

**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	Y	Y	1006	2960	2856
2	4701705243	O.W.O. Hardman 1	526146.7	4363924.4	Injector	Shutin	Y	Y	1330	3380	3173
3	4701705273	C. Wright 7	525633.0	4364264.0	Injector	Shutin	Y	Y	1026	3120	2884
4	4709501124	Thomson Heirs 8	525861.5	4367402.6	Injector	Shutin	Y	Y	908	2880	2788
5	4709501410	J. Lemasters 18	526572.0	4368201.0	Injector	Shutin	Y	Y	913	3015	2812
6	4709501411	M.H. Pennick 9	526375.4	4367662.1	Injector	Active	Y	Y	854	3010	2920
7	4709501412	F.M. Lemasters 10	525652.2	4366884.5	Injector	Shutin	Y	Y	996	3000	2906
8	4709501416	F.R. Ball 20	527035.9	4367422.7	Injector	Shutin	Y	Y	1235	3206	3144
9	4709501417	J.B. Gorrell 4	527053.8	4366907.4	Injector	Shutin	Y	Y	877	2856	2776
10	4709501418	J.B. Gorrell 5	526537.9	4367211.6	Injector	Shutin	Y	Y	1232	3285	3210
11	4709501420	M.H. Pennick 8	526375.4	4367662.1	Injector	Active	Y	Y	852	3015	2966
12	4709501501	J. Lemasters 20	526501.2	4368533.6	Injector	Shutin	Y	Y	1186	3220	3068
13	4709501506	L.J. Lemasters K-12	527368.4	4368939.3	Injector	Shutin	Y	Y	1150	3190	3046
14	4709501509	S.P. Lemasters J-10	527258.3	4368246.3	Injector	Shutin	Y	Y	911	2985	2914
15	4709501510	S.P. Lemasters M-10	527997.2	4368539.0	Injector	Shutin	Y	Y	1114	3142	3028
16	4709501511	L.J. Lemasters M-12	528033.0	4369042.0	Injector	Shutin	Y	Y	1033	3050	2948
17	4709501512	C.C. Pennick M-14	527903.0	4369535.0	Injector	Shutin	Y	Y	1030	3136	3024
18	4709501515	C. McCoy L-8	527694.1	4367829.1	Injector	Shutin	Y	Y	1000	3005	2906
19	4709501524	Nancy Allen M-9	528068.1	4367983.4	Injector	Shutin	Y	Y	1355	3326	3260
20	4709501530	W.J. Wharton D-7	525507.1	4367530.3	Injector	Shutin	Y	Y	1013	3021	2896
21	4709501531	F.M. Lemasters D-6	525345.2	4367037.8	Injector	Shutin	Y	Y	1105	3090	2982
22	4709501532	J.H. Dawson F-14	526144.4	4369386.1	Injector	Shutin	Y	Y	1381	3375	3248
23	4709501533	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	Y	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	Y	1255	3407	3324
28	4709501543	J.N. Glover E-8	525715.0	4367902.8	Injector	Shutin	Y	Y	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	Y	Y	1243	3237	3135
31	4709501604	F.R. Ball K-5	527408.1	4366812.0	Injector	Shutin	Y	Y	830	3007	2904
32	4709501621	M.A. Eddy O-7	528612.1	4367589.6	Injector	Shutin	Y	Y	1148	3148	3034
33	4709501626	WM. Fluharty D-14	525388.3	4369415.8	Injector	Shutin	Y	Y	1375	3383	3230
34	4709501627	E. Longstreth E-12	525548.0	4368928.0	Injector	Shutin	Y	Y	1004	3025	2870
35	4709501628	A. Glover C-9	525183.4	4368126.5	Injector	Shutin	Y	Y	885	2882	2750
36	4709501641	F.R. Ball M-6	527986.6	4367023.4	Injector	Shutin	Y	Y	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
39	4709501655	Martha Elder 12	526111.6	4364794.1	Injector	Shutin	Y	Y	1297	3328	3170
40	4709501657	Issac Baker 5	525741.6	4364728.4	Injector	Shutin	Y	Y	1304	3360	3176
41	4709501659	Baker Heirs 11	525739.9	4365243.8	Injector	Active	Y	Y	1030	3020	2898
42	4709501662	B.A. Swiger 7	525288.0	4365628.9	Injector	Shutin	Y	Y	1168	3172	3028
43	4709501663	Silas Wyattte E-2B	525689.0	4366049.0	Injector	Shutin	Y	Y	800	2841	2680
44	4709501666	J.L. McIntyre 12	526446.0	4365826.1	Injector	Shutin	Y	Y	1007	3020	2890
45	4709501667	Martha Elder 13-R	526045.6	4365261.0	Injector	Shutin	Y	Y	1320	3336	3200
46	4709501687	L.J. Lemasters 3-A	527674.1	4368924.3	Injector	Shutin	Y	Y	1017	2990	2929
47	4709501688	A.D. Lemasters 13-A	527627.5	4368473.1	Injector	Shutin	Y	Y	1054	3050	2963
48	4709501749	Baker Heirs 12	526062.3	4365083.8	Injector	Shutin	Y	Y	1274	3299	3144
49	4709501750	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	Y	Y	1159	3239	3084
51	4709501766	Peter Horner 13	526573.4	4366229.2	Injector	Active	Y	Y	812	2885	2785
52	4709501770	Tennant Heirs 3	526076.3	4365712.1	Injector	Shutin	Y	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	Y	Y	925	2940	2794
55	4709501795	E.T. Parks 7	526831.3	4366117.3	Injector	Shutin	Y	Y	1006	3030	2888
56	4709501836	J.Q. McIntyre 11	526866.2	4365312.1	Injector	Shutin	Y	Y	919	2990	2797
57	4709501837	M.V. Baker 22	526916.4	4364780.7	Injector	Shutin	Y	Y	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
63	4709501892	L.J. Lemasters 8	528004.5	4368752.9	Injector	Shutin	Y	Y	1347	3470	3243
64	4709501896	J. Haught 7	525143.0	4365179.0	Injector	Shutin	Y	Y	1124	3200	2959
65	4709501899	J.B. Gorrell 6	526893.8	4367093.0	Injector	Shutin	Y	Y	890	3050	2780
66	4709501903	L.J. Lemasters 9	527646.3	4369278.7	Injector	Shutin	Y	Y	1217	3330	3113

	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	Y	1145	3300	3054
70	4709501916	A.D. Lemasters 26	527532.0	4368897.7	Injector	Shutin	Y	Y	955	3224	3040
71	4710300906	Rachel Wright 3	526430.0	4374091.8	Injector	Active	Y	Y	854	2697	2682
72	4710300947	J.A. Booth 5	526597.0	4372336.6	Injector	Shutin	Y	Y	1217	3099	3082
73	4710301315	Irene Reilly 13	526163.0	4371477.0	Injector	Shutin	Y	Y	1005	2990	2888
74	4710301514	C.T. Hall K-14B	527526.7	4369664.7	Injector	Active	Y	Y	1405	3600	3466
75	4710301516	C.C. Penick L-15	527493.5	4369970.6	Injector	Active	Y	Y	1386	3520	3388
76	4710301542	N. Noland L-17	528231.8	4370424.4	Injector	Shutin	Y	Y	925	3017	2920
77	4710301543	C.C. Penick M-15	528104.8	4369940.7	Injector	Shutin	Y	Y	1249	3264	3143
78	4710301544	H. Noland M-17	528096.0	4370425.0	Injector	Shutin	Y	Y	1000	3050	2893
79	4710301545	J.T. Reilly J-17	527363.1	4370437.3	Injector	Shutin	Y	Y	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	Y	1038	3089	2956
82	4710301627	T.W. Reilly N-17	528552.8	4370602.8	Injector	Shutin	Y	Y	991	3070	2906
83	4710301628	T.W. Reilly P-17B	528935.6	4370652.5	Injector	Shutin	Y	Y	1030	3055	2954
84	4710301632	G.V. Reilly N-19	528313.0	4371259.0	Injector	Shutin	Y	Y	1445	3492	3334
85	4710301633	M.J. Reilly O-19	528331.0	4371215.0	Injector	Shutin	Y	Y	1438	3656	3510
86	4710301634	C.C. Penick O-15	528873.5	4370056.3	Injector	Shutin	Y	Y	1458	3479	3374
87	4710301635	H.M. Jamison Q-17	529385.2	4370831.4	Injector	Shutin	Y	Y	1477	3804	3666
88	4710301641	I. Wiley G-22	525894.6	4371946.3	Injector	Active	Y	Y	851	2849	2708
89	4710301642	S.H. Wiley G-23	525888.1	4372382.5	Injector	Shutin	Y	Y	831	2798	2694
90	4710301643	Irene Reilly G-20	525944.6	4371398.9	Injector	Shutin	Y	Y	855	2923	2740
91	4710301645	Irene Reilly I-20	526555.3	4371529.8	Injector	Shutin	Y	Y	1476	3427	3342
92	4710301657	WM. Fluharty E-14	525484.8	4369432.2	Injector	Shutin	Y	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	Y	Y	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	Y	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	Y	Y	1057	3052	2900
107	4710301699	A. Wiley E-26	525821.2	4373123.3	Injector	Shutin	Y	Y	843	2846	2690
108	4710301702	S.H. Wiley E-24R	525323.1	4372751.1	Injector	Shutin	Y	Y	852	3433	3284
109	4710301739	F.L. Hoge H-15	526488.0	4369840.0	Injector	Shutin	Y	Y	1419	3435	3304
110	4710302391	Israel Miller 7	525809.0	4373961.0	Injector	Shutin	Y	Y	1150	3260	2975
111	4710302393	McCoy Heirs 14	526303.5	4373232.3	Injector	Active	Y	Y	1051	3170	2896
112	4710302505	McCoy Heirs 15	526685.0	4373230.0	Injector	Shutin	Y	Y	1062	3170	2903



Select County: (017) Doddridge (Check All)

Enter Permit #: 4299

Get Data Reset

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

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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	UTME	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_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AF
4701704299	1/15/1997	12/6/1996	1006	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2960		2960			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
4701704299	1/15/1997	Horizon	Injection	Vertical	2856	Gordon	2860	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_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

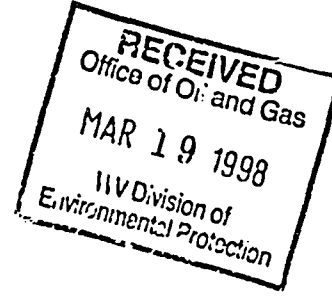
* There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

There is no Sample 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: Coastal Lumber Company Operator Well No.: C. Wright #5
LOCATION: Elevation: 1,006.00 Quadrangle: Center Point
District: McClellan County: Doddridge
Latitude: 11,400 Feet south of 39 Deg 27 Min 30 Sec.
Longitude: 9,400 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: Mike Underwood

Permit Issued: 9/9/96

Well work Commenced: 12/6/96

Well work Completed: 1/15/97

Verbal plugging permission granted on:
Rotary X Cable _____ Rig _____

Total Depth (feet) 2960'

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): N

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	276'	276'	160 Sacks
4 1/2"	2913'	2913'	275 Sacks

OPEN FLOW DATA *Well was drilled as a waterflood injection well. No open-flow data was obtained

Producing formation Gordon Pay zone depth (ft) 2,850
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY
By: [Signature]
Date: 3/16/98

D000 4299

Treatment :

Perforated Gordon sand with 16 holes from 2856'-2860' K.B. Fractured with 300 gals 15% HCL and 193 lb'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 County: (017) Doddridge (Check All)

Enter Permit #: 5040

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

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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](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4701705040	Doddridge	5040	McClellan	Center Point	Centerpoint	39.426213	-80.689951	526685.9	4364121.5

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
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	Roy 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	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEFC
4701705040	4/1/2010	3/31/2010	1307	Ground Level	Jksnbg-Strngtwn	Up Devonian	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3350				0

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEFC	G_AFT	O_BEFC	O_AFT	WATER_QNTY
4701705040	10/18/2005	Water	Salt Water	Vertical			2644	Up Devonian					
4701705040	10/18/2005	Water Flood	Injection	Vertical	3177	Gordon	3190	Gordon					
4701705040	4/1/2010	Water Flood	Injection	Vertical	3177	Gordon	3190	Gordon					
4701705040	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:

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	Gordon	Well Record	3175	Reasonable	17	Reasonable	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

There is no Sample data for this well

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

Well Operator's Report of Well Work

COPY

Farm name: FERREBEE, ROY R.

Operator Well No.: C.A. SMITH 1

LOCATION: Elevation: 1,307'

Quadrangle: CENTERPOINT 7.5'

District: MCCLELLAN

Latitude: 11,725 Feet south of

County: DODDRIDGE

Longitude: 6,625 Feet west of

39 Deg 27 Min 30 Sec.

80 Deg 40 Min 0 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: DAVID SCRANAGE

Permit Issued: 01/21/10

Well work Commenced: 03/31/10

Well work Completed: 04/01/10

Verbal plugging

permission granted on:

Rotary X Cable _____ Rig _____

Total Depth (feet) 3350'

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): NA

Casing Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	633'	633'	155 sks
4 1/2"	3279.2'	3279.2'	150 sks

OPEN FLOW DATA

* WATERFLOOD INJECTOR

Producing formation Gordon Pay zone depth (ft) 3177'-3190', 3204'-3207'

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

Second producing formation _____ Pay zone depth (ft) _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock pressure _____ psig (surface pressure) _____ after _____ Hours

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

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Office of Oil & Gas

AUG 08 2011

For: EAST RESOURCES, INC.

By: [Signature]

Date: 5/12/10

4701705040

Treatment : Treated perms. 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 County: (017) Doddridge (Check All)

Enter Permit #: 5243

Get Data Reset

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

- [Table Descriptions](#)
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- ["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_NUM	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:

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	
4701705243	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	
4701705243	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:

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	Qstrnble 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

There is no Sample data for this well

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

COPY

Well Operator's Report of Well Work

Farm name: COASTAL LUMBER COMPANY Operator Well No.: O.W.O. HARDMAN # 1

LOCATION: Elevation: 1,330' Quadrangle: CENTERPOINT 7.5'

District: MCCLELLAN County: DODDRIDGE
Latitude: 12,375 Feet south of 39 Deg 27 Min 30 Sec.
Longitude: 8,400 Feet west of 80 Deg 40 Min 0 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Casing Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	644'	644'	160 sks
4 1/2"	3311.45'	3311.45'	150 sks

Agent: PHILIP S. ONDRUSEK
Inspector: DAVID SCRANAGE
Permit Issued: 12/30/09
Well work Commenced: 01/22/10
Well work Completed: 01/25/10
Verbal plugging permission granted on:
Rotary X Cable _____ Rig _____
Total Depth (feet) 3380'
Fresh water depths (ft) NA
Salt water depths (ft) NA
Is coal being mined in area (Y/N) N
Coal Depths (ft): NA

OPEN FLOW DATA * WATERFLOOD INJECTOR

Producing formation Gordon Pay zone (ft) 3173.5'-3176'
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure _____ psig (surface pressure) after _____ Hours

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

RECEIVED
Office of Oil & Gas

AUG 08 2011

For: EAST RESOURCES, INC.

By: _____

Date: _____

Ben Holden
5/12/10

WV Department of
Environmental Protection

Treatment : Treated perms. 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 (Check All)

Enter Permit #: 5273

Get Data Reset

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

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- ["Pipeline-Plus"](#)

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

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4701705273	Doddridge	5273	McClellan	Center Point	Centerpoint	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	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4701705273	3/2/2006	Original Loc	Completed	Coastal Lumber Co.		C Wright 7		99297-00	East Resources Inc.	East Resources, Inc.	3050	Gordon	
4701705273	-/-	Worked Over	Permitted	Coastal Lumber Co	7		Clinton Wright	99297-00	HG Energy LLC	HG Energy, LLC	3120	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_AF
4701705273	3/2/2006	1/11/2006	1026	Ground Level	Jksnbg-Strngtwn	Gordon	Gordon	Development Well	Development Well	Oil and Gas	Rotary	Acid+Frac	3120			3120		

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

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
4701705273	3/2/2006	Water Flood	Oil & Gas	Vertical	2884	Gordon	2892	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
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	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	19	12	143	0	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	10	32	69	108	83	51	
4701705273	HG Energy, LLC	2013	153	38	41	48	26	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.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4701705273	HG Energy, LLC	2013	0	0	0	0	0	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
4701705273	Original Loc	Big Lime	Well Record	2090	Reasonable	72	Reasonable	1026	Ground Level
4701705273	Original Loc	Big Injun (undiff)	Well Record	2162	Reasonable	136	Reasonable	1026	Ground Level
4701705273	Original Loc	Gordon Stray	Well Record	2858	Reasonable	26	Reasonable	1026	Ground Level
4701705273	Original Loc	Gordon	Well Record	2884	Reasonable	8	Reasonable	1026	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

JK

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 47-017-05273 County Doddridge District McClellan
Quad Centerpoint 7.5' Pad Name C Wright Field/Pool Name Stringtown
Farm name Costal Lumber Company Well Number 7
Operator (as registered with the OOG) H.G. Energy, LLC
Address 5260 DuPont Road City Parkersburg State WV Zip 26101

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing _____ Easting _____
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing _____ Easting _____

Elevation (ft) 1026 GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole: Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s)
N/A

Date permit issued 6/13/2013 Date drilling commenced NA Date drilling ceased NA
Date completion activities began 6/14/13 Date completion activities ceased 6/15/13
Verbal plugging (Y/N) N Date permission granted _____ Granted by _____

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft None Open mine(s) (Y/N) depths N
Salt water depth(s) ft None Void(s) encountered (Y/N) depths N
Coal depth(s) ft None Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by: _____

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

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor							
Surface	8 3/4"	7"	322	New	LS/17	NA	Y- Existing
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	6 1/4"	4 1/2"	3059	New	J-55/10.5		N- Existing
Tubing		2 3/8"	2752	New	J-55/4.6		
Packer type and depth set							

Comment Details Tubing set on Baker Lok - Set packer @ 2752'

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor							
Surface	Reg Neat	75	15.6	1.18	88	Surface	8
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	50:50 Pozmix	150	14.2	1.27	190	NA	8
Tubing							

Drillers TD (ft) 3120 Loggers TD (ft) _____
 Deepest formation penetrated Gordon Plug back to (ft) N/A
 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

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? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

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API 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

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)
	NA							

Please insert additional pages as applicable.

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API 47- 017 - 05273

Farm name Costal Lumber Company

Well number 7

PRODUCING FORMATION(S)

DEPTHS

Gordon 2284-2892 TVD MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow

OIL TEST Flow Pump

SHUT-IN PRESSURE Surface _____ psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas _____ Oil _____ NGL _____ Water _____
 _____ mcfpd _____ bpd _____ bpd _____ bpd
GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION TOP DEPTH IN FT BOTTOM DEPTH IN FT TOP DEPTH IN FT BOTTOM DEPTH IN FT DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H₂S, ETC)

LITHOLOGY/ FORMATION	TOP DEPTH IN FT	BOTTOM DEPTH IN FT	TOP DEPTH IN FT	BOTTOM DEPTH IN FT	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	0		0		
	SEE	ORIGINAL	WR-35		

Please insert additional pages as applicable.

Drilling Contractor NA
Address _____ City _____ State _____ Zip _____

Logging Company NA
Address _____ City _____ State _____ Zip _____

Cementing Company NA
Address _____ City _____ State _____ Zip _____

Stimulating Company NA
Address _____ City _____ State _____ Zip _____

Please insert additional pages as applicable.

Completed by Roger Heldman Telephone 304-420-1107
Signature Title Operations Manager Date 2/11/15

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry



Select County: (095) Tyler (Check All)

Enter Permit #: 1124

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

- [Table Descriptions](#)
- [County Code Translations](#)
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- [Contact Information](#)
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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](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4709501124	Tyler	1124	McElroy	Center Point	Centerpoint	39.455805	-80.699412	525860.7	4367402.9

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4709501124	11/14/1990	Worked Over	Completed	Carl E Walters	8		Thompson Hrs	47243-00	Darrell Stackpole	Pennzoil Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_A
4709501124	11/14/1990	10/25/1990	908	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2880			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
4709501124	11/14/1990	Horizon	Injection	Vertical	2788	Gordon	2798	Gordon	0	0	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	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

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

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_SEC
4709501124					2774	2803	Gordon	Gordon										

4709501124

RECEIVED
DEPARTMENT OF ENERGY
OIL AND GAS



Date January 23, 1986
Operator's Well No. 8
Farm Thompson Heirs
API No. 47 - 095 - 1124

WR-35

State of West Virginia

JAN 27 1986

DEPARTMENT OF ENERGY
Oil and Gas Division

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 908 Watershed Stackpole Run.
District: McElroy County Tyler Quadrangle Centerpoint 7.5'

COMPANY Pennzoil Company

ADDRESS P.O. Box 1588, Parkersburg, W.Va. 26102

DESIGNATED AGENT James A. Crews

ADDRESS P.O. Box 1588, Parkersburg, W.Va.

SURFACE OWNER Carl E. Walters

ADDRESS Alvy, W.Va. 26322

MINERAL RIGHTS OWNER Darrell Stackpole

ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK Robert

Lowther ADDRESS Gen. Delivery, Middlebourne

PERMIT ISSUED 11-25-85

DRILLING COMMENCED 1-2-86

DRILLING COMPLETED 1-12-86

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Ch. ft.
Size 20-16 Cm.			
13-10"			
9 5/8"			
8 5/8"	806'	806'	350 sks
7"			
5 1/2"			
4 1/2"	2865'	2865'	225 sks
3"			
2"			
Liners used			

GEOLOGICAL TARGET FORMATION Gordon Depth 2760 feet

Depth of completed well 2859 feet Rotary X / Cable Tools

Water strata depth: Fresh 220 feet; Salt 1552 feet

Coal seam depths: Is coal being mined in the area? no

OPEN FLOW DATA

Information Well Only -

Producing formation To Be Completed at Later Date Pay zone depth feet

Gas: Initial open flow Mcf/d Oil: Initial open flow bbl/d

Final open flow Mcf/d Final open flow bbl/d

Time of open flow between initial and final tests hours

Static rock pressure psig (surface measurement) after hours shut in

(If applicable due to multiple completion--)

Second producing formation Pay zone depth feet

Gas: Initial open flow Mcf/d Oil: Initial open flow bbl/d

Final open flow Mcf/d Oil: Final open flow bbl/d

Time of open flow between initial and final tests hours

Static rock pressure psig (surface measurement) after hours shut in

(Continue on reverse side)

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

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand			0	98	
Silt			98	180	
Sand			180	210	
Shale			210	336	
Sand			336	950	
Shale, Sand			950	1924	
Little Lime			1924	1948	
Blue Munday			1948	1976	
Big Lime			1976	2052	
Loyalhanna			2052	2124	
Pocono Big Injun			2124	2204	
Pocono Shale			2204	2760	
Gordon			2760	2822	
Shale			2822	2859	
Total Depth				2859	

(Attach separate sheets as necessary)

Pennzoil Company
Well Operator

By: Curtis A. Lujan

Date: 1-23-86

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



Select County: (095) Tyler (Check All)

Enter Permit #: 1410

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
- [WVGES Main](#)
- ["Pipeline-Plus"](#)

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	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4709501410	10/23/1990	Original Loc	Completed	Frances Wadsworth	18		J Lemasters	RG 2171-00	Don E Riddle	Pennzoil Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AI
4709501410	10/23/1990	8/1/1990	913	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3015		3015			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
4709501410	10/23/1990	Water	Salt Water	Vertical			1540						0
4709501410	10/23/1990	Horizon	Injection	Vertical	2812	Gordon	2826	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
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 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

4709501410

4709501410⁹

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

DATE: April 14, 2023

API #: 47-095-01410

Farm name: Jasper Lemasters Operator Well No.: 18

LOCATION: Elevation: 913' Quadrangle: Centerpoint 7.5

District: McElroy County: Tyler
Latitude: 39.462977 Feet South of _____ Deg. _____ Min. _____ Sec.
Longitude: -80.691117 Feet West of _____ Deg. _____ Min. _____ Sec.

Company: Tribune Resources

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
3861 Ambassador Caffery Blvd., Suite 60 Lafayette, LA 70503				
Agent: <u>Harman Brown</u>				
Inspector: <u>Stephen Mc Coy</u>				
Date Permit Issued: <u>7-24-1990</u>	<u>8-5/8"</u>	<u>212'</u>	<u>212'</u>	<u>Circ.</u>
Date Well Work Commenced:	<u>4-1/2"</u>	<u>2878</u>	<u>2878'</u>	<u>300 sx.</u>
Date Well Work Completed: <u>10-22-1990</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): <u>2916'</u>				
Total Measured Depth (ft): <u>2916'</u>				
Fresh Water Depth (ft.):				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)? <u>No</u>				
Coal Depths (ft.): <u>748'</u>				
Void(s) encountered (N/Y) Depth(s) <u>No</u>				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Gordon Pay zone depth (ft) 2799-2809'

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 80 psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock Pressure _____ psig (surface pressure) after _____ Hours

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Office of Oil and Gas

MAY 18 2023

WV Department of
Environmental Protection

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.

Harman Brown

Signature

4/21/2023

Date

4709501410

4709501410P

Were core samples taken? Yes _____ No X

Were cuttings caught during drilling? Yes _____ No X

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Gamma Ray,
Magnet Flux Leakage Inspection, Comp. Density

NOTE: IN THE AREA BELOW 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 THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: _____ Top Depth / _____ Bottom Depth
Surface:

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Office of Oil and Gas

MAY 18 2023

WV Department of
Environmental Protection



Select County: (095) Tyler (Check All)

Enter Permit #: 1411

Get Data Reset

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

- [Table Descriptions](#)
- [County Code Translations](#)
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- ["Pipeline-Plus"](#)

WV Geological & Economic Survey:

Well: County = 95 Permit = 1411 [Link to all digital records for well](#)

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

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4709501411	Tyler	1411	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_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4709501411	11/14/1990	Dvtd Orgrl Loc	Completed	Jerry Walters	9		M H Pennick	RG-2165-00	Pennzoil Co	Pennzoil Company		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_AF	
4709501411	11/14/1990	8/16/1990	854	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac		3010	3010			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
4709501411	11/14/1990	Water Flood	Injection	Deviated	2920	Gordon	2930	Gordon	0	0	0	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
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

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
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 Orgrl Loc	Little Lime	Well Record	1982	Reasonable	16	Reasonable	854	Ground Level
4709501411	Dvtd Orgrl Loc	Big Lime	Well Record	2023	Reasonable	107	Reasonable	854	Ground Level
4709501411	Dvtd Orgrl Loc	Big Injun (undiff)	Well Record	2130	Reasonable	164	Reasonable	854	Ground Level
4709501411	Dvtd Orgrl Loc	Gordon	Well Record	2911	Reasonable	43	Reasonable	854	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
DEPARTMENT OF ENERGY
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

District: MCELROY County: TYLER
Latitude: 50 Feet South of 39 Deg. 27Min. 30 Sec.
Longitude 7550 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
Permit Issued: 07/24/90
Well work Commenced: 8-16-90
Well work Completed: 11-14-90

Verbal Plugging
Permission granted on: _____
Rotary Cable _____ Rig
Total Depth (feet) 3010
Fresh water depths (ft) _____

Salt water depths (ft) _____

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft. To surface
8-5/8	204.82	204.82	160 Sks.
4-1/2	2980.95	2980.95	300 Sks.

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 2911-2954
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

Second producing formation N/A 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

* 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

By: Timothy P. Roush Timothy P. Roush
Date: April 11, 1991

APR 19 1991

Stimulation

Perforated: Gordon 2920-2930 - 10 hles
 Treated w/300 gals. reg. HF acid, 199 Bbls. gelled water
 and 1500# 80/100 & 500# 20/40 sand.

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'

167644



Select County: (095) Tyler (Check All)

Enter Permit #: 1412

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
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- ["Pipeline-Plus"](#)

WV Geological & Economic Survey:

Well: County = 95 Permit = 1412 [Link to all digital records for well](#)

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

Well Reassignment Information: Reassigned From

OLD_COUNTY	OLD_PERMIT	NEW_COUNTY	NEW_PERMIT
95	1142	95	1412

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LOD_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:

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
4709501412	10/27/1990	Original Loc	Completed	Juanita L Weedon	10		FM Lemasters	47221-00	Grace L Teters	Pennzoil Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AI
4709501412	10/27/1990	9/14/1990	996 Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3000		3000			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
4709501412	10/27/1990	Horizon	Injection	Vertical	2906	Gordon	2916	Gordon	0	0	0	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	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

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
4709501412	Original Loc	Little Lime	Well Record	2033	Reasonable	17	Reasonable	996	Ground Level
4709501412	Original Loc	Big Lime	Well Record	2066	Reasonable	100	Reasonable	996	Ground Level
4709501412	Original Loc	Big Injun (undiff)	Well Record	2166	Reasonable	144	Reasonable	996	Ground Level
4709501412	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

There is no Sample data for this well

RECEIVED
 DEPT. of Energy
 APR 15 91
 Mining
 Gas Sector

24-Jul-90
 API # 47- 95-01412 S

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
 VIENNA, WV 26105-5519

Agent: JAMES A. CREWS

Inspector: GLEN P. ROBINSON
 Permit Issued: 07/24/90
 Well work Commenced: 9-14-90
 Well work Completed: 10-27-90

Verbal Plugging
 Permission granted on: _____
 Rotary Cable _____ Rig
 Total Depth (feet) 3000
 Fresh water depths (ft) _____

Salt water depths (ft) _____

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft. To surface
8-5/8	314	314	240 sks.
4-1/2	2979	2979	300 sks.

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
 Static rock Pressure _____ psig (surface pressure) after _____ Hours

Second producing formation N/A 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

* 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

By: Timothy P. Roush
 Date: April 11, 1991

APR 18 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	00-436
Sand	436-470
Shale	470-790
Sand	790-820
Shale	820-860
Sand	860-888
Shale	888-1210
Sand	1210-1248
Shale	1248-1302
Sand	1302-1332
Shale	1332-1424
Sand	1424-1464
Shale	1464-1542
Sand	1542-1555
Shale	1555-1608
Sand	1608-1619
Shale	1619-1645
Sand	1645-1671
Shale	1671-1719
Sand	1719-1756
Shale	1756-1837
Sand	1837-1860
Shale	1860-2033
Little Lime	2033-2050
Shale	2050-2066
Big Lime	2066-2166
Big Injun	2166-2310
Shale	2310-2900
Gordon	2900-2919
Shale	2919-3000
T.D.	3000'



Select County: (095) Tyler (Check All)

Enter Permit #: 1416

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
- [WVGES Main](#)
- ["Pipeline-Plus"](#)

WV Geological & Economic Survey:

Well: County = 95 Permit = 1416 [Link to all digital records for well](#)

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

Well Reassignment Information: Reassigned From

OLD_COUNTY	OLD_PERMIT	NEW_COUNTY	NEW_PERMIT
95	1139	95	1416

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4709501416	Tyler	1416	McElroy	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_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_A	
4709501416	11/29/1990	10/21/1990	1235	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3206		3206			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
4709501416	11/29/1990	Horizon	Injection	Vertical	3144	Gordon	3154	Gordon	0	0	0	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
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

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
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 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

4709501416

Well Operator's Report of Well Work

Farm name: DELONG, VERNON & ELIZ. Operator Well No.: F. R. BALL 20

LOCATION: Elevation: 1235.00 Quadrangle: CENTER POINT

District: MCELROY County: TYLER
 Latitude: 925 Feet South of 39 Deg. 27Min. 30 Sec.
 Longitude 5480 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
 Permit Issued: 07/30/90
 Well work Commenced: 10-21-90
 Well work Completed: 11-29-90
 Verbal Plugging
 Permission granted on:
 Rotary X Cable _____ Rig
 Total Depth (feet) 3206'
 Fresh water depths (ft) _____

Salt water depths (ft) _____

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

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			To Surface
8-5/8	490	490	360 Sks.
4-1/2	3186.70	3186.70	300 Sks.

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 3144-3174
 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

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

* Water injection well - not tested.

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

For: PENNZOIL PRODUCTS COMPANY

By: Timothy P. Roush Timothy P. Roush
 Date: April 17, 1991

APR 19 1991

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.

<u>Well Log</u>	
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'



Select County: (095) Tyler (Check All)

Enter Permit #: 1417

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
- [WVGES Main](#)
- ["Pipeline-Plus"](#)

WV Geological & Economic Survey:

Well: County = 95 Permit = 1417 [Link to all digital records for well](#)

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

Well Reassignment Information: Reassigned From

OLD_COUNTY	OLD_PERMIT	NEW_COUNTY	NEW_PERMIT
95	1141	95	1417

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_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4709501417	12/8/1990	Original Loc	Completed	John Jones	4		J B Gorrell	RG 2171-00	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	G_BEF	G_AF
4709501417	12/8/1990	11/11/1990	877	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2856		2856			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
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.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	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

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
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 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

REC-35
 APR 15 1991
 Division of Oil and Gas

30-Jul-90
 API # 47- 95-01417 S

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

4709501417

Well Operator's Report of Well Work

Farm name: JONES, JOHN L. / LELAND 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
 Permit Issued: 07/30/90
 Well work Commenced: 11-11-90
 Well work Completed: 12-8-90
 Verbal Plugging
 Permission granted on: _____
 Rotary x Cable _____ Rig
 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 & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft. To surface
8-5/8	213	213	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 _____ 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 N/A 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

* 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: Timothy P. Roush Timothy P. Roush
 Date: April 11, 1991

9

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	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.	2856'

10787



Select County: (095) Tyler (Check All)

Enter Permit #: 1418

Get Data Reset

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
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- ["Pipeline-Plus"](#)

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	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4709501418	11/15/1990	Dvtd Orgnl Loc	Completed	J Jones	5		JB Gorrell	RG 2171-00	Pennzoil Co	Pennzoil Products Company		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_BEFF	G
4709501418	11/15/1990	10/1/1990	1232 Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon		Development Well	Water Injection	Rotary	Acid+Frac		3285	3285			0

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEFF	G_AFT	O_BEFF	O_AFT	WATER_QNTY
4709501418	11/15/1990	Water Flood	Injection	Deviated	3210	Gordon	3220	Gordon	0	0	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
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

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
- There is no Sample data for this well

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

4709501418

Well Operator's Report of Well Work

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

LOCATION: Elevation: 1232.00 Quadrangle: CENTER POINT

District: MCELROY County: TYLER
Latitude: 1550 Feet South of 39 Deg. 27Min. 30 Sec.
Longitude 7150 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
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 _____ Rig
Total Depth (feet) 3285'
Fresh water depths (ft) _____

Salt water depths (ft) _____

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

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

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 3206-3244
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

Second producing formation N/A 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

* Not tested, WF producer.

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

For: PENNZOIL PRODUCTS COMPANY

By: Timothy P. Roush
Date: April 11, 1991

APR 19 1991

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 County: (095) Tyler (Check All)

Enter Permit #: 1420

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
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- ["Pipeline-Plus"](#)

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_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4709501420	10/23/1990	Dvtd Orgnl Loc	Completed	Jerry Walters	8		M H Pennick	RG 2165-00	Pennzoil Co	Pennzoil Company			
4709501420	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	G_BEF	G_AFT
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	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	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
4709501420	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501420	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501420	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501420	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501420	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501420	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
4709501420	Pennzoil Products Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501420	Pennzoil Products Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501420	Pennzoil Products Company	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501420	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501420	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501420	Pennzoil Products Company	1997	0	0	0	0	0	0	0	0	0	0	0	0	0

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

There is no Production Water data for this well

Stratigraphy Information:

API	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	Dvtd Orgnl Loc	Gordon	Well Record	2942	Reasonable	58	Reasonable	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

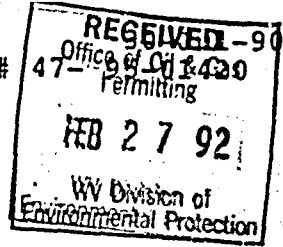
There is no Plugging data for this well

There is no Sample data for this well

4709501420

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

API #



Well Operator's Report of Well Work

Farm name: WALTERS, JERRY

Operator Well No.: M.H. PENNICK 8

LOCATION: Elevation: 852.00 Quadrangle: CENTER POINT

District: MCELROY County: TYLER
Latitude: 150 Feet South of 39 Deg. 27Min. 30 Sec.
Longitude 7650 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
Permit Issued: 07/30/90
Well work Commenced: 9-1-90
Well work Completed: 10-23-90
Verbal Plugging
Permission granted on: _____
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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft. To surface
8-5/8	210	210	160 Sks.
4-1/2	2999.35	2999.35	300 Sks.

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 2942-3000
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

Second producing formation N/A 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

* 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

By: Timothy P. Roush Timothy P. Roush
Date: April 11, 1991

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	2154-2300
Shale	2303-2942
Gordon	2942-3000
Shale	3000-3015
T.D.	3015'



Select County: (095) Tyler (Check All)

Enter Permit #: 1501

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
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- ["Pipeline-Plus"](#)

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	TAX_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	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST
4709501501	5/1/1993	Original Loc	Completed	Frances & C I Wadsworth	20		Jasper Lemasters	RG 2171-00	Don E Riddle	Pennzoil Products Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT
4709501501	5/1/1993	9/3/1992	1186	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3220		3220		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
4709501501	5/1/1993	Horizon	Injection	Vertical	3086	Gordon	3091	Gordon	0	0	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
4709501501	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501501	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
4709501501	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501501	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
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 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 Protection
Section of Oil and Gas

4709501501

SEP 15 93

Permitting
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: WADSWORTH, FRANCIS & C.I.

Operator Well No.: JASPER LEMASTERS #20

LOCATION: Elevation: 1186.00 Quadrangle: CENTER POINT

District: MCELROY County: TYLER
Latitude: 12,350 Feet South of 39 Deg. 30Min. 0 Sec.
Longitude 7,250 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:
Well work Commenced: 09/03/92
Well work Completed: 05/01/93
Verbal Plugging
Permission granted on:
Rotary X Cable _____ Rig
Total Depth (feet) 3220
Fresh water depths (ft) N/A

Salt water depths (ft) N/A

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	450.59'	450.49'	To Surface 300 sks.
4-1/2"	3173.60'	3173.60'	300 sks.

OPEN FLOW DATA (Water Injection Well)

Producing formation Gordon Pay zone depth (ft) 3056-3095
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

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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

For: Timothy P. Roush
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	575 - 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 County: (095) Tyler (Check All)

Enter Permit #: 1506

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
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- ["Pipeline-Plus"](#)

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_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_ES
4709501506	12/14/1992	Original Loc	Completed	James L McCoy	K-12		L J Lemasters	67696-00	Pennzoil Products Co et al	Pennzoil Products Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_A
4709501506	12/14/1992	11/19/1992	1150	Ground Level	Jksnbg-Strngtnw	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3190		3190			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
4709501506	12/14/1992	Horizon	Injection	Vertical	3046	Gordon	3050	Gordon	0	0	0	0	
4709501506	12/14/1992	Horizon	Injection	Vertical	3054	Gordon	3062	Gordon	0	0	0	0	
4709501506	12/14/1992	Horizon	Injection	Vertical	3066	Gordon	3077	Gordon	0	0	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
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:

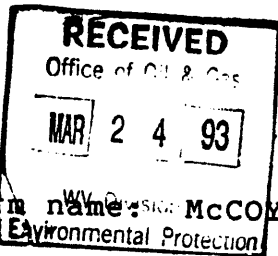
* There is no Scanned/Raster Log data for this well

* 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

There is no Sample 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: McCoy, JAMES L.

Operator Well No.: LEMASTERS K-12

LOCATION: Elevation: 1150.00 Quadrangle: CENTER POINT

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

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8	441.0	441.0	To Surface 100 Sks.
4 1/2	3160.25	3160.25	300 Sks.

Agent: JAMES A. CREWS

Inspector: MIKE UNDERWOOD
Permit Issued: 10/26/92
Well work Commenced: 11/19/92
Well work Completed: 12/14/92

Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 3190'
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

OPEN FLOW DATA (Water Injection Well)

Producing formation Gordon Pay zone depth (ft) 3025' - 3084'
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

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY
Timothy P. Roush
By: Supervisor - Surveying/Mapping
Date: 3-3-93

Reviewed TMG
Recorded _____

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
Gordon	3025 - 3084
T.D.	3190

DF - 411

DFT - 419

RECEIVED
 Environmental
 MAR 18 93
 Office of Environmental
 Affairs



Select County: (095) Tyler (Check All)

Enter Permit #: 1509

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
- [WVGES Main](#)
- ["Pipeline-Plus"](#)

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:

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
4709501509	12/31/1992	Dvtd Orgnl Loc	Completed	Paul M Haynes	J-10		S P Lemasters	67696-00	Pennzoil Products Co et al	Pennzoil Products Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AI	
4709501509	12/31/1992	12/9/1992	911	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2985		2985			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
4709501509	12/31/1992	Water Flood	Injection	Deviated	2914	Gordon	2924	Gordon	0	0	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
4709501509	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501509	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
4709501509	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501509	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
4709501509	Dvtd Orgnl Loc	Gordon	Well Record	2900	Reasonable	50	Reasonable	911	Ground Level

Wireline (E-Log) Information:

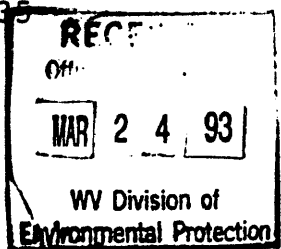
* There is no Scanned/Raster Log data for this well

* 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 Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: HAYNES, PAUL M. Operator Well No.: LEMASTERS J-10 S.P.

LOCATION: Elevation: 911.00 Quadrangle: CENTER POINT

District: MCELROY County: TYLER
Latitude: 13200 Feet South of 39 Deg. 30Min. 0 Sec.
Longitude 4650 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: 11/02/92
Well work Commenced: 12/9/92
Well work Completed: 12/31/92
Verbal Plugging _____
Permission granted on: _____
Rotary X Cable _____ Rig _____
Total Depth (feet) 2985'
Fresh water depths (ft) N/A
Salt water depths (ft) N/A
Is coal being mined in area (Y/N)? N
Coal Depths (ft): N/A

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8	220.75	220.75	To Surface 50 Sks.
4 1/2	2944.10	2944.10	300 Sks.

OPEN FLOW DATA (Water Injection Well)

Producing formation Gordon Pay zone depth (ft) 2906 - 2928
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock Pressure _____ psig (surface pressure) after _____ Hours

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

Reviewed TM6
Recorded _____

For: PENNZOIL PRODUCTS COMPANY
 Timothy P. Roush
 By: Supervisor - Surveying/Mapping
 Date: 3-3-93

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

DP - 411
 DP - 419

MAR 18 93
 Permitting
 Office of Oil & Gas



Select County: (095) Tyler (Check All)

Enter Permit #: 1510

Get Data Reset

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
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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](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4709501510	Tyler	1510	McElroy	Center Point	Centerpoint	39.466004	-80.674533	527997	4368542.2

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_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 Over	Completed	Mark E Talkington	M-10		SP Lemasters	67696-00	East Resources Inc et al	East 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_BEFF	G_AFF
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	0
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		

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_BEFF	G_AFF	O_BEFF	O_AFF	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	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

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:

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
4709501510	Original Loc	Gordon	Well Record	2991	Reasonable	53	Reasonable	1114	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 Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: TALKINGTON, MARK Operator Well No.: S. P. LEMASTERS M-10

LOCATION: Elevation: 1,114.00 Quadrangle: CENTERPOINT 7.5'

District: MCELROY County: TYLER
Latitude: 12,700 Feet south of 39 Deg 30 Min 0 Sec.
Longitude: 2,300 Feet west of 80 Deg 40 Min 00 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: JOE TAYLOR

Permit Issued: 01/18/11

Well work Commenced: 08/15/11

Well work Completed: 08/17/11

Verbal plugging permission granted on:

Rotary X Cable _____ Rig _____

Total Depth (feet) 3142

Fresh water depths (ft) NONE

Salt water depths (ft) NONE

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

Coal Depths (ft): NONE

Casing/ tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	393.50'	220'	150 sks
4 1/2"	3083.25'	3083.25'	300 sks

OPEN FLOW DATA *WATERFLOOD INJECTOR

Producing formation Gordon Pay zone depth (ft) 2991-3044

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

Second producing formation _____ Pay zone depth (ft) _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock pressure _____ psig (surface pressure) _____ after _____ Hours

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

For: EAST RESOURCES, INC.
By: [Signature]
Date: 2/11/13

RECEIVED
Office of Oil and Gas
FEB 22 2013

4709501510

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

TW
LrH



Select County: (095) Tyler (Check All)

Enter Permit #: 1511

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

- [Table Descriptions](#)
- [County Code Translations](#)
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- [Usage Notes](#)
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- ["Pipeline-Plus"](#)

WV Geological & Economic Survey:

Well: County = 95 Permit = 1511 [Link to all digital records for well](#)

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

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4709501511	Tyler	1511	McElroy	Center Point	Centerpoint	39.470354	-80.673972	528043.5	4369025.2

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_ES
4709501511	5/1/1993	Original Loc	Completed	Donald L McCoy	M-12		L J Lemasters	67696-00	Pennzoil Products Co et al	Pennzoil Products Company			
4709501511	-/-	Worked Over	Cancelled	Donald L McCoy	M-12		L J Lemasters	67696-00	H G Energy LLC 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	NEW_FTG	KOD	G_BEF	G_AFT
4709501511	-/-	-/-	1033	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3050		3050		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
4709501511	5/1/1993	Horizon	Injection	Vertical	2948	Gordon	2958	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
4709501511	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501511	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
4709501511	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501511	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
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

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

4709501511

Well Operator's Report of Well Work

Farm name: McCOY, DONALD L.

Operator Well No.: LEMASTERS M-12

LOCATION: Elevation: 1033.00 Quadrangle: CENTER POINT

District: MCELROY County: TYLER
 Latitude: 10800 Feet South of 39 Deg. 30Min. 0 Sec.
 Longitude 2150 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: 11/02/92
 Well work Commenced: 01/04/93
 Well work Completed: 05/01/93
 Verbal Plugging
 Permission granted on: _____
 Rotary X Cable _____ Rig
 Total Depth (feet) 3050'
 Fresh water depths (ft) N/A

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	309'	309'	140 sks.
4-1/2"	3038.75'	3038.75'	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 Well)

Producing formation Gordon Pay zone depth (ft) 2914-2970
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock Pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY WV Department of Environmental Protection

By: Timothy P. Roush, Supervisor Surveying/Mapping
 Date: September 14, 1993

RECEIVED
 NOV 20 2013

Treatment

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

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

Well Record

Sand and Shale	0 - 497
Shale	497 - 694
Limestone	694 - 745
Shale	745 - 860
Limestone	860 - 870
Shale	870 - 913
Sand and Shale	913 - 1062
Shale	1062 - 1238
Sand	1238 - 1284
Shale	1284 - 1454
Sand	1454 - 1806
Shale	1806 - 1875
Sand	1875 - 1982
Shale	1982 - 2072
Little Lime	2072 - 2086
Shale	2086 - 2114
Big Lime	2114 - 2167
Big Injun	2167 - 2355
Shale	2355 - 2914
Gordon	2914 - 2970
T.D.	3050



Select County: (095) Tyler (Check All)

Enter Permit #: 1512

Get Data Reset

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
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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	Pennzoil Products Co et al	Pennzoil Products Company			
4709501512	-/-	Dvtd Wrkd Ovr	Cancelled	Donald L McCay	M-14		C C Pennick		H G Energy LLC et al	HG Energy, LLC	3136	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_AF
4709501512	5/1/1993	12/20/1992	1030	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3136		3136			0
4709501512	-/-	-/-	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:

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 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 Protection
 Section of Oil and Gas

API # 47- 95- 01512 S R

4709501512

Well Operator's Report of Well Work

Farm name: McCOY, DONALD L.

Operator Well No.: C. C. PENNICK M-14

LOCATION: Elevation: 1030'

Quadrangle: CENTER POINT

District: MCELROY

County: TYLER

Latitude: 9,200 Feet South of 39 Deg. 30Min. 0 Sec.

Longitude 2,550 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: 11/02/92

Well work Commenced: 12/20/92

Well work Completed: 05/01/93

Verbal Plugging

Permission granted on: _____

Rotary X Cable _____ Rig

Total Depth (feet) 3136'

Fresh water depths (ft) N/A

Salt water depths (ft) N/A

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

Coal Depths (ft): N/A

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	307.55'	307.55'	140 sks.
4-1/2"	3082.45'	3082.45'	300 sks.

OPEN FLOW DATA (Water Injection Well)

Producing formation Gordon Pay zone depth (ft) 2994-3054
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock Pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY

By: Timothy P. Roush, Supervisor - Surveying/Mapping
 Date: September 14, 1993

Treatment

Perforated: Gordon w/4 holes 3024' - 3026'
w/20 holes 3029' - 3039'
Treated: w/300 gal. 15% HCL acid, 278 bbls. gelled water, 1500# 80/100 sand
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	735 - 865
Sand and Shale	865 - 1120
Sand	1120 - 1160
Sand and Shale	1160 - 1290
Shale	1290 - 1475
Sand	1475 - 1596
Shale	1596 - 1675
Sand	1675 - 1834
Shale	1834 - 1922
Sand and Shale	1922 - 2035
Shale	2035 - 2130
Little Lime	2130 - 2144
Shale	2144 - 2172
Big Lime	2172 - 2225
Big Injun	2225 - 2414
Shale	2414 - 2994
Gordon	2994 - 3054
T.D.	3136



Select County: (095) Tyler (Check All)

Enter Permit #: 1515

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
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- ["Pipeline-Plus"](#)

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	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM
4709501515	2/16/1993	Original Loc	Completed	Pennzoil Products Co	L-8		Christina McCoy		Pennzoil Products Co et al	Pennzoil Products Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AF
4709501515	2/16/1993	1/9/1993	1000	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3005		3005			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
4709501515	2/16/1993	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
4709501515	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501515	Pennzoil Products Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501515	East Resources, Inc.	2006	1,779	186	133	132	169	134	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.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4709501515	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
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:

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
4709501515	Original Loc	Gordon	Well Record	2874	Reasonable	60	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

There is no Sample data for this well

SEP 15 93

Permitting
Office of Oil & Gas

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

API # 47- 95- 01515 S

4709501515

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

Salt water depths (ft) N/A

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

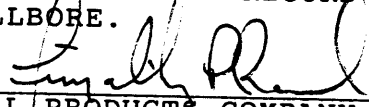
Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	309.40'	309.40'	150 sks.
4-1/2"	2984.35'	2984.35'	300 sks.

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
Static rock Pressure _____ psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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


For: PENNZOIL PRODUCTS COMPANY

By: Timothy P. Roush, Supervisor, Surveying/Mapping
Date: September 14, 1993

SEP 16 1993

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 - 2934
T.D.	3005

DF 411

DF-49



Select County: (095) Tyler (Check All)

Enter Permit #: 1524

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
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- ["Pipeline-Plus"](#)

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	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4709501524	10/20/1993	Original Loc	Completed	Earl & Edith Glover	M-9		Nancy Allen	57107-00	Pennzoil Products 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	G_BEF	G_AI
4709501524	10/20/1993	8/5/1993	1355	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3326		3326			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
4709501524	10/20/1993	Water Flood	Injection	Vertical	3260	Gordon	3268	Gordon	0	0	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
4709501524	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501524	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
4709501524	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501524	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
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 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 Protection
Section of Oil and Gas

4709501524

Well Operator's Report of Well Work

Farm name: GLOVER, EARL & EDITH Operator Well No.: NANCY ALLEN M-9

LOCATION: Elevation: 1,355.00 Quadrangle: CENTER POINT

District: MCELROY County: TYLER
Latitude: 14200 Feet South of 39 Deg. 30Min. Sec.
Longitude 2050 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: 03/24/93
Well work Commenced: 08/05/93
Well work Completed: 10/20/93
Verbal Plugging
Permission granted on: _____
Rotary x Cable _____ Rig
Total Depth (feet) 3326'
Fresh water depths (ft) N/A

Salt water depths (ft) N/A

Is coal being mined in area (Y/N)? N
Coal Depths (ft): 673'

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			To surface
8-5/8	645'	645'	50 sks.
4-1/2	3316.80	3316.80	300 sks.

OPEN FLOW DATA

WATER INJECTION WELL

Producing formation Gordon Pay zone depth (ft) 3245'-3277'
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

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY

By: [Signature]
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



Select County: (095) Tyler (Check All)

Enter Permit #: 1530

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

- [Table Descriptions](#)
- [County Code Translations](#)
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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_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PP
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 J Kinney	D-7		W J Wharton	13256-50	East Resources et al	East Resources, Inc.	3021	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_AFT
4709501530	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	0
4709501530	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	Dry	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:

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 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

REQUIRED
Office of Oil & Gas

APR 26 2010

WV Department of
Environmental Protection

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

4709501530

Well Operator's Report of Well Work

Farm name: KINNEY, EDWIN J.

Operator Well No.: W. J. WHARTON D - 7

LOCATION: Elevation: 1013'

Quadrangle: CENTERPOINT 7.5'

District: MCELROY

County: TYLER

Latitude: 550 Feet south of 39 Deg 27 Min 30 Sec.

Longitude: 10,400 Feet west of 80 Deg 40 Min 00 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: JOE TAYLOR

Permit Issued: 12/30/09

Well work Commenced: 02/01/10

Well work Completed: 02/01/10

Verbal plugging permission granted on:

Rotary X Cable _____ Rig _____

Total Depth (feet) 3,021

Fresh water depths (ft) _____

Salt water depths (ft) _____

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

Coal Depths (ft): NA

Casing/ tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	263.5'	263.5'	50 sks
4 1/2"	3001.5'	3001.5'	300 sks

OPEN FLOW DATA * WATERFLOOD PRODUCER

Producing formation Gordon Pay zone depth (ft) 2896'-2924'
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: EAST RESOURCES, INC
By: [Signature]
Date: 4/23/10

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 (Check All)

Enter Permit #: 1531

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
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- [Disclaimer](#)
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- ["Pipeline-Plus"](#)

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	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TR
4709501531	10/15/1993	Original Loc	Completed	Yvonne Wadsworth/Juanita Weedon	D-6		F M Lemasters	47221-00	Pennzoil Products Co et al	Pennzoil Products Company		

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AI
4709501531	10/15/1993	5/17/1993	1105	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3090		3090			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
4709501531	10/15/1993	Horizon	Injection	Vertical		Gordon	2982	Gordon	2990	0	0	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
4709501531	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501531	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
4709501531	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501531	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
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 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 Protection
Section of Oil and Gas

4709501531

Well Operator's Report of Well Work

DEC 07 93

Farm name: WADSWORTH, YVONNE

Operator Well No.: LEMASTERS D-6

LOCATION: Elevation: 1,105.00 Quadrangle: CENTER POINT

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: 5/17/93
Well work Completed: 10/15/93
Verbal Plugging _____
Permission granted on: _____
Rotary X Cable _____ Rig _____
Total Depth (feet) 3090
Fresh water depths (ft) N/A
Salt water depths (ft) N/A

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

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

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 2952 - 2990
 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
 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: [Signature]
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
T.D.	3090

DF - 411
DFT - 419



Select County: (095) Tyler (Check All)

Enter Permit #: 1532

Get Data Reset

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
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- ["Pipeline-Plus"](#)

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](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4709501532	Tyler	1532	McElroy	Center Point	Centerpoint	39.474559	-80.696052	526142.7	4369485.2

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_ES
4709501532	8/16/1993	Original Loc	Completed	Darrell Stackpole et ux	F-14		J H Dawson	13568-50	Pennzoil Products Co et al	Pennzoil Products Company			
4709501532	3/6/2004	Worked Over	Completed	Grace Stackpole	F-14		J H Dawson	13568-50	East Resources et al	East 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
4709501532	8/16/1993	7/15/1993	1381	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Fractured	3375			3375		
4709501532	3/6/2004	3/2/2004	1381	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3375			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
4709501532	3/6/2004	Horizon	Injection	Vertical	3248	Gordon	3254	Gordon					
4709501532	8/16/1993	Horizon	Injection	Vertical	3248	Gordon	3254	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
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

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:

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

There is no Sample data for this well

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

Apr 17

Well Operator's Report of Well Work

Farm name: STACKPOLE, DARRELL, ETUX.
LOCATION: Elevation: 1,381.00
District: MCELROY
Latitude: 9,400 Feet south of
Longitude: 8,300 Feet west of

Operator Well No.: J H DAWSON F-14
Quadrangle: CENTERPOINT 7.5'
County: TYLER
39 Deg 30 Min 0 Sec.
80 Deg 40 Min 00 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519
Agent: PHILIP S. ONDRUSEK
Inspector: MIKE UNDERWOOD
Permit Issued: 12/04/03
Well work Commenced: 03/02/04
Well work Completed: 03/06/04
Verbal plugging permission granted on:
Rotary X Cable _____ Rig _____
Total Depth (feet) 3375
Fresh water depths (ft) NA
Salt water depths (ft) NA
Is coal being mined in area (Y/N) _____ N
Coal Depths (ft): _____ NA _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	638.00'	638.00'	200 sks
4 1/2"	3339.00'	3339.00'	300 sks

RECEIVED
Office of Oil & Gas
Office of Chief
MAY 20 2004
WV Department of
Environmental Protection

OPEN FLOW DATA Water Injection Well

Producing formation Gordon Pay zone depth (ft) 3214-3278

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

Second producing formation _____ Pay zone depth (ft) _____

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

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

For: EAST RESOURCES, INC.
By: *[Signature]*
Date: 5/18/04

Treatment : 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



Select County: (095) Tyler (Check All)

Enter Permit #: 1533

Get Data Reset

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

- [Table Descriptions](#)
- [County Code Translations](#)
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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_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_F
4709501533	9/12/1994	Dvtd Orgnl Loc	Completed	State of WV	N-10-B		JT Eddy	47220-00	Pennzoil Products Co et al	Pennzoil Products Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AF
4709501533	9/12/1994	7/13/1994	1427	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3788		3788			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
4709501533	9/12/1994	Water Flood	Injection	Deviated	3668	Gordon	3674	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
4709501533	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
4709501533	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
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

There is no Sample data for this well

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

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 Quadrangle: Centerpoint

District: MCELROY County: TYLER
Latitude: 1,250 Feet South of 39 Deg.30 Min. Sec.
Longitude 11,650 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: 05/12/93
Well work Commenced: 07/13/94
Well work Completed: 09/12/94
Verbal Plugging
Permission granted on:
Rotary X Cable _____ Rig
Total Depth (feet) 3788
Fresh water depths (ft) N/A
Salt water depths (ft) N/A

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

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			To surface
8-5/8	1410	1410	550 sks
4-1/2	3768	3768	300 sks.

OPEN FLOW DATA * Water Injection Well

Producing formation Gordon Pay zone depth (ft) 3668-3675
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

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY
By: [Signature]
Date: 1/4/95

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)

Sand & Shale	0' - 860'
Sand	860' - 894'
Shale	894' - 1082'
Sand	1082' - 1122'
Shale	1122' - 1241'
Pencil Cave	1241' - 1250'
Shale	1250' - 1312'
Sand	1312' - 1338'
Sand & Shale	1338' - 2050'
Sand	2050' - 2110'
Sand & Shale	2110' - 2472'
Big Lime	2472' - 2476'
Shale	2476' - 2511'
Big Injun	2511' - 2821'
Shale	2821' - 3622'
Stray	3622' - 3624'
Shale	3624' - 3645'
Gordon	3645' - 3696'
T.D.	3788'



Select County: (095) Tyler (Check All)

Enter Permit #: 1535

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

- [Table Descriptions](#)
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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	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFF
4709501535	9/16/1993	Original Loc	Completed	Frances & C I Wadsworth	H-12		A D Lemasters	12958-50	Pennzoil Products Co et al	Pennzoil Products Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AF
4709501535	9/16/1993	7/9/1993	1379	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Fractured	3390		3390			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
4709501535	9/16/1993	Horizon	Injection	Vertical	3260	Gordon	3276	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
4709501535	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501535	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
4709501535	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501535	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
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

There is no Sample data for this well

JAN 16 1996

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

4709501535

Permitting
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: WADSWORTH, FRANCES & C.I. Operator Well No.: LEMASTERS H-12

LOCATION: Elevation: 1,379.00 Quadrangle: CENTER POINT

District: MCELROY County: TYLER
Latitude: 10800 Feet South of 39 Deg. 30Min. Sec.
Longitude 7200 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: 05/25/93
Well work Commenced: 07/09/93
Well work Completed: 09/16/93
Verbal Plugging
Permission granted on:
Rotary X Cable _____ Rig
Total Depth (feet) 3390'
Fresh water depths (ft) N/A

Salt water depths (ft) N/A

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	649'	649'	205 sks.
4-1/2"	3348.65'	3348.65'	300 sks.

OPEN FLOW DATA (Water Injection Well)

Producing formation Gordon Pay zone depth (ft) 3235-3302
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/
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 _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/
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

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATE 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 WELLS.

For: Timothy P. Roush
PENNZOIL PRODUCTS COMPANY

By: Timothy P. Roush, Supervisor, Surveying/Mapping

Date: September 15, 1993

TYL 15355

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	660 - 834
Sand & Shale	834 - 985
Limestone & Shale	985 - 1040
Limestone	1040 - 1086
Shale	1086 - 1200
Limestone	1200 - 1220
Shale	1220 - 1250
Sand & Shale	1250 - 1475
Shale	1475 - 1610
Sand	1610 - 1680
Shale	1680 - 1835
Sand & Shale	1835 - 2005
Sand	2005 - 2030
Shale	2030 - 2180
Sand	2180 - 2220
Shale	2220 - 2385
Little Lime	2385 - 2398
Shale	2398 - 2412
Blue Monday	2412 - 2440
Big Lime	2440 - 2490
Big Injun	2490 - 2680
Shale	2680 - 3235
Gordon	3235 - 3302
Total Depth	3390'



Select County: (095) Tyler (Check All)

Enter Permit #: 1539

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
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- [WVGES Main](#)
- ["Pipeline-Plus"](#)

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	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4709501539	5/25/1994	Original Loc	Completed	Stackpole Heirs	F-12		J H Dawson	13568-50	Pennzoil Products 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	G_BEF	G_AF	
4709501539	5/25/1994	6/7/1993	961	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2966		2966			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
4709501539	5/25/1994	Horizon	Injection	Vertical	2849	Gordon	2852	Gordon	0	0			
4709501539	5/25/1994	Horizon	Injection	Vertical	2855	Gordon	2858	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
4709501539	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501539	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
4709501539	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501539	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
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

There is no Sample data for this well

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

AP# # 47-95 - 01539-5

4709501539

Well Operator's Report of Well Work

Farm name: Stackpole Heirs

Operator Well No.: J. H. Dawson F-12

LOCATION: Elevation: 961'

Quadrangle: Centerpoint

District: McElroy County: Tyler
Latitude: 8500 Feet South of 39 Deg. 30 Min. 00 Sec.
Longitude 10950 Feet West of 80 Deg. 40 Min. 00 Sec.

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

Agent: JAMES A. CREWS

Inspector: Mike Underwood
Permit Issued: 5/20/93
Well work Commenced: 6/7/93
Well work Completed: 5/25/94

Verbal Plugging
Permission granted on: _____
Rotary Cable _____ Rig
Total Depth (feet) 2966'
Fresh water depths (ft) N/A

Salt water depths (ft) N/A

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8	220'	220'	100 Sk.
4-1/2	2922.25	2922.25	300 Sk.

OPEN FLOW DATA

WATER INJECTION WELL

Producing formation Gordon Pay zone depth (ft) 2822'-2882'
 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
 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: [Signature]
Date: 7/8/94

JUL 11 1994

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'
T.D.	2966'



Select County: (095) Tyler (Check All)

Enter Permit #: 1541

Get Data Reset

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
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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:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM
4709501541	9/28/1993	Horizon	Original Loc	Completed	Darrell & Grace Stackpole	F-9	R M Stackpole	12959-50	Pennzoil Products Co et al	Pennzoil Products Company		
4709501541	-/-	Worked Over	Cancelled		Luella Edna Stackpole et al	F-9	R M Stackpole		East Resources et al	East 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
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

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:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4709501541	Original Loc	Little Lime	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
4709501541	Original Loc	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

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 Protection
Section of Oil and Gas

4709501541

Well Operator's Report of Well Work

DEC 07 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. Sec.
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
Well work Completed: 9/28/93

Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 3420
Fresh water depths (ft) N/A

Salt water depths (ft) N/A

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8	507	507	165 Sks.
4 1/2	3389.3	3389.3	300 Sks.

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 3262 - 3318
Gas: Initial open flow * _____ MCF/d Oil: Initial open flow * _____ Bbl/c
Final open flow * _____ MCF/d Final open flow * _____ Bbl/c
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/c
Final open flow _____ MCF/d Final open flow _____ Bbl/c
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: [Signature]
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 -411

DFT-419



Select County: (095) Tyler (Check All)

Enter Permit #: 1542

Get Data Reset

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
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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_FM
4709501542	9/28/1993	Dvtd Orgnl Loc	Completed	Darrell & Grace Stackpole	F-11		Quintilla Huffman	FEE 2149	Pennzoil Products Co et al	Pennzoil Products Company	Gordon	
4709501542	-/-	Worked Over	Cancelled	Grace Stackpole et al	F-11		Quintilla Huffman	Fee 2129	HG Energy LLC et al	HG Energy, LLC	3407	Gordon (undiff)

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT
4709501542	9/28/1993	7/15/1993	1255	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3407	3407	3407		0	0
4709501542	-/-	-/-	1255	Ground Level														

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.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4709501542	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501542	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
4709501542	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501542	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
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 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 Protection
Section of Oil and Gas

4709501542

Well Operator's Report of Well Work

DEC 07 93

Farm name: STACKPOLE, DARRELL/ GRACE Operator Well No.: Q.HUFFMAN F-11

LOCATION: Elevation: 1,255.00 Quadrangle: CENTER POINT

District: MCELROY County: TYLER
Latitude: 12900 Feet South of 39 Deg. 30Min. Sec.
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: 7/15/93
Well work Completed: 9/29/93
Verbal Plugging
Permission granted on:
Rotary X Cable Rig
Total Depth (feet) 3407
Fresh water depths (ft) N/A

Salt water depths (ft) N/A

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8	508	508	165 Sks.
4 1/2	3373.40	3373.40	300 Sks.

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 3300 - 3365
 Gas: Initial open flow * MCF/d Oil: Initial open flow * Bbl/c
 Final open flow * MCF/d Final open flow * Bbl/c
 Time of open flow between initial and final tests Hour:
 Static rock Pressure psig (surface pressure) after Hour:
 * Water Injection Well - Not Tested
 Second producing formation Pay zone depth (ft)
 Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/c
 Final open flow MCF/d Final open flow Bbl/c
 Time of open flow between initial and final tests Hour:
 Static rock Pressure psig (surface pressure) after Hour:

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: [Signature]
Date: 12/6/93

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:

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
T.D.	3407

DF-411
DFT 419



Select County: (095) Tyler (Check All)

Enter Permit #: 1543

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
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- [Contact Information](#)
- [Disclaimer](#)
- [WVGES Main](#)
- ["Pipeline-Plus"](#)

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	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_ESI
4709501543	5/13/1994	Original Loc	Completed	Hugh & Darlene Carlton	E-8		J N Glover	13254-50	Pennzoil Products Co et al	Pennzoil Products Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AF	
4709501543	5/13/1994	6/13/1993	1001	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3021		3021			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
4709501543	5/13/1994	Horizon	Injection	Vertical	2879	Gordon	2886	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
4709501543	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501543	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
4709501543	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501543	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
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 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 Protection
Section of Oil and Gas

4709501543

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 Quadrangle: CENTER POINT

District: MCELROY County: TYLER
Latitude: 10950 Feet South of 39 Deg. 30Min. Sec.
Longitude 8500 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: 06/13/93
Well work Completed: 05/13/94

Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 3021'
Fresh water depths (ft) N/A

Salt water depths (ft) N/A

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

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			To surface
8-5/8	263'	263'	50 sks.
4-1/2	2994.94'	2994.94'	300 sks.

OPEN FLOW DATA

WATER INJECTION WELL

Producing formation Gordon Pay zone depth (ft) 2870'-2888'
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/c
Final open flow _____ MCF/d Final open flow _____ Bbl/c
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) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/c
Final open flow _____ MCF/d Final open flow _____ Bbl/c
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: [Signature]
Date: 7/8/94

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 (Check All)

Enter Permit #: 1554

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
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- [Disclaimer](#)
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- ["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	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TF
4709501554	11/20/1993	Original Loc	Completed	Jerry & Carl E Walters	15		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_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AI
4709501554	11/20/1993	10/6/1993	1011	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3052		3052			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
4709501554	11/20/1993	Horizon	Injection	Vertical	2906	Gordon	2915	Gordon	0	0	0	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
4709501554	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501554	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
4709501554	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501554	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
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
- There is no Sample data for this well

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

4709501554

Well Operator's Report of Well Work

Farm name: WALTERS, JERRY & CARL E. Operator Well No.: J.LEMASTERS #15

LOCATION: Elevation: 1,011.00 Quadrangle: CENTER POINT

District: MCELROY County: TYLER
Latitude: 225 Feet South of 39 Deg. 27Min. 30 Sec.
Longitude 8600 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: 09/17/93
Well work Commenced: 10/06/93
Well work Completed: 11/20/93
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 3052'
Fresh water depths (ft) N/A
Salt water depths (ft) N/A

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

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			to surface
8-5/8	270'	270'	50 sks.
4-1/2	2989.50'	2989.50'	300 sks.

OPEN FLOW DATA

WATER INJECTION WELL

Producing formation Gordon Pay zone depth (ft) 2900'-2918'
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock Pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY

By: [Signature]
Date: 7/8/94

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



Select County: (095) Tyler (Check All)

Enter Permit #: 1565

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
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- ["Pipeline-Plus"](#)

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_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
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			

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
4709501565	9/16/1994	7/30/1994	1243	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3237		3237			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
4709501565	9/16/1994	Horizon	Injection	Vertical	3135	Gordon	3139	Gordon	0	0			
4709501565	9/16/1994	Horizon	Injection	Vertical	3143	Gordon	3147	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
4709501565	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
4709501565	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
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

There is no Sample data for this well

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

4709501565

Well Operator's Report of Well Work

Farm name: GLOVER, ERNEST W.

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

LOCATION: Elevation: 1,243.00 Quadrangle: CENTER POINT

District: MCELROY County: TYLER
Latitude: 900 Feet South of 39 Deg. 27Min. 30 Sec.
Longitude 2400 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: 12/08/93
Well work Commenced: 07/30/94
Well work Completed: 09/16/94
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 3237'
Fresh water depths (ft) N/A
Salt water depths (ft) N/A

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			To surface
8-5/8	352	352	50 sks.
4-1/2	3195	3195	300 sks.

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) 3120-3148
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock Pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY

By: [Signature]
Date: 1/4/95

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 (Check All)

Enter Permit #: 1604

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

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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	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_E
4709501604	9/12/1994	Dvtd Orgnl Loc	Completed	John Jones/Joann Leland	K-5		F R Ball		Pennzoil Products Co et al	Pennzoil Products Company			
4709501604	3/24/2003	Dvtd Wrkd Ovr	Completed	John Jones/Joann Leland	K-5		F R Ball	15459-50	East Resources et al	East 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
4709501604	9/12/1994	6/4/1994	830	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3007			3007		0
4709501604	3/24/2003	3/20/2003	830	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3007					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
4709501604	3/24/2003	Water Flood	Injection	Deviated	2904	Gordon	2912	Gordon					
4709501604	9/12/1994	Water Flood	Injection	Deviated	2904	Gordon	2912	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
4709501604	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
4709501604	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
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

There is no Sample data for this well

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

John T. ...

Well Operator's Report of Well Work

Farm name: JONES, JOHN /JOANN LELAND Operator Well No.: F. R. BALL K-5

LOCATION: Elevation: 830' Quadrangle: CENTER POINT

District: MCELROY County: TYLER
Latitude: 2,950 Feet south of 39 Deg 27 Min 30 Sec.
Longitude: 4,250 Feet west of 80 Deg 40 Min 00 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: MICHAEL MCCOWN

Inspector: MIKE UNDERWOOD

Permit Issued: 02/24/03

Well work Commenced: 03/20/03

Well work Completed: 03/24/03

Verbal plugging permission granted on:

Rotary X Cable _____ Rig _____

Total Depth (feet) 3,007

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): NA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	219.50'	219.50'	50 sks
4 1/2"	2995'	2995'	300 sks

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Office of Oil & Gas
Permitting
MAR 26 2003
WV Department of
Environmental Protection

OPEN FLOW DATA

* Waterflood injection well

Producing formation Gordon Pay zone depth (ft) 2885'-2912'
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: EAST RESOURCES, INC.
By: *Ben Bolden*
Date: 5/24/05

4709501604

Treatment: Treated Gordon perforations 2904'-2912' with 250 gals 15% HCL, 290 bbls Crosslinked gel water and 15,300# 20/40 sand

Well Log See original well log



Select County: (095) Tyler (Check All)

Enter Permit #: 1621

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

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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	TAX_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	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_P
4709501621	9/16/1994	Original Loc	Completed	Ellen Muth	O-7		M A Eddy		Pennzoil Products Co et al	Pennzoil Products Company			
4709501621	-/-	Worked Over	Cancelled	Stephen M Jasko	O-7		M A Eddy	57201-00	H G Energy LLC et al	HG Energy, LLC	3148	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_AFT
4709501621	9/16/1994	7/23/1994	1148	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	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:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4709501621	Original Loc	Big Injun (Price&eq)	Well Record	2202	Reasonable	294	Reasonable	1148	Ground Level
4709501621	Original Loc	Gordon Stray	Well Record	3003	Reasonable	5	Reasonable	1148	Ground Level
4709501621	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
- There is no Sample data for this well

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

API # 47- 95-01621 S

4709501621

Well Operator's Report of Well Work

Farm name: MUTH, ELLEN ETAL.

Operator Well No.: M.A. EDDY 0-7

LOCATION: Elevation: 1,148.00 Quadrangle: CENTER POINT

District: MCELROY County: TYLER
Latitude: 400 Feet South of 39 Deg. 27Min. 30 Sec.
Longitude 300 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: 05/25/94
Well work Commenced: 07/23/94
Well work Completed: 09/16/94

Verbal Plugging
Permission granted on: _____

Rotary X Cable _____ Rig _____

Total Depth (feet) 3148'

Fresh water depths (ft) N/A

Salt water depths (ft) N/A

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft. To surface
8-5/8	396	396	170 sks.
4-1/2	3104.7	3104.7	300 sks.

OPEN FLOW DATA

* Water Injection Well

Producing formation Gordon Pay zone depth (ft) 3008-3062
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

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY

By: [Signature]
Date: 1/4/95

4709501621

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	1614'-1680'
Sand & Shale	1680'-2202'
Big Injun	2202'-2496'
Shale	2496'-3003'
Stray	3003'-3008'
Gordon	3008'-3062'
T.D.	3148'.



Select County: (095) Tyler (Check All)

Enter Permit #: 1626

Get Data Reset

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

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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](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4709501626	Tyler	1626	McElroy	Center Point	Centerpoint	39.474332	-80.704851	525386	4369457.4

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM
4709501626	8/18/1995	Original Loc	Completed	Gafford Wadsworth Jr	D-14		W L Fluharty	Fee-2831	Pennzoil Prod Co et al	Pennzoil Products Company			
4709501626	-/-	Worked Over	Permitted	Gafford Wadsworth Jr		WM Fluharty D-14		15577-50	East Resources Inc	East Resources, Inc.	3383	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_AF
4709501626	8/18/1995	6/15/1995	1375	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3383		3383			0
4709501626	-/-	-/-	1375	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
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_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4709501626	Original Loc	Gordon	Well Record	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

There is no Sample 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: WADSWORTH, GALFORD JR.

Operator Well No.: WM. FLUHARTY D-14

LOCATION: Elevation: 1,375

Quadrangle: CENTERPOINT

District: MCELROY
Latitude: 9,400 Feet south of
Longitude: 9,600 Feet west of

County: TYLER
39 Deg 30 Min 0 Sec.
80 Deg 40 Min 0 Sec.

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

Agent: PHILIP S. ONDRUSEK

Inspector: MIKE UNDERWOOD
Permit Issued: 3/27/95
Well work Commenced: 6/15/95
Well work Completed: 8/18/95
Verbal plugging permission granted on:
Rotary Cable Rig
Total Depth (feet) 3,383
Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8	621'	621'	270 SKS
4 1/2"	3352'	3352'	170 SKS
RECEIVED Office of Oil & Gas DEC 6 4 21 1995			
WV Department of Environmental Protection			

OPEN FLOW DATA

*Waterflood Injection Well

Producing formation GORDON Pay zone depth (ft) 3222-3238
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

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY

By: [Signature]
Date: 4/8/96

95-01626-F

4709501626

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'		



Select County: (095) Tyler (Check All)

Enter Permit #: 1627

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

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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	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:

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_
4709501627	8/18/1995	6/8/1995	1004	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3025		3025			0
4709501627	1/20/2014	12/11/2013	1004	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Fractured	3025					0
4709501627	-/-	-/-	1004	Ground Level						not available	unknown	unknown						

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4709501627	8/18/1995	Horizon	Injection	Vertical	2870	Gordon	2878	Gordon	0	0			
4709501627	1/20/2014	Water Flood	Injection	Vertical	2870	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:

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

There is no Sample data for this well

JK

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' Pad Name E LONGSTRETH Field/Pool Name STRIGTOWN
Farm name STACKPOLE, ALLEN D ET AL Well Number E-12
Operator (as registered with the OOG) H.G. ENERGY LLC
Address 5260 DUPONT ROAD City PARKERSBURG State WV Zip 26101

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,368,923 M Easting 525,550 M
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing M Easting M

Elevation (ft) 1,004' GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s)
N/A

Date permit issued 10/07/13 Date drilling commenced NA Date drilling ceased NA
Date completion activities began 12/11/13 Date completion activities ceased 1/20/14
Verbal plugging (Y/N) N Date permission granted _____ Granted by _____

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft None Open mine(s) (Y/N) depths N
Salt water depth(s) ft None Void(s) encountered (Y/N) depths N
Coal depth(s) ft None Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

RECEIVED
Office of Oil & Gas

Reviewed by: _____

APR 17 2014

4709501627

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Rev. 8/23/13

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API 47-095 - 1627

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

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor							
Surface	12 1/4"	8 5/8"	265'	New	LS	64'	Y
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	8"	4 1/2"	2935.7	New	J-55		N
Tubing							
Packer type and depth set							

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor							
Surface	Reg Neat	85	15.6	1.18	100	Surface	8
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	50:50 Pozmix	170	14.2	1.27	216	1900' (calc)	8
Tubing							

Drillers TD (ft) 3025'

Loggers TD (ft) 3019'

Deepest formation penetrated Gordon

Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) NA

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 NA

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

WR-35
Rev. 8/23/13

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

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

Please insert additional pages as applicable.

WR-35
Rev. 8/23/13

API 47- 095 - 1627 Farm name STACKPOLE, ALLEN D ET AL Well number E-12

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
Gordon	2838'	TVD 2838' MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface _____ psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas Oil NGL Water GAS MEASURED BY

_____ mcfpd _____ bpd _____ bpd _____ bpd Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	0		0		
					SEE ORIGINAL WELL RECORD OF 4/8/1996

Please insert additional pages as applicable.

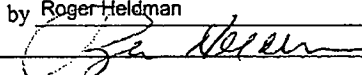
Drilling Contractor NA
Address _____ City _____ State _____ Zip _____

Logging Company NA
Address _____ City _____ State WV Zip _____

Cementing Company NA
Address _____ City _____ State _____ Zip _____

Stimulating Company Producers Service Corp.
Address 109 South Graham Street City Zanesville State OH Zip 43701

Please insert additional pages as applicable.

Completed by Roger Heldman Telephone 304-420-1107
Signature  Title Operations Manager Date 4/11/14

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

4709501627

9501627 R

WR-35

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: STACKPOLE, DARRELL/GRACE Operator Well No.: E. LONGSTREET E-12

LOCATION: Elevation: 1,004 Quadrangle: CENTERPOINT
District: MCELROY County: TYLER
Latitude: 11,150 Feet south of 39 Deg 30 Min 0 Sec.
Longitude: 10,300 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: MIKE UNDERWOOD
Permit Issued: 3/27/95
Well work Commenced: 6/8/95
Well work Completed: 8/18/95
Verbal plugging permission granted on:
Rotary X Cable _____ Rig _____
Total Depth (feet) 3,025
Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8	265'	265'	85 SKS
4 1/2"	2935.7'	2935.7'	170 SKS

RECEIVED
Office of Oil & Gas

OPEN FLOW DATA *Waterflood Injection Well

Producing formation GORDON Pay zone depth (ft) 2838-2900

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) _____ Hours

Second producing formation _____ Pay zone depth (ft) _____

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

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

For: PENNZOIL PRODUCTS COMPANY

By: _____

Date: 4/8/96

Handwritten signature and initials

4709501627

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	2038'	-	2112'
Sand	2112'	-	2263'
Shale	2263'	-	2838'
Gordon	2838'	-	2900'
T.D.	3025'		



Select County: (095) Tyler

Enter Permit #: 1628

Select datatypes: (Check All)

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
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- [Contact Information](#)
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- ["Pipeline-Plus"](#)

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](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4709501628	Tyler	1628	McElroy	Center Point	Centerpoint	39.462378	-80.707272	525182	4368130.1

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM
4709501628	8/18/1995	Original Loc	Completed	Hugh & Darlene Carlton	C-9		Alpheus Glover	FEE - 2165-00	Pennzoil Products Co et al	Pennzoil Products Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AF
4709501628	8/18/1995	7/6/1995	885	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2882		2882			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
4709501628	8/18/1995	Horizon	Injection	Vertical	2750	Gordon	2756	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_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4709501628	Original Loc	Gordon	Well Record	2721	Reasonable	59	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

There is no Sample data for this well



APR 10 1996

Permitting Office of Oil & Gas

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

4709501628

Well Operator's Report of Well Work

Farm name: CARLTON, HUGH & DARLENE Operator Well No.: A. GLOVER C-9

LOCATION: Elevation: 885' Quadrangle: CENTERPOINT

District: MCELROY County: TYLER
Latitude: 13,550 Feet south of 39 Deg 30 Min 0 Sec.
Longitude: 11,550 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: MIKE UNDERWOOD
Permit Issued: 5/3/95
Well work Commenced: 7/6/95
Well work Completed: 8/18/95
Verbal plugging permission granted on:
Rotary X Cable Rig
Total Depth (feet) 2882'
Fresh water depths (ft) NA
Salt water depths (ft) NA
Is coal being mined in area (Y/N) N
Coal Depths (ft): NA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8	219'	219'	75 SKS
4 1/2"	2837'	2837'	200 SKS

OPEN FLOW DATA *Waterflood Injection Well

Producing formation GORDON Pay zone depth (ft) 2721-2780
 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

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

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

For: PENNZOIL PRODUCTS COMPANY

By: [Signature]
Date: 4/8/96

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 County: (095) Tyler

Select datatypes: (Check All)

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

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- ["Pipeline-Plus"](#)

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](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4709501641	Tyler	1641	McElroy	Center Point	Centerpoint	39.452325	-80.674719	527986.5	4367024

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
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			
4709501641	-/-	Worked Over	Cancelled	Betty Hayes	M-6		F R Ball	15459-50	HG Energy LLC et al	HG Energy, LLC	2846	Gordon (undiff)	

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_AI
4709501641	10/27/1995	9/28/1995	846	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2846		2846			0
4709501641	-/-	-/-																

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	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	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

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

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

RECEIVED
WV Division of
Environmental Protection

4709501641

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

APR 10 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, RALPH & BETTY

Operator Well No.: F.R. BALL M-6

LOCATION: Elevation: 846.33

Quadrangle: CENTERPOINT

District: MCELROY

County: TYLER

Latitude: 2,300 Feet south of 39 Deg 27 Min 30 Sec.

Longitude: 2,250 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: MIKE UNDERWOOD

Permit Issued: 9/28/95

Well work Commenced: 9/28/95

Well work Completed: 10/27/95

Verbal plugging permission granted on: _____

Rotary Cable _____ Rig _____

Total Depth (feet) 2,846

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): NA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8	214'	214'	100 SKS
4 1/2"	2,823'	2,823'	170 SKS

OPEN FLOW DATA

* Water Injection Well

Producing formation Gordon Pay zone depth (ft) 2694-2753
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY

By: _____

Date: 4/8/96

Treatment:

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 (Check All)

Enter Permit #: 1646

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
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- ["Pipeline-Plus"](#)

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	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_ES
4709501646	10/4/1996	Original Loc	Completed	Forrest Glover	11		Martha Elder	99174-00	Pennzoil Products Co et al	Pennzoil Products Company			
4709501646	4/1/2010	Worked 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_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AF
4709501646	10/4/1996	7/24/1996	893	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	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 Well	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					
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:

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

There is no Sample data for this well

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

Well Operator's Report of Well Work

COPY

Farm name: GLOVER, FORREST, ETAL

Operator Well No.: M. ELDER 11

LOCATION: Elevation: 893'

Quadrangle: CENTERPOINT 7.5'

District: MCELROY

County: TYLER

Latitude: 7,850 Feet south of

39 Deg 27 Min 30 Sec.

Longitude: 7,100 Feet west of

80 Deg 40 Min 0 Sec.

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'

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): NA

Casing Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	220'	220'	180 sks
4 1/2"	2896.7'	2896.7'	275 sks

OPEN FLOW DATA * WATERFLOOD INJECTOR

Producing formation Gordon Pay zone depth (ft) 2766'-2780'
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure _____ psig (surface pressure) after _____ Hours

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

RECEIVED

Office of Oil & Gas

For: EAST RESOURCES, INC.

FEB 05 2013

By:

Date:

Open Elder
5/12/10

Treatment :

Treated perms. 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 County: (095) Tyler (Check All)

Enter Permit #: 1648

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

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- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
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- ["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	TAX_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	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PI
4709501648	10/4/1996	Original Loc	Completed	Luella Edna Stackpole	E-11		Uriah Stackpole	FEE - 2142-00	Pennzoil Products	Pennzoil Products Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AF
4709501648	10/4/1996	8/29/1996	1097	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3143		3143			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
4709501648	10/4/1996	Horizon	Injection	Vertical	2979	Gordon	2983	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_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

There is no Sample data for this well

RECORDED
JUN 6 1997

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

4709501648

Well Operator's Report of Well Work

Farm name: Stackpole, Luella Edna

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

LOCATION: Elevation: 1,097.00

Quadrangle: Center Point

District: McElroy
Latitude: 12,050 Feet south of
Longitude: 10,000 Feet west of

County: Tyler
39 Deg 30 Min 0 Sec.
80 Deg 40 Min 0 Sec.

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

Agent: PHILIP S. ONDRUSEK

Inspector: Mike Underwood

Permit Issued: 6/10/96

Well work Commenced: 8/29/96

Well work Completed: 10/4/96

Verbal plugging permission granted on:

Rotary X Cable _____ Rig _____

Total Depth (feet) 3143'

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): 922-926

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	350'	350'	220 Sacks
4 1/2"	3046'	3046'	275 Sacks

OPEN FLOW DATA

*Well was drilled as a waterflood injection well. No open-flow data was obtained

Producing formation Gordon Pay zone depth (ft) 2969-2984
 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

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

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

For: PENNZOIL PRODUCTS COMPANY

By: [Signature]

Date: 1/3/97

TYL 1648 8791

Treatment : Perforations: 2979' - 2983' - 4 holes/ft. (16 holes)
 Treatment: 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 County: (095) Tyler (Check All)

Enter Permit #: 1655

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
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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	TAX_STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	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	Martha Elder	99174-00	Pennzoil Products Co et al	Pennzoil Products Company			
4709501655	-/-		Worked Over	Cancelled	F Roy Glover et al	12	Martha Elder	99174-00	East Resources Inc et al	East Resources, Inc.	3328	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_AI
4709501655	-/-	-/-	1297	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3328		3328			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
4709501655	10/25/1996	Horizon	Injection	Vertical	3170	Gordon	3174	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_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

There is no Sample 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

Farm name: Glover, Forrest etal

Operator Well No.: M. Elder #12

LOCATION: Elevation: 1,297.00'

Quadrangle: Center Point

District: McElroy

County: Tyler

Latitude: 9,400' Feet south of 39 Deg 27 Min 30 Sec.

Longitude: 8,500' 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: Mike Underwood

Permit Issued: 8.22/96

Well work Commenced: 9/10/96

Well work Completed: 10/25/96

Verbal plugging permission granted on:

Rotary X Cable _____ Rig _____

Total Depth (feet) 3328'

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): 626-630

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	571'	571'	285 Sacks
4 1/2"	3233'	3233'	275 Sacks

OPEN FLOW DATA

*Well was drilled as a waterflood injection well. No open-flow data was obtained

Producing formation Gordon Pay zone depth (ft) 3104-3126
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY
 By: [Signature]
 Date: 11/3/97

Treatment :

Perforations: 3170' - 3174' - 4 holes/ft. (16 holes)
Treatment: 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 County: (095) Tyler (Check All)

Enter Permit #: 1657

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
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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	TAX_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_NUM	CO_NUM	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	NEW_FTG	KOD	G_BEF
4709501657	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
4709501657	4/2/2010	3/30/2010	1304	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3360				0

Comment: 4/2/2010 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
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:

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

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

4709501657

API# 47 095 01657F 1/20/2010

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

Well Operator's Report of Well Work

COPY

Farm name: LEMASTERS, DAVID

Operator Well No.: I. BAKER 5

LOCATION: Elevation: 1,304'

Quadrangle: CENTERPOINT 7.5'

District: MCELROY

County: TYLER

Latitude: 9,780 Feet south of 39 Deg 27 Min 30 Sec.

Longitude: 9,740 Feet west of 80 Deg 40 Min 0 Sec.

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: 03/30/10

Well work Completed: 04/02/10

Verbal plugging

permission granted on:

Rotary X Cable _____ Rig _____

Total Depth (feet) 3360'

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): NA

Casing Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	570'	570'	290 sks
4 1/2"	3235.7'	3235.7'	150 sks

OPEN FLOW DATA

* WATERFLOOD INJECTOR

Producing formation	Gordon	Pay zone depth (ft)	3165'-3180'
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

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

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

RECEIVED
Office of Oil & Gas

FEB 05 2013

WV Department of
Environmental Protection

For: EAST RESOURCES, INC.

By: _____

Date: _____

Ben Alder
5/14/10

4709501657

Treatment :

Treated perms. 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



Select County: (095) Tyler (Check All)

Enter Permit #: 1659

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
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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_VD	PROP_TRGT_FM	TFM
4709501659	1/2/1997	Original Loc	Completed	Dorsey Baker Est	11		Dorsey Baker Est	13130-50	Pennzoil Products Co et al	Pennzoil Products Company			
4709501659	2/24/2010	Worked Over	Completed	Dorsey Baker Estate	11			13130-50	East Resources et al	East Resources, Inc.	3020	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
4709501659	2/24/2010	1/14/2010	1030	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3020		3020		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
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:

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

There is no Sample data for this well

RECEIVED
Office of Oil & Gas
APR 26 2010

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

4709501659

Well Operator's Report of Well Work

Farm name: BAKER, DORSEY ESTATE

Operator Well No.: D. BAKER 11

LOCATION: Elevation: 1,030.00

Quadrangle: CENTERPOINT 7.5'

District: MCELROY

County: TYLER

Latitude: 8,000 Feet south of 39 Deg 27 Min 30 Sec.

Longitude: 9,750 Feet west of 80 Deg 40 Min 00 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: JOE TAYLOR

Permit Issued: 12/30/09

Well work Commenced: 01/14/10

Well work Completed: 02/24/10

Verbal plugging permission granted on: _____

Rotary X Cable _____ Rig _____

Total Depth (feet) 3,020

Fresh water depths (ft) _____

Salt water depths (ft) NA

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

Coal Depths (ft): NA

Casing/ tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	305.00'	305.00'	170 sks
4 1/2"	2976.00'	2976.00'	150 sks

OPEN FLOW DATA

* WATERFLOOD PRODUCER

Producing formation Gordon Pay zone depth (ft) 2898'-2911'

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

Second producing formation _____ Pay zone depth (ft) _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: EAST RESOURCES, INC.

By: _____

Date: 4/23/10

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

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

4709501659

Well Operator's Report of Well Work

Farm name: Baker, Dorsey Estate Operator Well No.: D. Baker Hr. #11

LOCATION: Elevation: 1,030.00 Quadrangle: Center Point

District: Mc Elroy County: Tyler
Latitude: 8,000 Feet south of 39 Deg 27 Min 30 Sec.
Longitude: 9,750 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: Mike Underwood

Permit Issued: 9/9/96

Well work Commenced: 12/10/96

Well work Completed: 1/2/97

Verbal plugging permission granted on:

Rotary X Cable _____ Rig _____

Total Depth (feet) 3020'

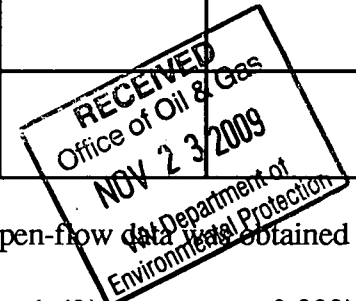
Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): NA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	305'	305'	170 Sacks
4 1/2"	2976.10'	2976.10'	275 Sacks



OPEN FLOW DATA

*Well was drilled as a waterflood injection well. No open-flow data obtained

Producing formation Gordon Pay zone depth (ft) 2,898'

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

Second producing formation _____ Pay zone depth (ft) _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY

By: [Signature]

Date: 3/17/98

4709501659

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 County: (095) Tyler (Check All)

Enter Permit #: 1662

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
- [WVGES Main](#)
- ["Pipeline-Plus"](#)

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	TAX_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_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_ES1
4709501662	1/16/1997	Original Loc	Completed	Virginia Lemasters	7		B A Swiger	Fee-883-00	Pennzoil Products Co	Pennzoil Products Company			
4709501662	4/16/2010	Worked Over	Completed	David W Lemasters et al	7		B A Swiger	Fee 883-00	East Resources Inc et al	East Resources, Inc.	3172	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_AF
4709501662	1/16/1997	12/13/1996	1168	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3172			3172		0
4709501662	4/16/2010	4/16/2010	1168	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Service Well	Unsuccessful	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:

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
4709501662	Original Loc	Big Injun (undiff)	Well Record	2302	Reasonable	150	Reasonable	1168
4709501662	Original Loc	Gordon	Well Record	3018	Reasonable	15	Reasonable	1168

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 Protection
Section of Oil and Gas

COPY

Well Operator's Report of Well Work

Farm name: LEMASTERS, DAVID W., ET AL Operator Well No.: B.A. SWIGER 7

LOCATION: Elevation: 1,168' Quadrangle: CENTERPOINT 7.5'

District: MCELROY County: TYLER
Latitude: 6,720 Feet south of 39 Deg 27 Min 30 Sec.
Longitude: 11,180 Feet west of 80 Deg 40 Min 0 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: JOE TAYLOR

Permit Issued: 12/18/09
Well work Commenced: 04/16/10
Well work Completed: 04/16/10

Verbal plugging permission granted on:

Rotary X Cable Rig

Total Depth (feet) 3172'

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): NA

Table with 4 columns: Casing Tubing Size, Used in Drilling, Left in Well, Cement Fill Up Cu. Ft. Rows include 8 5/8" and 4 1/2" casing sizes.

OPEN FLOW DATA * WATERFLOOD INJECTOR

Producing formation Gordon Pay zone depth (ft) 3026'-3036'
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

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

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

Office of Oil & Gas

For: EAST RESOURCES, INC.

FEB 05 2013

By:

Date:

Signature: Ba Nelder
Date: 5/12/10

WV Department of Environmental Protection

Treatment :

Treated perms. 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

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

Well Operator's Report of Well Work

Farm name: Lemasters, Virginia Operator Well No.: B.A. Swiger #7

LOCATION: Elevation: 1,168' Quadrangle: Center Point
 District: McElroy County: Tyler
 Latitude: 6,700 Feet south of 39 Deg 27 Min 30 Sec.
 Longitude: 11,200 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: Mike Underwood
 Permit Issued: 9/9/96
 Well work Commenced: 12/13/96
 Well work Completed: 1/16/97
 Verbal plugging permission granted on:
 Rotary X Cable _____ Rig _____
 Total Depth (feet) 3172'
 Fresh water depths (ft) NA
 Salt water depths (ft) NA
 Is coal being mined in area (Y/N) N
 Coal Depths (ft): NA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	442'	442'	225 Sacks
4 1/2"	3101.40'	3101.40'	275 Sacks

RECEIVED
 Office of Oil & Gas
 NOV 23 2009
 WV Department of Environmental Protection

OPEN FLOW DATA *Well was drilled as a waterflood injection well. No open-flow data was obtained

Producing formation Gordon Pay zone depth (ft) 3,018
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY
 By: [Signature]
 Date: 3/16/98

Treatment :

Perforated Gordon sand with 16 holes from 3028'-3032' K.B. Fractured with 300 gals 15% HCL and 193 bbls gelled water and 9,600 lbs. 20/40 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



Select County: (095) Tyler (Check All)

Enter Permit #: 1663

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
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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	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_I
4709501663	9/27/1996	Original Loc	Completed	Pennzoil Products Co et al	E-2-B		Silas Wyatt	47495-00	Pennzoil Products Co et al	Pennzoil Products Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AF
4709501663	9/27/1996	8/8/1996	800	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2841		2841			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
4709501663	9/27/1996	Horizon	Injection	Vertical	2680	Gordon	2686	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_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

There is no Sample data for this well

JAN 6 1997
Office of Oil & Gas

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

4709501663

Well Operator's Report of Well Work

Farm name: Pennzoil Products Company Operator Well No.: S. Wyatt #E-2-B

LOCATION: Elevation: 800.00' Quadrangle: Center Point

District: McElroy County: Tyler
Latitude: 5,400 Feet south of 39 Deg 27 Min 30 Sec.
Longitude: 9,850' Feet west of 80 Deg 40 Min 00 Sec.

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

Agent: PHILIP S. ONDRUSEK

Inspector: Mike Underwood

Permit Issued: 9/10/96

Well work Commenced: 8/8/96

Well work Completed: 9/27/96

Verbal plugging permission granted on:

Rotary Cable Rig

Total Depth (feet) 2841'

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): 1028-1036

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11"	125'	125'	70 Sacks
8-5/8"	395'	395'	175 Sacks
4 1/2"	2788'	2788'	275 Sacks

OPEN FLOW DATA *Well was drilled as a waterflood injection well. No open-flow data was obtained

Producing formation Gordon Pay zone depth (ft) 2694-2700

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

Second producing formation Pay zone depth (ft)

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

Final open flow MCF/d Final open flow Bbl/d

Time of open flow between initial and final tests Hours

Static rock pressure psig (surface pressure) after Hours

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

For: PENNZOIL PRODUCTS COMPANY
By: [Signature]
Date: 12/27/96

TYL 1663-S

4709501663

Treatment:

Perforations:

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

Treatment:

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.

Well Log:

TD - 2841'

Shale	0	-	320
Sand	320	-	360
Shale	360	-	478
Sand	478	-	499
Shale	499	-	622
Sand	622	-	638
Shale	638	-	680
Sand	680	-	716
Shale	716	-	1028
Coal	1028	-	1036
Shale	1036	-	1228
Sand	1228	-	1272
Shale	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
Gordon	2694	-	2700
Shale	2700	-	2841



Select County: (095) Tyler (Check All)

Enter Permit #: 1666

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
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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	WELL_NUM	CO_NUM	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 & Dottie Glover	12		J L McIntyre	99229-00	East Resources Inc et al	East Resources, Inc.	3020	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_AFT
4709501666	-/-	-/-	1007	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3020		3020			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
4709501666	1/15/1997	Horizon	Injection	Vertical	2890	Gordon	2894	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_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4709501666	Original Loc	Big Lime	Well Record	2046	Reasonable	104	Reasonable	1007	Ground Level
4709501666	Original Loc	Big Injun (undiff)	Well Record	2150	Reasonable	154	Reasonable	1007	Ground Level
4709501666	Original Loc	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

There is no Sample 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: Glover, Fred & Dottie

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

LOCATION: Elevation: 1,007'

Quadrangle: Center Point

District: McElroy
Latitude: 6,150' Feet south of
Longitude: 7,400' Feet west of

County: Tyler
39 Deg 27 Min 30 Sec.
80 Deg 40 Min 0 Sec.

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

Agent: PHILIP S. ONDRUSEK

Inspector: Mike Underwood

Permit Issued: 10/21/96

Well work Commenced: 12/23/96

Well work Completed: 1/15/97

Verbal plugging permission granted on:

Rotary X Cable _____ Rig _____

Total Depth (feet) 3020'

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): NA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	265'	265'	160 Sacks
4 1/2"	2932'	2932'	140 Sacks

OPEN FLOW DATA

*Well was drilled as a waterflood injection well. No open-flow data was obtained

Producing formation	Gordon	Pay zone depth (ft)	2,888
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
Second producing formation	_____	Pay zone depth (ft)	_____
Gas: Initial open flow	_____ MCF/d	Oil: Initial open flow	_____ Bbl/d
Final open flow	_____ MCF/d	Final open flow	_____ Bbl/d
Time of open flow between initial and final tests	_____ *	Hours	_____
Static rock pressure	_____ psig (surface pressure)	after	_____ Hours

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

For: PENNZOIL PRODUCTS COMPANY

By: _____

Date: 3/14/98

4709501666

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



Select County: (095) Tyler (Check All)

Enter Permit #: 1667

Get Data Reset

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
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- ["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	TAX_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	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	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 al	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	KOD	G_BEF	G_AF
4709501667	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
4709501667	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:

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

There is no Sample data for this well

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

COPY

Well Operator's Report of Well Work

Farm name: GLOVER, FORREST Operator Well No.: M ELDER 13-R

LOCATION: Elevation: 1,320.00 Quadrangle: CENTERPOINT 7.5'

District: MCELROY County: TYLER
Latitude: 7,950 Feet south of 39 Deg 27 Min 30 Sec.
Longitude: 8,760 Feet west of 80 Deg 40 Min 00 Sec.

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: 04/06/10

Well work Completed: 04/08/10

Verbal plugging permission granted on: _____

Rotary X Cable _____ Rig _____

Total Depth (feet) 3336'

Fresh water depths (ft) N/A

Salt water depths (ft) NA

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

Coal Depths (ft): 657'-661'

Casing/ tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	575'	575'	250 sks
4 1/2"	3280'	3280'	275 sks

OPEN FLOW DATA * WATERFLOOD INJECTOR

Producing formation Gordon Pay zone depth (ft) 3184'-3210'
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure _____ psig (surface pressure) _____ after _____ Hours

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

RECEIVED

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

FEB 05 2013

By: _____
Date: _____

Philip Elder
5/14/10

4709501667

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

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

Well Operator's Report of Well Work

Farm name: Glover, Forrest

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

LOCATION: Elevation: 1,320.00

Quadrangle: Center Point

District: McElroy
Latitude: 8,000 Feet south of
Longitude: 8,750 Feet west of

County: Tyler
39 Deg 27 Min 30 Sec.
80 Deg 40 Min 00 Sec.

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

Agent: PHILIP S. ONDRUSEK

Inspector: Mike Underwood

Permit Issued: 10/21/96

Well work Commenced: 12/15/96

Well work Completed: 1/3/97

Verbal plugging permission granted on: _____

Rotary Cable _____ Rig _____

Total Depth (feet) 3336'

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): 657-661

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	575'	575'	250 Sacks
4 1/2"	3280.00'	3280.00'	275 Sacks

OPEN FLOW DATA

*Well was drilled as a waterflood injection well. No open-flow data was obtained

Producing formation Gordon Pay zone depth (ft) 3184-3210
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY
By: [Signature]
Date: 1/7/97

4709501667

Treatment:

Perforations:

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

Treatment:

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



Select County: (095) Tyler

Select datatypes: (Check All)

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
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- [Contact Information](#)
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- ["Pipeline-Plus"](#)

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	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4709501687	1/19/1998	Original Loc	Completed	L J Lemasters	3A		Donald L McCoy	67696-00	Pennzoil Prod 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	G_BEF	G_AF
4709501687	1/19/1998	11/11/1997	1017	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2990		2990			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
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:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4709501687	Original Loc	Gordon	Well Record	2893	Reasonable	62	Reasonable	1017	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

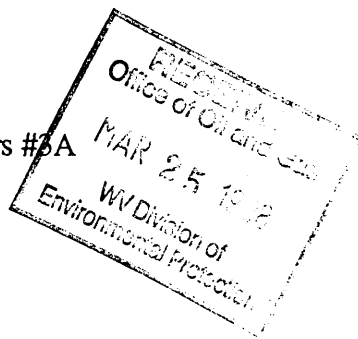
There is no Sample data for this well

WR-35

14-Oct-97
API # 47 -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.
LOCATION: Elevation: 1,017.00
District: Mc Elroy
Latitude: 3,300 Feet south of
Longitude: 11,150 Feet west of

Operator Well No.: L.J. Lemasters #3A
Quadrangle: Center Point
County: Tyler
39 Deg 30 Min 0 Sec.
80 Deg 40 Min 0 Sec.

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

Agent: PHILIP S. ONDRUSEK

Inspector: Mike Underwood
Permit Issued: 10/14/97
Well work Commenced: 11/11/97
Well work Completed: 1/23/98
Verbal plugging permission granted on:
Rotary X Cable _____ Rig _____
Total Depth (feet) 2990'
Fresh water depths (ft) NA
Salt water depths (ft) NA
Is coal being mined in area (Y/N) N
Coal Depths (ft): NA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	292'	292'	175 Sacks
4 1/2"	2989.60'	2989.60'	275 Sacks

OPEN FLOW DATA *Well was drilled as a waterflood injection well. No open-flow data was obtained

Producing formation	Gordon	Pay zone depth (ft)	2,935'
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
Second producing formation		Pay zone depth (ft)	
Gas: Initial open flow	MCF/d	Oil: Initial open flow	Bbl/d
Final open flow	MCF/d	Final open flow	Bbl/d
Time of open flow between initial and final tests			Hours
Static rock pressure	psig (surface pressure)	after	Hours

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

For: PENNZOIL PRODUCTS COMPANY
By: [Signature]
Date: 3/17/98 9-14-98

TL 1687

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 Shale
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

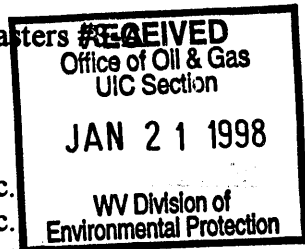
4709501687

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



LOCATION: Elevation: 1,017.00

Quadrangle: Center Point

District: McElroy
Latitude: 11,150' Feet south of
Longitude: 3,300' Feet west of

County: Tyler
39 Deg 30 Min 0 Sec.
80 Deg 40 Min 0 Sec.

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

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size 8 5/8"	292'	292'	175 Sacks
4 1/2"	2989.6'	2989.6'	275 Sacks

Agent: PHILIP S. ONDRUSEK

Inspector: Mike Underwood

Permit Issued: 10/14/97

Well work Commenced: 11/11/97

Well work Completed: 1/19/98

Verbal plugging permission granted on:

Rotary Cable Rig

Total Depth (feet) 2,990'

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): NA

OPEN FLOW DATA

*Well was drilled as a waterflood injection well. No open-flow data was obtained

Producing formation Gordon Pay zone depth (ft) 2,893'-2,955'
 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

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

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

For: PENNZOIL PRODUCTS COMPANY

By: Donald Bight

Date: 1-20-98

JAN 21 1998

4709501687

Treatment : Perforations: 2,929' - 2,933' and 2,937' - 2,940' : 4 holes/ft (28 holes)
Treatment: Treated via 4.5" Casing with 300 gals. 15% HCl, 202 bbls.
cross-linked gelled water and 11,000 lbs. of 20/40 sand.

Well Log :

Sand & Shale	0 - 460
Sand	460 - 530
Sand & Shale	530 - 900
Sand	900 - 940
Sand & Shale	940 - 1090
Shale	1090 - 1130
Sand & Shale	1130 - 1380
Sand	1380 - 1420
Sand & Shale	1420 - 1640
Sand	1640 - 1675
Sand & Shale	1675 - 1800
Shale	1800 - 1860
Sand	1860 - 1890
Sand & Shale	1890 - 2150
Sand	2150 - 2250
Sand & Shale	2250 - 2330
Shale	2330 - 2893
Gordon	2893 - 2955
Sand & Shale	2955 - 3000

Depth driller 2990
Depth logger 3000

Handwritten notes at the bottom of the page, including a signature and some illegible text.



Select County: (095) Tyler (Check All)

Enter Permit #: 1688

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
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- ["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](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4709501688	Tyler	1688	McElroy	Center Point	Centerpoint	39.465424	-80.678836	527627	4368476.5

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_P
4709501688	6/17/1998	Original Loc	Completed	Donald L McCoy	13-A		A D Lemasters	12958-50	Pennzoil Prod Co et al	Pennzoil Products Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AF
4709501688	6/17/1998	4/28/1998	1054	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3050		3050			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
4709501688	6/17/1998	Horizon	Injection	Vertical	2963	Gordon	2967	Gordon	0	0			
4709501688	6/17/1998	Horizon	Injection	Vertical	2971	Gordon	2973	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_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_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

There is no Sample data for this well

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

Well Operator's Report

Farm name: McCOY, DONALD L. Operator Well No.: A.D. Lemasters #13-A

LOCATION: Elevation: 1,054.00 Quadrangle: CENTER POINT
 District: McELROY County: TYLER
 Latitude: 12,550 Feet south of 39 Deg 30 Min 0 Sec.
 Longitude: 3,450 Feet west of 80 Deg 40 Min 0 Sec.

Company: PENNZOIL EXPLORATION & PRODUCTION CO., P.O. BOX 5519 VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: MIKE UNDERWOOD

Permit Issued: 10/14/97

Well work Commenced: 4/28/98

Well work Completed: 6/17/98

Verbal plugging permission granted on: _____

Rotary Cable _____ Rig _____

Total Depth (feet) 3,050

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): NA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8	327.5	327.5	110 SKS
4 1/2"	3017.9	3017.9	275 SKS

OPEN FLOW DATA * Water Injection Well

Producing formation Gordon Sand Pay zone depth (ft) 2950-2990
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY

By: Donald A. Bryant

Date: 7-23-98

TYLER 110885

Treatment : Perforated 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



Select County: (095) Tyler (Check All)

Enter Permit #: 1749

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
- [WVGES Main](#)
- ["Pipeline-Plus"](#)

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	PROP_TRGT_FM	TFI
4709501749	9/2/2003	Original Loc	Completed	Dorsey Baker Heirs et al	12		Dorsey Baker Heirs	13130-50	East Resources Inc et al	East 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_BEFF	G_AFT	O_BI
4709501749	9/2/2003	8/12/2003	1274	Ground Level	Bearsville	Catskill	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3299					3299	

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEFF	G_AFT	O_BEFF	O_AFT	WATER_QNTY
4709501749	9/2/2003	Water Flood	Injection	Vertical	3144	Gordon	3158	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

There is no Sample data for this well

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

Well Operator's Report of Well Work

MT

Farm name: DORSEY BAKER HRS. Operator Well No.: BAKER HRS 12

LOCATION: Elevation: 1,274.00 Quadrangle: CENTERPOINT 7.5'

District: MCELROY County: TYLER
Latitude: 8,575 Feet south of 39 Deg 27 Min 30 Sec.
Longitude: 8,675 Feet west of 80 Deg 40 Min 00 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: MICHAEL MCCOWN

Inspector: MIKE UNDERWOOD

Permit Issued: 07/01/03

Well work Commenced: 08/12/03

Well work Completed: 09/02/03

Verbal plugging permission granted on:

Rotary X Cable _____ Rig _____

Total Depth (feet) 3,299

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): NA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	1358.95	1358.95	335 sks
4 1/2"	3274.00'	3274.00'	145 sks
RECEIVED Office of Oil & Gas Permitting OCT 31 2003 WV Department of Environmental Protection			

OPEN FLOW DATA Waterflood injector

Producing formation Gordon Pay zone depth (ft) 3140'-3159'

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

Second producing formation _____ Pay zone depth (ft) _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours

Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: EAST RESOURCES, INC.
By: *Ben Held*
Date: 10/30/03

4709501749

Treatment :

Treated perforations 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	3159'	3299'
TD		3299'



Select County: (095) Tyler (Check All)

Enter Permit #: 1750

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
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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:

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
4709501750	4/29/2004	Dvtd Orgnl Loc	Completed	Ray F Glover Jr et al	15	Martha Elder 15	Marth Elder	99174-00	East Resources Inc et al	East Resources, Inc.			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT
4709501750	4/29/2004	3/16/2004	893	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3097	3097				

Comment: 4/29/2004 Drilled directionally with bottom hole location 861ft S and 78ft W of surface location.

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
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	2976	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:

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 Orgnl Loc	Cayugan 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

There is no Sample data for this well

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

MB

Well Operator's Report of Well Work

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.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: MIKE UNDERWOOD

Permit Issued: 07/09/03

Well work Commenced: 03/16/04

Well work Completed: 04/29/04

Verbal plugging permission granted on: _____

Rotary Cable _____ Rig _____

Total Depth (feet) 3097

Fresh water depths (ft) 38, 95

Salt water depths (ft) NA

_____ NA

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

Coal Depths (ft): NA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	220.00'	220.00'	120 sks
4 1/2"	3041.20'	3041.20'	300 sks

RECEIVED
Office of Oil & Gas
Office of Chief
MAY 20 2004
WV Department of Environmental Protection

OPEN FLOW DATA

WATER INJECTION WELL

This well was directionally drilled with bottom hole location 861' S and 78' W of Surface location

Producing formation Gordon Pay zone depth (ft) 2980-2990

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

Second producing formation Pay zone depth (ft)

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

Final open flow MCF/d Final open flow Bbl/d

Time of open flow between initial and final tests Hours

Static rock pressure psig (surface pressure) after Hours

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

For: EAST RESOURCES, INC. _____

By: Bar Elder

Date: 5/19/04

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



Select County: (095) Tyler (Check All)

Enter Permit #: 1763

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
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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	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM
4709501763	4/29/2004	Dvtd Orgrnl Loc	Completed	Ray F Glover Jr et al	16	Martha Elder 16	Martha Elder	99174-00	East Resources Inc et al	East Resources, Inc.		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_AFT
4709501763	4/29/2004	4/16/2004	1159	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3239		3239			

Comment: 4/29/2004 Drilled directionally with bottom hole location 358ft S and 256ft W of surface location.

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
4709501763	4/29/2004	Water	Fresh Water	Vertical			610						
4709501763	4/29/2004	Water Flood	Injection	Deviated	3084	Gordon	3098	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
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	Qstnble 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

There is no Sample data for this well

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

me

Well Operator's Report of Well Work

Farm name: GLOVER, RAY F. JR., ETAL
LOCATION: Elevation: 1,159.00
District: MCELROY
Latitude: 6,625 Feet south of
Longitude: 7,000 Feet west of

Operator Well No.: MARTHA ELDER 16
Quadrangle: CENTERPOINT 7.5'
County: TYLER
39 Deg 27 Min 30 Sec.
80 Deg 40 Min 00 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519
Agent: PHILIP S. ONDRUSEK
Inspector: MIKE UNDERWOOD
Permit Issued: 02/13/04
Well work Commenced: 04/16/04
Well work Completed: 04/29/04
Verbal plugging permission granted on:
Rotary X Cable _____ Rig _____
Total Depth (feet) 3239
Fresh water depths (ft) 610
Salt water depths (ft) NA
Is coal being mined in area (Y/N) N
Coal Depths (ft): NA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	438.00'	438.00'	200 sks
4 1/2"	3220.05'	3220.05'	300 sks

RECEIVED
Office of Oil & Gas
Office of Chief
MAY 20 2004
WV Department of
Environmental Protection

OPEN FLOW DATA Water Injection Well

This well was directionally drilled with bottom hole location 358' S and 256' W of surface location

Producing formation Gordon Pay zone depth (ft) 3082-3098

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

Second producing formation _____ Pay zone depth (ft) _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours

Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: EAST RESOURCES, INC
By: *Ben Elder*
Date: 5/19/04

4709501763

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



Select County: (095) Tyler (Check All)

Enter Permit #: 1766

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
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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	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TF
4709501766	4/29/2004	Dvtd Orgrnl Loc	Completed	Stephen Paul Glover	13	P Horner 13	Peter Horner	15460-50	East Resources Inc et al	East Resources, Inc.			
4709501766	4/8/2010	Dvtd Wrkd Ovr	Completed	Stephen Paul Glover		Peter Horner 13		15460-50	East Resources Inc	East Resources, Inc.	2885	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_AF
4709501766	4/29/2004	4/3/2004	812	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2885	2885				
4709501766	4/8/2010	4/6/2010	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					
4709501766	4/8/2010	Horizon	Injection	Deviated	2783	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
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
4709501766	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
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.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
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

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 Orgrnl Loc	Big Lime	Well Record	1925	Deviated Drig	66	Deviated Drig	812	Ground Level
4709501766	Dvtd Orgrnl Loc	Big Injun (undiff)	Well Record	1991	Deviated Drig	171	Deviated Drig	812	Ground Level
4709501766	Dvtd Orgrnl Loc	Gordon Stray	Well Record	2756	Deviated Drig	6	Deviated Drig	812	Ground Level
4709501766	Dvtd Orgrnl Loc	Gordon	Well Record	2774	Deviated Drig	30	Deviated Drig	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

There is no Sample data for this well

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

net

Well Operator's Report of Well Work

Farm name: GLOVER, STEPHEN, PAUL

Operator Well No.: P. HORNER 13

LOCATION: Elevation: 812.00

Quadrangle: CENTERPOINT 7.5'

District: MCELROY

County: TYLER

Latitude: 4,825 Feet south of 39 Deg 27 Min 30 Sec.

Longitude: 6,945 Feet west of 80 Deg 40 Min 00 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: MIKE UNDERWOOD

Permit Issued: 03/22/04

Well work Commenced: 04/03/04

Well work Completed: 04/29/04

Verbal plugging permission granted on:

Rotary X Cable _____ Rig _____

Total Depth (feet) 2885

Fresh water depths (ft) NA

Salt water depths (ft) NA

NA

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

Coal Depths (ft): NA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	306.00'	306.00'	125 sks
4 1/2"	2875.00'	2875.00'	300 sks

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Office of Oil & Gas
Office of Chief
MAY 20 2004
WV Department of Environmental Protection

OPEN FLOW DATA

Water Injection Well

This well directionally drilled with bottom hole location 278' S and 379' W of surface location

Producing formation Gordon Pay zone depth (ft) 2785-2800

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

Second producing formation _____ Pay zone depth (ft) _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: EAST RESOURCES, INC

By: *Ben Alden*

Date: 5/19/04

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
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
2804	2885	Shale



Select County: (095) Tyler (Check All)

Enter Permit #: 1770

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
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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	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM
4709501770	5/27/2004	Original Loc	Completed	Mrs Homer Tennant	3	Tennant Heirs 3	Tennant Heirs	99276-00	East Resources Inc et al	East 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
4709501770	5/27/2004	5/6/2004	1247	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3234			3234		

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
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:

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

There is no Sample data for this well

4709501770

7-Apr-04
API # 47 095 1770

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

AP 17

Well Operator's Report of Well Work

Farm name: TENNANT, HOMER MRS.

Operator Well No.: TENNANT HRS 3

LOCATION: Elevation: 1,247.00

Quadrangle: CENTERPOINT 7.5'

District: MCELROY
Latitude: 6,475 Feet south of
Longitude: 8,625 Feet west of

County: TYLER
39 Deg 27 Min 30 Sec.
80 Deg 40 Min 00 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: MIKE UNDERWOOD

Permit Issued: 04/07/04

Well work Commenced: 05/06/04

Well work Completed: 05/27/04

Verbal plugging

permission granted on:

Rotary X Cable _____ Rig _____

Total Depth (feet) 3234

Fresh water depths (ft) NA

Salt water depths (ft) NA

NA

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

Coal Depths (ft): NA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	570.00'	570.00'	250 sks
4 1/2"	3195.10'	3195.10'	300 sks

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Office of Oil & Gas
Office of Chief
JUN 01 2004
WV Department of
Environmental Protection

OPEN FLOW DATA

Water Injection well

Producing formation Gordon Pay zone depth (ft) 3124-3140
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: EAST RESOURCES, INC.

By: *[Signature]*

Date: 5/27/04

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



Select County: (095) Tyler (Check All)

Enter Permit #: 1777

Get Data Reset

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

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- [County Code Translations](#)
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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:

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
4709501777	11/1/2004	Original Loc	Completed	David W Lemasters	6 Baker 6	6	Isaac Baker	12868-50	East Resources Inc et al	East Resources, Inc.			
4709501777	1/25/2010	Worked Over	Completed	David W Lemasters	6 Isaac Baker 6	6	Isaac Baker	12868-50	East Resources et al	East Resources, Inc.	2970	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
4709501777	11/1/2004	10/21/2004	933	Ground Level Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2970			2970		
4709501777	1/25/2010	1/22/2010	933	Ground Level Jksnbg-Strngtwn	Hampshire Grp	Gordon	Development Well	Development Well	Gas	Rotary	Acid+Frac	2970			0		

Comment: 1/25/2010 Waterflood producer. No open flow data given

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
4709501777	11/1/2004	Water Flood	Injection	Vertical	2802	Gordon	2811	Gordon					
4709501777	1/25/2010	Water Flood	Gas	Vertical	2794	Gordon	2813	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
4709501777	East Resources, Inc.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501777	East Resources, Inc.	2005	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
4709501777	East Resources, Inc.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501777	East Resources, Inc.	2005	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
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 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

RECEIVED
Office of Oil & Gas
APR 26 2010
WV Department of
Environmental Protection

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

4709501777

Well Operator's Report of Well Work

Farm name: LEMASTERS, DAVID

Operator Well No.: BAKER 6

LOCATION: Elevation: 933.00

Quadrangle: CENTERPOINT 7.5'

District: MCELROY

County: TYLER

Latitude: 8,750 Feet south of 39 Deg 27 Min 30 Sec.

Longitude: 9,725 Feet west of 80 Deg 40 Min 00 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: JOE TAYLOR

Permit Issued: 12/30/09

Well work Commenced: 01/22/10

Well work Completed: 01/25/10

Verbal plugging permission granted on:

Rotary X Cable _____ Rig _____

Total Depth (feet) 2,970

Fresh water depths (ft) _____

Salt water depths (ft) NA

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

Coal Depths (ft): NA

Casing/ tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	257.00'	257.00'	70 sks
4 1/2"	2931.00'	2931.00'	150 sks

OPEN FLOW DATA

* WATERFLOOD PRODUCER

Producing formation Gordon Pay zone depth (ft) 2794-2913'

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

Second producing formation _____ Pay zone depth (ft) _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: EAST RESOURCES, INC.

By: [Signature]

Date: 4/23/10

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



Select County: (095) Tyler (Check All)

Enter Permit #: 1794

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

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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	TAX_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_COMPLETION	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 J Ingram	99342-00	East Resources Inc et al	East Resources, Inc.	2940	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
4709501794	12/14/2004	11/17/2004	925	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Fractured	2940		2940			
4709501794	4/10/2010	4/8/2010	925	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2940					

Comment: 4/10/2010 No open flow data reported

Comment: 12/14/2004 waterflood injector

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
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:

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

There is no Sample data for this well

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

COPY

Well Operator's Report of Well Work

Farm name: GLOVER, STEPHEN PAUL Operator Well No.: H. J. INGRAM 5

LOCATION: Elevation: 925' Quadrangle: CENTERPOINT 7.5'

District: MCELROY County: TYLER
Latitude: 4,350 Feet south of 39 Deg 27 Min 30 Sec.
Longitude: 6,110 Feet west of 80 Deg 40 Min 00 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: JOE TAYLOR

Permit Issued: 12/30/09

Well work Commenced: 04/08/10

Well work Completed: 04/10/10

Verbal plugging permission granted on:

Rotary Cable Rig

Total Depth (feet) 2,940

Fresh water depths (ft) N/A

Salt water depths (ft) 1720

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

Coal Depths (ft): NA

Casing/ tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	355.00'	355.00'	90 sks
4 1/2"	2901.00'	2901.00'	150 sks

OPEN FLOW DATA * WATERFLOOD INJECTOR

Producing formation Gordon Pay zone depth (ft) 2794'-2809'
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure _____ psig (surface pressure) after _____ Hours

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

RECEIVED
Office of Oil & Gas

For: EAST RESOURCES, INC.

By: _____

Date: _____

John Helder
5/14/10

FEB 05 2013

4709501794

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

18
1700
1700
1700

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

Well Operator's Report of Well Work

Farm name: GLOVER, STEPHEN PAUL Operator Well No.: H. J. INGRAM 5

LOCATION: Elevation: 925.00 Quadrangle: CENTERPOINT 7.5'

District: MCELROY County: TYLER
Latitude: 4,350 Feet south of 39 Deg 27 Min 30 Sec.
Longitude: 6,100 Feet west of 80 Deg 40 Min 00 Sec.

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: 11/17/04

Well work Completed: 12/14/04

Verbal plugging permission granted on:

Rotary X Cable _____ Rig _____

Total Depth (feet) 2940

Fresh water depths (ft) NA

Salt water depths (ft) 1720

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

Coal Depths (ft): NA

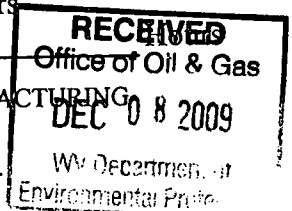
Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	355.00'	355.00'	90 sks
4 1/2"	2901.00'	2901.00'	150 sks

OPEN FLOW DATA * WATERFLOOD INJECTOR

Producing formation Gordon Pay zone depth (ft) 2794'-2809'
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure _____ psig (surface pressure) _____ after _____ Hours

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



For: EAST RESOURCES, INC.

By: Ben Helder
Date: 12/28/04

SP
12-2-05

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



Select County: (095) Tyler (Check All)

Enter Permit #: 1795

Get Data Reset

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
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- [Disclaimer](#)
- [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	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_P
4709501795	12/15/2004	Original Loc	Completed	Stephen P Glover	7		E T Parks	99410-00	East Resources Inc et al	East Resources, Inc.			
4709501795	4/8/2010	Worked Over	Completed	Stephen Paul Glover	7		E T Parks	99410-00	East Resources Inc	East Resources, Inc.	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
4709501795	12/15/2004	11/11/2004	1006	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Fractured	3030		3030			
4709501795	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:

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

There is no Sample data for this well

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

BT

Well Operator's Report of Well Work

Farm name: GLOVER, STEPHEN PAUL

Operator Well No.: E. T. Parks 7

LOCATION: Elevation: 1,006.00

Quadrangle: CENTERPOINT 7.5'

District: MCELROY

County: TYLER

Latitude: 5,150 Feet south of 39 Deg 27 Min 30 Sec.

Longitude: 6,100 Feet west of 80 Deg 40 Min 00 Sec.

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: 11/11/04

Well work Completed: 12/15/04

Verbal plugging permission granted on: _____

Rotary Cable _____ Rig _____

Total Depth (feet) 3030

Fresh water depths (ft) NA

Salt water depths (ft) 1440

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

Coal Depths (ft): NA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	354.00'	354.00'	90 sks
4 1/2"	2962.90'	2962.90'	150 sks

OPEN FLOW DATA

* WATERFLOOD INJECTOR

Producing formation Gordon Pay zone depth (ft) 2888-2902

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

Second producing formation _____ Pay zone depth (ft) _____

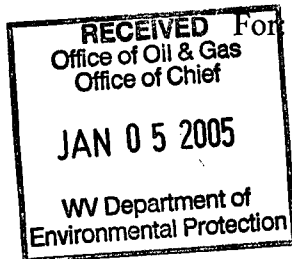
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock pressure _____ psig (surface pressure) after _____ Hours

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



EAST RESOURCES, INC.

By: *Ben Zeldin*

Date: 12/30/04

4709501795

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



Select County: (095) Tyler (Check All)

Enter Permit #: 1836

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
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- [Contact Information](#)
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- [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	TAX_STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4709501836	10/17/2005	Original Loc	Completed	Marie Walters	11	J Q McIntyre 11	99198-00	East Resources	East Resources, Inc.		2950	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_BE	G_AI
4709501836	10/17/2005	9/22/2005	919	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2990			2990		

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BE	G_AFT	O_BE	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		Qstrble 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	Qstrble Pick	919	Ground Level
4709501836	Original Loc	Gordon	Well Record	2787	Reasonable	20	Reasonable	919	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

4709501836

24-Jun-05
API # 47 095 01836

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

Well Operator's Report of Well Work

Farm name: MARIE WALTERS Operator Well No.: J.Q. MCINTYRE 11

LOCATION: Elevation: 919.00 Quadrangle: CENTERPOINT 7.5'

District: MCELROY County: TYLER
Latitude: 7,800 Feet south of 39 Deg 27 Min 30 Sec.
Longitude: 6,025 Feet west of 80 Deg 40 Min 00 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: MIKE UNDERWOOD
Permit Issued: 06/24/05
Well work Commenced: 09/22/05
Well work Completed: 10/17/05

Verbal plugging permission granted on:
Rotary X Cable _____ Rig _____
Total Depth (feet) 2990
Fresh water depths (ft) _____

Salt water depths (ft) _____

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	225.00'	225.00'	60 sks
4 1/2"	3298.40'	3298.40'	150 sks

OPEN FLOW DATA WATER INJECTION WELL

Producing formation Gordon Pay zone depth (ft) 2789-2807

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

Second producing formation _____ Pay zone depth (ft) _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours

Static rock pressure _____ psig (surface pressure) _____ after _____ Hours

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

For: EAST RESOURCES, INC.

By: Roger [Signature]
Date: 10/26/05

RECEIVED
Office of Oil & Gas
Office of Chief

OCT 27 2005

WV Department of
Environmental Protection

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

Well Log :

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



Select County: (095) Tyler (Check All)

Enter Permit #: 1837

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
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- ["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	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4709501837	10/17/2005	Original Loc	Completed	Royce Watts et al	22	M V Baker	22	M V Baker	99139-00	Earl Long et al	East Resources, Inc.	3100	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_AI
4709501837	10/17/2005	9/20/2005	1045	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service 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
4709501837	10/17/2005	Water	Salt Water	Vertical			2130	Big Injun (undiff)					
4709501837	10/17/2005	Water Flood	Injection	Vertical	2897	Gordon	2901	Gordon					
4709501837	10/17/2005	Water Flood	Injection	Vertical	2902	Gordon	2904	Gordon					
4709501837	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:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4709501837	Original Loc	Greenbrier Group	Well Record	2040	Reasonable		Qstrble 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

There is no Sample data for this well

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

4709501837

Well Operator's Report of Well Work

Farm name: ROYCE WATTS ET AL.

Operator Well No.: M.V. BAKER 22

LOCATION: Elevation: 1,045.00

Quadrangle: CENTERPOINT 7.5'

District: MCELROY

County: TYLER

Latitude: 9,550 Feet south of 39 Deg 27 Min 30 Sec.

Longitude: 5,675 Feet west of 80 Deg 40 Min 00 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: MIKE UNDERWOOD

Permit Issued: 06/25/05

Well work Commenced: 09/20/05

Well work Completed: 10/17/05

Verbal plugging permission granted on: _____

Rotary Cable _____ Rig _____

Total Depth (feet) 3110

Fresh water depths (ft) _____

Salt water depths (ft) 2130

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

Coal Depths (ft): NA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	354.00'	354.00'	90 sks
4 1/2"	3054.50'	3054.50'	150 sks

OPEN FLOW DATA

WATER INJECTION WELL

Producing formation Gordon Pay zone depth (ft) 2883'-2908'
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure _____ psig (surface pressure) _____ after _____ Hours

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

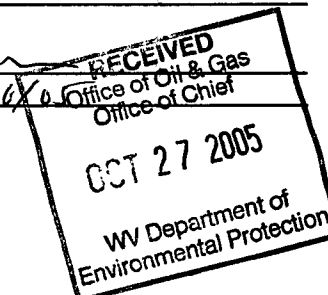
For: EAST RESOURCES, INC.

By: _____

Date: _____

Philip Ondrusek

10/20/05



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



Select County: (095) Tyler (Check All)

Enter Permit #: 1838

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

- [Table Descriptions](#)
- [County Code Translations](#)
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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	TAX_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_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4709501838	10/17/2005	Original Loc	Completed	Royce Watts et al	23	M V Baker	23	M V Baker	99139-00	Earl Long et al	East Resources, Inc.	2950	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_AI
4709501838	10/17/2005	9/16/2005	913	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3020			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		Qstrble 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

There is no Sample 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: ROYCE WATTS ET AL.. Operator Well No.: M.V. BAKER 23

LOCATION: Elevation: 913.00 Quadrangle: CENTERPOINT 7.5'

District: MCELROY County: TYLER
Latitude: 8,725 Feet south of 39 Deg 27 Min 30 Sec.
Longitude: 5,725 Feet west of 80 Deg 40 Min 00 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: MIKE UNDERWOOD
Permit Issued: 06/24/05
Well work Commenced: 09/16/05
Well work Completed: 10/17/05

Verbal plugging permission granted on:
Rotary Cable Rig
Total Depth (feet) 3020
Fresh water depths (ft)

Salt water depths (ft)

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	225.00'	225.00'	60 sks
4 1/2"	2921.10'	2921.10'	150 sks

OPEN FLOW DATA

WATER INJECTION WELL

Producing formation Gordon Pay zone depth (ft) 2770'-2795'
 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

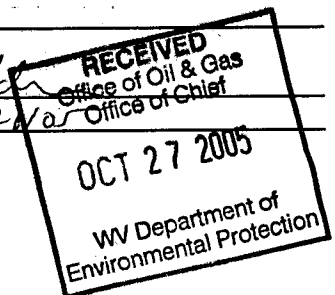
Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure _____ psig (surface pressure) _____ after _____ Hours

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

For: EAST RESOURCES, INC.

By: _____

Date: _____



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
2210	2766	Shale
2766	2778	Gordon Stray
2778	2795	Gordon
2795	3020	Shale
3020		TD



Select County: (095) Tyler (Check All)

Enter Permit #: 1839

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
- [WVGES Main](#)
- ["Pipeline-Plus"](#)

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](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4709501839	Tyler	1839	McElroy	Center Point	Centerpoint	39.43908	-80.688272	526825.5	4365550

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
4709501839	10/18/2005	Original Loc	Completed	Marie Walters	10	J Q McIntyre	McIntyre	99198-00	East Resources	East Resources, Inc.	3075	Gordon	
4709501839	2/4/2010	Worked Over	Completed	Marie Walters		J Q McIntyre	10	99198-00	East Resources Inc et al	East Resources, Inc.	3080	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_AI
4709501839	2/4/2010	2/4/2010	1033	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3080		3080			
4709501839	2/4/2010	2/4/2010	1033	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3080		3080			

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:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4709501839	Original Loc	Greenbrier Group	Well Record	2093	Reasonable		Qstrble 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 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 Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: MARIE WALTERS Operator Well No.: J.Q. MCINTYRE 10

LOCATION: Elevation: 1,033.00 Quadrangle: CENTERPOINT 7.5'

District: MCELROY County: TYLER
Latitude: 7,025 Feet south of 39 Deg 27 Min 30 Sec.
Longitude: 6,225 Feet west of 80 Deg 37 Min 30 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: MIKE UNDERWOOD
Permit Issued: 06/24/05
Well work Commenced: 09/27/05
Well work Completed: 10/18/05

Verbal plugging permission granted on:
Rotary X Cable _____ Rig _____
Total Depth (feet) 3080
Fresh water depths (ft) _____

Salt water depths (ft) 1430

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	385.00'	385.00'	90 sks
4 1/2"	2922.00'	2922.00'	150 sks

OPEN FLOW DATA WATER INJECTION WELL

Producing formation Gordon Pay zone depth (ft) 2884-2907
 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

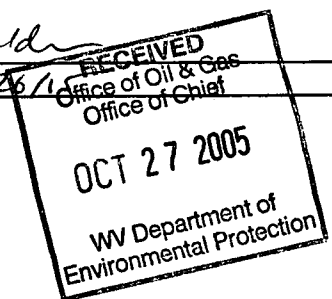
Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: EAST RESOURCES, INC.

By: _____

Date: _____



4709501839

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



Select County: (095) Tyler (Check All)

Enter Permit #: 1846

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
- [WVGES Main](#)
- ["Pipeline-Plus"](#)

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](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4709501846	Tyler	1846	McElroy	Center Point	Centerpoint	39.428916	-80.688073	526846.5	4364422

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
4709501846	10/18/2005	Original Loc	Completed	Fred/Dottie Glover	15	E W McIntyre	E W McIntyre	99173-00	East Resources	East Resources, Inc.	3350	Gordon	
4709501846	4/16/2010	Worked Over	Completed	Fred & Dottie Glover	15	E W McIntyre	E W McIntyre	99173-00	East Resources Inc	East Resources, Inc.	3320	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_AI
4709501846	10/18/2005	10/3/2005	1311	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3320		3320			
4709501846	4/16/2010	4/16/2010	1311	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acidized	3320					

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
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

There is no Sample data for this well

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

4709501846

Well Operator's Report of Well Work

Farm name: FRED & DOTTIE GLOVER Operator Well No.: E.W. MCINTYRE 15

LOCATION: Elevation: 1,311.00 Quadrangle: CENTERPOINT 7.5'

District: MCELROY County: TYLER
Latitude: 10,725 Feet south of 39 Deg 27 Min 30 Sec.
Longitude: 6,100 Feet west of 80 Deg 40 Min 00 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: MIKE UNDERWOOD

Permit Issued: 07/13/05

Well work Commenced: 10/03/05

Well work Completed: 10/18/05

Verbal plugging permission granted on:

Rotary X Cable _____ Rig _____

Total Depth (feet) 3,320

Fresh water depths (ft) _____

Salt water depths (ft) _____

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

Coal Depths (ft): NA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	644.00'	644.00'	160 sks
4 1/2"	3278.80'	3278.80'	150 sks

OPEN FLOW DATA WATER INJECTION WELL

Producing formation Gordon Pay zone depth (ft) 3166'-3186'

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

Second producing formation _____ Pay zone depth (ft) _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: EAST RESOURCES, INC.

By: _____

Date: _____

RECEIVED
Office of Oil & Gas
Office of Chief
OCT 27 2005
WV Department of
Environmental Protection

4709501846

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
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



Select County: (095) Tyler (Check All)

Enter Permit #: 1851

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
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- ["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	TAX_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	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PF
4709501851	7/7/2006	Original Loc	Completed	Virginia LeMasters	9		B A Swiger	Fee 883-00	East Resources	East Resources, Inc.	2840	Gordon	
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	TMD	NEW_FTG	KOD	G_BEF	G	
4709501851	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				
4709501851	4/23/2013	1/16/2013	799	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	unknown	2810						

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_QNTY
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	OCT	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
4709501851	East Resources, Inc.	2006	328	0	0	0	0	0	0	0	33	15	0	14	266
4709501851	East Resources, Inc.	2007	735	226	139	129	111	74	36	15	0	5	0	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	427	0	19	40	24	59	82	61	69	0	0	16	57
4709501851	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 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 Protection
Section of Oil and Gas**

Well Operator's Report of Well Work

Farm name: LEMASTERS, VIRGINIA HRS
 LOCATION: Elevation: 799.00
 District: MCELROY
 Latitude: 5,900 Feet south of
 Longitude: 10,700 Feet west of

Operator Well No.: SWIGER 9
 Quadrangle: CENTERPOINT 75
 County: TYLER
39 Deg 27 Min 30 Sec.
80 Deg 40 Min 00 Sec.

COPY

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: MIKE UNDERWOOD

Permit Issued: 07/27/05
 Well work Commenced: 01/11/06
 Well work Completed: 07/07/06

Verbal plugging permission granted on: _____
 Rotary X Cable Rig
 Total Depth (feet) 2810'
 Fresh water depths (ft) N/A
 Salt water depths (ft) N/A
 Is coal being mined in area (Y/N) N
 Coal Depths (ft): NA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	224'	224.00'	55 sks
4 1/2"	2742.00'	2742.00'	150 sks

OPEN FLOW DATA * WATERFLOOD PRODUCER

Producing formation Gordon Pay zone depth (ft) 2656-2675
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure _____ psig (surface pressure) after _____ Hours

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

RECEIVED
 DEPARTMENT OF OIL & GAS
 DIVISION OF ENVIRONMENTAL PROTECTION
 OCT 11 2012

SPZ

For: EAST RESOURCES, INC.
 By: [Signature]
 Date: 7/25/06

Department of
 Environmental Protection

Treatment :

Perforations 2668'-2675'(4spf). Treated perms 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
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



Select County: (095) Tyler (Check All)

Enter Permit #: 1889

Get Data Reset

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

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- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
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- ["Pipeline-Plus"](#)

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](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4709501889	Tyler	1889	McElroy	Center Point	Centerpoint	39.454645	-80.684633	527132.6	4367278.5

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
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	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AF
4709501889	7/12/2007	7/26/2006	1231	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3300		3300			

Comment: 7/12/2007 Core 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
4709501889	7/12/2007	Water	Fresh Water	Vertical				140					Pennsylvanian System
4709501889	7/12/2007	Water Flood	Injection	Vertical	3122	Gordon	3140	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
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	OCT	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:

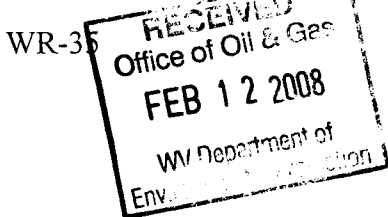
* There is no Scanned/Raster Log data for this well

* 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



07/19/2006
API # 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, RALPH & BETTY Operator Well No.: F.R. BALL 23

LOCATION: Elevation: 1,231' Quadrangle: CENTERPOINT 7.5'

District: MCELROY County: TYLER
Latitude: 1,375 Feet south of 39 Deg 27 Min 30 Sec.
Longitude: 5,100 Feet west of 80 Deg 40 Min 00 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: MIKE UNDERWOOD

Permit Issued: 07/19/06
Well work Commenced: 07/26/06
Well work Completed: 07/12/07

Verbal plugging permission granted on: _____

Rotary Cable _____ Rig _____

Total Depth (feet) 3300'

Fresh water depths (ft) 140'

Salt water depths (ft) _____

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

Coal Depths (ft): NA

Casing/ tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	387'	387'	280 sks
8 5/8"	1518'	1518'	100 sks
4 1/2"	3257'	3257'	300 sks

OPEN FLOW DATA * WATERFLOOD INJECTOR

Producing formation Gordon Pay zone depth (ft) 3122'-3140'
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

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: EAST RESOURCES, INC.
By: [Signature]
Date: 2/14/08

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



Select County: (095) Tyler (Check All)

Enter Permit #: 1890

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

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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	TAX_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_PF
4709501890	9/1/2006	Original Loc	Completed	David W Lemasters		Isaac Baker 10		12868-50	East Resources Inc et al	East Resources, Inc.		3200	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_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: 9/1/2006 Waterflood producer

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
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:

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

There is no Sample data for this well

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

4709501890

Well Operator's Report of Well Work

Farm name: LEMASTERS, DAVID W. Operator Well No.: ISAAC BAKER 10

LOCATION: Elevation: 1,207' Quadrangle: CENTERPOINT 7.5'

District: MCELROY County: TYLER
Latitude: 9,125 Feet south of 39 Deg 27 Min 30 Sec.
Longitude: 11,025 Feet west of 80 Deg 40 Min 00 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: MIKE UNDERWOOD

Permit Issued: 08/03/06

Well work Commenced: 08/15/06

Well work Completed: 09/01/06

Verbal plugging permission granted on:

Rotary X Cable _____ Rig _____

Total Depth (feet) 3280'

Fresh water depths (ft) _____

Salt water depths (ft) _____

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

Coal Depths (ft): NA

Casing/ tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	516.00'	516.00'	130 sks
4 1/2"	3220.00'	3220.00'	150 sks
RECEIVED Office of Oil & Gas NOV 21 2006			

OPEN FLOW DATA * WATERFLOOD PRODUCER

Producing formation Gordon Pay zone depth (ft) 3053'-3064'

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

Second producing formation _____ Pay zone depth (ft) _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: EAST RESOURCES, INC

By: [Signature]

Date: 11/20/06



Select County: (095) Tyler (Check All)

Enter Permit #: 1892

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

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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	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4709501892	10/6/2006	Original Loc	Completed	Donald McCoy	8	L J Lemasters 8			East Resources et al	East Resources, Inc.	3400	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_AF
4709501892	10/6/2006	9/5/2006	1347	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	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	Qstrble 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	Qstrble 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

There is no Sample 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: MCCOY, DONALD Operator Well No.: LEMASTERS 8

LOCATION: Elevation: 1,347' Quadrangle: CENTERPOINT 7.5'

District: MCELROY County: TYLER
Latitude: 11,725 Feet south of 39 Deg 30 Min 0 Sec.
Longitude: 2,200 Feet west of 80 Deg 40 Min 00 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: MIKE UNDERWOOD

Permit Issued: 07/24/06

Well work Commenced: 09/05/06

Well work Completed: 10/06/06

Verbal plugging permission granted on:

Rotary X Cable _____ Rig _____

Total Depth (feet) 3470'

Fresh water depths (ft) _____

Salt water depths (ft) _____

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

Coal Depths (ft): NA

Casing/ tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	642'	642'	155 sks
4 1/2"	3294'	3294'	150 sks

OPEN FLOW DATA *WATERFLOOD INJECTOR

Producing formation Gordon Pay zone depth (ft) 3243'-3256'
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure _____ psig (surface pressure) after _____ Hours

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

RECEIVED
Office of Oil & Gas
Office of Chief
DEC 06 2006
WV Department of
Environmental Protection

For: EAST RESOURCES, INC

By: _____

Date: 11/4/06

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.

Well Log :

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



Select County: (095) Tyler (Check All)

Enter Permit #: 1896

Get Data Reset

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

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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_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	T
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			Joshua Haught			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	TMD	NEW_FTG	KOD	G_BEF	G	
4709501896	9/22/2006	8/20/2006	1124	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Development Well	Development Well	Oil	Rotary	Acid+Frac	3200		3200				
4709501896	4/8/2013	3/28/2013	1124	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	unknown	3200						

Comment: 9/22/2006 Waterflood Producer

Comment: 4/8/2013 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_QNTY
4709501896	9/22/2006	Water Flood	Oil	Vertical	2959	Gordon	2966	Gordon					
4709501896	4/8/2013	Water Flood	Injection	Vertical	2959	Gordon	2996	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
4709501896	East Resources, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501896	East Resources, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501896	East Resources, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501896	East Resources, Inc.	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501896	East Resources, Inc.	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501896	HG Energy, LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4709501896	HG Energy, LLC	2012	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
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:

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 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

Received

**State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work**



MAY 13 2013

Farm name of Oil and Gas: **LEMASTERS, DAVID W.** Operator Well No.: **JOSHUA HAUGHT 7**
 WV Dept. of Environmental Protection
 LOCATION: Elevation: **1,124.00** Quadrange: **CENETERPOINT 7.5'**
 District: **MCELROY** County: **TYLER**
 Latitude: **8,225 Feet south of 39 Deg 27 Min 30 Sec.**
 Longitude: **11,675 Feet west of 80 Deg 40 Min 0 Sec.**

Company Address:	HG Energy 5260 DuPont Road Parkersburg, WV 26101	Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Inspector:	Joe Taylor				
Date Permit Issued:	10/23/2012				
Date Well Work Commenced:	03/28/2013				
Date Well Work Completed:	04/08/2013				
Verbal Plugging:					
Date Permission Granted On:					
Rotary X Cable Rig		7"	419	419	105 sks
Total vertical Depth (ft):	3200				
Total Measured Depth (ft):	3200				
Fresh Water Depth (ft):	none	4 1/2"	3123.55'	3123.55'	150 sks
Salt Water Depth (ft):	none				
Is Coal being mined in ares (Y/N)?	No	2 3/8	2855.2	2855.2	on packer
Coal Depths (ft):	None				
Void(s) encountered (Y/N) depth(s):					

OPEN FLOW DATA * Waterflood Injector

Producing formation Gordon Pay zone depth (ft) 2959'-2966'
 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

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

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.

Signature

4/23/13
Date

Were core samples taken? No

Were cuttings caught during drilling? No

Were Y Electrical, N Mechanical, N or Geophysical logs recorded on this well?
Y/N Y/N Y/N

NOTE: IN THE AREA BELOW 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 THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Treatment : None

Converted to water injection

Well Log : See original well record



Select County: (095) Tyler (Check All)

Enter Permit #: 1899

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
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- [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_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4709501899	10/27/2006	Original Loc	Completed	John W L Jones		J B Gorrell 6			East Resources et al	East Resources, Inc.	2950	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_AI
4709501899	10/27/2006	9/14/2006	890	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3050		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

There is no Sample 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: JONES, JOHN W.L.

Operator Well No.: J.B. GORRELL 6

LOCATION: Elevation: 890'

Quadrangle: CENTERPOINT 7.5'

District: MCELROY

County: TYLER

Latitude: 2,000 Feet south of 39 Deg 27 Min 30 Sec.

Longitude: 5,900 Feet west of 80 Deg 40 Min 00 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: MIKE UNDERWOOD

Permit Issued: 08/23/06

Well work Commenced: 09/14/06

Well work Completed: 10/27/06

Verbal plugging permission granted on: _____

Rotary X Cable _____ Rig _____

Total Depth (feet) 3050'

Fresh water depths (ft) _____

Salt water depths (ft) _____

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

Coal Depths (ft): NA

Casing/ tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	708'	708'	185 sks
4 1/2"	2957.80'	2957.80'	150 sks

OPEN FLOW DATA * WATERFLOOD INJECTOR

Producing formation Gordon Pay zone depth (ft) 2780'-2795'
 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

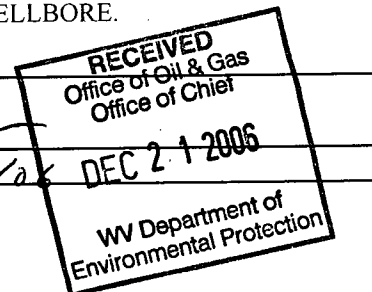
Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure _____ psig (surface pressure) _____ after _____ Hours

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

For: EAST RESOURCES, INC

By: _____

Date: 12/20/06



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
1739	1769	Sand
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
3050		TD

[Faint, illegible text, possibly a stamp or signature]



Select County: (095) Tyler (Check All)

Enter Permit #: 1903

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
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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	TAX_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	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4709501903	3/16/2007	Original Loc	Completed	Donald McCoy		L J Lemasters 9			East Resources	East Resources, Inc.	3290	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_AF
4709501903	3/16/2007	2/21/2007	1217	Ground Level	Jksnbg-Strngtwn	Gordon	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3330			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

There is no Sample data for this well

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

4709501903

Well Operator's Report of Well Work

Farm name: MCCOY, DONALD

Operator Well No.: L. LEMASTERS 9

LOCATION: Elevation: 1,217'

Quadrangle: CENTERPOINT 7.5'

District: MCELROY

County: TYLER

Latitude: 10,000 Feet south of 39 Deg 30 Min 0 Sec.

Longitude: 3,375 Feet west of 80 Deg 40 Min 00 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: MIKE UNDERWOOD

Permit Issued: 08/29/06

Well work Commenced: 02/21/07

Well work Completed: 03/16/07

Verbal plugging permission granted on:

Rotary X Cable _____ Rig _____

Total Depth (feet) 3330'

Fresh water depths (ft) _____

Salt water depths (ft) _____

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

Coal Depths (ft): NA

Casing/ tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	483'	483'	125 sks
4 1/2"	3275'	3275'	150 sks

OPEN FLOW DATA

*WATERFLOOD INJECTOR

Producing formation Gordon Pay zone depth (ft) 3113'-3121'

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

Second producing formation _____ Pay zone depth (ft) _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

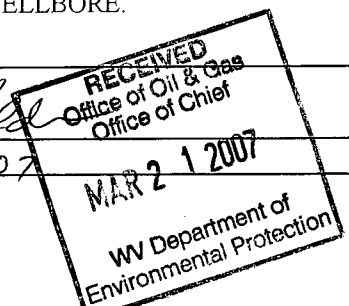
Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: EAST RESOURCES, INC.

By: _____

Date: 3/20/07



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
3330		TD



Select County: (095) Tyler (Check All)

Enter Permit #: 1909

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

- [Table Descriptions](#)
- [County Code Translations](#)
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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](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4709501909	Tyler	1909	McElroy	Center Point	Centerpoint	39.448844	-80.704084	525461.2	4366629

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
4709501909	11/17/2006	Original Loc	Completed	Randy & Terry Wadsworth	FM Lemasters 12		Randy & Terry Wadsworth et al	47221-00	East Resources 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	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEFF	G_A
4709501909	11/17/2006	10/10/2006	1029	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3120			3120		

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEFF	G_AFT	O_BEFF	O_AFT	WATER_QNTY
4709501909	11/17/2006	Water Flood	Injection	Vertical	2886	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:

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

There is no Sample data for this well

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

4709501909

Well Operator's Report of Well Work

Farm name: WADSWORTH, RANDY & TERRY Operator Well No.: LEMASTERS 12

LOCATION: Elevation: 1,029' Quadrangle: CENTERPOINT 7.5'

District: MCELROY County: TYLER
Latitude: 3,500 Feet south of 39 Deg 27 Min 30 Sec.
Longitude: 10,600 Feet west of 80 Deg 40 Min 00 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: MIKE UNDERWOOD

Permit Issued: 09/11/06

Well work Commenced: 10/10/06

Well work Completed: 11/17/06

Verbal plugging

permission granted on:

Rotary X Cable _____ Rig _____

Total Depth (feet) 3120'

Fresh water depths (ft) _____

Salt water depths (ft) _____

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

Coal Depths (ft): NA

Casing/ tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	419'	419'	75 sks
4 1/2"	2963'	2963'	150 sks

OPEN FLOW DATA

*WATERFLOOD INJECTOR

Producing formation Gordon Pay zone depth (ft) 2886'-2896'
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure _____ psig (surface pressure) after _____ Hours

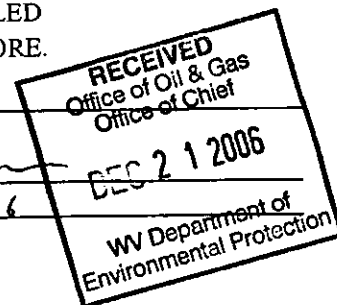
NOTE: ON BACK OF THIS FORM, PUT THE FOLLOWING: 1) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2) THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: EAST RESOURCES, INC.

By: _____

Date: _____

Philip Ondrusek
12/28/06



4709501909

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



Select County: (095) Tyler (Check All)

Enter Permit #: 1910

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
- [WVGES Main](#)
- ["Pipeline-Plus"](#)

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_TRGT_FM	TFM_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:

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
4709501910	3/16/2007	2/8/2007	1024	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary Acid+Frac		3090					
4709501910	1/25/2010	1/25/2010	1024	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary Acid+Frac		3090					

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:

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

There is no Sample data for this well

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

4709501910

Well Operator's Report of Well Work

Farm name: KINNEY, EDWIN J.

Operator Well No.: W. J. WHARTON 6

LOCATION: Elevation: 1024'

Quadrangle: CENTERPOINT 7.5'

District: MCELROY

County: TYLER

Latitude: 1,300 Feet south of 39 Deg 27 Min 30 Sec.

Longitude: 10,800 Feet west of 80 Deg 40 Min 00 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: JOE TAYLOR

Permit Issued: 12/30/09

Well work Commenced: 01/25/10

Well work Completed: 01/25/10

Verbal plugging permission granted on:

Rotary X Cable _____ Rig _____

Total Depth (feet) 3,090

Fresh water depths (ft) _____

Salt water depths (ft) _____

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

Coal Depths (ft): NA

Casing/ tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	418'	418'	100 sks
4 1/2"	3059.25'	3059.25'	150 sks

OPEN FLOW DATA

* WATERFLOOD PRODUCER

Producing formation Gordon Pay zone depth (ft) 2881'-2896'

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

Second producing formation _____ Pay zone depth (ft) _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: EAST RESOURCES, INC.

By: Ber Wood

Date: 4/23/10

Treatment : 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

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

COPY

Well Operator's Report of Well Work

Farm name: KINNEY, EDWIN J.

Operator Well No.: W.J. WHARTON 6

LOCATION: Elevation: 1,024'

Quadrangle: CENTERPOINT 7.5'

District: MCELROY
Latitude: 1,300 Feet south of
Longitude: 10,800 Feet west of

County: TYLER
39 Deg 27 Min 30 Sec.
80 Deg 40 Min 00 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: MIKE UNDERWOOD

Permit Issued: 09/21/06

Well work Commenced: 02/08/06

Well work Completed: 03/16/07

Verbal plugging permission granted on: _____

Rotary X Cable _____ Rig

Total Depth (feet) 3090'

Fresh water depths (ft) _____

Salt water depths (ft) _____

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

Coal Depths (ft): NA

Casing/ tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	418'	418'	100 sks
4 1/2"	3059.25'	3059.25'	150 sks

OPEN FLOW DATA * WATERFLOOD INJECTOR

Producing formation Gordon Pay zone depth (ft) 2881'-2896'
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: EAST RESOURCES, INC.

By: _____

Date: 3/20/07

JDT.
12-02-09

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
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



Select County: (095) Tyler (Check All)

Enter Permit #: 1913

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
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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](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4709501913	Tyler	1913	McElroy	Center Point	Centerpoint	39.47282	-80.67416	528026.4	4369298.7

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
4709501913	6/11/2007	Original Loc	Completed	West Virginia Public Lands Corp	56		C C Pennick		East Resources et al	East Resources, Inc.	3200	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_AF
4709501913	6/11/2007	2/16/2007	1145	Ground Level	Pn Grv-Cmp Run	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3300			3300		

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
4709501913	6/11/2007	Water Flood	Injection	Vertical	3054	Gordon	3074	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
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

There is no Sample data for this well

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

Well Operator's Report of Well Work

RECEIVED
Office of Oil & Gas
Office of Chief
JUN 19 2007
WV Department of
Environmental Protection

Farm name: WV PUBLIC LANDS CORP.

Operator Well No.: C.C. PENNICK 56

LOCATION: Elevation: 1,145'

Quadrangle: CENTERPOINT 7.5'

District: MCELROY
Latitude: 9,950 Feet south of
Longitude: 2,150 Feet west of

County: TYLER
39 Deg 30 Min 0 Sec.
80 Deg 40 Min 00 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: MIKE UNDERWOOD

Permit Issued: 09/21/06

Well work Commenced: 02/16/07

Well work Completed: 06/11/07

Verbal plugging permission granted on:

Rotary Cable Rig

Total Depth (feet) 3300'

Fresh water depths (ft)

Salt water depths (ft)

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

Coal Depths (ft): NA

Casing/ tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	422'	422'	100 sks
4 1/2"	3147.15'	3147.15'	150 sks

OPEN FLOW DATA * WATERFLOOD INJECTOR

Producing formation Gordon Pay zone depth (ft) 3054'-3074'
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: EAST RESOURCES, INC.
By: [Signature]
Date: 6/12/07

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



Select County: (095) Tyler (Check All)

Enter Permit #: 1916

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
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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](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4709501916	Tyler	1916	McElroy	Center Point	Centerpoint	39.469194	-80.679772	527545	4368894.6

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
4709501916	3/9/2007	Dvtd Orgnl Loc	Completed	James & Betty McCoy 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_CLASS	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	Unsuccessful	Water Injection	Rotary	Acid+Frac	3013	3224		3224		

Comment: 3/9/2007 Drilled directionally S20 degrees E at a distance of 791ft.

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

There is no Sample data for this well

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

4709501916

Well Operator's Report of Well Work

Farm name: MCCOY, DONALD & DELORES Operator Well No.: AD LEMASTERS 26

LOCATION: Elevation: 955' Quadrangle: CENTERPOINT 7.5'

District: MCELROY County: TYLER
Latitude: 11,250 Feet south of 39 Deg 30 Min 0 Sec.
Longitude: 3,750 Feet west of 80 Deg 40 Min 00 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: MIKE UNDERWOOD

Permit Issued: 11/27/06

Well work Commenced: 12/17/06

Well work Completed: 03/09/07

Verbal plugging permission granted on: _____

Rotary X Cable _____ Rig _____

Total Depth (feet) 3224'(MD) OR 3013'(TVD)

Fresh water depths (ft) _____

Salt water depths (ft) _____

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

Coal Depths (ft): NA

Casing/ tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	242'	242'	165 sks
8 5/8"	1292'	1292'	185 sks
4 1/2"	3152'	3152'	150 sks

OPEN FLOW DATA

* WATERFLOOD INJECTOR

This well drilled directionally S20° E a distance of 791'

Producing formation Gordon Pay zone depth (ft) 3040'-3052'

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

Second producing formation _____ Pay zone depth (ft) _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: EAST RESOURCES, INC.

By: [Signature]

Date: 3/13/07

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.

Well Log :

0	426	Sand and Shale
426	458	Sand
458	490	Shale
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
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



Select County: (103) Wetzsel (Check All)

Enter Permit #: 906

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
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- ["Pipeline-Plus"](#)

WV Geological & Economic Survey:

Well: County = 103 Permit = 906 [Link to all digital records for well](#)

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	UTMN
4710300906	Wetzsel	906	Green	Pine Grove	Littleton	39.516081	-80.692512	526431.5	4374094.3

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_ES
4710300906	9/17/1898	Original Loc	Completed	Rachael Wright	3					South Penn Oil (S. Penn Nat. Gas)			
4710300906	11/19/1996	Worked Over	Completed	Santford J Haught	3		Rachael Wright	25942-50	Pennzoil Products 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	G_BEF
4710300906	9/17/1898	4/13/1898			Jksnbg-Strngtwn	Hampshire Grp	Gordon	unclassified	unclassified	Oil	unknown	Shot	2697		2697		0
4710300906	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:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4710300906	9/17/1898	Pay	Oil	Vertical			2673	Gordon	10	0			
4710300906	11/19/1996	Horizon	Injection	Vertical	2681	Gordon	2693	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
4710300906	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.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4710300906	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
4710300906	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

There is no Sample data for this well

4710300906

FORM P. O. 200A 22-0-22

(Pgh. Record 100 A.)

FARM **RACHEAL WRIGHT** WELL **3** ACRES **63** LEASE NO. **26296-25942**
 TOWNSHIP OR DISTRICT **Green** COUNTY **Wetzel** STATE **W. Va.** N. **5** S. E. **W. 4**
 RIG COMMENCED _____ 19 _____ COMPLETED _____ 19 _____ CONTRACTOR _____
 DR'S COMMENCED **4/13/98** 19 _____ COMPLETED **9/17/98** 19 _____ CONTRACTOR **W.W. Thompson**
 D. D. COMMENCED _____ 19 _____ COMPLETED _____ 19 _____ CONTRACTOR _____

FORMATION

CASING RECORD

KIND	TOP	BOTTOM	STEM LINE DEPTH	REMARKS	SIZE	BOTTOM CASING (OVER LINE)	PUT IN WELL (TALLY MEAS.)	FILLED (TALLY MEAS.)	LEFT IN WELL (TALLY MEAS.)	
Pgh Coal	624				Cond		16			
Big Injun	1949	2099			10		390			
Stray	2655				8 1/2		1150	390	1150	
Gas	2657				6-5/8		1911			
Gordon	2681	2693			5-5/16		2123			
Oil	2683									
PACKERS										
					KIND	SIZE	DEPTH SET		DATE SET	
TORPEDO RECORD										
					DATE SHOT	NO. QTS.	SIZE SHELL	TOP SHOT	BOTTOM	RESULT
					1/24/99	30				
					3/26/1900	70				
					6/30/02	120	12-4"	10	2678	
					5/17/04	60	6-4"	20	2680	
					9/12/11	150	Opp 30"	30	2684	Cleaned Self
ABANDONMENT RECORD										
					FILLED WITH	FROM	TO	SIZE	LINE	DEPTH
REMARKS										
10/6/11 Put in 149' 7 Jts 4 x 4" P.J. Line hung on C.C. packer top 2530' 2-2-29 Run 10 Jts 2 1/2" of 4x4" P.F. Liner set on bell collar. Top 2320' 2-2-29 Run 10 Jts 2 1/2" of 4x4" P.F. Liner on Par. Cave packer. Top 2116'. Top Sec. Bottom section already in well.										
TOTAL DEPTH 2697										
PRODUCTION RECORD										
24 HOURS BEFORE SHOT					SAND / 0					
24 HOURS AFTER SHOT					SAND					
GAS TEST										
APPROVED BY										

140 566
 214 2116
 203 2682
 566

1930	150	1945	82
1931	113	1946	109
1932	96	1947	122
1933	167	1948	100
1934	122	1949	113
1935	86	1950	126
1936	104		
1937	200		
1938	103		
1939	104		
1940	103		
1941	107		
1942	111		
1943	68		
1944	58		

4710300906

Rachael Wright #3
47-103-00906
WIW Conversion

T.D.: 2997'
10" Csg. (Pulled): 390'
8" Csg. (Pulled): 1150'
6 5/8" Csg: 1911'
5 3/16" Csg: 2123'

Pittsburg Coal: 624'

RECEIVED
Office of Oil & Gas
UIC Section
NOV 25 1996
WV Division of
Environmental Protection

8 1/4" Csg: 1150'

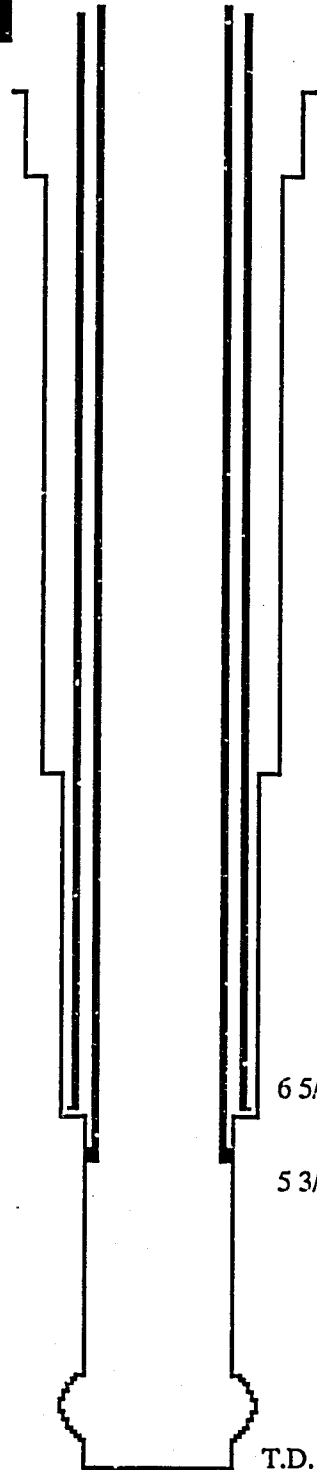
Big Injun: 1949-2099'

6 5/8" Csg: 1911'

5 3/16" Csg. & Pkr. - 2123'

T.D. - 2997'

Gordon: 2681 - 2693



REC'D
Environmental
JAN 21 1997
Permitting
Office of Oil and Gas

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

4710300906

Well Operator's Report of Well Work

Farm name: Haight, Sanford Joe

Operator Well No.: Rachael Wright #3

LOCATION: Elevation: 854.00

Quadrangle: Pine Grove

District: Green

County: Wetzel

Latitude: 9,300 Feet south of

39 Deg 32 Min 30 Sec.

Longitude: 7,300 Feet west of

80 Deg 40 Min 00 Sec.

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

Agent: PHILIP S. ONDRUSEK

Inspector: Randal Mick

Permit Issued: 5/7/96

Well work Commenced: 9/9/96

Well work Completed: 11/19/96

Verbal plugging permission granted on:

Rotary Cable Rig

Total Depth (feet) 2697'

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): NA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
6 5/8"	1911.00'	1911.00'	Existing Casing
5 3/16"	2123.00'	2123.00'	Existing Casing
3 1/2"	2694.43'	2694.43'	300 Sacks
Note: Pulled 4 x 4.5" Liner			

OPEN FLOW DATA

*Well was converted to a waterflood injection well. No open-flow data was obtained.

Producing formation Gordon Pay zone depth (ft) 2681-2693

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

Second producing formation Pay zone depth (ft)

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

Final open flow MCF/d Final open flow Bbl/d

Time of open flow between initial and final tests Hours

Static rock pressure psig (surface pressure) after Hours

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

For: PENNZOIL PRODUCTS COMPANY

By: [Signature]

Date: 1/3/97

W E T 0906

4710300906

Treatment:

Perforations: 2682' - 2686' - 4 holes/ft.(16 holes)
Treatment: Treated via 3.5" Casing with 300 gals. 15% HCl, 208 bbis.
Borate cross-linked gelled water and 10,800 lbs. of 20/40 sand.

Well Log:

Note: See Original Well Record.



Select County: (103) Wetzel (Check All)

Enter Permit #: 947

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
- [WVGES Main](#)
- ["Pipeline-Plus"](#)

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	LEASE_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			

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_BEFG
4710300947	12/27/1898	10/25/1898	1220	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	unclassified	unclassified	Oil	unknown	Shot	3099		3099		0
4710300947	5/21/1901	-/-	1220	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	unclassified	unclassified	Oil	unknown	Shot	3099				0
4710300947	11/26/1902	-/-	1220	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	unclassified	unclassified	Oil	unknown	Shot	3099				0
4710300947	3/29/1996	1/18/1996	1217	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	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_BEFG	G_AFT	O_BEFG	O_AFT	WATER_QNTY
4710300947	12/27/1898	Pay	Oil	Vertical		Gordon		Gordon	0	0	0	0	
4710300947	12/27/1898	Show	Oil	Vertical			2380	Big Injun (undiff)	0	0	0	0	
4710300947	12/27/1898	Show	Oil	Vertical			3027	Gordon Stray	0	0	0	0	
4710300947	3/29/1996	Horizon	Injection	Vertical	3072	Gordon	3086	Gordon	0	0	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
4710300947	Pennzoil Company	1981	56	0	0	0	0	0	0	0	0	0	0	0	0
4710300947	Pennzoil Company	1983	81	0	0	0	0	0	0	0	0	0	0	0	0
4710300947	Pennzoil Company	1984	72	0	0	0	0	0	0	0	0	0	0	0	0
4710300947	Pennzoil Products Company	1989	69	5	6	5	6	7	8	7	8	7	7	0	3
4710300947	Pennzoil Products Company	1990	72	7	5	5	6	9	6	2	7	5	6	7	7
4710300947	Pennzoil Products Company	1991	70	8	10	3	7	8	7	5	2	0	1	10	9
4710300947	Pennzoil Products Company	1992	73	8	7	7	9	5	4	7	6	5	8	7	0
4710300947	Pennzoil Products Company	1993	32	7	7	9	7	2	0	0	0	0	0	0	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

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

There is no Sample data for this well

4710300947

103-0947

FARM **JAMES BOOTH** WELL #5 ACRES 93-1/3 LEASE NO. 15636
 TOWNSHIP OR DISTRICT **Green** COUNTY **Wetzel** STATE **W. Va.** N. 4 S. E. W. 4
 RIG COMMENCED 10/25/98 COMPLETED 12/2/98 CONTRACTOR **J.G. Cochran & Co**
 O.R.G. COMMENCED 10/25/98 COMPLETED 12/2/98 CONTRACTOR **J.G. Cochran & Co**
 O. D. COMMENCED COMPLETED CONTRACTOR

FORMATION CASING RECORD.

KIND	TOP	BOTTOM	TYPE LINE	REMARKS	SIZE	BOTTOM CASING (FEET, LINE)	FT. IN WELL (TALLY MARK)	FALLS (TALLY MARK)	LEFT IN WELL (TALLY MARK)
Conductor	16				10		680	680	
8 1/2" Coal	969				8 1/2		1471	792	679
Big Injun	2270	2410			6-5/8		2495		
1st Pay Oil	2380			Show Oil	2 1/2		2443	2443	
Stray Sand	3025				5-7/8		2498		
Gordon	3072	3086							
1st Pay Oil	3027			Show Oil					
Oil	3078								

PACKERS			
KIND	SIZE	DEPTH SET	DATE SET
Callahan Gave	5-3/16 x 10		
Callahan Wall	6-5/8 x 10		3/15/09
Callahan Wall	5-7/16 x 6-5/8	2443	4/6/09

DATE SHOT	NO. QTS.	SET AREA	TOP SHOT	BOTTOM	RESULT
12/2/98	80		3072		
5/21/01	60		3070		
11/26/02	120		3072		
5/16/03	160		3072	3078	100% F.O.

ABANDONMENT RECORD					
FILLED WITH	APPROX.	TO	DATE	REMARKS	DEPTH

REMARKS					
146 ft. 5 x 5 1/2" liner on Callahan Gave					
Packer 11097 Packed 5/15/09					
2443 casing set on 6-5/8" 11097					
Callahan Wall Packer 11097 set Nov. 1998					
6 hours out in Nov. 1998					

PRODUCTION RECORD			
24 HOURS BEFORE SHOT	24 HOURS AFTER SHOT	GAS TEST	APPROVED BY

Seaside, W. Va.

JAMES BOOTH #5
47-103-0947 - C1
W.I.W. Conversion

4710300947

T.D.: 3099'
6 5/8" Csg: 2495'
5 3/16" Csg. & Pkr.: 2438'

10" CSG: 680' - Pulled

Pittsburg Coal Top:
969'

RECEIVED
Office of Oil & Gas
UIC Section
AUG 03 1995
WV Division of
Environmental Protection

8 1/4" CSG. - 1474' - Pulled

Big Injun: 2270 - 2410'

5 3/16" CSG. & Pkr. - 2438'

6 5/8" CSG. 2495'

Gordon Stray: 3025'

Gordon: 3072 - 3086'

T.D. - 3099'



Select County: (103) Wetzzel (Check All)

Enter Permit #: 1315

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
- [WVGES Main](#)
- ["Pipeline-Plus"](#)

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: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4710301315	Wetzzel	1315	Green	Center Point	Centerpoint	39.492506	-80.695738	526163	4371477

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	KOD	G_BEI
4710301315	12/2/1984	11/26/1984	1005	Ground Level	Jksnbg-Strngtwn	Gordon	Gordon	Service Well	Unsuccessful	Other	Rotary	Nat/Open H	2990		2990		0
4710301315	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
4710301315	10/3/1995	10/3/1995	1005	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Cable Tool	unknown	2990			0	
4710301315	-/-	-/-	1005	Ground Level						Water Injection							

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEI	G_AFT	O_BEI	O_AFT	WATER_QNTY
4710301315	12/2/1984	Water	Fresh Water	Vertical			250						0
4710301315	12/2/1984	Water	Salt Water	Vertical			1811						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.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4710301315	Pennzoil Products Company	1989	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:

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
4710301315	Original Loc	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 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

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_SEC
4710301315					2865	2900	Gordon	Gordon										

WSC Comment: 2 sets of boxes

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

4710301315

Well Operator's Report of Well Work

Farm name: WVA. PUBLIC LAND Operator Well No.: IRENE REILLY#13

LOCATION: Elevation: 1,005.00 Quadrangle: CENTER POINT

District: GREEN County: WETZEL
Latitude: 2740 Feet South of 39 Deg. 30Min. 0 Sec.
Longitude: 8340 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: RANDAL MICK
Permit Issued: 12/14/94
Well work Commenced: 10/03/95
Well work Completed: 10/03/95
Verbal Plugging
Permission granted on: -
Rotary Cable Rig
Total Depth (feet) 2990'
Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	893'	893'	Existing Casing
4-1/2"	2976'	2976'	Existing Casing

OPEN FLOW DATA

*Water injection well

Producing formation Gordon Pay zone depth (ft) 2881-2990

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

Second producing formation Pay zone depth (ft)

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

Final open flow MCF/d Final open flow Bbl/d

Time of open flow between initial and final tests Hours

Static rock Pressure psig (surface pressure) after Hours

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

RECEIVED
Office of Oil and Gas

For: PENNZOIL PRODUCTS COMPANY

By: [Signature]
Date: 11/2/95

SEP 23 2013

WV Department of
Environmental Protection

4710301315

Treatment:

Sand notched - 2888'-2892'

Treated via 4½" csg. w/300 gals. 15% HCl acid,

217 bbls. of gelled water & ~~73,700~~ lbs. of 20/40 sand.

Well Log:

See original well record

13,700

Received

SEP 23 2013

Office of Oil and Gas
WV Dept. of Environmental Protection

Received

SEP 23 2013

Office of Oil and Gas
WV Dept. of Environmental Protection



Select County: (103) Wetzel (Check All)

Enter Permit #: 1514

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
- [WVGES Main](#)
- ["Pipeline-Plus"](#)

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_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_
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			

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
4710301514	12/14/1992	10/22/1992	1405	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3600	3600			0

Comment: 12/14/1992 Drilled directionally

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			

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
4710301514	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301514	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
4710301514	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301514	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
4710301514	Dvtd Orgnl Loc	Gordon	Well Record	3442	Reasonable	61	Reasonable	1405

Wireline (E-Log) Information:

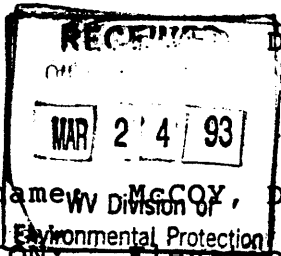
* There is no Scanned/Raster Log data for this well

* 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 Protection
Section of Oil and Gas

4710301514

Well Operator's Report of Well Work

Farm name: McCOY, DONALD L.

Operator Well No.: C.T. HALL K-14B

LOCATION: Elevation: 1405.00 Quadrangle: CENTER POINT

District: CHURCH County: WETZEL
Latitude: 8650 Feet South of 39 Deg. 30Min. 0 Sec.
Longitude: 3800 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: RANDAL MICK
Permit Issued: 10/05/92
Well work Commenced: 10/22/92
Well work Completed: 12/14/92
Verbal Plugging _____
Permission granted on: _____
Rotary X Cable _____ Rig _____
Total Depth (feet) 3600'
Fresh water depths (ft) N/A
Salt water depths (ft) N/A

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8	659.75	659.75	To Surface 170 Sks.
4 1/2	3561.1	3561.1	300 Sks.

OPEN FLOW DATA (Water Injection Well)

Producing formation Gordon Pay zone depth (ft) 3453' - 3503'
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock Pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY

Timothy P. Roush

By: Supervisor - Surveying/Mapping

Date: 3-3-93

Reviewed TMB
Recorded _____

TREATMENT

PERFORATED: Gordon w/ 16 Holes 3466' - 3474'
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 - 3230
Sand	3230 - 3238
Shale	3238 - 3244
Sand	3244 - 3248
Shale	3248 - 3442
Gordon	3442 - 3503
T.D.	3600'

DP - 911
OFT - 919

RECEIVED
MAY 19 1968

OFFICE OF OIL & GAS



Select County: (103) Wetzel (Check All)

Enter Permit #: 1516

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
- [WVGES Main](#)
- ["Pipeline-Plus"](#)

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	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_E
4710301516	12/14/1992	Dvtd Orgnl Loc	Completed	State of WV	L-15		CC Pennick	67696-00	Pennzoil Products Co et al	Pennzoil Products Company		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_AFT
4710301516	12/14/1992	11/8/1992	1386 Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service 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	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

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

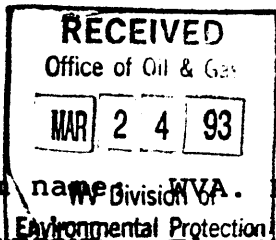
* There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

There is no Sample data for this well

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

4710301516



Well Operator's Report of Well Work

Farm name: WVA. PUBLIC LAND CORP. Operator Well No.: C.C.PENNICK-L15

LOCATION: Elevation: 1386.00 Quadrangle: CENTER POINT

District: GREEN County: WETZEL
Latitude: 7700 Feet South of 39 Deg. 30Min. 0 Sec.
Longitude 3900 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: RANDAL MICK
Permit Issued: 10/05/92
Well work Commenced: 11/8/92
Well work Completed: 12/14/92

Verbal Plugging _____
Permission granted on: _____
Rotary X Cable _____ Rig _____
Total Depth (feet) 3520'
Fresh water depths (ft) N/A

Salt water depths (ft) N/A

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8	661.20'	661.20'	To Surface 175 Sks.
4 1/2	3506.38	3506.38	300 Sks.

OPEN FLOW DATA (Water Injection Well)

Producing formation Gordon Pay zone depth (ft) 3365' - 343
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

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY
Timothy P. Roush
By: Supervisor - Surveying/Mapping
Date: 3-3-93

Recorded
Reviewed
TMB

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

DF - 411
DPT - 919

RECEIVED
NY Division of
Environmental Protection
MAR 18 93
Permitting
Office of Oil & Gas



Select County: (103) Wetzzel (Check All)

Enter Permit #: 1542

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

- [Table Descriptions](#)
- [County Code Translations](#)
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- [Disclaimer](#)
- [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	Wetzzel	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_NUM	CO_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 Products Co et al	Pennzoil Products Company		Gordon	
4710301542	-/-	Worked Over	Permitted	State of WV	L-17		Henry Nolan	24422-50	Pennzoil Products Co et al	Pennzoil Products Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	
4710301542	10/10/1993	-/-	925	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	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:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4710301542	10/10/1993	Water Flood	Injection	Deviated	2920	Gordon	2922	Gordon	0	0	0	0	0
4710301542	10/10/1993	Water Flood	Injection	Deviated	2925	Gordon	2936	Gordon	0	0	0	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
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

Stratigraphy Information:

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	Dvtd Orgnl 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

There is no Sample data for this well

4710301542

WF-35

10-May-93
API # 47-103-01542 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 LAND CORP. Operator Well No.: H, NOLAND ¹⁵⁴²L-17

LOCATION: Elevation: 925.00 Quadrangle: CENTER POINT

District: GREEN County: WETZEL
Latitude: 6100 Feet South of 39 Deg. 30Min. Sec.
Longitude 2300 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: RANDAL MICK
Permit Issued: 05/12/93
Well work Commenced: 9/8/93
Well work Completed: 10/10/93
Verbal Plugging
Permission granted on: _____
Rotary Cable _____ Rig
Total Depth (feet) 3017
Fresh water depths (ft) N/A
Salt water depths (ft) N/A

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8	189	189	100 Sk.
4 1/2	2990.77	2990.77	300 Sk.

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

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 2896 - 2960
 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
 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: [Signature]
Date: 12/6/93

WET 1542 S

4710301542

TREATMENT:

Perforated: 2920 - 2922 }
2925 - 2936 } 2 Holes Per Foot - 26 Holes

Treated: 300 Gal. 15% HCL Acid, 271 Bbl. Gelled Water &
1500# 80/100 Sand & 3500# 20/40 Sand

WELL LOG:

Sand & Shale	0 - 580
Sand	580 - 632
Sand & Shale	632 - 1390
Sand	1390 - 1520
Sand & Shale	1520 - 1705
Sand	1705 - 1730
Shale	1730 - 1812
Sand	1812 - 1852
Shale	1852 - 2030
Little Lime	2030 - 2046
Pencil Cave	2046 - 2060
Big Lime	2060 - 2150
Big Injun	2130 - 2308
Shale	2308 - 2896
Stray	2896 - 2902
Gordon	2902 - 2960
T.D.	3017

28/12/1



Select County: (103) Wetzzel (Check All)

Enter Permit #: 1543

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
- [WVGES Main](#)
- ["Pipeline-Plus"](#)

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	Wetzzel	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 al	Pennzoil Products Company			
4710301543	-/-	Worked Over	Cancelled	W V Public Land Corp		M-15	C C Pennick	15688-50	East Resources et al	East 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
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:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4710301543	10/1/1993	Horizon	Injection	Vertical	3143	Gordon Stray	3165	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
4710301543	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301543	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
4710301543	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301543	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
4710301543	Original Loc	Little Lime	Well Record	2280	Reasonable	15	Reasonable	1249	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
4710301543	Original Loc	Gordon	Well Record	3154	Reasonable	22	Reasonable	1249	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 Protection
Section of Oil and Gas

4710301543

Well Operator's Report of Well Work

Farm name: WVA. PUBLIC LAND CORP. Operator Well No.: C.C.PENNICK M15

LOCATION: Elevation: 1,249.00 Quadrangle: CENTER POINT

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

Agent: JAMES A. CREWS

Inspector: RANDAL MICK
Permit Issued: 05/12/93
Well work Commenced: 8/9/93
Well work Completed: 10/1/93
Verbal Plugging _____
Permission granted on: _____
Rotary Cable _____ Rig
Total Depth (feet) 3264
Fresh water depths (ft) N/A
Salt water depths (ft) N/A
Is coal being mined in area (Y/N)? N
Coal Depths (ft): _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8	526	526	170 Sks.
4 1/2	3221.70	3221.70	300 Sks.

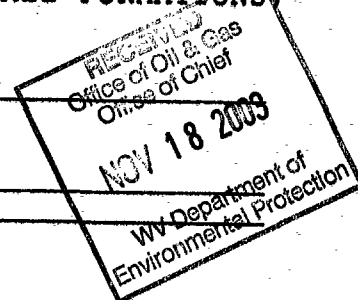
OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 3144 - 3176
 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
 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: [Signature]
Date: 12/6/93



TREATMENT:

Perforated: 3143 - 3165 2 Holes Per Foot - 44 Holes

Treated: 300 Gal. 15% HCL Acid, 296 Bbl. Gelled Water &
1500# 80/100 Sand & 3400# 20/40 Sand

WELL LOG:

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
T.D.	3264



Select County: (103) Wetzel (Check All)

Enter Permit #: 1544

Get Data Reset

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
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- [Disclaimer](#)
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- ["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_NUM	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 Enrgy LLC 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	NEW_FTG	KOD	G_BEF	G_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:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4710301544	10/16/1993	Horizon	Injection	Vertical	2893	Gordon	2896	Gordon	0	0	0	0	0
4710301544	10/16/1993	Horizon	Injection	Vertical	2900	Gordon	2910	Gordon	0	0	0	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
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:

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

There is no Sample data for this well

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

10-may-93
 API # 47-103-01544 S

4710301544

Well Operator's Report of Well Work

Farm name: WVA. PUBLIC LAND CORP. Operator Well No.: H. NOLAND M-17

LOCATION: Elevation: 1,000.00 Quadrangle: CENTER POINT

District: GREEN County: WETZEL
 Latitude: 6250 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

Agent: JAMES A. CREWS

Inspector: RANDAL MICK
 Permit Issued: 05/12/93
 Well work Commenced: 9/14/93
 Well work Completed: 10/16/93
 Verbal Plugging _____
 Permission granted on: _____
 Rotary X Cable _____ Rig
 Total Depth (feet) 3050
 Fresh water depths (ft) N/A
 Salt water depths (ft) N/A

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8	256	256	100 Sk.
4 1/2	2979.00	2979.00	300 Sk.

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

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 2868 - 2930
 Gas: Initial open flow * _____ MCF/d Oil: Initial open flow * _____ Bbl/d
 Final open flow * _____ MCF/d Final open flow * _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static Rock Pressure _____ psig (surface pressure) after _____ Hours
 * Water Injection Well _____
 Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static Rock Pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY

By: [Signature]
 Date: 12/6/93

RECEIVED
 Office of Oil and Gas
 WV Department of Environmental Protection
 SEP 23 2013
 WV Department of Environmental Protection

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	2873 - 2930

T.D. 3050

Received

SEP 23 2013

Office of Oil and Gas
 WV Dept. of Environmental Protection



Select County: (103) Wetzzel (Check All)

Enter Permit #: 1545

Get Data Reset

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

- [Table Descriptions](#)
- [County Code Translations](#)
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- ["Pipeline-Plus"](#)

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	Wetzzel	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_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_P
4710301545	10/16/1993	Original Loc	Completed	State of WV	J-17		J J Reilly	57098-00	Pennzoil Products Co et al	Pennzoil Products Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AI
4710301545	10/16/1993	9/30/1993	927	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2962		2962			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
4710301545	10/16/1993	Horizon	Injection	Vertical	2821	Gordon	2825	Gordon	0	0	0	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
4710301545	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301545	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
4710301545	Pennzoil Products Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301545	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
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 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 Protection
Section of Oil and Gas

4710301545

Well Operator's Report of Well Work

DEC 07 1993

Farm name: WVA PUBLIC LANDS CO

Operator Well No.: J.T.REILLY J-17

LOCATION: Elevation: 927' Quadrangle: CENTER POINT

District: GREEN County: WETZEL
Latitude: 6100 Feet South of 39 Deg. 30Min. 00 Sec.
Longitude 4550 Feet West of 80 Deg. 40 Min. 00 Sec.

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: 9/30/93
Well work Completed: 10/16/93

Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 2962
Fresh water depths (ft) N/A

Salt water depths (ft) N/A

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8	216	216	125 Sks.
4 1/2	2855.00	2855.00	300 Sks.

OPEN FLOW DATA

2820 - 2830

Producing formation Gordon 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

* Water Injection Well
Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY

By: [Signature]
Date: 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	0 - 522
Sand	522 - 546
Shale	546 - 562
Sand	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-411

DF-419



Select County: (103) Wetzels (Check All)

Enter Permit #: 1625

Get Data Reset

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
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- [Disclaimer](#)
- [WVGES Main](#)
- ["Pipeline-Plus"](#)

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	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4710301625	Wetzels	1625	Green	Center Point	Centerpoint	39.47079	-80.664486	528859.3	4369076.4

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_ES
4710301625	9/16/1994	Original Loc	Completed	State of WV	P-12		EB Lemasters	47254-00	Pennzoil Products Co et al	Pennzoil Products Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AF
4710301625	9/16/1994	7/27/1994	1040	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3059		3059			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
4710301625	9/16/1994	Horizon	Injection	Vertical	2946	Gordon	2958	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
4710301625	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
4710301625	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
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

There is no Sample data for this well

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

4710301625

Well Operator's Report of Well Work

Farm name: WVA. PUBLIC LANDS Operator Well No.: E.LEMASTERS P12

LOCATION: Elevation: 1,040.00 Quadrangle: CENTER POINT

District: GREEN County: WETZEL
Latitude: 10600 Feet South of 39 Deg. 30Min. Sec.
Longitude 11100 Feet West of 80 Deg. 37 Min. 30 Sec.

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

Agent: JAMES A. CREWS

Inspector: RANDAL MICK
Permit Issued: 05/12/94
Well work Commenced: 07/27/94
Well work Completed: 09/16/94
Verbal Plugging _____
Permission granted on: _____
Rotary X Cable _____ Rig _____
Total Depth (feet) 3059
Fresh water depths (ft) N/A
Salt water depths (ft) N/A
Is coal being mined in area (Y/N)? N
Coal Depths (ft): N/A

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			To surface
8-5/8	308	308	50 sks.
4-1/2	3019.45	3019.45	300 sks.

OPEN FLOW DATA * Water Injection Well

Producing formation Gordon Pay zone depth (ft) 2938-2968
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock Pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY

By: [Signature]
Date: 7/4/95

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 (Check All)

Enter Permit #: 1626

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
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- [Disclaimer](#)
- [WVGES Main](#)
- ["Pipeline-Plus"](#)

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	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_E
4710301626	9/16/1994	Original Loc	Completed	State of WV	P-14		Mary Lemasters	57097-00	Pennzoil Products Co et al	Pennzoil Products Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AF
4710301626	9/16/1994	8/16/1994	1038	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3089		3089			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
4710301626	9/16/1994	Horizon	Injection	Vertical	2956	Gordon	2966	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
4710301626	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
4710301626	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
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

There is no Sample data for this well

4710301626

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

LOCATION: Elevation: 1,038.00 Quadrangle: CENTER POINT

District: GREEN County: WETZEL
Latitude: 8550 Feet South of 39 Deg. 30Min. Sec.
Longitude 10600 Feet West of 80 Deg. 37 Min. 30 Sec.Company: PENNZOIL PRODUCTS COMPANY
P. O. BOX 5519
VIENNA, WV 26105-5519

Agent: JAMES A. CREWS

Inspector: RANDAL MICK
Permit Issued: 05/12/94
Well work Commenced: 08/16/94
Well work Completed: 09/16/94Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 3089
Fresh water depths (ft) N/ASalt water depths (ft) N/AIs coal being mined in area (Y/N)? N
Coal Depths (ft): N/A

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size 8-5/8	308	308	To surface 150 sks.
4-1/2	3023	3023	300 sks.

OPEN FLOW DATA

* Water Injection Well

Producing formation Gordon Pay zone depth (ft) 2941-2982
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 _____ HoursSecond producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY

By: [Signature]Date: 1/4/95

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 County: (103) Wetzsel (Check All)

Enter Permit #: 1627

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
- [WVGES Main](#)
- ["Pipeline-Plus"](#)

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	Wetzsel	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	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	N-17		T W Reilly		East Resources Inc et al	Pennzoil Products Company	3070	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
4710301627	10/20/1994	8/21/1994	991	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3070			3070		0
4710301627	-/-	-/-	991	Ground Level														
4710301627	-/-	-/-	991	Ground Level				unclassified	unclassified	not available	unknown	unknown						

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_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. 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
4710301627	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
4710301627	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
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 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 Protection
Section of Oil and Gas

4710301627

Well Operator's Report of Well Work

Farm name: WVA. PUBLIC LANDS Operator Well No.: TOM REILLY N-17

LOCATION: Elevation: 991.00 Quadrangle: CENTER POINT

District: GREEN County: WETZEL
Latitude: 5700 Feet South of 39 Deg. 30Min. Sec.
Longitude: 400 Feet West of 80 Deg. 40 Min. Sec.

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

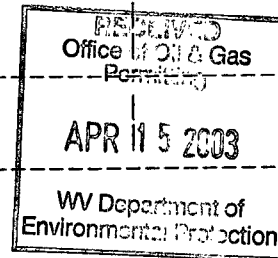
Agent: JAMES A. CREWS

Inspector: RANDAL MICK
Permit Issued: 05/12/94
Well work Commenced: 08/21/94
Well work Completed: 10/20/94
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 3070
Fresh water depths (ft) N/A

Salt water depths (ft) N/A

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

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			To surface
8-5/8	266	266	50 sks.
4-1/2	2993	2993	300 sks.



OPEN FLOW DATA * Water Injection Well

Producing formation Gordon Pay zone depth (ft) 2884-2933
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

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY

By: [Signature]
Date: 1/4/95

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) Wetzsel (Check All)

Enter Permit #: 1628

Get Data Reset

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
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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	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4710301628	Wetzsel	1628	Green	Center Point	Centerpoint	39.485001	-80.663558	528933.2	4370653.9

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_F
4710301628	10/20/1994	Original Loc	Completed	State of WV	P-17-B		TW Reilly	57094-00	Pennzoil Products Co et al	Pennzoil Products Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AI
4710301628	10/20/1994	8/26/1994	1030	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3055		3055			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
4710301628	10/20/1994	Horizon	Injection	Vertical	2954	Gordon	2962	Gordon	0	0	0	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
4710301628	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
4710301628	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
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

There is no Sample 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 Operator Well No.: TOM REILLY P17B

LOCATION: Elevation: 1,030.00 Quadrangle: CENTER POINT

District: GREEN County: WETZEL
Latitude: 5500 Feet South of 39 Deg. 30Min. Sec.
Longitude 10900 Feet West of 80 Deg. 37 Min. 30 Sec.

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

Agent: JAMES A. CREWS

Inspector: RANDAL MICK
Permit Issued: 05/12/94
Well work Commenced: 08/26/94
Well work Completed: 10/20/94

Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 3055
Fresh water depths (ft) N/A

Salt water depths (ft) N/A

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

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size 8-5/8	308	308	To surface 110 sks.
4-1/2	2996.9	2996.9	300 sks.

OPEN FLOW DATA

* Water Injection Well

Producing formation Gordon Pay zone depth (ft) 2910-2974
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

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY

By: [Signature]
Date: 1/4/95

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'
Sand	1450'-1494'
Sand & Shale	1494'-1761'
Sand	1761'-1808'
Sand & Shale	1808'-2073'
Little Lime	2073'-2084'
Shale	2084'-2116'
Big Lime	2116'-2184'
Shale	2184'-2202'
Big Injun	2202'-2334'
Shale	2334'-2910'
Gordon	2910'-2974'
T.D.	3055'



Select County: (103) Wetzel (Check All)

Enter Permit #: 1632

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
- [WVGES Main](#)
- [Pipeline-Plus](#)

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:

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
4710301632	9/23/1994	8/24/1994	1445	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3492		3492		0	0
4710301632	6/12/2008	6/12/2008	1445	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acidized	3492		0			
4710301632	11/21/2013	11/21/2013	1445	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Fractured	3492		0			
4710301632	-/-	-/-	1445	Ground Level				unclassified	unclassified	not available	unknown	Fractured						
4710301632	-/-	-/-	1445	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
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					

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
4710301632	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
4710301632	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
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

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

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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

API 47 - 103 - 1632 County WETZEL District GREEN
Quad CENTERPOINT 7.5' Pad Name G.V. REILLY Field/Pool Name STRINGTOWN
Farm name WV PUBLIC LANDS Well Number N-19
Operator (as registered with the OOG) H.G. ENERGY LLC
Address 5260 DuPONT ROAD City PARKERSBURG State WV Zip 26101

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,371,259 M Easting 528,313 M
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing _____ Easting _____

Elevation (ft) 1,445' GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s)
N/A

Date permit issued 10/25/13 Date drilling commenced N/A Date drilling ceased N/A
Date completion activities began 11/21/13 Date completion activities ceased 11/21/13
Verbal plugging (Y/N) N Date permission granted _____ Granted by _____

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug.

Freshwater depth(s) ft None Open mine(s) (Y/N) depths N
Salt water depth(s) ft None Void(s) encountered (Y/N) depths N
Coal depth(s) ft None Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

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Office of Oil & Gas
DEC 27 2013
WV Department of
Environmental Protection

Reviewed by: _____

WR-35
Rev. 8/23/13

API 47- 103 - 1632 Farm name WV PUBLIC LANDS Well number N-19

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor							
Surface		8 5/8"	706'	Existing			Existing
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production		4 1/2"	3395.9'	Existing			Existing
Tubing							
Packer type and depth set							

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor							
Surface	Existing	295					
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	Existing	300					
Tubing							

Drillers TD (ft) 3492' Loggers TD (ft) 3386'
 Deepest formation penetrated Gordon Plug back to (ft) N/A
 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

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____
Existing

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

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.: G.V.REILLY N-19

LOCATION: Elevation: 1,445.00 Quadrangle: CENTER POINT

District: GREEN County: WETZEL
Latitude: 3500 Feet South of 39 Deg. 30Min. Sec.
Longitude 1200 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: RANDAL MICK
Permit Issued: 05/25/94
Well work Commenced: 08/24/94
Well work Completed: 09/23/94

Verbal Plugging
Permission granted on: _____
Rotary Cable _____ Rig
Total Depth (feet) 3492
Fresh water depths (ft) N/A

Salt water depths (ft) N/A

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft. To surface
8-5/8	706	706	50 sks.
4-1/2	3395.9	3395.9	300 sks.

OPEN FLOW DATA

* Water Injection Well

Producing formation Gordon Pay zone depth (ft) 3316-3358
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

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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

RECEIVED
Office of Oil and Gas

SEP 23 2013

For: PENNZOIL PRODUCTS COMPANY
By: [Signature] WV Department of Environmental Protection
Date: 1/4/95

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 & Shale	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

SEP 23 2013

Office of Oil and Gas
WV Dept. of Environmental Protection



Select County: (103) Wetzsel (Check All)

Enter Permit #: 1633

Get Data Reset

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
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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	Wetzsel	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	0-19		M J Reilly	15543-128	Pennzoil Products Co et al	Pennzoil Products Company			
4710301633	6/12/2008	Worked Over	Completed	WV Public Lands	0-19		M J Reilly		East Resources Inc	East Resources, Inc.	3656	Gordon	
4710301633	11/21/2013	Worked Over	Completed	WV Public Lands	0-19		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	KOD	G_BEF	G_A
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 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
4710301633	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
4710301633	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
4710301633	Dvtd Orgnl Loc	Gordon Stray	Well Record	3472	Reasonable	22	Reasonable	1438	Ground Level
4710301633	Dvtd Orgnl 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

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 47-103-1633 County WETZEL District GREEN Quad CENTERPOINT 7.5' Pad Name M.J. REILLY Field/Pool Name STRINGTOWN Farm name WV PUBLIC LANDS Well Number O-19 Operator (as registered with the OOG) H.G. ENERGY LLC Address 5260 DuPONT ROAD City PARKERSBURG State WV Zip 26101

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey Top hole Northing 4,371,215 M Easting 528,331 M Landing Point of Curve Northing Bottom Hole Northing Easting

Elevation (ft) 1,438' GL Type of Well [X] Existing Type of Report [X] Final Permit Type [X] Deviated [] Horizontal [] Horizontal 6A [X] Vertical Depth Type [] Deep [X] Shallow Type of Operation [] Convert [] Deepen [] Drill [] Plug Back [] Redrilling [] Rework [X] Stimulate Well Type [] Brine Disposal [] CBM [] Gas [] Oil [X] Secondary Recovery [] Solution Mining [] Storage [] Other Type of Completion [X] Single [] Multiple Fluids Produced [] Brine [] Gas [] NGL [X] Oil [] Other Drilled with [] Cable [X] Rotary

Drilling Media Surface hole [X] Air [] Mud [X] Fresh Water Intermediate hole [X] Air [] Mud [X] Fresh Water [] Brine Production hole [X] Air [] Mud [X] Fresh Water [] Brine Mud Type(s) and Additive(s) N/A

Date permit issued 10/25/13 Date drilling commenced N/A Date drilling ceased N/A Date completion activities began 11/21/13 Date completion activities ceased 11/21/13 Verbal plugging (Y/N) N Date permission granted Granted by

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug. Freshwater depth(s) ft None Open mine(s) (Y/N) depths Void(s) encountered (Y/N) depths Coal depth(s) ft None Cavern(s) encountered (Y/N) depths Is coal being mined in area (Y/N) N

RECEIVED Office of Oil & Gas DEC 27 2013 WV Department of Environmental Protection

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API 47- 103 - 1633 Farm name WV PUBLIC LANDS Well number O-19

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor							
Surface		8 5/8"	710.85'	Existing			Existing
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production		4 1/2"	3566'	Existing			Existing
Tubing							
Packer type and depth set							

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor							
Surface	Existing	290					
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	Existing	300					
Tubing							

Drillers TD (ft) 3656' Loggers TD (ft) 3641'

Deepest formation penetrated Gordon Plug back to (ft) N/A

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

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____

Existing _____

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

WR-35
Rev. 8/23/13

API 47- 103 - 1633 Farm name WV PUBLIC LANDS Well number O-19

PRODUCING FORMATION(S)	DEPTHS	
Gordon	TVD	3494'-3534' MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface _____ psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas _____ mcfpd Oil _____ bpd NGL _____ bpd Water _____ bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	0		0		See original Well Record

Please insert additional pages as applicable.

Drilling Contractor _____
Address _____ City _____ State _____ Zip _____

Logging Company _____
Address _____ City _____ State _____ Zip _____

Cementing Company _____
Address _____ City _____ State _____ Zip _____

Stimulating Company Producers Service Corp.
Address 109 South Graham Street City Zanesville State OH Zip 43701

Please insert additional pages as applicable.

Completed by Roger Feldman Telephone 420-1107
Signature [Signature] Title Operations Mgr Date 11/26/13

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 LANDS Operator Well No.: M.J.REILLY 0-19

LOCATION: Elevation: 1,438.00 Quadrangle: CENTER POINT

District: GREEN County: WETZEL
Latitude: 3550 Feet South of 39 Deg. 30Min. Sec.
Longitude 1150 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: RANDAL MICK
Permit Issued: 05/25/94
Well work Commenced: 08/28/94
Well work Completed: 09/23/94
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 3656
Fresh water depths (ft) N/A
Salt water depths (ft) N/A

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

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			To surface
8-5/8	710.85	710.85	290 sks.
4-1/2	3566'	3566'	300 sks.

OPEN FLOW DATA * Water Injection Well

Producing formation Gordon Pay zone depth (ft) 3494-3534
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

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY

By: [Signature]
Date: 1/4/95

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'
Sand	1078'-1130'
Sand & Shale	1130'-1249'
Sand	1249'-1262'
Shale	1262'-1361'
Sand	1361'-1377'
Sand & Shale	1377'-1451'
Sand	1451'-1462'
Shale	1462'-1590'
Sand & Shale	1590'-2266'
Sand	2266'-2288'
Shale	2288'-2583'
Sand	2583'-2599'
Shale	2599'-2710'
Sand	2710'-2876'
Shale	2876'-3472'
Stray	3472'-3494'
Gordon	3494'-3534'
T.D.	3656'



Select County: (103) Wetzzel (Check All)

Enter Permit #: 1634

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
- [WVGES Main](#)
- ["Pipeline-Plus"](#)

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](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4710301634	Wetzzel	1634	Green	Center Point	Centerpoint	39.479635	-80.664304	528871.3	4370058.2

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
4710301634	9/23/1994	Original Loc	Completed	State of WV	0-15		CC Pennick	15773-60	Pennzoil Products 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	G_BEF	G_AF
4710301634	9/23/1994	8/4/1994	1458	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3479		3479			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
4710301634	9/23/1994	Horizon	Injection	Vertical	3374	Gordon	3384	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
4710301634	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
4710301634	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
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

There is no Sample data for this well

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

4710301634

Well Operator's Report of Well Work

Farm name: WVA. PUBLIC LANDS Operator Well No.: C.PENNICK 0-15

LOCATION: Elevation: 1,458.00 Quadrangle: CENTER POINT

District: GREEN County: WETZEL
Latitude: 7400 Feet South of 39 Deg. 30Min. Sec.
Longitude 11100 Feet West of 80 Deg. 37 Min. 30 Sec.

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

Agent: JAMES A. CREWS

Inspector: RANDAL MICK
Permit Issued: 05/25/94
Well work Commenced: 08/04/94
Well work Completed: 09/23/94

Verbal Plugging
Permission granted on: _____

Rotary X Cable _____ Rig _____
Total Depth (feet) 3479
Fresh water depths (ft) N/A

Salt water depths (ft) N/A

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

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size 8-5/8	705.10	705.10	To surface 225 sks.
4-1/2	3452.2	3452.2	300 sks.

OPEN FLOW DATA * Water Injection Well

Producing formation Gordon Pay zone depth (ft) 3352-3396
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

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY

By: [Signature]
Date: 1/4/95

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 Injun	2526'-2764'
Shale	2764'-3334'
Stray	3334'-3337'
Shale	3337'-3352'
Gordon	3352'-3396'
T.D.	3479'



Select County: (103) Wetzsel (Check All)

Enter Permit #: 1635

Get Data Reset

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
- [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](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4710301635	Wetzsel	1635	Green	Center Point	Centerpoint	39.486596	-80.658319	529383.1	4370832.6

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_E
4710301635	9/23/1994	Dvtd Orgnl Loc	Completed	State of WV	Q-17		HM Jamison	47256-00	Pennzoil Products Co et al	Pennzoil Products Company		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_AFT	
4710301635	9/23/1994	8/11/1994	1477	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac		3804		3804		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
4710301635	9/23/1994	Water Flood	Injection	Deviated	3666	Gordon	3676	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
4710301635	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
4710301635	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
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	Dvtd Orgnl 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

There is no Sample data for this well

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

4710301635

Well Operator's Report of Well Work

Farm name: WVA. PUBLIC LANDS Operator Well No.: H.M.JAMISON Q17

LOCATION: Elevation: 1,477.00 Quadrangle: CENTER POINT

District: GREEN County: WETZEL
Latitude: 4950 Feet South of 39 Deg. 30Min. Sec.
Longitude 9400 Feet West of 80 Deg. 37 Min. 30 Sec.

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

Agent: JAMES A. CREWS

Inspector: RANDAL MICK
Permit Issued: 06/01/94
Well work Commenced: 08/11/94
Well work Completed: 09/23/94
Verbal Plugging
Permission granted on:
Rotary X Cable _____ Rig
Total Depth (feet) 3804'
Fresh water depths (ft) N/A
Salt water depths (ft) N/A

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

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size 8-5/8	750	750	To surface 310 sks.
4-1/2	3753	3753	300 sks.

OPEN FLOW DATA * Water Injection Well

Producing formation Gordon Pay zone depth (ft) 3648-3692
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock Pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY

By: [Signature]
Date: 1/4/95

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) Wetzsel (Check All)

Enter Permit #: 1641

Get Data Reset

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
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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	Wetzsel	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	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PI
4710301641	12/8/1994	Original Loc	Completed	John Eves	G-22		Isaac B Wiley	47251-00	Pennzoil Products et al	Pennzoil Products Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	
4710301641	12/8/1994	10/30/1994	851	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2849		2849			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
4710301641	12/8/1994	Horizon	Injection	Vertical	2708	Gordon	2714	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
4710301641	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
4710301641	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
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 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 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
Latitude: 1250 Feet South of 39 Deg. 30Min. 0 Sec.
Longitude 9150 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: RANDAL MICK
Permit Issued: 10/04/94
Well work Commenced: 10/30/94
Well work Completed: 12/08/94

Verbal Plugging
Permission granted on: _____

Rotary Cable _____ Rig

Total Depth (feet) 2849

Fresh water depths (ft) N/A

Salt water depths (ft) N/A

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

Coal Depths (ft): N/A

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft. To surface
8-5/8	263	263	50 sks.
4-1/2	2931.15'	2931.15'	300 sks.

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

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

For: PENNZOIL PRODUCTS COMPANY

By: [Signature]
Date: 1/4/95

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'
Shale	1188'-1212'
Sand	1212'-1232'
Sand & Shale	1232'-1448'
Sand	1448'-1476'
Sand & Shale	1476'-1636'
Sand	1636'-1675'
Shale	1675'-1805'
Little Lime	1805'-1818'
Pencil Cave	1818'-1830'
Big Lime	1830'-1998'
Big Injun	1998'-2094'
Shale	2094'-2674'
Stray	2674'-2692'
Gordon	2703'-2732'
T.D.	2849'



Select County: (103) Wetzzel (Check All)

Enter Permit #: 1642

Get Data Reset

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
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- ["Pipeline-Plus"](#)

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](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4710301642	Wetzzel	1642	Green	Pine Grove	Littleton	39.500709	-80.698871	525890.5	4372386.5

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_1
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			
4710301642	3/10/2003	Worked Over	Completed	Rickey/K Fluharty		G-23	S H Wiley		East Resources	East 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
4710301642	3/10/2003	3/6/2003	831	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2798			2798		0
4710301642	3/10/2003	3/6/2003	831	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2798			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
4710301642	3/10/2003	Horizon	Injection	Vertical	2694	Gordon	2696	Gordon					
4710301642	12/8/1994	Horizon	Injection	Vertical	2694	Gordon	2698	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
4710301642	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
4710301642	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
4710301642	Original Loc	Little Lime	Well Record	1786	Reasonable	14	Reasonable	831	Ground Level
4710301642	Original Loc	Pencil Cave	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

There is no Sample data for this well

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

4710301642

bub

Well Operator's Report of Well Work

Farm name: FLUHARTY, RICKEY
LOCATION: Elevation: 831.00
District: GREEN
Latitude: 14,850 Feet south of
Longitude: 9,150 Feet west of

Operator Well No.: S. H WILEY
Quadrangle: PINEGROVE
County: WETZEL
39 Deg 30 Min 0 Sec.
80 Deg 40 Min 30 Sec.

G-23 RECEIVED
Office of Oil & Gas
Permitting
MAR 14 2003
WV Department of
Environmental Protection

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: MICHAEL MCCOWN
Inspector: MIKE UNDERWOOD
Permit Issued: 02/07/03
Well work Commenced: 03/06/03
Well work Completed: 03/10/03
Verbal plugging permission granted on:
Rotary X Cable Rig
Total Depth (feet) 2,798
Fresh water depths (ft) NA
Salt water depths (ft) NA
Is coal being mined in area (Y/N) NA
Coal Depths (ft):

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	264.00	264.00	100 sks
4 1/2"	2760.00'	2760.00'	300 sks

OPEN FLOW DATA

* Waterflood injection well

Producing formation Gordon Pay zone depth (ft) 2690-2713

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

Second producing formation Pay zone depth (ft)

Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d
 Final open flow MCF/d Final open flow Bbl/d
 Time of open flow between initial and final tests Hours

Static rock pressure psig (surface pressure) after Hours

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

For: EAST RESOURCES, INC.
By: [Signature]
Date: 3/11/03

WET 1642

4710301642

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.H. WILEY#G-23

LOCATION: Elevation: 831.00 Quadrangle: PINE GROVE

District: GREEN County: WETZEL
Latitude: 14850 Feet South of 39 Deg. 30Min. 0 Sec.
Longitude 9150 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: RANDAL MICK
Permit Issued: 10/04/94
Well work Commenced: 11/04/94
Well work Completed: 12/08/94

Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 2798
Fresh water depths (ft) N/A

Salt water depths (ft) N/A

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

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size 8-5/8	264	264	To surface 100 sks.
4-1/2	2760	2760	300 sks.

OPEN FLOW DATA * Water Injection Well

Producing formation Gordon Pay zone depth (ft) 2690-2713
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

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY

By: [Signature]
Date: 1/4/95

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'



Select County: (103) Wetzel (Check All)

Enter Permit #: 1643

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
- [WVGES Main](#)
- ["Pipeline-Plus"](#)

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_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_F
4710301643	12/8/1994	Original Loc	Completed	State of WV	G-20		Irene Reilly	15634-50	Pennzoil Products Co et al	Pennzoil Products Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AF
4710301643	12/8/1994	-/-	885	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2923		2923			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
4710301643	12/8/1994	Horizon	Injection	Vertical	2740	Gordon	2748	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
4710301643	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
4710301643	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
4710301643	Original Loc	Big Injun (Price&eq)	Well Record	2066	Reasonable	70	Reasonable	885	Ground Level
4710301643	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
- There is no Sample data for this well

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

4710301643

Well Operator's Report of Well Work

Farm name: DEPT. NATURAL RESOURCES Operator Well No.: I. REILLY G-20

LOCATION: Elevation: 885.00 Quadrangle: CENTER POINT

District: GREEN County: WETZEL
Latitude: 2950 Feet South of 39 Deg. 30Min. 0 Sec.
Longitude 9000 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: RANDAL MICK
Permit Issued: 10/04/94
Well work Commenced: 12/08/94
Well work Completed: _____
Verbal Plugging _____
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 2923
Fresh water depths (ft) N/A
Salt water depths (ft) N/A

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			To surface
8-5/8	220	220	60 sks.
4-1/2	2858.95	2858.95	300 sks.

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) 2726-2768
 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

Second producing formation Pay zone depth (ft)
 Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d
 Final open flow MCF/d Final open flow Bbl/d
 Time of open flow between initial and final tests Hours
 Static rock Pressure psig (surface pressure) after Hours

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

For: PENNZOIL PRODUCTS COMPANY

By: [Signature]
Date: 1/4/95

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'



Select County: (103) Wetzsel (Check All)

Enter Permit #: 1645

Get Data Reset

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
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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	Wetzsel	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_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_
4710301645	12/16/1994	Horizon	Original Loc	Completed	State of WV	I-20	Irene Reilly	15634-50	Pennzoil Products Co et al	Pennzoil Products Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_A
4710301645	12/16/1994	11/18/1994	1476	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3427		3427			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
4710301645	12/16/1994	Horizon	Injection	Vertical	3342	Gordon	3350	Gordon	0		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
4710301645	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
4710301645	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
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

There is no Sample 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: DEPT. NATURAL RESOURCES Operator Well No.: I. REILLY I-20

LOCATION: Elevation: 1,476.00 Quadrangle: CENTER POINT

District: GREEN County: WETZEL
Latitude: 2550 Feet South of 39 Deg. 30Min. 0 Sec.
Longitude 6950 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: RANDAL MICK
Permit Issued: 11/16/94
Well work Commenced: 11/18/94
Well work Completed: 12/16/94
Verbal Plugging _____
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 3427
Fresh water depths (ft) N/A
Salt water depths (ft) N/A

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft. To surface
8-5/8	748'	748'	295 sks.
4 1/2	3422.9	3422.9	300 sks.

OPEN FLOW DATA * Water Injection Well

Producing formation Gordon Pay zone depth (ft) 3333-3375
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock Pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY
 By: [Signature]
 Date: 1/4/95

TREATMENT

Perforated with 16 holes 3342'-3350'. Treated with 300 gallons ^{15%}HCL acid,
285 barrels gelled water and 7,000 lbs. of 20/40 sand.

WELL LOG

Sand & Shale	-	0	-	1242'
Sand	-	1242'	-	1248'
Sand & Shale	-	1248'	-	1778'
Sand	-	1778'	-	1840'
Sand & Shale	-	1840'	-	1876'
Sand	-	1876'	-	1930'
Shale	-	1930'	-	2068'
Sand	-	2068'	-	2095'
Shale	-	2095'	-	2270'
Sand	-	2270'	-	2330'
Sand & Shale	-	2330'	-	2565'
Sand ^{10/40}	-	2565'	-	2608'
Sand & Shale	-	2608'	-	2726'
Shale	-	2726'	-	3308'
Stray	-	3308'	-	3324'
Gordon	-	3333'	-	3375'
T.D.	-	3427'		



Select County: (103) Wetzzel (Check All)

Enter Permit #: 1657

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
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- ["Pipeline-Plus"](#)

WV Geological & Economic Survey:

Well: County = 103 Permit = 1657 [Link to all digital records for well](#)

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	UTME	UTMN
4710301657	Wetzell	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_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	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:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4710301657	11/13/1995	Water Flood	Injection	Vertical	3290	Gordon	3298	Gordon					
4710301657	3/6/2004	Water Flood	Injection	Vertical	3290	Gordon	3298	Gordon					
4710301657	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_QUALITY	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	Qstnble 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

There is no Sample data for this well

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

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Well Operator's Report of Well Work

Farm name: W V PUBLIC LAND CORP.
LOCATION: Elevation: 1,416.00
District: MCELROY
Latitude: 9,350 Feet south of
Longitude: 9,450 Feet west of

Operator Well No.: FLUHARTY E-14
Quadrangle: CENTERPOINT 7.5'

County: TYLER
39 Deg 30 Min 30 Sec.
80 Deg 40 Min 00 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: MIKE UNDERWOOD
Permit Issued: 08/25/04
Well work Commenced: 09/07/04
Well work Completed: 09/10/04

Verbal plugging permission granted on:
Rotary X Cable _____ Rig
Total Depth (feet) 3415
Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	670.00'	670.00'	200 sks
4 1/2"	3349.00'	3349.00'	170 sks

OPEN FLOW DATA

* WATER INJECTION WELL

Producing formation Gordon Pay zone depth (ft) 3258-3320
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure _____ psig (surface pressure) _____ after _____ Hours

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

For: EAST RESOURCES, INC.

By: _____

Date: 11/10/04

RECEIVED
Office of Oil & Gas
Office of Chief
NOV 09 2004
WV Department of
Environmental Protection

4710301657

Treatment : cut 3 horisontal laterals 46'-111' deep at 3295'

Well Log : SEE ORIGINAL WELL RECORD

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

Well Operator's Report of Well Work

Farm name: DREW, VIRGINIA FLUHARTY

Operator Well No.: WM FLUHARTY E-14

LOCATION: Elevation: 1,416

Quadrangle: CENTERPOINT

District: GREEN

County: WETZEL

Latitude: 9,350 Feet south of 39 Deg 30 Min 0 Sec.

Longitude: 9,450 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 MICK

Permit Issued: 3/27/95

Well work Commenced: 7/10/95

Well work Completed: 11/13/95

Verbal plugging permission granted on: _____

Rotary Cable _____ Rig _____

Total Depth (feet) 3,415

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): NA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8	670'	670'	200 SKS
4 1/2"	3349'	3349'	170 SKS

RECEIVED
Office of Oil & Gas
Office of Chief
AUG 09 2004
WV Department of
Environmental Protection
3258-3324

OPEN FLOW DATA

*Waterflood Injection Well

Producing formation GORDON 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

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

Office of Oil & Gas
Office of Chief
AUG 18 2003
WV Department of
Environmental Protection

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: _____

4710301657

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'		



Select County: (103) Wetzel (Check All)

Enter Permit #: 1659

Get Data Reset

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

- [Table Descriptions](#)
- [County Code Translations](#)
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- [Disclaimer](#)
- [WVGES Main](#)
- ["Pipeline-Plus"](#)

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](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4710301659	Wetzel	1659	Green	Pine Grove	Littleton	39.505495	-80.697563	526001.3	4372918

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
4710301659	9/12/1996	Original Loc	Completed	Carl E & Betty Fluharty	F-25		Anderson Wiley	FEE-3318-00	Pennzoil Products Co et al	Pennzoil Products Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AF
4710301659	9/12/1996	6/14/1996	814	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2807		2807			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
4710301659	9/12/1996	Horizon	Injection	Vertical	2656	Gordon	2662	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
4710301659	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
4710301659	Pennzoil Products Company	1997	0	0	0	0	0	0	0	0	0	0	0	0	0

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

There is no Production Water data for this well

Stratigraphy Information:

API	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

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

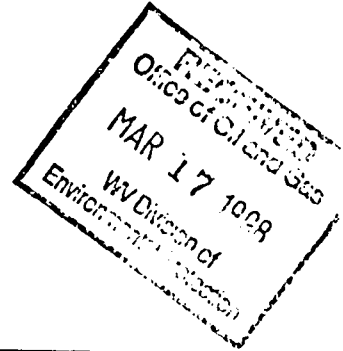
There is no Sample data for this well

4710301659

WR-35

11-Apr-95
API # 47 -103- 1659

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work



Farm name: Fluharty, Carl & Betty Operator Well No.: A. Wiley #F-25

LOCATION: Elevation: 814.00 Quadrangle: Pine Grove

District: Green County: Wetzel
Latitude: 13,100 Feet south of 39 Deg 32 Min 30 Sec.
Longitude: 8,750 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 Mick

Permit Issued: 4/11/95

Well work Commenced: 6/14/96

Well work Completed: 9/12/96

Verbal plugging

permission granted on:

Rotary Cable Rig

Total Depth (feet) 2807'

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): 562-568

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11'	30'	30'	
8-5/8"	219'	219'	175 Sacks
4 1/2"	2744.15'	2744.15'	275 Sacks

OPEN FLOW DATA

*Well was drilled as a waterflood injection well. No open-flow data was obtained

Producing formation Gordon Pay zone depth (ft) 2651-2670
 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

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

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

For: PENNZOIL PRODUCTS COMPANY

By: Date: 3/11/98

WET 1659

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



Select County: (103) Wetzsel (Check All)

Enter Permit #: 1660

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

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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](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4710301660	Wetzsel	1660	Green	Pine Grove	Littleton	39.505205	-80.693819	526323.2	4372886.9

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_E
4710301660	10/18/1995	Original Loc	Completed	Elza & Joyce Anderson	G-25		Jacob Wiley	47250-00	Pennzoil Products Co et al	Pennzoil Products Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AI
4710301660	10/18/1995	9/5/1995	1041	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3038		3038			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
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	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4710301660	Original Loc	Gordon	Well Record	2887	Reasonable	58	Reasonable	1041	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

RECEIVED
Division of Environmental Protection
April 11 1996

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

Well Operator's Report of Well Work

Farm name: ANDERSON, ELZA & JOYCE

Operator Well No.: J.A. WILEY G-25

LOCATION: Elevation: 1,041'

Quadrangle: PINEGROVE

District: GREEN

County: WETZEL

Latitude: 13,250 Feet south of

39 Deg 30 Min 0 Sec.

Longitude: 7,750 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 MICK

Permit Issued: 4/11/95

Well work Commenced: 9/5/95

Well work Completed: 10/18/95

Verbal plugging permission granted on:

Rotary Cable Rig

Total Depth (feet) 3,038'

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): NA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8	307'	307'	125 SKS
4 1/2"	3010'	3010'	170 SKS

OPEN FLOW DATA

*Waterflood Injection Well

Producing formation GORDON Pay zone depth (ft) 2867-2925

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

Second producing formation Pay zone depth (ft)

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

Final open flow MCF/d Final open flow Bbl/d

Time of open flow between initial and final tests Hours

Static rock pressure psig (surface pressure) after Hours

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

For: PENNZOIL PRODUCTS COMPANY

By:

Date:

Philip S. Ondrusek

4/8/96

APR 11 1996

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'	-	2184'
Sand	2184'	-	2296'
Shale	2296'	-	2867'
Gordon	2867'	-	2925'

T.D 3038'



Select County: (103) Wetzel (Check All)

Enter Permit #: 1671

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

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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_TR
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-15	William Fluharty	15577-50	East Resources et al	East 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
4710301671	10/3/1995	8/5/1995	1022	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3007			3007		
4710301671	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:

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:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	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	Qstnble 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

There is no Sample data for this well

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

AP

Well Operator's Report of Well Work

Farm name: DREW, VIRGINIA FLUHARTY

Operator Well No.: WM FLUHARTY E-15

LOCATION: Elevation: 1,022.00

Quadrangle: CENTERPOINT 7.5'

District: GREEN

County: WETZEL

Latitude: 8,200 Feet south of

39 Deg 30 Min 0 Sec.

Longitude: 9,600 Feet west of

80 Deg 40 Min 00 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: MIKE UNDERWOOD

Permit Issued: 12/04/03

Well work Commenced: 02/14/04

Well work Completed: 02/18/04

Verbal plugging permission granted on:

Rotary X Cable _____ Rig _____

Total Depth (feet) 3007

Fresh water depths (ft) NA

Salt water depths (ft) NA

NA

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

Coal Depths (ft): NA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	308.00'	308.00'	90 sks
4 1/2"	2980.30'	2980.30'	170 sks

RECEIVED
Office of Oil & Gas
Office of Chief
MAY 20 2004
WV Department of
Environmental Protection

OPEN FLOW DATA

Water Injection Well

Producing formation Gordon Pay zone depth (ft) 2855-2920
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: EAST RESOURCES, INC.

By: *Mike Underwood*

Date: 5/18/04

WET 1671

JUN 18 2004

4710301671

Treatment : Treated perforations 2892' -2902' w/ 250 gals 15% HCL, 327 Bbls cross linked gel and 20,500 # 20/40 sand

Well Log : See original well record

RECEIVED
WV Division of
Environmental Protection

APR 10 1996

Permitting
Office of Oil & Gas

4710301671 AP #

05-03-95
47-103-1671S

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

Well Operator's Report of Well Work

Farm name: DREW, VIRGINIA FLUHARTY

Operator Well No.: WM FLUHARTY E-15

LOCATION: Elevation: 1,022

Quadrangle: CENTERPOINT

District: GREEN

County: WETZEL

Latitude: 8,200 Feet south of

39 Deg 30 Min 0 Sec.

Longitude: 9,600 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 MICK

Permit Issued: 5/3/95

Well work Commenced: 8/5/95

Well work Completed: 10/3/95

Verbal plugging permission granted on:

Rotary X Cable Rig

Total Depth (feet) 3,007'

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): NA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8	308'	308'	90 SKS
4 1/2"	2980.3'	2980.3'	170 SKS

OPEN FLOW DATA

*Waterflood Injection Well

Producing formation GORDON Pay zone depth (ft) 2855-2920

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

Second producing formation Pay zone depth (ft)

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

Final open flow MCF/d Final open flow Bbl/d

Time of open flow between initial and final tests Hours

Static rock pressure psig (surface pressure) after Hours

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

For: PENNZOIL PRODUCTS COMPANY

By: Philip S. Ondrusek

Date: 4/8/96

4710301671

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.

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	2108'	-	2279'
Shale	2279'	-	2855'
Gordon	2855'	-	2920'
T.D.	3007'		



Select County: (103) Wetzel (Check All)

Enter Permit #: 1672

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

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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_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_F1
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	WV Public Lands Corp	E-16		Fluharty	15577-50	East Resources Inc et al	East 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	KOD	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:

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	Hampshire Grp	WVGES Staff Geologist	2849	Reasonable	93	Qstnble 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 Protection
Section of Oil and Gas

COPY

Well Operator's Report of Well Work

Farm name: WV PUBLIC LAND CORP. Operator Well No.: FLUHARTY E-16

LOCATION: 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.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: DAVID SCRANAGE

Permit Issued: 12/30/09

Well work Commenced: 03/25/10

Well work Completed: 03/26/10

Verbal plugging permission granted on:

Rotary X Cable _____ Rig _____

Total Depth (feet) 2942'

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): NA

Casing Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	219'	219'	75 sks
4 1/2"	2877.45'	2877.45'	170 sks

OPEN FLOW DATA * WATERFLOOD INJECTOR

Producing formation Gordon Pay zone depth (ft) 2814'-2829'
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure _____ psig (surface pressure) after _____ Hours

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

RECEIVED

Office of Oil & Gas

AUG 08 2011

For: EAST RESOURCES, INC.

By: Ben Alder

Date: 5/12/10

4710301672

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 08 2011

WV Department of
Environmental Protection

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

4710301672

Well Operator's Report of Well Work

Farm name: DREW, VIRGINIA FLUHARTY Operator Well No.: WM FLUHARTY E-16

LOCATION: Elevation: 1,416 Quadrangle: CENTERPOINT
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.

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

Agent: PHILIP S. ONDRUSEK

Inspector: RANDAL MICK

Permit Issued: 7/5/95

Well work Commenced: 8/9/95

Well work Completed: 10/3/95

Verbal plugging permission granted on: _____

Rotary Cable _____ Rig _____

Total Depth (feet) 2,942'

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): NA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8	219' /	219'	75 SKS
4 1/2"	2877.45'	2877.45'	170 SKS

OPEN FLOW DATA

*Waterflood Injection Well

Producing formation GORDON Pay zone depth (ft) 2786-2849

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

Second producing formation _____ Pay zone depth (ft) _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY

By: _____

Date: 4/8/96

Treatment : 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'		

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

Well Operator's Report of Well Work

Farm name: DREW, VIRGINIA FLUHARTY Operator Well No.: WM FLUHARTY E-16
 LOCATION: Elevation: 1,416 Quadrangle: CENTERPOINT
 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.

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

Agent: PHILIP S. ONDRUSEK

Inspector: RANDAL MICK

Permit Issued: 7/5/95
 Well work Commenced: 8/9/95
 Well work Completed: 10/3/95

Verbal plugging permission granted on:
 Rotary X Cable Rig
 Total Depth (feet) 2,942'
 Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8	219'	219'	75 SKS
4 1/2"	2877.45'	2877.45'	170 SKS

OPEN FLOW DATA

*Waterflood Injection Well

Producing formation GORDON Pay zone depth (ft) 2786-2849
 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

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

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

For: PENNZOIL PRODUCTS COMPANY

By: *[Signature]*

Date: 4/8/96

4710301672

Treatment : 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'		



Select County: (103) Wetzel (Check All)

Enter Permit #: 1673

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
- [WVGES Main](#)
- ["Pipeline-Plus"](#)

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:

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
4710301673	10/18/1995	7/25/1995	1268	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3262		3262			0
4710301673	3/21/2014	12/9/2013	1268	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	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 Digitized Logs available for download

There is no Plugging data for this well

There is no Sample data for this well

PM

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

API 47-103-01673 County WETZEL District GREEN Quad CENTERPOINT 7.5' Pad Name J.K. FLUHARTY Field/Pool Name STRINGTOWN Farm name YELLOW HOUSE SPORTS CLUB Well Number E-18 Operator (as registered with the OOG) H.G. ENERGY LLC Address 5260 DuPONT ROAD City PARKERSBURG State WV Zip 26101

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey Top hole Northing 4,3470,784 M Easting 525,757 M Landing Point of Curve Northing Bottom Hole Northing Easting

Elevation (ft) 1,268' GL Type of Well New Existing Type of Report Interim Final Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate Air Fresh Water Brine Production hole Air Mud Fresh Water Brine Mud Type(s) and Additive(s) N/A

RECEIVED Office of Oil and Gas JUL 02 2014 WV Department of Environmental Protection

Date permit issued 10/25/13 Date drilling commenced N/A Date drilling ceased N/A Date completion activities began 12/9/13 Date completion activities ceased 3/21/14 Verbal plugging (Y/N) N Date permission granted Granted by

Please note: Operator is required to submit a plugging application within 5 days of verbal permission 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) depths N Coal depth(s) ft N/A Cavern(s) encountered (Y/N) depths N Is coal being mined in area (Y/N) N

Reviewed by:

WR-35
Rev. 8/23/13

API 47- 103 - 01673 Farm name YELLOW HOUSE SPORTS CLUB Well number E-18

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor							
Surface		8 5/8"	528'	EXISTING	20#		EXISTING
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 DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor							
Surface	Reg Neat	275					EXISTING
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	50:50 Pozmix	170					EXISTING
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 _____
EXISTING

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

WR-35
Rev. 8/23/13

API 47- 103 - 01673 Farm name YELLOW HOUSE SPORTS CLUB Well number E-18

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
Gordon	3122'-3136'	TVD 3122'-3136' MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface _____ psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas Oil NGL Water GAS MEASURED BY

_____ mcfpd _____ bpd _____ bpd _____ bpd Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
Sand/Shale	0		0		SEE ORIGINAL WELL RECORD
Pittsburgh Coal					
Sand/Shale					
Big Lime					
Big Injun					
Shale					
Fifty Foot					
Shale					
Sand					
Shale					
Gordon					
Shale					
TD					

Please insert additional pages as applicable.

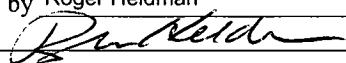
Drilling Contractor _____
Address _____ City _____ State _____ Zip _____

Logging Company Appalachian Well Surveys
Address 10291 Ohio Ave City Cambridge State OH Zip 43725

Cementing Company _____
Address _____ City _____ State _____ Zip _____

Stimulating Company Producers Service Corp.
Address 109 South Graham Street City Zanesville State OH Zip 43701

Please insert additional pages as applicable.

Completed by Roger Heldman Telephone 304-420-1107
Signature  Title Operations Manager Date 06/27/14

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

Well Operator's Report of Well Work

Farm name: YELLOW HOUSE SPORTS CLUB Operator Well No.: J.K. FLUHARTY E-18

LOCATION: Elevation: 1,268 Quadrangle: CENTERPOINT

District: GREEN County: WETZEL
Latitude: 5,050 Feet south of 39 Deg 30 Min 0 Sec.
Longitude: 9,600 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 MICK

Permit Issued: 5/3/95
Well work Commenced: 7/25/95
Well work Completed: 10/18/95

Verbal plugging permission granted on:
Rotary Cable Rig
Total Depth (feet) 3,262
Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8	528'	528'	275 SKS
4 1/2"	3231.95'	3231.05'	170 SKS

OPEN FLOW DATA *Waterflood Injection Well

Producing formation GORDON Pay zone depth (ft) 3093-3155
 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

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

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

For: PENNZOIL PRODUCTS COMPANY

By: Philip Ondrusek
Date: 4/2/96

RECEIVED
Office of Oil and Gas
SEP 26 1996
WV Department of Environmental Protection

4710301673

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
WV Dept. of Environmental Protection



Select County: (103) Wetzsel (Check All)

Enter Permit #: 1675

Get Data Reset

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
- [WVGES Main](#)
- ["Pipeline-Plus"](#)

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	Wetzsel	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	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4710301675	7/5/1996	Original Loc	Completed	Pig & A Poke Inc	G-17		Henry Fluaharty	57197-00	Pennzoil Products 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	G_BEFF	G_AFT
4710301675	7/5/1996	7/27/1995	1243	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3255		3255		0	

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEFF	G_AFT	O_BEFF	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	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
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

RECEIVED
WV Division of
Environmental Protection

NOV 19 1996

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

3-May-95
API # 47 -103- 1675

4710301675

Permitting
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: Pig in a Poke, Inc.

Operator Well No.: Henry Fluharty G-17

LOCATION: Elevation: 1,127.00 Quadrangle: Center Point
District: Green County: Wetzel
Latitude: 6,300 Feet south of 39 Deg 30 Min 0 Sec.
Longitude: 7,500 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 Mick

Permit Issued: 5/3/95

Well work Commenced: 7/27/95

Well work Completed: 7/5/96

Verbal plugging

permission granted on: _____

Rotary X 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 & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	524'	524'	160 Sacks
4 1/2"	3201.75'	3201.75'	170 Sacks

OPEN FLOW DATA

*Well was drilled as a water injection well. No open-flow data was obtained

Producing formation Gordon Pay zone depth (ft) 3090-3155
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY

By: _____

Date: 11/13/96

NOV 22 1996

4710301675

Treatment:

Perforations:

3118-3128 - 4 holes/ft. (40 holes)

Treatment:

Treated via 4.5" Casing with 300 gals. mud acid, 184 bbls. gelled water and 2,300 lbs. of 20/40 sand.

Well Log:

Sand & Shale	0	-	1582
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 <i>Layer?</i>	2331	-	2523
Shale	2523	-	3090
Gordon	3090	-	3155
TD	3255		



Select County: (103) Wetzsel (Check All)

Enter Permit #: 1677

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

- [Table Descriptions](#)
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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	Wetzsel	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	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_F
4710301677	8/18/1995	Original Loc	Completed	State of WV	H-19		Irene Reilly	15634-50	Pennzoil Products Co te al	Pennzoil Products Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AF
4710301677	8/18/1995	6/25/1995	1382	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3385		3385			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
4710301677	8/18/1995	Horizon	Injection	Vertical	3258	Gordon	3262	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_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4710301677	Original Loc	Gordon	Well Record	3224	Reasonable	63	Reasonable	1382	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 **RECEIVED**
 WV Division of
 Environmental Protection

APR 10 1996

Permitting
 Office of Oil & Gas

05-31-95
 API # 47-103-1677-S

State of West Virginia
 Division of Environmental Protection **4710301677**
 Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: WVA PUBLIC LAND CORP.
 LOCATION: Elevation: 1,382
 District: GREEN
 Latitude: 4,200 Feet south of
 Longitude: 6,550 Feet west of

Operator Well No.: I. REILLY H-19
 Quadrangle: CENTERPOINT
 County: WETZEL
 39 Deg 30 Min 0 Sec.
 80 Deg 40 Min 0 Sec.

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

Agent: PHILIP S. ONDRUSEK
 Inspector: RANDAL MICK
 Permit Issued: 5/31/95
 Well work Commenced: 6/25/95
 Well work Completed: 8/18/95
 Verbal plugging permission granted on:
 Rotary X Cable Rig
 Total Depth (feet) 3,385'
 Fresh water depths (ft) NA
 Salt water depths (ft) NA
 Is coal being mined in area (Y/N) N
 Coal Depths (ft): NA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8	660'	660'	To Surface
4 1/2"	3366'	3366'	170 SKS

OPEN FLOW DATA *Waterflood Injection Well

Producing formation GORDON Pay zone depth (ft) 3224-3287
 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
 Second producing formation Pay zone depth (ft)
 Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d
 Final open flow MCF/d Final open flow Bbl/d
 Time of open flow between initial and final tests Hours
 Static rock pressure psig (surface pressure) after Hours

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

For: PENNZOIL PRODUCTS COMPANY
 By: *Philip Ondrusek*
 Date: 4/8/96

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.

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	2503'	-	2654'
Shale	2654'	-	3224'
Gordon	3224'	-	3287'
T.D	3385'		



Select County: (103) Wetzsel (Check All)

Enter Permit #: 1678

Get Data Reset

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

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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](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4710301678	Wetzsel	1678	Green	Pine Grove	Littleton	39.501144	-80.693817	526324.9	4372436.3

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_F
4710301678	10/27/1995	Original Loc	Completed	Opal Cole et al	G-24		S H Wiley	2832-00	Pennzoil Products Co et al	Pennzoil Products Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AI
4710301678	10/27/1995	7/6/1995	1249	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3235		3235			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
4710301678	10/27/1995	Horizon	Injection	Vertical	3097	Gordon	3103	Gordon	0	0			
4710301678	10/27/1995	Horizon	Injection	Vertical	3110	Gordon	3114	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_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4710301678	Original Loc	Gordon	Well Record	3068	Reasonable	64	Reasonable	1249	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

APR 10 1996

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

4710301678

Permitting
 Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: COLE, OPAL

Operator Well No.: S.H. WILEY G-24

LOCATION: Elevation: 1,249
 District: GREEN
 Latitude: 14,600 Feet south of
 Longitude: 7,800 Feet west of

Quadrangle: PINEGROVE
 County: WETZEL
 39 Deg 30 Min 0 Sec.
 80 Deg 40 Min 0 Sec.

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

Agent: PHILIP S. ONDRUSEK

Inspector: RANDAL MICK

Permit Issued: 5/3/95

Well work Commenced: 7/6/95

Well work Completed: 10/27/95

Verbal plugging

permission granted on:

Rotary X Cable _____ Rig _____

Total Depth (feet) 3,235'

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): NA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8	500'	500'	250 SKS
4 1/2"	3195'	3195'	170 SKS

OPEN FLOW DATA

*Waterflood Injection Well

Producing formation GORDON Pay zone depth (ft) 3068-3132
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY

By: _____

Date: 4/8/96

4710301678

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	2322'	-	2425'
Shale	2425'	-	3068'
Gordon	3068'	-	3132'
T.D	3235'		



Select County: (103) Wetzel (Check All)

Enter Permit #: 1679

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

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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](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4710301679	Wetzel	1679	Green	Pine Grove	Littleton	39.505495	-80.689326	526709.4	4372920.4

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM
4710301679	3/29/1996	Original Loc	Completed	Eliza & 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-25	Jacob E Wiley		East Resource	East 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
4710301679	3/29/1996	7/21/1995	1299	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3279		3279			0
4710301679	3/10/2003	3/6/2003	1299	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Gas	Rotary	Acid+Frac	3279					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
4710301679	3/29/1996	Horizon	Injection	Vertical	3160	Gordon	3165	Gordon	0	0			
4710301679	3/10/2003	Horizon	Injection	Vertical	3126	Gordon	3191	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

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

Handwritten initials

Well Operator's Report of Well Work

Farm name: MORRIS, TIMMY A. Operator Well No.: J. E. WILEY H-25

LOCATION: Elevation: 1,299.00 Quadrangle: PINEGROVE

District: GREEN County: WETZEL
Latitude: 13,150 Feet south of 39 Deg 30 Min 0 Sec.
Longitude: 6,450 Feet west of 80 Deg 40 Min 30 Sec.

RECEIVED
Office of Oil & Gas
Permitting
MAR 14 2003
WV Department of
Environmental Protection

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: MICHAEL MCCOWN

Inspector: MIKE UNDERWOOD

Permit Issued: 02/07/03

Well work Commenced: 03/06/03

Well work Completed: 03/10/03

Verbal plugging permission granted on: _____

Rotary Cable _____ Rig _____

Total Depth (feet) 3,279

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	568.00	568.00	230 sks
4 1/2"	3212.00'	3212.00'	170 sks

OPEN FLOW DATA

* Waterflood injection well

Producing formation Gordon Pay zone depth (ft) 3126-3191

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

Second producing formation _____ Pay zone depth (ft) _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock pressure _____ psig (surface pressure) _____ after _____ Hours

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

For: EAST RESOURCES, INC.

By: *Handwritten signature*

Date: 3/11/03

MAR 28 2003

WET 16/19

4710301679

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

APR 10 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: ANDERSON, ELZA & JOYCE

Operator Well No.: J.A. WILEY H-25

LOCATION: Elevation: 1,299

Quadrangle: PINEGROVE

District: GREEN

County: WETZEL

Latitude: 13,150 Feet south of

39 Deg 30 Min 0 Sec.

Longitude: 6,450 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 MICK

Permit Issued: 5/3/95

Well work Commenced: 7/21/95

Well work Completed: 3/29/96

Verbal plugging permission granted on: _____

Rotary Cable _____ Rig _____

Total Depth (feet) 3,279'

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): NA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8	568'	568'	230 SKS
4 1/2"	3212'	3212'	170 SKS

OPEN FLOW DATA

*Waterflood Injection Well

Producing formation GORDON Pay zone depth (ft) 3126-3901^{3201²}
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY

By: _____

Date: 4/8/96

3160 3165

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	2378'	-	2546'
Shale	2546'	-	3126'
Gordon	3126'	-	3901' 3201?
T.D	3279'		



Select County: (103) Wetzsel (Check All)

Enter Permit #: 1692

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

- [Table Descriptions](#)
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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	Wetzsel	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	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_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_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	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	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	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		0	0

Comment: 1/9/2004 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
4710301692	10/18/1995	Water Flood	Injection	Vertical	2781	Gordon	2789	Gordon	0	0			
4710301692	3/26/2010	Water Flood	Injection	Vertical	2781	Gordon	2789	Gordon					
4710301692	1/9/2004	Water Flood	Injection	Vertical	2781	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

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

COPY

Well Operator's Report of Well Work

Farm name: HEIMBROD, RICHARD Operator Well No.: D. M. CUNNINGHAM F-18-B

LOCATION: Elevation: 915' Quadrangle: CENTERPOINT 7.5'

District: GREEN County: WETZEL
Latitude: 4,725 Feet south of 39 Deg 30 Min 0 Sec.
Longitude: 8,575 Feet west of 80 Deg 40 Min 0 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: DAVID SCRANAGE

Permit Issued: 01/04/10

Well work Commenced: 03/25/10

Well work Completed: 03/26/10

Verbal plugging permission granted on:

Rotary X Cable _____ Rig _____

Total Depth (feet) 2911

Fresh water depths (ft) 270

Salt water depths (ft) NA

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

Coal Depths (ft): NA

Casing Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	306'	306'	105 sks
4 1/2"	2846.7'	2846.7'	170 sks

OPEN FLOW DATA * WATERFLOOD INJECTOR

Producing formation Gordon Pay zone depth (ft) 2781'-2789'

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

Second producing formation _____ Pay zone depth (ft) _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock pressure _____ psig (surface pressure) after _____ Hours

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

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Office of Oil & Gas

AUG 08 2011

For: EAST RESOURCES, INC.

By: _____

Date: _____

[Signature]
5/12/10

WV Department of
Environmental Protection

4710301692

Treatment : Treated perms. 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 08 2011

WV Department of
Environmental Protection

4710301692

WR-35

28-Sep-95

API #

47-103-1692S

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

Well Operator's Report of Well Work

Farm name: HEIMBROD, RICHARD

Operator Well No.: D. CUNINGHAM F-18B

LOCATION: Elevation: 915.00

Quadrangle: CENTERPOINT

District: GREEN
Latitude: 4,700 Feet south of
Longitude: 8,600 Feet west of

County: WETZEL
39 Deg 30 Min 0 Sec.
80 Deg 40 Min 0 Sec.

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

Agent: PHILIP S. ONDRUSEK

Inspector: RANDAL MICK

Permit Issued: 9/9/94

Well work Commenced: 8/18/95

Well work Completed: 10/18/95

Verbal plugging permission granted on:

Rotary X Cable Rig

Total Depth (feet) 2911'

Fresh water depths (ft) 270'

Salt water depths (ft) NA

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

Coal Depths (ft): NA

Table with 4 columns: Casing & Tubing Size, Used in Drilling, Left in Well, Cement Fill Up Cu. Ft. Rows include 8 5/8" (306' drilling, 306' left, 105 SKS) and 4 1/2" (2846.7' drilling, 2846.7' left, 170 SKS).

OPEN FLOW DATA

* Water Injection Well

Producing formation Gordon Pay zone depth (ft) 2746'-2810'

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

Second producing formation Pay zone depth (ft)

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

Final open flow MCF/d Final open flow Bbl/d

Time of open flow between initial and final tests Hours

Static rock pressure psig (surface pressure) after Hours

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

For: PENNZOIL PRODUCTS COMPANY

By:

Date:

Signature: Randal Mick, Date: 11/0/95

RECEIVED Office of Oil & Gas DEC 18 2003 Department of Environmental Protection

RECEIVED Office of Oil & Gas NOV 18 2003 Department of Environmental Protection

4710301692

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 :

Sand & Shale	0	-	1045'
Sand	1045'	-	1068'
Shale	1068'	-	1112'
Sand	1112'	-	1152'
Sand & Shale	1152'	-	1884'
Sand	1884'	-	1896'
Shale	1896'	-	1910'
Sand	1910'	-	1942'
Shale	1942'	-	1982'
Sand	1982'	-	2127'
Shale	2127'	-	2746'
Gordon	2746'	-	2810'
T.D.	2911'		



Select County: (103) Wetzzel (Check All)

Enter Permit #: 1693

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
- [WVGES Main](#)
- ["Pipeline-Plus"](#)

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](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4710301693	Wetzzel	1693	Green	Pine Grove	Littleton	39.517096	-80.697193	526028.7	4374205.6

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_F
4710301693	9/3/1996	Original Loc	Completed	Patrick & Lori Ice	F-29		L J Fluharty	16103-50	Pennzoil Products Co et al	Pennzoil Products Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEFF	G_AFT
4710301693	9/3/1996	6/1/1996	964	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2925		2925		0	0

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEFF	G_AFT	O_BEFF	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:

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

There is no Sample data for this well

Office of Oil & Gas
JUN 10 1997

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

4710301693

Well Operator's Report of Well Work

Farm name: Ice, Patrick & Lori I.

Operator Well No.: L.J. Fluharty F-29

LOCATION: Elevation: 964.00'

Quadrangle: Pine Grove

District: Green
Latitude: 8950' Feet south of
Longitude: 8650' Feet west of

County: Wetzel
39 Deg 32 Min 30 Sec.
80 Deg 40 Min 0 Sec.

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

Agent: PHILIP S. ONDRUSEK

Inspector: Randal Mick

Permit Issued: 3/4/96

Well work Commenced: 6/1/96

Well work Completed: 9/3/96

Verbal plugging permission granted on:

Rotary Cable Rig

Total Depth (feet) 2925'

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): 203-210

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size 8 5/8"	263'	263'	155 Sacks
4 1/2"	3006.35'	3006.35'	275 Sacks

OPEN FLOW DATA

*Well was drilled as a waterflood injection well. No open-flow data was obtained

Producing formation Gordon Pay zone depth (ft) 2778-2797

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

Second producing formation Pay zone depth (ft)

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

Final open flow MCF/d Final open flow Bbl/d

Time of open flow between initial and final tests Hours

Static rock pressure psig (surface pressure) after Hours

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

For: PENNZOIL PRODUCTS COMPANY

By: [Signature]

Date: 11/1/97

WET 1693

Treatment: Perforations: 2790' - 2796' - 6 holes/ft. (36 holes)
 Treatment: 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



Select County: (103) Wetzsel (Check All)

Enter Permit #: 1694

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
- [WVGES Main](#)
- ["Pipeline-Plus"](#)

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](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4710301694	Wetzsel	1694	Green	Pine Grove	Littleton	39.511005	-80.706176	525258.7	4373527.1

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_F
4710301694	9/27/1996	Original Loc	Completed	Coastal Lumber Co	H-27		McCoy Hrs	25040-50	Pennzoil Products Co et al	Pennzoil Products Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AF
4710301694	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

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
4710301694	9/27/1996	Horizon	Injection	Vertical	2890	Gordon	2896	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_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4710301694	Original Loc	unidentified coal	Well Record	828	Reasonable	4	Reasonable	1045	Ground Level
4710301694	Original Loc	Big Lime	Well Record	2024	Reasonable	52	Reasonable	1045	Ground Level
4710301694	Original Loc	Big Injun (Price&eq)	Well Record	2076	Reasonable	212	Reasonable	1045	Ground Level
4710301694	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

There is no Sample data for this well

RECEIVED
Division of Environmental Protection
JAN 06 1997
Section of Oil & Gas

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

4710301694

Well Operator's Report of Well Work

Farm name: Coastal Lumber Company
LOCATION: Elevation: 1,045.00
District: Green
Latitude: 11,200 Feet south of
Longitude: 6,500 Feet west of
Company: PENNZOIL PRODUCTS COMPANY
P.O. BOX 5519
VIENNA, WV 26105-5519

Operator Well No.: McCoy Hrs. #H-27
Quadrangle: Pine Grove
County: Wetzel
39 Deg 32 Min 30 Sec.
80 Deg 40 Min 00 Sec.

Agent: PHILIP S. ONDRUSEK
Inspector: Randal Mick
Permit Issued: 4/9/96
Well work Commenced: 6/23/96
Well work Completed: 9/27/96
Verbal plugging permission granted on:
Rotary Cable _____ Rig _____
Total Depth (feet) 3027'
Fresh water depths (ft) NA
Salt water depths (ft) NA
Is coal being mined in area (Y/N) N
Coal Depths (ft): 828-832

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	307'	307'	175 Sacks
4 1/2"	2969.65'	2969.65'	275 Sacks

OPEN FLOW DATA *Well was drilled as a waterflood injection well. No open-flow data was obtained

Producing formation Gordon Pay zone depth (ft) 2882-2900
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY
By: *[Signature]*
Date: 12/27/96

WET 1694

4710301694

Treatment:

Perforations:

2890' - 2896' - 4 holes/ft. (24 holes)

Treatment:

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 (Check All)

Enter Permit #: 1695

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
- [WVGES Main](#)
- ["Pipeline-Plus"](#)

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:

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_I
4710301695	7/25/1996	Original Loc	Completed	Elizabeth Miller Hrs	F-27		Eliz Miller	26804-50	Pennzoil Products Co et al	Pennzoil Products Company			
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	
4710301695	-/-	Worked Over	Cancelled	Gerald E Boggs et ux	F-27		Elizabeth Miller	26804-50	East Resources	East 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
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_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4710301695	3/26/2010	Water Flood	Injection	Vertical	2806	Gordon	2878	Gordon					
4710301695	7/25/1996	Water Flood	Injection	Vertical	2888	Gordon	2903	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_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 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

4710301695

WR-35

1/4/2010

API# 47 103 01695 F

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

COPY ✓

Well Operator's Report of Well Work

Farm name: BOGGS, GERALD E., ETAL Operator Well No.: E. MILLER F-27

LOCATION: Elevation: 1,050' Quadrangle: PINE GROVE 7.5'

District: GREEN County: WETZEL
 Latitude: 11,200 Feet south of 39 Deg 32 Min 30 Sec.
 Longitude: 9,000 Feet west of 80 Deg 40 Min 0 Sec.

Company: EAST RESOURCES, INC.
 P.O. BOX 5519
 VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: DAVID SCRANAGE

Permit Issued: 01/04/10

Well work Commenced: 02/02/10

Well work Completed: 03/26/10

Verbal plugging

permission granted on:

Rotary X Cable _____ Rig _____

Total Depth (feet) 3052'

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): NA

Casing Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	307'	307'	180 sks
4 1/2"	2868.95'	2868.95'	270 sks
RECEIVED Office of Oil & Gas			

AUG 09 2011

OPEN FLOW DATA * WATERFLOOD INJECTOR

WV Department of Environmental Protection

Producing formation Gordon Pay zone depth (ft) 2878'-2806'

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

Second producing formation _____ Pay zone depth (ft) _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours

Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: EAST RESOURCES, INC.

By: _____

Date: _____

Ben Keller
5/12/10

4710301695

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

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

Well Operator's Report of Well Work

Farm name: Miller, Elizabeth Heirs

Operator Well No.: E. Miller F-27

LOCATION: Elevation: 1,050.00'

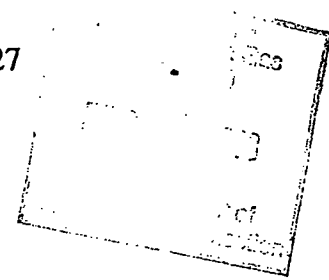
Quadrangle: Pine Grove

District: Green

County: Wetzel

Latitude: 11,200' Feet south of 39 Deg 32 Min 30 Sec.

Longitude: 9,000' 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 Mick

Permit Issued: 3/4/96

Well work Commenced: 6/6/96

Well work Completed: 7/25/95

Verbal plugging permission granted on: _____

Rotary Cable _____ Rig _____

Total Depth (feet) 3052'

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): 810-820

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size 8 5/8"	307'	307' <i>OK DGS 12-9-09</i>	180 Sacks
4 1/2"	2868.95'	2868.95'	270 Sacks

OPEN FLOW DATA *Well was drilled as a waterflood injection well. No open-flow data was obtained

Producing formation Gordon Pay zone depth (ft) 2888-2905

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

Second producing formation _____ Pay zone depth (ft) _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY
By: [Signature]
Date: 1/3/97



Select County: (103) Wetzel (Check All)

Enter Permit #: 1696

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

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
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- ["Pipeline-Plus"](#)

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	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_P
4710301696	9/9/1996	Original Loc	Completed	Coastal Lumber Co	G-27		McCoy Hrs	25040-50	Pennzoil Products Co et al	Pennzoil Products Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT
4710301696	9/9/1996	6/19/1996	1057	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3052		3052		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
4710301696	9/9/1996	Water Flood	Injection	Vertical	2900	Gordon	2908	Gordon	0	0	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
4710301696	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
4710301696	Pennzoil Products Company	1997	0	0	0	0	0	0	0	0	0	0	0	0	0

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

There is no Production Water data for this well

Stratigraphy Information:

API	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

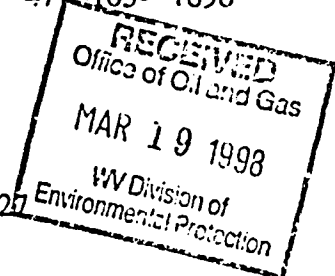
* There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

There is no Sample 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: Coastal Lumber Company

Operator Well No.: McCoy Hrs. #G-27

LOCATION: Elevation: 1057'

Quadrangle: Pine Grove

District: Green

County: Wetzel

Latitude: 7,750' Feet south of

39 Deg 32 Min 30 Sec.

Longitude: 11,400' 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: Mike Underwood

Permit Issued: 3/4/96

Well work Commenced: 6/19/96

Well work Completed: 9/9/96

Verbal plugging

permission granted on:

Rotary X Cable _____ Rig _____

Total Depth (feet) 3052'

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): 837

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	307'	307'	150 Sacks
4 1/2"	2995.85'	2995.85'	135 Sacks

OPEN FLOW DATA

*Well was drilled as a waterflood injection well. No open-flow data was obtained

Producing formation Gordon Pay zone depth (ft) 2,897

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

Second producing formation _____ Pay zone depth (ft) _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY

By: [Signature]

Date: 3/16/98

WET 1696

4710301696

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) Wetzsel (Check All)

Enter Permit #: 1699

Get Data Reset

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

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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	Wetzsel	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_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4710301699	9/18/1996	Original Loc	Completed	Carl E Fluharty Sr	E-26		A Wiley	15001-50	Pennzoil Products Co et al	Pennzoil Products Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AF
4710301699	9/18/1996	7/10/1996	843	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	2846		2846			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
4710301699	9/18/1996	Horizon	Injection	Vertical	2690	Gordon	2700	Gordon	0	0			
4710301699	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:

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

There is no Sample data for this well

RECEIVED
DEPARTMENT OF ENVIRONMENTAL PROTECTION

JAN 16 1997

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

4710301699

Permitting
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: Fluharty, Carl E. Sr.

Operator Well No.: A. Wiley #E-26

LOCATION: Elevation: 843.00

Quadrangle: Pine Grove

District: Green
Latitude: 12,500 Feet south of
Longitude: 9,350 Feet west of

County: Wetzel
39 Deg 32 Min 30 Sec.
80 Deg 40 Min 0 Sec.

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	220'	220'	125 Sacks
4 1/2"	2747.65'	2747.65'	275 Sacks

Agent: PHILIP S. ONDRUSEK

Inspector: Randal Mic'k

Permit Issued: 4/29/96

Well work Commenced: 7/10/96

Well work Completed: 9/18/96

Verbal plugging permission granted on: _____

Rotary X Cable _____ Rig _____

Total Depth (feet) 2346'

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): 626-630

OPEN FLOW DATA

*Well was drilled as a waterflood injection well. No open-flow data was obtained

Producing formation Gordon Pay zone depth (ft) 2687-2704
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY

By: _____

Date: 1/3/97

WEST 1699

4710301699

Treatment:

Perforations:

2690' - 2700' & 2696' -2702' - 4 holes/ft.

Treatment:

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 County: (103) Wetzsel (Check All)

Enter Permit #: 1702

Get Data Reset

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

- [Table Descriptions](#)
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WV Geological & Economic Survey:

Well: County = 103 Permit = 1702 [Link to all digital records for well](#)

Report Time: Thursday, November 30, 2023 11:03:41 AM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4710301702	Wetzsel	1702	Green	Pine Grove	Littleton	39.504045	-80.705424	525325.9	4372754.8

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_
4710301702	9/20/1996	Dvtd Orgnl Loc	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_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AF
4710301702	9/20/1996	6/27/1996	852	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3433		3433			0

Comment: 9/20/1996 Drilled directionally S30 to 20 E at 1272ft to Gordon.

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:

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	Dvtd Orgnl 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

There is no Sample data for this well

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JAN 26 1997
Permitting
Office of Oil & Gas

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work

15-May-96
API # 47 -103- 1702

4710301702

Farm name: Coen, Linda
LOCATION: Elevation: 852.00
District: Green
Latitude: 13,650 Feet south of
Longitude: 11,000 Feet west of
Company: PENNZOIL PRODUCTS COMPANY
P.O. BOX 5519
VIENNA, WV 26105-5519

Operator Well No.: S.H. Wiley #E-24 R
Quadrangle: Pine Grove
County: Wetzel
39 Deg 32 Min 30 Sec.
80 Deg 40 Min 0 Sec.

Agent: PHILIP S. ONDRUSEK
Inspector: Randal Mick
Permit Issued: 5/15/96
Well work Commenced: 6/27/96
Well work Completed: 9/20/96
Verbal plugging permission granted on:
Rotary Cable _____ Rig _____
Total Depth (feet) 3433'
Fresh water depths (ft) NA
Salt water depths (ft) NA
Is coal being mined in area (Y/N) N
Coal Depths (ft): NA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	833'	833'	350 Sacks
4 1/2"	3352.8'	3352.8'	315 Sacks

OPEN FLOW DATA *Well was drilled as a waterflood injection well. No open-flow data was obtained
 Note This well was drilled directionally S30-20E 1272' to Gordon formation.

Producing formation Gordon Pay zone depth (ft) 3224-3297
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: PENNZOIL PRODUCTS COMPANY
By: [Signature]
Date: 1/23/97

NET 1702



Select County: (103) Wetzzel (Check All)

Enter Permit #: 1739

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

- [Table Descriptions](#)
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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](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4710301739	Wetzzel	1739	Green	Center Point	Centerpoint	39.477746	-80.692023	526488	4369840

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
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 et al	HG Energy, LLC	3406	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_BEFG
4710301739	9/16/1997	7/1/1997	1419	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Development Well	Development Well	Oil	Rotary	Acid+Frac	3406		3406		0
4710301739	2/25/2014	2/19/2014	1419	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Fractured	3435				0

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEFG	G_AFT	O_BEFG	O_AFT	WATER_QNTY
4710301739	2/25/2014	Water Flood	Injection	Vertical	3304	Gordon	3342	Gordon					
4710301739	9/16/1997	Pay	Oil	Vertical	3304	Gordon	3342	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
4710301739	East Resources, Inc.	2005	94	4	6	7	8	8	9	10	9	9	6	10	8
4710301739	East Resources, Inc.	2006	94	7	8	9	7	10	10	4	4	2	4	13	16
4710301739	East Resources, Inc.	2007	192	15	14	12	21	18	0	11	25	19	18	19	20
4710301739	East Resources, Inc.	2008	271	23	16	22	12	14	43	41	40	19	24	12	5
4710301739	East Resources, Inc.	2010	214	16	15	23	19	17	20	21	19	18	18	15	13
4710301739	East Resources, Inc.	2011	124	10	10	11	12	14	14	12	10	8	7	9	7
4710301739	HG Energy, LLC	2012	13	8	5	0	0	0	0	0	0	0	0	0	0
4710301739	HG Energy, LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301739	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

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.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4710301739	HG Energy, LLC	2013	0	0	0	0	0	0	0	0	0	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:

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 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 Protection
Section of Oil and Gas

4710301739

Well Operator's Report of Well Work

Farm name: WVA Public Lands

Operator Well No.: F.L. Hoge H-15

LOCATION: Elevation: 1,419.00

Quadrangle: Center Point

District: Green

County: Wetzel

Latitude: 8,150 Feet south of

39 Deg 30 Min 30 Sec.

Longitude: 7,250 Feet west of

80 Deg 40 Min 30 Sec.

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

Agent: PHILIP S. ONDRUSEK

Inspector: Randal Mick

Permit Issued: 6/12/97

Well work Commenced: 7/1/97

Well work Completed: 9/16/97

Verbal plugging

permission granted on:

Rotary X Cable Rig

Total Depth (feet) 3406'

Fresh water depths (ft) NA

Salt water depths (ft) NA

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

Coal Depths (ft): 943'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	663'	663'	300 Sacks
4 1/2"	3376'	3376'	140 Sacks

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 3,326

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

Second producing formation Pay zone depth (ft)

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

Final open flow MCF/d Final open flow Bbl/d

Time of open flow between initial and final tests Hours

Static rock pressure psig (surface pressure) after Hours

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

For: PENNZOIL PRODUCTS COMPANY SEP 23 2013

By: WV Department of

Date: 3/16/98 Environmental Protection

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
WV Dept. of Environmental Protection

Received
RECEIVED

SEP 23 2013
Office of Oil and Gas
WV Dept. of Environmental Protection
Office of Environmental Protection
WV Dept. of Environmental Protection



Select County: (103) Wetzsel (Check All)

Enter Permit #: 2391

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

- [Table Descriptions](#)
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- ["Pipeline-Plus" New](#)

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	Wetzsel	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_FM	TFM_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:

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
4710302391	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
4710302391	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

Comment: 8/14/2009 Waterflood producer. No flow data included but well is in production.

Comment: 3/13/2013 Converted to water injection.

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	A_FT	O_BEF	O_FT	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
4710302391	East Resources, Inc.	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4710302391	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:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	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

Wireline (E-Log) Information:

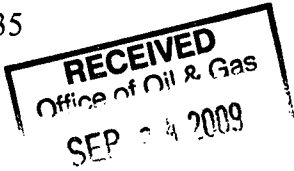
* There is no Scanned/Raster Log data for this well

* 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 Protection
Section of Oil and Gas

4710302391

Well Operator's Report of Well Work

Farm name: MILLER, ISRAEL-ESTATE Operator Well No.: ISRAEL MILLER 7

LOCATION: Elevation: 1,150' Quadrangle: PINE GROVE 7.5'

District: GREEN County: WETZEL
Latitude: 9,750 Feet south of 39 Deg 32 Min 30 Sec.
Longitude: 9,350 Feet west of 80 Deg 40 Min 0 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: DAVID SCRANAGE

Permit Issued: 09/17/08

Well work Commenced: 07/30/09

Well work Completed: 08/14/09

Verbal plugging permission granted on:

Rotary X Cable _____ Rig _____

Total Depth (feet) 3260'

Fresh water depths (ft) N/A

Salt water depths (ft) 1500'

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

Coal Depths (ft): NA

Casing Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	417'	417'	100 sks
4 1/2"	3150.8'	3150.8'	150 sks

OPEN FLOW DATA * WATERFLOOD PRODUCER

Producing formation Gordon Pay zone depth (ft) 2975'2981', 2984'-2986'

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

Second producing formation _____ Pay zone depth (ft) _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: EAST RESOURCES, INC

By: Ben Helder

Date: 9/13/09

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) Wetzsel (Check All)

Enter Permit #: 2393

Get Data Reset

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

- [Table Descriptions](#)
- [County Code Translations](#)
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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](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4710302393	Wetzsel	2393	Green	Pine Grove	Littleton	39.50822	-80.693878	526317	4373221.5

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4710302393	8/28/2009	Original Loc	Completed	Coastal Lumber Co		McCoy Heirs 14			East Resources et al	East Resources, Inc.	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	NEW_FTG	KOD	G_BEF	G_AF
4710302393	8/28/2009	8/13/2009	1051	Ground Level	Jksnbg-Strngtwn	Hampshire Grp	Gordon	Service Well	Unsuccessful	Water Injection	Rotary	Acid+Frac	3170			3170		

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
4710302393	8/28/2009	Water	Salt Water	Vertical					1860				
4710302393	8/28/2009	Water Flood	Injection	Vertical	2896	Gordon	2910	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	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
4710302393	Tribune Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

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

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4710302393	Tribune Resources, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

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	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
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 Injum (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:

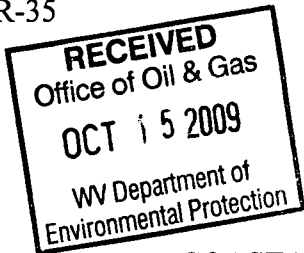
* There is no Scanned/Raster Log data for this well

* There is no 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 Protection
Section of Oil and Gas

4710302393

Well Operator's Report of Well Work

Farm name: COASTAL LUMBER CO. Operator Well No.: MCCOY HEIRS 14

LOCATION: Elevation: 1,051' Quadrangle: PINE GROVE 7.5'

District: GREEN County: WETZEL
Latitude: 12,200 Feet south of 39 Deg 32 Min 30 Sec.
Longitude: 7,725 Feet west of 80 Deg 40 Min 0 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: DAVID SCRANAGE

Permit Issued: 09/17/08

Well work Commenced: 08/13/09

Well work Completed: 08/28/09

Verbal plugging

permission granted on:

Rotary X Cable _____ Rig _____

Total Depth (feet) 3170'

Fresh water depths (ft) N/A

Salt water depths (ft) 1860'

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

Coal Depths (ft): NA

Casing Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	320'	320'	88 sks
4 1/2"	3095.65'	3095.65'	150 sks

OPEN FLOW DATA * WATERFLOOD INJECTOR

Producing formation Gordon Pay zone depth (ft) 2896'-2910'
 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

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure _____ psig (surface pressure) _____ after _____ Hours

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

For: EAST RESOURCES, INC.

By: _____

Date: 10/13/09

Treatment : Treated perms (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) Wetzels (Check All)

Enter Permit #: 2505

Get Data Reset

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

- [Table Descriptions](#)
- [County Code Translations](#)
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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	Wetzels	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	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4710302505	9/18/2009	Original Loc	Completed	Lloyd Prine	15		McCoy Hrs		East Resources et al	East Resources, Inc.	3075	Gordon	
4710302505	3/1/2013	Worked Over	Completed	Lloyd Prine	15		Mccoy Heirs			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	TMD	NEW_FTG	KOD	G_BEF	G	
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_OPERATOR	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

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 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 30 Sec.

Longitude: 6,625 Feet west of 80 Deg 40 Min 0 Sec.

Company: H G Energy LLC
5260 Dupont Rd
Parkersburg, WV 26101

Table with 4 columns: Casing Tubing Size, Used in Drilling, Left in Well, Cement Fill Up Cu. Ft. Rows include 7" and 4 1/2" casing sizes.

Agent: Michael Kirsch

Inspector: DEREK HAUGHT

Permit Issued: 05/24/12

Well work Commenced: 02/25/13

Well work Completed: 03/01/13

Verbal plugging permission granted on:

Rotary X Cable Rig

Total Depth (feet) 3170'

Fresh water depths (ft) N/A

Salt water depths (ft) 2200'

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

Coal Depths (ft): NA

OPEN FLOW DATA

* WATERFLOOD INJECTOR

Producing formation Gordon Pay zone depth 2903'-2918', 2931'-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

Static rock pressure psig (surface pressure) after Hours

Second producing formation Pay zone depth (ft)

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

Final open flow MCF/d Final open flow Bbl/d

Time of open flow between initial and final tests Hours

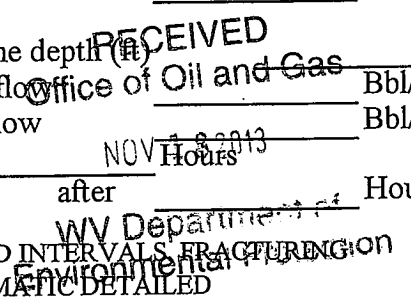
Static rock pressure psig (surface pressure) after Hours

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

For: HG Energy LLC

By:

Date: 11/13/13



Treatment :

Treated perms (2903'-2918', 2931'-2934') w/ 250 gals. 15% HCl acid,
339 bbls cross linked gel, and 17,000 # 20/40 sand.

CONVERTED TO WATER INJECTIONWell 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

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

COPY

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 30 Sec.

Longitude: 6,625 Feet west of 80 Deg 40 Min 0 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: DAVID SCRANAGE

Permit Issued: 08/13/09

Well work Commenced: 08/27/09

Well work Completed: 09/18/09

Verbal plugging

permission granted on:

Rotary X Cable _____ Rig _____

Total Depth (feet) 3170'

Fresh water depths (ft) N/A

Salt water depths (ft) 2200'

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

Coal Depths (ft): NA

Casing Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	901'	901'	225 sks
1 1/2"	3121.15'	3121.15'	150 sks

RECEIVED

Office of Oil & Gas

MAY 07 2012

WV Department of Environmental Protection

OPEN FLOW DATA

* WATER FLOOD INJECTOR

Producing formation Gordon Pay zone depth 2903'-2918', 2931'-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
 Static rock pressure _____ psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure _____ psig (surface pressure) after _____ Hours

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

For: EAST RESOURCES, INC.

By: _____

Date: 4/15/10

Treatment :

Treated perms (2903'-2918', 2931'-2934') w/ 250 gals. 15% HCl acid,
339 bbls cross linked gel, and 17,000 # 20/40 sand.

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