858'	-	2168'
Sand	2168'	-	2230'
Shale	2230'	-	2377'
Sand	2377'	-	2417'
Sand & Shale	2417'	-	2503
Sand Joyce	2503'	-	2654'
Shale	2654'	-	3224'
Gordon	3224'	-	3287'
T.D	3385'		

WVGES O&G Record Reporting System 4710301678



Select County: (103) Wetzel Select datatypes: (Check All) Location Production Plugging Enter Permit #: 1678 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Logs ✓ Pay/Show/Water ✓ Btm Hole Loc

Usage Notes Contact Information Disclaimer WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 103 Permit = 1678 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:53:25 AM

Location Information: View Map

There is no Bottom Hole Location data for this well

Owner Information:

STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLET COmpleted Opal Cole et al G-24 S H Wiley 2832-00 Pennzoil Products Co et al Pennzoil Products Company OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_F

 Completion Information:

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
 DEEPEST_FM
 DEEPEST_FM
 DEEPEST_FM

 4710301678
 10/27/1995
 7/6/1995
 1249
 Ground Level
 Jksnbg-Strngtwn
 Hampshire Grp
 Gordon
 DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AI Unsuccessful Water Injection Rotary Acid+Frac Service Well 3235

Pay/Show/Water Information:

There is no Production Gas data for this well

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

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:

SUFFIX FM FM_QUALITY DEPTH_TOP DEPTH_QUALITY THICKNESS THICKNESS_QUALITY ELEV DATUM API SUFFIX FM FM_QUALIT 4710301678 Original Loc Gordon Well Record

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

There is no Sample data for this well

APR 1 0 1996

State of West Virginia Division of Environmental Protection 4710301678 Section of Oil and Gas

API# 47-103-1678-S

05-03-95

Permitting Office of Oil & Gas

Farm name:	COLE, OPA	L		Ope	rator W	ell l	No.: S.H.	WILEY G-	24
LOCATION:	Elevation:	1,249	_	Qua	drangle	:	PINEGRO	VE	
	District: Latitude: Longitude:	GREEN 14,600 Feet 7,800 Feet			nty: \ Deg Deg	30		Sec.	
Company:	P.O. BOX 55	PRODUCTS CO 519 V 26105-5519	MPANY		Casii & Tubii		Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Agent:	PHILIP S. O	NDRUSEK			Size	е			
Inspector: Permit Issued: Well work Com Well work Com Verbal plugging permission gran Rotary X Total Depth (fe	npleted: g nted on: Cable et)	ICK 5/3/95 7/6/95 10/27/95 Rig 3,235' NA			8-5/		500' 3195'	500' 3195'	250 SKS 170 SKS
Salt water depti		NA							
Is coal being mi Coal Depths (ft OPEN FLOW I):	ŅA		11					
Produc Gas: Static 1	cing formation Initial open floring Final open floring	ow on flow between mation	* Minitial an * ps	N ICF/d ICF/d d fina sig (s	I al tests urface	nitia Final pres		* Hou after	3068-3132 * Bbl/d * Bbl/d rs * Hours
	Final open flo Time of ope		initial an	ICF/d d fina	F al tests	Final	l open flow	Hou	Bbl/d
Static i	rock pressure		ps	sig (s	urface	pres	ssure)	after	Hours
INTERVALS, I LOG WHICH I	FRACTURING S A SYSTEM	FORM, PUT THI G OR STIMULA ATIC DETAILE NTEREDBY TH	TING, PH D GEOLO	YSIC GICA	AL CH LL REC	[AN	GE, ETC.	2) THE WE	ELL
		For:	By: Date:		RØDU m el	CTS	COMBAN	Ž	<u> </u>
				·	. ,				

Treatment: Perforated Gordon 3097-3103 & 3110-3114 (40 Holes) Treated via 4 1/2" CSG 300 gal 15% HCl Acid, 273 BBL gelled water & 15,600 LB 20/40 Sand.

Well Log:

Sand & Shale	0	-	1462'
Sand	1462'	- , '	1486'
Shale	1486'	-	1550'
Sand	1550'	-	1588'
Sand & Shale	1588'	-	2209'
Sand	2209'	-	2242'
Shale	2242'	-	2250'
Sand	2250'	-	2322'
Sand Britan Call	2322'	-	2425'
Shale	2425'	-	3068'
Gordon	3068'	-	3132'

T.D 3235'

113 6

WVGES O&G Record Reporting System 4710301679



Select County: (103) Wetzel Select datatypes: \Box (Check All) Location Production Plugging Enter Permit #: 1679 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

Usage Notes Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 103 Permit = 1679 Link to all digital records for well

Report Time: Thursday, November 30, 2023 10:54:22 AM

Location Information: View Map

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_	NUM (O_NUN	I LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_
4710301679	3/29/1996	Original Loc	Completed	Elza & Joyce Anderson	H-25			J Wiley	47250-00	Pennzoil Products Co et	al Pennzoil Products Company
4710301679	3/10/2003	Worked Over	Completed	Timmy A Morris		H	I-25	Jacob E Wiley	/	East Resource	East Resources, Inc.

Completion Information:

- [2	API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST	FMT II	NITIAL_CL	ASS FIN	IAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD NEW_FTG	KOD G_BEF G_AF
4	4710301679	3/29/1996	7/21/1995	1299	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	S	Service Well	l Un	successful	Water Injection	Rotary	Acid+Frac	3279	3279	9 0
4	4710301679	3/10/2003	3/6/2003	1299	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	S	Service Well	l Un	successful	Gas	Rotary	Acid+Frac	3279	()

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
4710301679	3/29/1996	Horizon	Injection	Vertical	3160	Gordon	3165	Gordon	_ 0	_ 0				
4710301679	3/10/2003	Horizon	Injection	Vertical	3126	Gordon	3101	Gordon						

There is no Production Gas data for this well

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

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
4710301679	Original Loc	Gordon	Well Record	3126	Reasonable	75	Reasonable	1299	Ground Level

- Wireline (E-Log) Information:
 * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

There is no Sample data for this well

API#

47 103

7-Feb-03 103 01679

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

fa &

MAR 2 8 2003

Farm name:	MORRIS, T	IMMY A.	Oper	ator Well	No.: J. E. '	WILEY H-25	RECEIVED
LOCATION:	Elevation:	1,299.00	Ouac	irangle:	PINEGRO	VE	Office of the o
	District: Latitude: Longitude:	GREEN 13,150 Feet south 6,450 Feet west of	Cour of 39	nty: WE' Deg 30 Deg 40	TZEL Min 0	Sec.	MAR 14 200 WV Department Environmental Prote
Company:	P.O. BOX 55	OURCES, INC. 519 V 26105-5519		Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Agent:	MICHAEL N	MCCOWN		Size			
Inspector: Permit Issued Well work Co		ERWOOD 02/07/03 03/06/03					
Well work Co Verbal plugg	ompleted: ing	03/10/03		8 5/8"	568.00	568.00	230 sks
permission gr Rotary X Total Depth (Fresh water of	Cable feet)	Rig 3,279		4 1/2"	3212.00'	3212.00'	170 sks
	• ()	NA					
Salt water de	pths (ft)	NA					
Is coal being Coal Depths	mined in area (Y (ft):	/N) <u>NA</u>					
OPEN FLOV	V DATA						
Duad		erflood injection well	1		D 1	4 (0)	
Gas:	ucing formation Initial open f	Gord *		Oil: Initi	Pay zone d al open flov		3126-3191 * Ph1/d
Gus.	Final open fl		-MCF/d		al open flow		* Bbl/d * Bbl/d
		en flow between initial			a open non	Hours	
Stati	c rock pressure			ırface pres	ssure)	after	Hours
Seco	and producing for	rmation			Pay zone d	enth (ft)	
Gas:			MCF/d	Oil: Initi	al open flov		Bbl/d
	Final open fl	ow	MCF/d		l open flow		Bbl/d
	Time of ope	en flow between initial	and fina		1	Hours	
Stati	c rock pressure		_psig (sı	irface pres	ssure)	after	Hours
OR STIMULAT	TING, PHYSICAL (M, PUT THE FOLLOWING: CHANGE, ETC. 2) THE WE FORMATIONS, INCLUDIN	ELL LOG W	VHICH IS A	SYSTEMAT	IC DETAILED	CTURING
		, 					
		For: EAST	Γ RESOU	RCES, IN	C,/		
		By:	<u></u>	Jer,	Ma		
		Date	:	IJ	5/	11/13	

Treatment:

Treated Gordon perforations 3160'-3165' with 250 gals 15% HCL, 284 bbls Crosslinked gel water and 15,200# 20/40 sand

Well Log See original well log

WR-35

RECEIVED
W Division of
Environmental Protection

$4710301679_{API\ \#\ 47-103-1679-S}^{\ 05-03-95}$

APR 1 0 1996

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

Permitting Office of Oil & Gas

Farm name:	ANDERSON	, ELZA & JOY	CE	Oper	ator Well 1	No.: J.A. V	VILEY H-2	5
LOCATION:	Elevation:	1,299		Quac	lrangle:	PINEGRO	VE	
	District: Latitude: Longitude:	GREEN 13,150 Fee 6,450 Fee	et south of et west of		nty: WET Deg 30 Deg 40		Sec.	
Company:	P.O. BOX 55	PRODUCTS CO 19 V 26105-5519	OMPANY		Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Agent:	PHILIP S. ON	NDRUSEK			Size			
Inspector: Permit Issued: Well work Com	RANDAL MI	CK 5/3/95 7/21/95						
Well work Com Verbal plugging permission gran	pleted:	3/29/96	· · · · · · · · · · · · · · · · · · ·		8-5/8	568'	568'	230 SKS
Rotary X Total Depth (fee Fresh water dep	Cable3	Rig 5,279' NA			4 1/2"	3212'	3212'	170 SKS
Salt water depth		NA						
Is coal being min Coal Depths (ft)	•	N) NA N	1					
OPEN FLOW D	OATA	*Waterflood I	njection We	ell				7
Gas:	ing formation Initial open flo Final open flo Time of open	ow	GORDON * M * M n initial an	N ICF/d ICF/d d fina	Oil: Initia Fina 1 tests	Pay zone dal open flow	* Hour	
	ock pressure		*ps	sig (su	irface pres	ssure)	after	* Hours
Second Gas:	producing form Initial open flo Final open flo Time of open	ow		ICF/d	Oil: Initia Fina	Pay zone d al open flow l open flow		Bbl/d Bbl/d
Static r	ock pressure				rface pres	ssure)	after	Hours
NOTE: ON BAC INTERVALS, F LOG WHICH IS INCLUDING C	FRACTURING S A SYSTEMA	OR STIMULA TIC DETAILE	ATING, PH ED GEOLO	YSICA GICA	AL CHAN L RECOR	GE, ETC.	2) THE WE	LL
		For	r: PENNZO By: Date:		MODUCTS	COMPAN		

Treatment: Perforated Gordon 3760-3765 (20 Holes) Treated via 4 1/2" CSG 15% HCl, 222 BBL gelled water & 13,000 LBS 20/40 Sand.

Well Log:

Sand & Shale	0	-	1595'
Sand	1595'		1636'
Shale	1636'	-	1694'
Sand	1694'	-	1798'
Sand & Shale	1798'	-	2072'
Sand	2072'	-	2107'
Shale	2107'	-	2264'
Sand & Shale	2264'	-	2378'
Sand Charles to the	2378'	-	2546'
Shale	2546'	-	3126'
Gordon	3126'	-	3901 3201?

T.D 3279'



Select County: (103) Wetzel	~	➤ Select datatypes: ☐ (Check All)							
Enter Permit #: 1692		Location	Production	Plugging					
Get Data Reset		Owner/Completion	Stratigraphy	✓ Sample					
Get Data Reset		✓ Pay/Show/Water	Logs	Btm Hole Loc					

able Descriptions
county Code Translations
ermit-Numbering Series
sage Notes
contact Information
disclaimer
VVGES Main
Dipoline-Plus"

WV Geological & Economic Survey:

Well: County = 103 Permit = 1692 Link to all digital records for well

Report Time: Thursday, November 30, 2023 11:00:25 AM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4710301692	Wetzel	1692	Green	Center Point	Centerpoint	39.487175	-80.696806	526073.1	4370885.1

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM CO_NUM	1 LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION P	ROP_VD PROP_TRGT_FM
4710301692	10/18/1995	Original Loc	Completed	Richard Heimbrod	F-18B	David M Cunningham	47271-00	Pennzoil Products Co et al	Pennzoil Products Company	
4710301692	1/9/2004	Worked Over	Completed	Richard Heimbrod	F-18B	David M Cunningham	47271-00	East Resources et al	East Resources, Inc.	
4710301692	3/26/2010	Worked Over	Completed	Richard Heimbrod	F-18B	David M Cunningham	47271-00	East Resources Inc et al	East Resources, Inc.	2911 Gordon

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FM1	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	MD NEW_FTG H	OD G_BEF G_AI
4710301692	10/18/1995	8/18/1995	915	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2911	2911	0
4710301692	1/9/2004	1/7/2004	915	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2911	0	0
4710301692	3/26/2010	3/25/2010	915	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2911	0	

Comment: 1/9/2004 water injection well

Pay/Show/Water Information:

,														
API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TO	P FM_TO	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER	QNTY
4710301692	10/18/1995	Water Flood	Injection	Vertical	278	31 Gordon	2789	Gordon	0	0				
4710301692	3/26/2010	Water Flood	Injection	Vertical	278	31 Gordon	2789	Gordon						
4710301692	1/9/2004	Water Flood	Injection	Vertical	278	31 Gordon	2789	Gordon						

There is no Production Gas data for this well

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

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		
4710301692	Original Loc	Gordon	Well Record	2746	Reasonable	64	Reasonable	915	Ground Level		

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

There is no Sample data for this well

API#

1/4/2010 47 103 01692 F

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



Well Operator's Report of Well Work

		wen Operator s.	Keborr or Men	AA OLK		
Farm name:	HEIMBROD	, RICHARD	Operator Well	No.: D. M.	. CUNNINGH	AM F-18-B
LOCATION:	Elevation:	915'	Quadrangle:	CENTERP	OINT 7.5'	
	District: Latitude: Longitude:	GREEN 4,725 Feet south of 8,575 Feet west of	County: WE 39 Deg 30 80 Deg 40		Sec.	
Company:	P.O. BOX 55	URCES, INC. 19 V 26105-5519	Casing Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Agent:	PHILIP S. O	NDRUSEK				
Inspector: Permit Issued: Well work Com Well work Com Verbal plugging	npleted:	ANAGE 01/04/10 03/25/10 03/26/10				
permission gran Rotary X Total Depth (fee Fresh water dep	_Cable et)	Rig 2911 270	8 5/8"	306'	306'	105 sks
Salt water depth	• •	NA NA	4 1/2"	2846.7'	2846.7'	170 sks
Is coal being mi Coal Depths (ff) OPEN FLOW I): 	N) NA N NA * WATERFLOOD INJEC	CTOR			
Gas: Static re	ing formation Initial open flo Final open flo Time of oper ock pressure producing for	w * M n flow between initial and ps	d final tests ig (surface pres	l open flow	Hours after	2781'-2789' * Bbl/d * Bbl/d Hours
Gas:	Initial open flo Final open flo	w Men Mon Mon flow between initial and	CF/d Oil: Initia CF/d Fina	al open flow l open flow		Bbl/d Bbl/d Hours
OR STIMULATING	G, PHYSICAL CI	PUT THE FOLLOWING: 1) D HANGE, ETC. 2) THE WELL I FORMATIONS, INCLUDING C	LOG WHICH IS A	SYSTEMATIC	C DETAILED	TURING
Of	RECEIVE fice of Oil 8 AUG 0 8 20	By:	SOURCES, INC	C. Du	Seldr (12/10	

WV Department of Environmental Protection

Treatment:

Treated perfs. 2781'-2789' w/ 250 gals. 15% HCl acid, 387 bbls cross linked gel, and 25,200 # 20/40 sand.

Well Log:

SEE ORIGINAL WELL RECORD

RECEIVED
Office of Oil & Gas

AUG 0 8 2011

WV Department of Environmental Protection

API#

28-Sep-95 F 47-103-1692S

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

		Well Operator's Re	port of	Well Wo	rk		
Farm name:	HEIMBROD,	RICHARD	Oper	ator Well I	No.: D. CU	ININGHAM	F-18B
LOCATION:	Elevation:	915.00	Quad	lrangle:	CENTERP	OINT	
	District: Latitude: Longitude:	GREEN 4,700 Feet south of 8,600 Feet west of		nty: WET Deg 30 Deg 40		Sec. Sec.	
Company:	P.O. BOX 551	RODUCTS COMPANY 19 7 26105-5519		Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Agent:	PHILIP S. ON	IDRUSEK		Size	i	1	
Inspector: Permit Issued:	RANDAL MI	9/9/94	•				
Well work Con Well work Con	npleted:	8/18/95 10/18/95		8 5/8"	306'	306'	105 SKS
Verbal plugging permission gran Rotary X Total Depth (for Fresh water de	nted on: Cable eet)	Rig 2911' 270'		4 1/2"	2846.7'	2846.7'	170 SKS
Salt water dept	ths (ft)	NA					
Is coal being m Coal Depths (f	nined in area (Y/	N) N					
OPEN FLOW	DATA	* Water Injection Well			ENED G	as lepth (ft)	2746'-2810'
Produ Gas:	cing formation Initial open flo Final open flo Time of ope	Gordon ow * ow * n flow between initial a	MCF/d	Oil Init	aboben flow	<i>}</i> 9 / *	Bbl/d
Static	rock pressure	*	psig (s	surface pre	Environmente	anter	Hours
Secon	nd producing for	mation			Pay zone of ial open flow	iepin (11)	Bbl/d
Gas:	Initial open flor Final open flor		MCF/c	Fin:	al open flow	·	Bbl/d
	Time of ope	n flow between initial a	nd fina	al tests	<u>,——</u>	Hou	rs C Hours
	rock pressure		psig (s	surface pre		after	-0/20/0//si
INTERVALS	, FRACTURINO	FORM, PUT THE FOLLO GOR STIMULATING, P ATIC DETAILED GEOL INTEREDBY THE WELL	OGIC/	AL CHAN AL RECOR	GE, ETC.	2) 1114 112	$DD \cdot U \cdot U \cdot U \cap U \cap U$

For: PENNZOIL PRODUCTS COMPANY

Date.

Treatment:

Perforated Gordon 2781-2789 (32 Holes) Treated Via 4 1/2" with 300 gal 15% HCl Acid, 230 BBL gelled water & 10,700# of 20/40 sand.

Well Log:

T.D.

0	_	1045'
1045'	_	1068'
1068'	-	1112'
1112'	-	1152'
1152'	-	1884'
1884'	-	1896'
1896'	-	1910'
1910'	-	1942'
1942'	_	1982'
1982'	-	2127'
2127'	-	2746'
2746'	-	2810'
	1045' 1068' 1112' 1152' 1884' 1896' 1910' 1942' 1982' 2127'	1045' - 1068' - 1112' - 1152' - 1884' - 1896' - 1910' - 1942' - 1982' - 2127' -

2911'

$\mathsf{WVGES}\ \mathsf{O\&G}\ \mathsf{Record}\ \mathsf{Reporting}\ \mathsf{System} \\ \mathbf{4710301693}$



Select datatypes: \Box (Check All) Select County: (103) Wetzel Production Plugging Location Enter Permit #: 1693 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ✓ Pay/Show/Water Logs Btm Hole Loc

Usage Notes Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 103 Permit = 1693 Link to all digital records for well

Report Time: Thursday, November 30, 2023 11:01:12 AM

Location Information: View Map

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE_OWNI 4710301693 9/3/1996 Original Loc Completed Patrick & Lori Ice STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLET
16103-50 Pennzoil Products Co et al Pennzoil Products Company OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_F L J Fluharty

Completion Information:

DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AFT Unsuccessful Water Injection Rotary Acid+Frac Service Well 2925 2925

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 4710301693 9/3/1996 Horizon Injection Vertical 2790 Gordon 2796 Gordon 0 0

There is no Production Gas data for this well

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

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:

o a aag.ap	,	0111							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4710301693	Original Loc	unidentified coal	Well Record	203	Reasonable	7	Reasonable	964	Ground Level
4710301693	Original Loc	Big Lime	Well Record	1909	Reasonable	55	Reasonable	964	Ground Level
4710301693	Original Loc	Big Injun (Price&eq)	Well Record	1964	Reasonable	208	Reasonable	964	Ground Level
4710301693	Original Loc	Gordon	Well Record	2778	Reasonable	19	Reasonable	964	Ground Level

- Wireline (E-Log) Information:
 * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

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

4710301693

	Unice of Oil	∂ Ges W	'ell Operator's I	Repor	t of Well V	Vork		
Farm name:	Ice,Patrick &			Ope	rator Well	No.: L.J. F	luharty F-29	
LOCATION:	Elevation:	964.00'		Qua	drangle:	Pine Grove		
•	District: Latitude: Longitude:	Green 8950' 8650'	Feet south of Feet west of		nty: Wet Deg 32 Deg 40	Min 30	Sec.	
Company:	PENNZOIL P.O. BOX 5: VIENNA, W	519	S COMPANY		Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Agent:	PHILIP S. O	NDRUSE	ζ		Size			
Inspector: Permit Issued:	Randal Mick	3/4/			8 5/8"	263'	263'	155 Sacks
Well work Con Well work Con Verbal plugging	npleted: g	6/1/ 9/3/			4 1/2"	3006.35	3006.35'	275 Sacks
permission gran Rotary X Total Depth (for Fresh water dep	Cable eet)	Rig 2925' NA						
Salt water dept	hs (ft)	NA	-					
Is coal being m Coal Depths (fi		/N) 203-	N 210					
OPEN FLOW	DATA	*Well w	as drilled as a wa	aterflo	od injection	n well. No o	pen-flow data v	vas obtained
Gas:	rock pressure	ow en flow be	* N tween initial an	ACF/d ACF/d ad fina	Fina	·	* Hours	2778-2797 * Bbl/d * Bbl/d Hours
Gas:	d producing for Initial open for Final open flow Time of oper rock pressure	low ow	N tween initial an	ACF/d Id fina	Fina	Pay zone do al open flow l open flow ssure)	Hours	Bbl/d Bbl/d Hours
NOTE: ON BACH OR STIMULATII	- C OF THIS FORM NG, PHYSICAL C	CHANGE, E	FOLLOWING: 1) TC. 2) THE WELL ONS, INCLUDING	DETAI LOG V COAL	LS OF PERI WHICH IS A ENCOUNTI	FORATED IN SYSTEMAT ERED BY THI	TERVALS, FRAC IC DETAILED E WELLBORE.	
			For: PENNZO By: Date:	OIL PI	ROBUCIE	COMPAN	Y	

Treatment:

Perforations:

2790' - 2796' - 6 holes/ft. (36 holes)

Teatment:

Treated via 4.5" Casing with 300 gals. 15% HCl, 220 bbls. Borate cross-linked gelled water and 12,400 lbs. of 20/40 sand.

Well Log:

TD - 2925

Sand & Shale	0	-	203
Coal	203	-	210
Shale	210	-	532
Sand	532	•	586
Shale	586	-	810
Sand	810	•	834
Shale	834	-	1188
Sand	1188	-	1258
Shale	1258	-	1446
Sand	1446	-	1488
Shale	1488	-	1520
Sand	1520	-	1546
Shale	1546	-	1610
Sand	1610	-	1660
Shale	1660	-	1715
Sand	1715	-	1732
Shale	1732	-	1909
Big Lime	1909	-	1964
Big Injun	1964	-	2172
Shale	2172	-	2750
Sand	2750	-	2766
Shale	2766	-	2778
Gordon	2778	-	2797
Shale	2797	-	2925

$\mathsf{WVGES}\ \mathsf{O\&G}\ \mathsf{Record}\ \mathsf{Reporting}\ \mathsf{System}\ \boldsymbol{4710301694}$



Select datatypes: \Box (Check All) Select County: (103) Wetzel Production Plugging Location Enter Permit #: 1694 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

<u>Jsage Notes</u> Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 103 Permit = 1694 Link to all digital records for well

Report Time: Thursday, November 30, 2023 11:02:08 AM

Location Information: View Map

There is no Bottom Hole Location data for this well

Owner Information:

	OMB DE OUEEN	0747110	011DE4 0E 01401ED 14/EI				5555 VD 5555 TD6T FM TEM F6T F
API	CMP DT SUFFIX	STATUS	SURFACE OWNER WEL	LL NUM CO NUM LEAS	SE LEASE NUM MINERAL OWN	I OPERATOR AT COMPLETION	PROP VD PROP TRGT FM TFM EST F
4710301694	9/27/1996 Original I	aa Camplata	1 Coastal Lumber Co H-27	7 MaCa	ov Hrs 25040-50 Pennzoil Produc	ts Co et al. Pennzoil Products Company	

Completion Information:

API		SPUD_DT						IT INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD NEW_FTG KOD (G_BEF G_AF
471030169	4 9/27/1996	6/23/1996	1045	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3027	3027	0

There is no Production Gas data for this well

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

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:

o a aag.ap	.,	0111							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
471030169	Original Loc	unidentified coal	Well Record	828	Reasonable	4	Reasonable	1045	Ground Level
471030169	Original Loc	Big Lime	Well Record	2024	Reasonable	52	Reasonable	1045	Ground Level
471030169	Original Loc	Big Injun (Price&eq)	Well Record	2076	Reasonable	212	Reasonable	1045	Ground Level
471030169	Original Loc	Gordon	Well Record	2882	Reasonable	18	Reasonable	1045	Ground Level

- Wireline (E-Log) Information:
 * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

F- monodono D montal trolection JATI N 6 1997

State of West Virginia Division of Environmental Protection 4710301694

4-Mar-96 47 -103- 1694

Section of Oil and Gas

Carry C. Cil & Gas

Well Operator's Report of Well Work

Farm name:	Coastal Lumb	er Company
LOCATION:	Elevation:	1,045.00

Latitude:

Longitude:

1,045.00

District:

Green

11.200 Feet south of

6.500 Feet west of

Company: PENNZOIL PRODUCTS COMPANY P.O. BOX 5519

VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: Permit Issued:

Randal Mick

4/9/96 6/23/96

9/27/96

3027

NA

NA

828-832

Well work Commenced: Well work Completed:

Verbal plugging

permission granted or:

Rotary X Cable

Rig Total Depth (feet)

Fresh water depths (ft)

Salt water depths (ft)

Is coal being mined in area (Y/N)

Coal Depths (ft):

OPEN FLOW DATA

Gas:

Operator Well No.: McCoy Hrs. #H-27

Ouadrangle: Pine Grove

County: Wetzel

39 Deg 32 Min

30 Sec. 80 Deg 40 Min 00 Sec.

> Casing Used in Left & Tubing Drilling in Well Size 8 5/8" 307' 307

4 1/2" 2969.651

2969.65

275 Sacks

Cement

Fill Up

Cu. Ft.

175 Sacks

*Well was drilled as a waterflood injection well. No open-flow data was obtained

Producing formation

Gordon Initial open flow Final open flow

N

MCF/d Oil: Initial open flow Final open flow MCF/d

Bbl/d Bbl/d Hours

Time of open flow between initial and final tests Static rock pressure

psig (surface pressure)

Hours

Bbl/d

Bbl/d

2882-2900

Second producing formation Gas:

Final open flow

Initial open flow

MCF/d Oil: Initial open flow MCF/d Final open flow

Pay zone depth (ft)

Pay zone depth (ft)

Hours

Static rock pressure

Time of open flow between initial and final tests 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: Date:

Treatment:

Perforations:

2890' - 2896' - 4 holes/ft. (24 holes)

Teatment:

Treated via 4.5" Casing with 300 gals. 15% HCl, 222 bbls. Borate cross-linked gelled water and 13,500 lbs. of 20/40 sand.

Well Log:

TD - 3027'

•			
Sand & Shale	0	-	310
Shale	310	-	524
Sand	524	-	550
Shale	550	-	644
Sand	644	•	690
Shale	690	•	800
Sand	800	-	820
Shale	820	•	828
Coal	828	-	832
Shale	832	-	874
Sand	874	-	892
Shale	892	•	924
Sand	924	•	950
Sand & Shale	950	•	1229
Shale	1229	•	1258
Sand	1258	•	1276
Shale	1276	-	1322
Sand	1322	-	1348
Shale	1348	•	1410
Sand	1410	•	1452
Shale	1452	-	1466
Sand	1466	-	1515
Shale	1515	-	1812
Sand	1812	-	1850
Shale	1850	•	2024
Big Lime	2024	•	2076
Big Injun	2076	-	2288
Shale	2288	-	2857
Sand	2857	•	2870
Shale	2870	•	2882
Gordon	2882	•	2900
Shale	2900	-	2912
Sand	2912	•	2916
Shale	2916	•	3027



Select County: (103) Wetzel

Enter Permit #: 1695

Get Data

Select datatypes: (Check All)

Location

Owner/Completion

Production

Sample

Pay/Show/Water

Pay/Show/Water

Select Data

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

WV Geological & Economic Survey:

Well: County = 103 Permit = 1695 Link to all digital records for well

Report Time: Thursday, November 30, 2023 11:02:28 AM

Location Information: View Map

| API | COUNTY | PERMIT | TAX DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4710301695 | Wetzel | 1695 | Green | Pine Grove | Littleton | 39.51086 | -80.698501 | 525918.6 | 4373513.2 |

There is no Bottom Hole Location data for this well

Owner Information:

Ţ	API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_	NUM CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION F	ROP_VD PROP_TRGT_FM TFM_I
- 1	4710301695	7/25/1996	Original Loc	Completed	Elizabeth Miller Hrs	F-27		Eliz Miller	26804-50	Pennzoil Products Co et al	Pennzoil Products Company	
ŀ	4710301695	3/26/2010	Worked Over	Completed	Gerald E Boggs et al	F-27		Elizabeth Miller	26804-50	East Resources inc	East Resources, Inc.	3052 Gordon
Ŀ	4710301695	-/-/-	Worked Over	Cancelled	Gerald E Boggs et ux	F-27		Elizabeth Miller	26804-50	East Resources	East Resources, Inc.	

Completion Information:

Completion	minorma														
API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FN	T INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD NEW_FTG	KOD G_BEF G_AF
4710301695	7/25/1996	6/6/1996	1050	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3052	3052	0
4710301695	3/26/2010	2/2/2010	1050	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3052	0	
4710301695	-/-/-	-/-/-	1050	Ground Level						Water Injection					

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TO	OP F	M_TOP	DEPTH_BOT	FM_E	зот	G_BEF	G_AFT	O_BEF	O_AFT	WATER.	QNTY
4710301695	3/26/2010	Water Flood	Injection	Vertical	28	06 C	Gordon	2878	Gorde	on						
4710301695	7/25/1996	Water Flood	Injection	Vertical	28	88 (Sordon	2901	Gorde	on	Λ	Λ				1

There is no Production Gas data for this well

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

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:

Stratigraphy information:										
	API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
	4710301695	Original Loc	unidentified coal	Well Record	810	Reasonable	10	Reasonable	1050	Ground Level
	4710301695	Original Loc	Big Lime	Well Record	2033	Reasonable	71	Reasonable	1050	Ground Level
	4710301695	Original Loc	Big Injun (Price&eq)	Well Record	2104	Reasonable	184	Reasonable	1050	Ground Level
	4710301695	Original Loc	Gordon Stray	Well Record	2858	Reasonable	16	Reasonable	1050	Ground Level
	4710301695	Original Loc	Gordon	Well Record	2888	Reasonable	17	Reasonable	1050	Ground Level

Wireline (E-Log) Information:

There is no Plugging data for this well

^{*} There is no Scanned/Raster Log data for this well

^{*} There is no Digitized/LAS Log data for this well

^{*} There is no Scanned or Digital Logs available for download

1/4/2010 API# 47 103 01695 F

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



or

Well Operator's Report of Well Work

Farm name:	BOGGS, GE	RALD E., ETAL	Ope	rator Well	No.: E. MI	LLER F-27		
LOCATION:	Elevation:	1,050'	Qua	drangle:	PINE GRO	VE 7.5'		
	District: Latitude: Longitude:	GREEN 11,200 Feet south of 9,000 Feet west of		nty: WE Deg 32 Deg 40		Sec. Sec.		
Company:	P.O. BOX 55	URCES, INC. 19 V 26105-5519		Casing Tubing Size	Used in Drilling	Left in Well	Fi	ement 11 Up u. Ft.
Agent:	PHILIP S. ON	NDRUSEK						
Inspector: Permit Issued: Well work Com Well work Com Verbal plugging	ipleted:	ANAGE 01/04/10 02/02/10 03/26/10						·
permission gran Rotary X Total Depth (fee Fresh water dep	_Cable et)	Rig 3052'		8 5/8"	307'	307'	180	sks
Salt water depth	` '	NA NA		4 1/2"	2868.95'	2868.95'	270	sks
Is coal being mi Coal Depths (ft)		N) NA N		Office	of Oil & G	as	ļ	
OPEN FLOW I		* WATERFLOOD INJEC	CTOR		partment	of		
	ing formation	Gordon	_En	vironme	Pharpfold al open flow	etiba	2878'-2	
Gas:	Initial open flo	• * M	CF/d				*	Bbl/d
	Final open flo		CF/d		l open flow		*	Bbl/d
Static re	ock pressure	n flow between initial and ps		n tests rface pres	ssure)	Hours after		Hours
Second	producing form	nation			Pay zone de	oth (ft)		
Gas:	Initial open flo		CF/d		al open flow			Bbl/d
	Final open flo		CF/d		l open flow			Bbl/d
		flow between initial and	d fina	1 tests	-	Hours		-
Static re	ock pressure	psi	ig (su	rface pres	sure)	after		Hours
OR STIMULATING	G, PHYSICAL CH	PUT THE FOLLOWING: 1) D IANGE, ETC. 2) THE WELL I ORMATIONS, INCLUDING C	LOG W	HICH IS A	SYSTEMATIC	CDETAILED	FURING	
		For: EAST RE By:	SOUE	RCES, INC	. Ku	Keldr		
		Date:				5/12/1	O.	

Treatment:

Treated open hole 2878'-2806' w/ 250 gals. 15% HCl acid,

309 bbls cross linked gel, and 22,500 # 20/40 sand.

Well Log:

SEE ORIGINAL WELL RECORD

RECEIVED
Office of Oil & Gas

AUG 09 2011

WV Department of Environmental Protection

API#

4-Mar-96 47 -103- 1695

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

Well Operator's Report of Well Work

Farm name:	Miller, Elizab	eth Heirs		Ope	rator Well	No.: E. Mi	iller F-27	e co
LOCATION:	Elevation:	1,050.00		Qua	irangle:	Pine Grove		· · · · · · · · · · · · · · · · · · ·
	District: Latitude: Longitude:	Green 11,200' 9,000'	Feet south of Feet west of		nty: Wet Deg 32 Deg 40	Min 30	Sec. Sec.	i ci
Company:	PENNZOIL I P.O. BOX 55 VIENNA, W	19	S COMPANY		Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Agent:	PHILIP S. OI	NDRUSEK	(Size		OK DOS	
Inspector: Permit Issued:	Randal Mick	3/4/	96		8 5/8"	307'	307	. 180 Sacks
Well work Com Well work Com Verbal plugging	pleted:	6/6/ 7/25	96		4 1/2"	2868.95'	2868.95'	270 Sacks
permission gran Rotary <u>X</u> Total Depth (fea Fresh water dep	_Cable et)	Rig 3052' NA						
Salt water depth		NA	 					
Is coal being mi Coal Depths (ft) OPEN FLOW I):	810-	N 820 as drilled as a wa	uterfloo	od injection	n well. No c	ppen-flow data w	vas obtained
Gas:		w	* M. tween initial an	ICF/d d fina	Fina ll tests	Pay zone dal open flow	* Hours	2888-2905 * Bbl/d * Bbl/d
Static r	ock pressure		*ps	sig (si	urface pre	ssure)	after	Hours
Second Gas:	I producing for Initial open flo Final open flo Time of ope	ow ow		ICF/d ICF/d	Fina	Pay zone of all open flow	v • • • • • • • • • • • • • • • • • • •	Bbl/d Bbl/d
Static r	cock pressure	11 110 11 00			urface pre	ssure)	after	Hours
OR STIMULATIN	IG, PHYSICAL C	HANGE, E	FOLLOWING: 1) TC. 2) THE WELL ONS, INCLUDING	LOG	WHICH IS A	A SYSTEMAT	TIC DETAILED	CTURING
			For: PENNZO By: Date:	OIL P	RODUCT:	SCOMPAN LEVEL	XY /	
								



Select County: (103) Wetzel Select datatypes: (Check All) Location ✓ Production Plugging Enter Permit #: 1696 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Logs ✓ Pay/Show/Water ✓ Btm Hole Loc

Usage Notes Contact Information Disclaimer

WV Geological & Economic Survey:

Well: County = 103 Permit = 1696 Link to all digital records for well

Report Time: Thursday, November 30, 2023 11:02:47 AM

Location Information: View Map

| API | COUNTY PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4710301696 | Wetzel | 1696 | Green | Pine Grove | Littleton | 39.51028 | -80.694007 | 526305.1 | 4373450.1 |

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE_OWNER WEL 4710301696 9/9/1996 Original Loc Completed Coastal Lumber Co G-27 STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLET

5 25040-50 Pennzoil Products Co et al Pennzoil Products Company OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_P McCoy Hrs

Completion Information:

DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AFT Service Well Unsuccessful Water Injection Rotary Acid+Frac

Pay/Show/Water Information:

PRODUCT SECTION DEPTH_TOP FM_TOP DEPTH_BOT FM_BOT G_BEF G_AFT O_BEF O_AFT WATER_QNTY API CMP_DT ACTIVITY PRODUC 4710301696 9/9/1996 Water Flood Injection

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:

Stratigraphy information.										
	API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
	4710301696	Original Loc	unidentified coal	Well Record	837	Reasonable	8	Reasonable	1057	Ground Level
	4710301696	Original Loc	Big Lime	Well Record	2062	Reasonable	71	Reasonable	1057	Ground Level
	4710301696	Original Loc	Big Injun (undiff)	Well Record	2133	Reasonable	184	Reasonable	1057	Ground Level
	4710301696	Original Loc	Gordon Stray	Well Record	2869	Reasonable	17	Reasonable	1057	Ground Level
	4710301696	Original Loc	Gordon	Well Record	2897	Reasonable	20	Reasonable	1057	Ground Level

- Wireline (E-Log) Information:
 * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

3-Apr-96

47-103-1696

API#

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

Well Operator's Report of Well Work

Farm name:	Coastal Lum		ny	Ope	rator \	Well	No.:	McC	oy Hrs. #G-2 <u>7 ^E/</u>	W Divi	Sion of
LOCATION:	Elevation:	1057'		Qua	drangl	e:	Pine (Grove	2	N. S. S. S. S. S. S. S. S. S. S. S. S. S.	U.CCIIC
	District: Latitude: Longitude:	Green 7,750' 11,400'	Feet south of Feet west of		nty: Deg Deg		Min	30 0	Sec. Sec.		
Company:	PENNZOIL P.O. BOX 55 VIENNA, W	519	S COMPANY 519		8	ing k oing	1	d in	Left in We!l	Cen Fill Cu.	Up
Agent:	PHILIP S. O	NDRUSEK			Si	ze					
Inspector: Permit Issued: Well work Con		3/4/9 6/19/	/9ύ								
Well work Con Verbal plugging	3	9/9/	96		8-5	/8'' 	30)7' 	307'	150	Sacks
permission grar Rotary X Total Depth (fe Fresh water dep	_Cable et)	Rig 3052' NA			4 1	/2''	2995	5.85'	2995.85'	135	Sacks
Salt water dept	ns (ft)	NA	-		<u></u>						
Is coal being m Coal Depths (ft		(N) 83'	7 N								
OPEN FLOW I	DATA	*Well wa	s drilled as a wa	terflo	od inje	ection	n well.	No c	pen-flow data w	as obtain	ed
Gas:	ing formation Initial open flo Final open flo Time of operock pressure	ow n flow bet	* M ween initial an	CF/d d fina	ıl tests	Fina s	Pay z al oper l open ssure)	ı flow flow		*	97 Bbl/d Bbl/d Hours
	I producing for Initial open fl Final open flo	mation ow ow		CF/d	Oil:	Initia Fina	•	one d 1 flow	epth (ft)		Bbl/d Bbl/d
Static 1	Time of operock pressure	n flow bet	ween initial an				ssure)		Hours after		Hours
OR STIMULATIN	IG, PHYSICAL C	CHANGE, ET	OLLOWING: 1) 1 C. 2) THE WELL NS, INCLUDING	LOG \	WHICH	I IS A	SYST	ЕМАТ	ITERVALS, FRAC IC DETAILED IE WELLBORE.	TURING	
			For: PENNZO By: Date:	OIL PI	ROPI	ICTS	COK	IJAN	N Q		

Treatment:

Perforated Gordon sand with 48 holes from 2900'-2908' K.B. Fractured with 300 gals 15% HCL and 200 bbls gelled water and 12,300 lbs. 20/40 sand

Well Log:

All depth are relative to K.B.

0	514 Sand and Shale
514	837 Shale
837	845 Coal
845	884 Shale
884	916 sand
916	1332 Shale
1332	1430 sand
1430	1620 Shale
1620	1668 sand
1668	1824 Shale
1824	1856 sand
1856	2062 Shale
2062	2133 Big Lime
2133	2317 Big Injun
2317	2869 Shale
2869	2886 Gordon Stray
2886	2897 Shale
2897	2917 Gordon
2917	3052 Shale



Select County: (103) Wetzel Select datatypes: \Box (Check All) Production Plugging Location Enter Permit #: 1699 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ✓ Pay/Show/Water Logs ✓ Btm Hole Loc

<u>Jsage Notes</u> Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 103 Permit = 1699 Link to all digital records for well

Report Time: Thursday, November 30, 2023 11:03:20 AM

Location Information: View Map

| API | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | 4710301699 | Wetzel | 1699 | Green | Pine Grove | Littleton | 39.50738 | -80.699623 | 525823.5 | 4373126.6

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_A	AT_COMPLETION	PROP_VD	PROP	_TRGT_F	M TF	M_EST	_PR
4710301699	9/18/1996	Original Loc	Completed	Carl E Fluharty Sr	E-26		A Wiley	15001-50	Pennzoil Products (Coetal F	Pennzoil Prod	ucts Company						

Completion Information:

API CMP_DT	SPUD_DT ELEV DATUM	FIELD DI	DEEPEST_FM DEEPEST_FN	T INITIAL_CLASS	FINAL_CLASS	TYPE RI	IG	CMP_MTHD	TVD	TMD NEW_FTG KOD G_BEF G_AF
4710301699 9/18/1996	7/10/1996 843 Ground Level	Jksnbg-Strngtwn Ha	Hampshire Grp Gordon	Service Well	Unsuccessful	Water Injection Ro	otary	Acid+Frac	2846	2846 0

Pay/Show/Water Information:

7	API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER	QNTY
4	1710301699	9/18/1996	Horizon	Injection	Vertical	2690	Gordon	2700	Gordon	_ 0	_ 0				-
	1710301699	9/18/1996	Horizon	Injection	Vertical	2696	Gordon	2702	Gordon	0	0				

There is no Production Gas data for this well

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

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:

Stratigraphy information.										
	API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
	4710301699	Original Loc	unidentified coal	Well Record	618	Reasonable	8	Reasonable	843	Ground Level
	4710301699	Original Loc	Big Lime	Well Record	1835	Reasonable	70	Reasonable	843	Ground Level
	4710301699	Original Loc	Big Injun (Price&eq)	Well Record	1908	Reasonable	178	Reasonable	843	Ground Level
	4710301699	Original Loc	Gordon Stray	Well Record	2658	Reasonable	16	Reasonable	843	Ground Level
	4710301699	Original Loc	Gordon	Well Record	2687	Reasonable	17	Reasonable	843	Ground Level

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

State of West Virginia

API#

26-Apr-96 47 -103- 1699

2687-2704

JAT 5 6 1297

Division of Environmental Protection Section of Oil and Gas

4710301699

Pormitting

Well Operator's Report of Well Work

Office of Off & Gas

Fluharty, Carl E. Sr.

Operator Well No.: A. Wiley #E-26

LOCATION:

Farm name:

Elevation:

843.00

Quadrangle:

Pine Grove

District:

Green

County: Wetzel

Latitude:

12,500 Feet south of

39 Deg 32 Min

30 Sec.

Longitude:

9.350 Feet west of

80 Deg 40 Min

0 Sec.

Company:

PENNZOIL PRODUCTS COMPANY

P.O. BOX 5519

VIENNA, WV 26105-5519

Agent:

PHILIP S. ONDRUSEK

Inspector:

Randal Mic'c

Permit Issued:

4/29/96

Well work Commenced: Well work Completed:

7/10/96 9/18/96

Verbal plugging

permission granted on:

Rotary X Cable Rig 2346

Total Depth (feet) Fresh water depths (ft)

NA

NA

Salt water depths (ft)

Is coal being mined in area (Y/N)

Producing formation

N 626-630

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
8-5/8"	220'	220'	125 Sacks
4 1/2"	2747.65'	2747.65'	275 Sacks

n	PE	N	Ħ	CO.	v	D	Δ٦	ГΔ

Coal Depths (ft):

*Well was drilled as a waterflood injection well. No open-flow data was obtained

Pay zone depth (ft)

Gas:	Initial open flow	* MCF/d Oil: Initial open flow	*	Bol/d
	Final open flow	* MCF/d Final open flow	*	Bbl/d
	Time of open flow b	tween initial and final tests *	Hours	
Static	rock pressure		fter	Hours
Secon	d producing formation	Pay zone dep	oth (ft)	
Gas:	Initial open flow	MCF/d Oil: Initial open flow		Bbl/d
	Final open flow	MCF/d Final open flow		Bbl/d
		tween initial and final tests	Hours	
Static	rock pressure	psig (surface pressure) at	fter	Hours
		FOLLOWING: 1) DETAILS OF PERFORATED INTE		URING
		IC. 2) THE WELL LOG WHICH IS A SYSTEMATIC		
GEOLOGICAL F	RECORD OF ALL FORMATI	ONS, INCLUDING COAL ENCOUNTERED BY THE '	WELLBORE.	
•		1 1/20	\	
		For PENNZOIL PRODUCTS COMPANY	1 11	

Gordon

By: Date:

Treatment:

Perforations:

2690' - 2700' & 2696' -2702' - 4 holes/ft.

Teatment:

Treated via 4.5" Casing with 300 gals. 15% HCl, 227 bbls.

Borate cross-linked gelled water and 15,000 lbs. of 20/40 sand.

Well Log:

TD = 2846'

Sand & Shale	0	-	236
Shale	236	-	442
Sand	442	-	490
Shale	490	-	602
Sand	602	-	618
Shale	618	-	626
Coal	626	-	630
Shale	630	-	794
Sand	794	-	815
Shale	815	-	1031
Sand	1031	-	1077
Shale	1077	•	1132
Sand	1132	-	1184
Shale	1184	-	1500
Sand	1500	-	1534
Shale	1534	-	1600
Sand	1600	•	1642
Shale	1642	-	1812
Sand	1812	-	1835
Big Lime	1835	-	1908
Big Injun	1908	-	2086
Shale	2086	-	2658
Gordon Stray	2658	-	2674
Shale	2674	-	2687
Gordon	2687	-	2704
Shale	2704	-	2846



Select datatypes: \Box (Check All) Select County: (103) Wetzel Production Plugging Location Enter Permit #: 1702 ✓ Owner/Completion Stratigraphy Sample Get Data Reset ☑ Btm Hole Loc ✓ Pay/Show/Water Logs

Usage Notes Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus"

WV Geological & Economic Survey:

Well: County = 103 Permit = 1702 Link to all digital records

Report Time: Thursday, November 30, 2023 11:03:41 AM

Location Information: View Map

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE_ 4710301702 9/20/1996 Dvtd Orgnl Loc Completed Linda Coen STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_Completed Linda Coen E-24 Rev SH Wiley RG-2832-00 Pennzoil Products Co et al Pennzoil Products Company

Completion Information:

| API | CMP_DT | SPUD_DT | ELEV DATUM | FIELD | DEEPEST_FM | DEEPEST | 4710301702 | 9/20/1996 | 6/27/1996 | 852 | Ground Level | Jksnbg-Strngtwn | Hampshire Grp | Gordon | Comment: 9/20/1996 | Drilled directionally S30 to 20 E at 1272ft to Gordon. DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AF Unsuccessful Water Injection Rotary Acid+Frac Service Well 3433

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 4710301702 9/20/1996 Water Flood Injection Deviated 3286 Gordon 3290 Gordon 0 0

There is no Production Gas data for this well

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

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:

Ollaligraph	y iriioimation	•							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4710301702	Dvtd Orgnl Loc	Big Lime	Well Record	1893	Deviated Drlg	92	Deviated Drlg	852	Ground Level
4710301702	Dvtd Orgnl Loc	Big Injun (Price&eq)	Well Record	1985	Deviated Drlg	251	Deviated Drlg	852	Ground Level
4710301702	Dytd Orani Loc	Gordon	Well Record	3224	Deviated Drlg	73	Deviated Drlg	852	Ground Level

Wireline (E-Log) Information:

- * There is no Scanned/Raster Log data for this well
- * There is no Digitized/LAS Log data for this well
- * There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

15-May-96 47 -103- 1702 API#

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

4710301702

actimitting

Jan 2 6 1897

	Outco of Olf 8	Ges Well Operator's F	Report	t of Well V	Vork		
Farm name:	Coen. Linda		Oper	ator Well	No.: S.H. V	Wiley #E-24 R	
LOCATION:	Elevation:	852.00	Quad	irangle:	Pine Grove	:	
	District: Latitude: Longitude:	Green 13,650 Feet south of 11,000 Feet west of	39	nty: Wei Deg 32 Deg 40	Min 30	Sec.	
Company:	P.O. BOX 55	RODUCTS COMPANY 19 V 26105-5519		Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Agent:	PHILIP S. ON	IDRUSEK		Size			
Inspector: Permit Issued: Well work Com		5/15/96 6/27/96					
Well work Com Verbal plugging		9/20/96		8-5/8"	833'	833'	350 Sacks
permission gran Rotary X Total Depth (fee	Cableet)	Rig 3433'		4 1/2"	3352.8'	3352.8'	315 Sacks
Fresh water dep		NA	i				
Salt water depth	is (ff)	NA					
Is coal being min Coal Depths (ft)		N) NA N					
OPEN FLOW D	OATA	*Well was drilled as a wa Note This well was drilled					
Produci Gas:	ing formation Initial open flo Final open floor	Gordon w * M	CF/d	Oil: Initi Fina	Pay zone do al open flow do open flow	epth (ft)	3224-3297 Bbl/d Bbl/d
Static re	ock pressure			rface pre	ssure)	after	Hours
Second Gas:	producing form Initial open flor Final open flor Time of open	owM	CF/d	Fina	Pay zone do al open flow al open flow	epth (ft) Hours	Bbl/d Bbl/d
Static n	ock pressure			rface pre	ssure)	after	Hours
OR STIMULATIN	G, PHYSICAL CI	PUT THE FOLLOWING: 1) I HANGE, ETC. 2) THE WELL FORMATIONS, INCLUDING (LOG V	VHICH IS A	SYSTEMAT	IC DETAILED	TURING
		For: PENNZO By:	OIL PR	RODUCTS	S COMPAN	Y)	
•		Date:		· //	197		

Treatment:

Perforations:

3286' - 3290' - 6 holes/ft. (24 holes)

Teatment:

Treated via 4.5" Casing with 300 gals. 15% HCl, 191 bbls. Borate cross-linked gelled water and 15,000 lbs. of 20/40 sand.

Note This well was drilled directionally S30-20E 1272' to Gordon formation. All depths given are measured depths.

Well Log:

TD - 3433'

Sand & Shale	0	-	1012
Sand	1012	-	1070
Shale	1070	-	1110
Sand	1110	-	1178
Shale	1178	•	1223
Sand	1223	-	1270
Shale	1270	•	1515
Sand	1515	-	1552
Shale	1552	•	1610
Sand	1610	-	1670
Shale	1670	•	1866
Sand	1866		1893
Big Lime	1893	-	1985
Big Injun	1985	-	2236
Shale	2236	-	3224
Gordon	3224	-	3297
Shale	3297	-	3312
Sand	3312	-	3323
Shale	3323	-	3433



Select County: (103) Wetzel Select datatypes: (Check All) Location Production Plugging Enter Permit #: 1739 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Logs ✓ Btm Hole Loc Pay/Show/Water

Usage Notes Contact Information <u>Disclaimer</u> WVGES Main "Pipeline-Plus

WV Geological & Economic Survey

Well: County = 103 Permit = 1739 Link to all digital records for well

Report Time: Thursday, November 30, 2023 11:04:04 AM

Location Information: View Map

 COUNTY PERMIT TAX DISTRICT QUAD_75
 QUAD_15
 LAT_DD
 LON_DD
 UTME
 UTMN

 Wetzel
 1739
 Green
 Center Point
 Centerpoint
 39.477746
 -80.692023
 526488
 4369840
 API COUNTY 4710301739 Wetzel

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_COMPLET
4710301739 9/16/1997 Original Loc Completed State of West Virginia H-15 F L Hoge 15548-50 Pennzoil Products Co et al Pennzoil Products Company
4710301739 2/25/2014 Worked Over Completed WV Public Lands H-15 F L Hoge 15548-50 H G Energy LLC H HG Energy, LLC OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_F 3406 Gordon

 API
 CMP_DT
 SPUD_DT
 ELEV
 DATUM
 FIELD
 DEEPEST_FM
 DEEPEST_FM

 4710301739
 9/16/1997
 7/1/1997
 1419
 Ground Level Jksnbg-Strngtwn
 Hampshire Grp
 Gordon

 4710301739
 2/25/2014
 2/19/2014
 1419
 Ground Level Jksnbg-Strngtwn
 Hampshire Grp
 Gordon
 DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS CMP MTHD TVD TMD NEW FTG KOD G BEE G TYPE RIG Development Well Development Well Oil Service Well Unsuccessful Wa 3406 3435 Rotary Acid+Frac Water Injection Rotary Fractured

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 4710301739 2/25/2014 Water Flood Injection Vertical 3304 Gordon 3342 Gordon 4710301739 9/16/1997 Pay Vertical 3304 Gordon 3342 Gordon

Production Gas Information: (Volumes in Mcf) * 2023 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	П
471030173	9 East Resources, Inc.	2005	94	4	6	7	8	8	9	10	9	9	6	10	8	ı
471030173	9 East Resources, Inc.	2006	94	7	8	9	7	10	10	4	4	2	4	13	16	
471030173	9 East Resources, Inc.	2007	192	15	14	12	21	18	0	11	25	19	18	19	20	
471030173	9 East Resources, Inc.	2008	271	23	16	22	12	14	43	41	40	19	24	12	5	
471030173	9 East Resources, Inc.	2010	214	16	15	23	19	17	20	21	19	18	18	15	13	
	9 East Resources, Inc.	2011	124	10	10	11	12	14	14	12	10	8	7	9	7	
471030173	9 HG Energy, LLC	2012	13	8	5	0	0	0	0	0	0	0	0	0	0	
471030173	9 HG Energy, LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0	
471030173	9 HG Energy, LLC	2014	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 *2023 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
4710301739	East Resources, Inc.	2005	1,166	19	12	21	0	271	173	134	131	124	70	106	105
4710301739	East Resources, Inc.	2006	1,417	125	128	139	114	110	101	110	116	100	130	124	120
4710301739	East Resources, Inc.	2007	769	30	90	114	62	0	25	97	78	70	69	68	66
4710301739	East Resources, Inc.	2008	854	74	70	79	76	78	83	90	71	64	63	48	58
4710301739	East Resources, Inc.	2010	376	11	20	25	26	28	28	97	40	26	26	23	26
4710301739	East Resources, Inc.	2011	264	9	18	20	18	19	19	20	20	25	36	32	28
4710301739	HG Energy, LLC	2012	573	28	15	16	13	14	12	10	116	63	73	108	105
4710301739	HG Energy, LLC	2013	714	99	90	108	107	109	96	94	11	0	0	0	0
4710301739	HG Energy, LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0

There is no Production Water data for this well

Stratigraphy Information:

Ottatigraph	y iiiioiiiiaa	011.							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4710301739	Original Loc	unidentified coal	Well Record	943	Reasonable	5	Reasonable	1419	Ground Level
4710301739	Original Loc	Big Lime	Well Record	2495	Reasonable	55	Reasonable	1419	Ground Level
4710301739	Original Loc	Big Injun (undiff)	Well Record	2550	Reasonable	160	Reasonable	1419	Ground Level
4710301739	Original Loc	Gordon Stray	Well Record	3299	Reasonable	17	Reasonable	1419	Ground Level
4710301739	Original Loc	Gordon	Well Record	3326	Reasonable	22	Reasonable	1419	Ground Level

Wireline (E-Log) Information:

There is no Plugging data for this well

^{*} There is no Scanned/Raster Log data for this well

^{*} There is no Digitized/LAS Log data for this well

^{*} There is no Scanned or Digital Logs available for download

API#

4710301739

D

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work

Farm name:	WVA Public L	ands	Operator Well No.: F.L. Hoge H-15						
LOCATION:	Elevation:	1,419.00	Qua	drangle:	Center Poi	nt			
	District: Latitude: Longitude:	Green 8,150 Feet south of 7,250 Feet west of		nty: Wet Deg 30 Deg 40	Min 30	Sec.			
Company:	PENNZOIL PI P.O. BOX 551 VIENNA, WV			Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.		
Agent:	PHILIP S. ON	DRUSEK		Size					
Inspector: Permit Issued: Well work Com	Randal Mick menced:	6/12/97 7/1/97							
Well work Com Verbal plugging permission gran	pleted:	9/16/97		8-5/8''	663'	663'	300 Sacks		
Rotary X Total Depth (fee	_Cableet)	Rig 3406'		4 ½"	3376'	3376'	140 Sacks		
Fresh water dep	iths (ft)	NA							
Salt water depth	ns (ft)	NA							
Is coal being mi Coal Depths (ft)	ned in area (Y/N):) <u>N</u> 943'							
OPEN FLOW D	OATA								
	ing formation	Gordon			Pay zone de	epth (ft)	3,326		
Gas:	Initial open flow	* M	ICF/d [CF/d		al open flow l open flow	* *			
	Time of open	flow between initial and	d final	l tests	•	* Hours			
Static r	ock pressure	*ps	sig (su	irface pres	ssure)	after	Hours		
Second	producing form	ation			Pay zone de	epth (ft)			
Gas:	Initial open flow	wM		Oil: Initia	al open flow		Bbl/d		
-	Initial open flow Final open flow Time of cone	Many between initial and	CF/d	Final	l open flow	TY	Bbl/d		
	ock pressure	THOW OCTACCH HILLIAN AND	ig (su	rface pres	ssure)	Hours 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 WELL BORE SAS									
		For: PENNZO	DIL PR	popuets	GONPAN	P 2 3 2013			
	•	By: Date:	7	1/4	L/MAND	epartment of			
		Date.		5/16/9	Environm	iental Protecti	on		

Treatment:

Perforated Gordon sand with 32 holes from 3304'-3342' K.B. Fractured with 300 gals 15% HCL and 214 bbls gelled water and 11,500 lbs. 20/40 sand

Well Log:

All depths are relative to K.B.

0	943 Sand and Shale
943	948 Coal
948	1610 Sand and Shale
1610	1905 sand
1905	1995 Shale
1995	2405 sand
2405	2495 Shale
2495	2550 Big Lime
2550	2710 Big Injun
2710	3299 Shale
3299	3316 Gordon Stray
3316	3326 Shale
3326	3348 Gordon
3348	3400 Shale

RECEIVED

SEP 23 2013

Office of Oil and Gas

Office of Environmental Protection

WV Dept. of Environmental Protection

WV DAN DONE ON BOWNING THE PROPERTY OF THE PRO



Select County: (103) Wetzel	~	Select datatypes: (Check All)									
Enter Permit #: 2391		Location	Production	Plugging							
Get Data Reset		✓ Owner/Completion✓ Pay/Show/Water	Stratigraphy Logs	Sample Btm Hole Loc							

<u>Table Descriptions</u>
<u>County Code Translation</u>
<u>Permit-Numbering Serior</u> Jsage Notes Contact Information

WV Geological & Economic Survey:

Well: County = 103 Permit = 2391 Link to all digital records for well

Report Time: Thursday, March 14, 2024 2:31:31 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4710302391	Wetzel	2391	Green	Pine Grove	Littleton	39.51497	-80.699642	525819	4373969

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_F	M TF	VI_EST	_PR
4710302391	8/14/2009	Original Loc	Completed	Israel Miller Estate	7				East Resources et al	East Resources	, Inc.	3150	Gordon				
4710302391	3/13/2013	Worked Over	Completed	Israel Miller Estate	7		Israel Miller		HG Energy LLC et al	HG Energy, LLC	;	3260	Gordon				

Completion Information:

AF	PI	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
47	10302391	8/14/2009	7/30/2009	1150	Ground Level	Jksnbg-Strngtwn	Greenland Gap Fm	Gordon	Development Well	Development Well	Gas	Rotary	Acid+Frac	3260	3260
47	10302391	3/13/2013	3/7/2013	1150	Ground Level	Jksnbg-Strngtwn	Greenland Gap Fm	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3260	0
Co	mment:	8/14/200	9 Waterfl	ood p	roducer. No	flow data inclu	ded but well is in	production.							

Comment: 8/14/2009 Waterflood producer. No flow Comment: 3/13/2013 Converted to water injection.

Pay/Show/Water Information:

	a,,,														
ſ	API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER	QNTY
	4710302391	8/14/2009	Water	Salt Water	Vertical			1500							
	4710302391	3/13/2013	Water Flood	Injection	Vertical	2975	Gordon	2981	Gordon						
	4710302391	8/14/2009	Water Flood	Gas	Vertical	2975	Gordon	2981	Gordon						
	4710302391	3/13/2013	Water Flood	Injection	Vertical	2984	Gordon	2986	Gordon						
	4710302391	8/14/2009	Water Flood	Gas	Vertical	2984	Gordon	2986	Gordon						

Production Gas Information: (Volumes in Mcf) * 2023 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
4710302391	East Resources, Inc.	2010	360	0	0	0	0	61	53	0	89	28	71	58	0
4710302391	East Resources, Inc.	2011	97	15	56	21	5	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil *2023 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
4710	0302391	East Resources, Inc.	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4710	0302391	East Resources, Inc.	2011	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

Stratigrapi	ny informati	on:							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUAL	ITY ELEV	DATUM
4710302391	Original Loc	Greenbrier Group	WVGES Staff Geologist	2106	Reasonable			1150	Ground Level
4710302391	Original Loc	Big Lime	Well Record	2106	Reasonable	60	Reasonable	1150	Ground Level
4710302391	Original Loc	Big Injun (undiff)	Well Record	2166	Reasonable	202	Reasonable	1150	Ground Level
4710302391	Original Loc	Gordon	Well Record	2940	Reasonable	18	Reasonable	1150	Ground Level
4710302391	Original Loc	Gordon Stray	Well Record	2940	Reasonable	18	Reasonable	1150	Ground Level

There is no Plugging data for this well

Wireline (E-Log) Information:
* There is no Scanned/Raster Log data for this well

^{*} There is no Digitized/LAS Log data for this well

^{*} There is no Scanned or Digital Logs available for download

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Office of Oil & Gas
SEP 2 4 2009

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

9/17/2008 API # 47 103 2391

4710302391

Well Operator's Report of Well Work.

Farm name:	MILLER, IS	RAEL-ESTATE	Oper	ator Well	No.: ISRA	EL MILLER 7	
LOCATION:	Elevation:	1,150'	Quad	lrangle:	PINE GRO	VE 7.5'	
	District: Latitude: Longitude:	GREEN 9,750 Feet south o 9,350 Feet west of		nty: WE Deg 32 Deg 40		Sec. Sec.	
Company:	P.O. BOX 55	URCES, INC. 19 V 26105-5519		Casing Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Agent:	PHILIP S. O	NDRUSEK					
Inspector: Permit Issued: Well work Com Well work Com Verbal plugging	npleted:	ANAGE 09/17/08 07/30/09 08/14/09					
permission gran Rotary X Total Depth (fee	_Cable et)	Rig 3260'		7"	417'	417'	100 sks
Fresh water depth	. ,	1500'		4 1/2"	3150.8'	3150.8'	150 sks
Is coal being mi Coal Depths (ft) OPEN FLOW I):	N) NA N * WATERFLOOD PRO	ODUCE	R			
Gas: Static r Second Gas: Static r	producing for Initial open flo Final open flo Time of ope ock pressure	mation ow n flow between initial a	MCF/d MCF/d and fina psig (su MCF/d MCF/d and fina psig (su	Fina l tests rface pres Oil: Initia Fina l tests rface pres	al open flow l open flow ssure) Pay zone de al open flow l open flow ssure)	Hours after Hours after Hours after	981', 2984'-2986' * Bbl/d * Bbl/d Hours Bbl/d Bbl/d Hours
OR STIMULATIN	G, PHYSICAL C	, PUT THE FOLLOWING: 1 HANGE, ETC. 2) THE WEL FORMATIONS, INCLUDING	L LOG W	HICH IS:A	SYSTEMATI	C DETAILED	TURING
		For: EAST I By: Date:	RESOU	RCES, IN	Bu 1	1/2/09	

Treatment:

Treated perfs (2975'-2981', 2984'-2986') w/ 250 gals. 15% HCl, 317 bbls cross linked gel, and 18,000 # 30/50 sand.

Well Log:	0	723	Sand and Shale
	723	770	Sand
	770	880	Shale
	880	894	Sand
	894	976	Shale
	976	986	Sand
	986	995	Shale
	995	1018	Sand
	1018	1076	Shale
	1076	1100	Sand
	1100	1386	Shale
	1386	1436	Sand
	1436	1443	Shale
	1443	1466	Sand
	1466	1488	Shale
	1488	1517	Sand
	1517	1628	Shale
	1628	1666	Sand
	1666	1710	Shale
	1710	1729	Sand
	1729	1769	Shale
	1769	1814	Sand
	1814	1876	Shale
	1876	1944	Sand
	1944	2052	Shale
	2052	2078	Sand
	2078	2093	Shale
	2093	2106	Sand
	2106	2166	Big Lime
	2166	2368	Big Injun
	2368	2940	Shale
	2940	2958	Gordon Stray
	2958	2971	Shale
	2971	2986	Gordon
	2986	2990	Shale
	2990	2998	Sand
	2998	3261	Shale
	3261		TD



Select County: (103) Wetzel Select datatypes: (Check All) Location ✓ Production Plugging Enter Permit #: 2393 ✓ Owner/Completion Stratigraphy Sample Get Data Reset Logs ✓ Pay/Show/Water ✓ Btm Hole Loc

<u>Jsage Notes</u> Contact Information Disclaimer

WV Geological & Economic Survey:

Well: County = 103 Permit = 2393 Link to all digital records for well

Report Time: Thursday, November 30, 2023 11:04:30 AM

Location Information: View Map

| OFFINITION | VIEW WIRD | COUNTY | PERMIT TAX_DISTRICT | QUAD_75 | QUAD_15 | LAT_DD | LON_DD | UTME | UTMN | Wetzel | 2393 | Green | Pine Grove | Littleton | 39.50822 | -80.693878 | 526317 | 4373221.5 | API COUNTY 4710302393 Wetzel

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE_OWNER WELL_NUM CO_NUM
4710302393 8/28/2009 Original Loc Completed Coastal Lumber Co McCoy Heirs 14 LEASE LEASE_NUM MINERAL_OWN OPERATOR_AT_CO
East Resources et al East Resources, Inc. OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_PR

Completion Information:

 API
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 DEEPEST_F DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AF Unsuccessful Water Injection Rotary Acid+Frac Service Well 3170

Pay/Show/Water Information:

PRODUCT SECTION DEPTH_TOP FM_TOP DEPTH_BOT FM_BOT G_BEF G_AFT O_BEF O_AFT WATER_QNTY
 API
 CMP_DT
 ACTIVITY
 PRODUC

 4710302393
 8/28/2009
 Water
 Salt Water

 4710302393
 8/28/2009
 Water Flood
 Injection
 Salt Water Vertical Injection Vertical 1860 2910 Gordon 2896 Gordon

Production Gas Information: (Volumes in Mcf) * 2023 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

4710302393 Tribune Resources, LLC 2018

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil *2023 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 | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT | OCT

Production Water Information: (Volumes in Gallons) * 2023 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

 4710302393
 Tribune Resources, LLC
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Stratigraphy Information

ou.aug.ap	,	•							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4710302393	Original Loc	Big Lime	Well Record	2046	Reasonable	54	Reasonable	1051	Ground Level
4710302393	Original Loc	Greenbrier Group	WVGES Staff Geologist	2046	Reasonable			1051	Ground Level
4710302393	Original Loc	Big Injun (undiff)	Well Record	2100	Reasonable	198	Reasonable	1051	Ground Level
4710302393	Original Loc	Gordon Stray	Well Record	2864	Reasonable	16	Reasonable	1051	Ground Level
4710302393	Original Loc	Gordon	Well Record	2890	Reasonable	20	Reasonable	1051	Ground Level

Wireline (E-Log) Information:

* There is no Scanned/Raster Log data for this well

There is no Plugging data for this well

^{*} There is no Digitized/LAS Log data for this well

^{*} There is no Scanned or Digital Logs available for download

RECEIVED Office of Oil & Gas OCT 1 5 2009 W Department of wironmental Protection

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

API# 47 103 2393

9/17/2008

471030239

2333

Well Operator's Report of Well Work

Environino		_	_		70 May 20	11	
Farm name:		LUMBER CO.	Ope	rator Well		OY HEIRS 14	
LOCATION:	Elevation:	1,051'	Qua	drangle:	PINE GRO	VE 7.5'	
	District: Latitude: Longitude:	GREEN 12,200 Feet so 7,725 Feet w		•		Sec. Sec.	
Company:	P.O. BOX 55	URCES, INC. 519 V 26105-5519		Casing Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Agent:	PHILIP S. O	NDRUSEK					
Inspector: Permit Issued: Well work Con Well work Con	npleted:	ANAGE 09/17/08 08/13/09 08/28/09				5	
Verbal pluggin permission gra Rotary X Total Depth (fe Fresh water de	nted on:Cableet)	Rig 3170' N/A	·	7"	320'	320'	88 sks
Salt water dept		1860'	ME KURSE NUMBER DI M	4 1/2"	3095.65'	3095.65'	150 sks
Is coal being m Coal Depths (for the open of the open open open open open open open ope	t):	/N) NA NA * WATERFLOO	D INJECTOR				
Produ	cing formation		Gordon		Pay zone d	epth (ft)	2896'-2910'
Gas:	Initial open for Final open fl	low *	MCF/d MCF/d	Fina	al open flow al open flow	v <u> </u>	* Bbl/d * Bbl/d
Static	rock pressure	en flow between in	muai and ini psig (s	urface pre	ssure)	after	Hours
Secon Gas:	d producing for Initial open f Final open fl	low	MCF/d	Fina	Pay zone d lal open flow al open flow	v	Bbl/d Bbl/d
Static	rock pressure			urface pre	ssure)	after	Hours
OR STIMULATI	NG, PHYSICAL (1, PUT THE FOLLOW CHANGE, ETC. 2) TH FORMATIONS, INCI	E WELL LOG V	WHICH IS A	SYSTEMAT	IC DETAILED	TURING
Promise Tolling (A)			EAST RESOU	JRCES, IN	C. Bu	Clob-	
			Date:		10/1	15/07	

Treatment:

Treated perfs (2896'-2910') w/ 250 gals. 15% HCl, 296 bbls cross linked gel, and 15,000 # 30/50 sand.

Well	Log:

0	262	Sand and Shale
262	300	Sand
300	534	Shale
534	562	Sand
562	603	Shale
603	618	Sand
618	655	Shale
655	702	Sand
702	810	Shale
810	830	Sand
830	1246	Shale
1246	1294	Sand
1294	1340	Shale
1340	1373	Sand
1373	1378	Shale
1378	1389	Sand
1389	1395	Shale
1395	1418	Sand
1418	1446	Shale
1446	1459	Sand
1459	1500	Shale
1500	1540	Sand
1540	1668	Shale
1668	1672	Sand
1672	1726	Shale
1726	1738	Sand
1738	1814	Shale
1814	1864	Sand
1864	2004	Shale
2004	2018	Sand
2018	2030	Shale
2030	2042	Sand
2042	2046	Shale
2046	2100	Big Lime
2100	2298	Big Injun
2298	2864	Shale
2864	2880	Gordon Stray
2880	2890	Shale
2890	2910	Gordon
2910	2919	Shale
2919	2926	Sand
2926	3170	Shale
3170		TD .



Select County: (103) Wetzel	~	Select datatypes: (Check All)	
Enter Permit #: 2505		Location	Production	Plugging
Get Data Reset		✓ Owner/Completion✓ Pay/Show/Water	✓ Stratigraphy ✓ Logs	Sample Btm Hole Loc

Table Descriptions
County Code Translation
Permit Numbering Series <u>Jsage Notes</u> Contact Information

WV Geological & Economic Survey:

Well: County = 103 Permit = 2505 Link to all digital records for well

Report Time: Monday, December 11, 2023 7:58:49 AM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4710302505	Wetzel	2505	Green	Pine Grove	Littleton	39.508248	-80.689628	526682.4	4373225.9

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	I PROP_VD	PROP_	TRGT_FI	M TFM_	EST_PR
4710302505	9/18/2009	Original Loc	Completed	Lloyd Prine	15		McCoy Hrs		East Resources et al	East Resources, Inc.	3075	Gordon	l .		
4710302505	3/1/2013	Worked Over	Completed	Lloyd Prine	15		Mccoy Heirs			HG Energy, LLC					

Completion Information:

4710302505 9/18/2009 8/27/2009 1062 Ground Level Jksnbg-Strngtwn Hampshire Grp Gordon Development Well Development Well Divided Ground Gas Rotary Acid+Frac 3170 3170 4710302505 3/1/2013 2/25/2013 1062 Ground Level Jksnbg-Strngtwn Hampshire Grp Gordon Service Well Unsuccessful Water Injection Rotary Acid+Frac 3170 0	API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FM	IT INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD NEW_FTG KOD G_BEF	G
4710302505 3/1/2013 2/25/2013 1062 Ground Level Jksnbg-Strngtwn Hampshire Grp Gordon Service Well Unsuccessful Water Injection Rotary Acid+Frac 3170 0	4710302505	9/18/2009	8/27/2009	1062	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Development Well	Development Well	Oil and Gas	Rotary	Acid+Frac	3170	3170	
	4710302505	3/1/2013	2/25/2013	1062	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3170	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
4710302505	9/18/2009	Water	Salt Water	Vertical			2200	Big Injun (undiff)						
4710302505	3/1/2013	Water Flood	Injection	Vertical	2903	Gordon	2918	Gordon						
4710302505	9/18/2009	Pay	Oil & Gas	Vertical	2903	Gordon	2918	Gordon						
4710302505	9/18/2009	Pay	Oil & Gas	Vertical	2931	Gordon	2934	Gordon						
4710302505	3/1/2013	Water Flood	Injection	Vertical	2931	Gordon	2934	Gordon						

Production Gas Information: (Volumes in Mcf) * 2023 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERAT	OR PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4710302505	East Resources, Inc.	2010	360	0	0	0	0	61	53	0	89	28	71	58	0
4710302505	East Resources, Inc.	2011	97	15	56	21	5	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil *2023 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
4710302505	East Resources, Inc.	2010	1,225	14	254	141	104	153	133	97	104	78	56	44	47
4710302505	East Resources, Inc.	2011	28	28	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
4710302505	Original Loc	Big Lime	Well Record	2044	Reasonable	60	Reasonable	1062	Ground Level
4710302505	Original Loc	Greenbrier Group	Well Record	2044	Reasonable	254	Reasonable	1062	Ground Level
4710302505	Original Loc	Big Injun (undiff)	Well Record	2104	Reasonable	194	Reasonable	1062	Ground Level
4710302505	Original Loc	Gordon Stray	Well Record	2876	Reasonable	15	Reasonable	1062	Ground Level
4710302505	Original Loc	Gordon	Well Record	2901	Reasonable	19	Reasonable	1062	Ground Level

There is no Plugging data for this well

Wireline (E-Log) Information:
* There is no Scanned/Raster Log data for this well

^{*} There is no Digitized/LAS Log data for this well

^{*} There is no Scanned or Digital Logs available for download

4710302505 API

5/24/2012 47 103 2505

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

Well Operator's Report of Well Work

Farm name:	PRINE, LLO	YD	Oper	ator Well	No.: MCC	OY HEIRS 15		
LOCATION:	Elevation:	1,062'	Quad	lrangle:	PINE GRO	VE 7.5'		
•	District: Latitude: Longitude:	GREEN 12,200 Feet south 6,625 Feet west		,		Sec.		
Company:	H G Energy I 5260 Dupont Parkersburg,	Rd		Casing Tubing Size	Used in Drilling	Left in Well	Fil	ment l Up . Ft.
Agent:	Michael Kirso	h				•		
Inspector: Permit Issued: Well work Com Well work Com	pleted:	JGHT 05/24/12 02/25/13 03/01/13						
Verbal plugging permission gran Rotary X Total Depth (fee	ted on: _Cable et)			7"	901'	901'	225	sks
Fresh water depth		N/A 2200'		4 1/2"	3121.15'	3121.15'	150	sks
Is coal being mi Coal Depths (ft) OPEN FLOW I):	N) NA NA * WATERFLOOD I	NJECTOR			·		
Gas: Static of Second Gas:	rock pressure I producing for Initial open flo Final open flo Time of oper rock pressure	mation ow en flow between initia	MCF/d and fina psig (s MCF/d MCF/d MCF/d al and fina psig (s	Final tests urface pre Oil: Initi Final tests urface pre	Pay zone dial open flowed al open flowers	Hours after eptil (ACEIVE of Oil ar NOV Hours after	* * D nd Gas 13	Bbl/d Bbl/d Hours Bbl/d Bbl/d Hours
OR STIMIL ATIN	JG PHYSICAL (1, PUT THE FOLLOWING CHANGE, ETC. 2) THE W FORMATIONS, INCLUD	VELL LOG	WHICH IS F	7 O I O I DIMESI	IC DETAILED	ti kaj taj ko	
	·	For: HG By Da		C/Si	11/13/13	h		

Treatment:

Treated perfs (2903'-2918', 2931'-2934') w/ 250 gals. 15% HCl acid, 339 bbls cross linked gel, and 17,000 # 20/40 sand.

CONVERTED TO WATER INJECTION

Well Log:	0	173	Sand and Shale
	173	202	Sand
	202	266	Shale
	266	286	, Sand
•	286	606	Shale
	606	622	Sand
	622	658	Shale
	658	705	Sand
	705	816	Shale
	816	837	Sand
	837	892	Shale
	892	908	Sand
	908	936	Shale
	936	970	Sand
	970	1278	Shale
	1278	1296	Sand
	1296	1302	Shale
	1302	1328	Sand
	1328	1352	Shale
	1352	1374	Sand
	1374	1435	Shale
	1435	1470	Sand
	1470	1486	Shale
	1486	1544	Sand
	1544	1838	Shale
	1838	1858	Sand .
	1858	2003	Shale
	2003	2017	Sand
	2017	2030	Shale
	2030	2036	Sand
	2036	2044	Shale
	2044	2104	Big Lime
	2104	2298	Big Injun
	2298	2876	Shale
	2876	2891	Gordon Stray
	2891	2901	Shale
	2901	2920	Gordon
	2920	2930	Shale
	2930	2938	Sand
	2938	3170	Shale
	3170	•	TD

API#

8/13/2009 103 2505

State of West Virginia

Division of Environmental Protection Section of Oil and Gas



Well Operator's Report of Well Work Farm name: PRINE, LLOYD Operator Well No.: MCCOY HEIRS 15 LOCATION: Elevation: 1,062' Quadrangle: PINE GROVE 7.5' District: **GREEN** County: WETZEL Latitude: 12,200 Feet south of 39 Deg 32 Min Sec. 30 Longitude: 6,625 Feet west of 80 Deg 40 Min 0 Sec. Company: EAST RESOURCES, INC. Casing Used in Left Cement P.O. BOX 5519 **Tubing** Fill Up VIENNA, WV 26105-5519 Size Drilling in Well Cu. Ft. PHILIP S. ONDRUSEK Agent: DAVID SCRANAGE Inspector: Permit Issued: 08/13/09 08/27/09 Well work Commenced: Well work Completed: 09/18/09 Verbal plugging permission granted on: 7" Rotary X Cable Rig 901' 901' 225 sks Total Depth (feet) 3170' RECEIVED Fresh water depths (ft) N/A Office of Oil & Gas/2" 3121.15' 3121.15' 150 sks Salt water depths (ft) 2200' MAY 07 2012 Is coal being mined in area (Y/N) Coal Depths (ft): WW Departmeht of NA * WATERFLOOD INJECTOR OPEN FLOW DATA Producing formation Gordon Pay zone depth 2903'-2918', 2931'-2934' Initial open flow MCF/d Oil: Initial open flow Gas: 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 Second producing formation Pay zone depth (ft) Initial open flow MCF/d Oil: Initial open flow Gas: 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: EAST RESOURCES, INC. By: Date:

Treatment:

Treated perfs (2903'-2918', 2931'-2934') w/ 250 gals. 15% HCl acid, 339 bbls cross linked gel, and 17,000 # 20/40 sand.

Well Log:	0	100		~. .
Wen Log .	∙173	173 202	Sand and Sand	Shale
				. 1
	202	266	Shale	
	266	286	Sand	
	286	606	Shale	
	606	622	Sand	
	622	658	Shale	
	658	705	Sand	
*	705	816	Shale	
	816	837	Sand	
	837	892	Shale	•
	892	908	Sand	
	908	936	Shale	
•	936	970	Sand	
	970	1278	Shale	,
	1278	1296	Sand	
	1296	1302	Shale	•
	1302	1328	Sand	
	1328	1352	Shale	. •
	1352	1374	Sand	
	1374	1435	Shale	
	1435	1470	Sand	
	1470	1486	Shale	
	1486	1544	Sand	
	1544	1838	Shale	
	1838	1858	Sand	
	1858	2003	Shale	
	2003	2017	Sand	
* ** .	2017	2030	Shale	**. *
	2030	2036	Sand	:
	2036	2044	Shale	
	2044	2104	Big Lime	
	2104	2298	Big Injun	
	2298	2876	Shale	.*
	2876	2891	Gordon Str	ay
	2891	2901	Shale	
	2901	2920	Gordon	
*	2920	2930	Shale	
	2930	2938	Sand	
	2938	3170	Shale	
	3170	•	TD	j.
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