

JUL 28 2020

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

RECEIVED  
Office of Oil and Gas

API 47-051 - 02152 County Marshall District Franklin  
Quad Powhatan Point 7.5' Pad Name Woodford Field/Pool Name  
Farm name CNX RCPC, LLC Well Number Woodford 10HU  
Operator (as registered with the OOG) Tug Hill Operating, LLC  
Address 380 Southpointe Boulevard, Plaza II, Suite 200 City Canonsburg State PA Zip 15317

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4,406,054.25 Easting 516,098.08  
Landing Point of Curve Northing 4,405,770.63 Easting 517,168.24  
Bottom Hole Northing 4,402,969.79 Easting 518,781.12

Elevation (ft) 1237.72' 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)  
SOBM; Base oil, osmotic inhibitor, weighting agent, viscosifier, emulsifier, hardness buffer, fluid loss additive, LCM,  
Shale inhibitor, de-foamer, soaping agent, coagulant, flocculant; specific additives per WSSP and Permit.

Date permit issued 3/11/2019 Date drilling commenced 6/29/2019 Date drilling ceased 10/21/2019  
Date completion activities began 1/6/2020 Date completion activities ceased 1/26/2020  
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

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

Freshwater depth(s) ft 838' Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 1595' Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 734-740', 832-838' Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

Reviewed by:  
*Jessie Mulheisen*  
8/17/2020

API 47-051 - 02152 Farm name CNX RCPC, LLC Well number Woodford 10HU

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	36"	30"	120'	NEW	94.5#	N/A	Y
Surface	26"	20"	943'	NEW	106.5#	N/A	Y
Coal							
Intermediate 1	17 1/2"	13 3/8"	2,865'	NEW	54.5#	N/A	Y
Intermediate 2	12 1/4"	9 5/8"	10,490'	NEW	47#	N/A	Y
Intermediate 3							
Production	8 3/4"	5 1/2"	22,653'	NEW	20#	N/A	Y
Tubing		2 7/8"	11,327'	NEW	4.7#	N/A	
Packer type and depth set							

Comment Details

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MID)	WOC (hrs)
Conductor	A		15.6	1.19		0	8
Surface	A	1642	15.6	1.19	1983	0	8
Coal						0	8
Intermediate 1	A	1940	15.6	1.19	2555	0	8
Intermediate 2	A	3568	14.5	1.19	4157	0	8
Intermediate 3							
Production	A	4274	14.5	1.17	4714	0	8
Tubing							

Drillers TD (ft) 22,680' Loggers TD (ft) n/a  
 Deepest formation penetrated Trenton Plug back to (ft) n/a  
 Plug back procedure n/a

Kick off depth (ft) 10,108'

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 3 centralizers on surface casing at equal distance.  
Intermediate - 1 centralizer every other joint.  
Production - one centralizer every other joint in lateral, one centralizer every joint through curve, one centralizer every other joint to surface.

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

API 47-051 - 02152 Farm name CNX RCPC, LLC Well number Woodford 10HU

### PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	see attached				

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 (bbbls)	Amount of Nitrogen/other (units)
	attached							

Please insert additional pages as applicable.

API 47- 051 - 02152 Farm name CNX RCPC, LLC Well number Woodford 10HU

PRODUCING FORMATION(S)

DEPTHS

POINT PLEASANT 10994' - 11086' TVD 11724' - 18860' MD

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow  Flow  Pump  
 SHUT-IN PRESSURE Surface 8000 psi Bottom Hole psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 500 mcfpd 0 bpd Oil 0 bpd NGL 0 bpd Water 550 bpd GAS MEASURED BY  Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION	TOP		BOTTOM		DEPTH IN FT		DEPTH IN FT		DEPTH IN FT		DEPTH IN FT		DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
	NAME	TVD	TVD	MD	MD	MD	MD	MD	MD	MD	MD	MD	
see attached	0			0									

Please insert additional pages as applicable.

Drilling Contractor Nabors Drilling USA  
 Address 505 West Greens Road, Suite 1000 City Houston State TX Zip 77067

Logging Company n/a  
 Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Cementing Company Halliburton Energy Services, Inc.  
 Address 121 Champion Way, Suite 200 City Canonsburg State PA Zip 15317

Stimulating Company PRO-FRAC  
 Address 333 Shops Boulevard City Willow Park State TX Zip 76087

Please insert additional pages as applicable.

Completed by Amy L. Miller Telephone 304-376-0111  
 Signature Amy L. Miller Title Permitting Specialist Date 7/17/2020

**WOODFORD 10HU  
LITHOLOGY INFORMATION**

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
Maxton	2144	2232	2145	2233	Sandstone
Big Lime	2232	2274	2233	2275	Limestone
Big Injun	2274	2620	2275	2621	Sandstone
Weir	2620	2746	2621	2747	Sandstone
Berea	2746	2969	2747	2970	Sandstone
Gordon	2969	3016	2970	3017	Sandstone
Fifty Foot	3016	3576	3017	3580	Sandstone
Speechley	3576	4948	3580	5048	Sandstone
Benson	4948	5317	5048	5452	Sandstone
Alexander	5317	5938	5452	6136	Siltstone
Rhinestreet	5938	6295	6136	6526	Black shale
Middlesex	6295	6319	6526	6552	Black shale
Geneseo/Burkett	6319	6404	6552	6646	Black shale
Tully	6404	6429	6646	6673	Limestone
Hamilton	6429	6465	6673	6713	Grey shale
Marcellus	6465	6519	6713	6773	Black shale
Onondaga	6519	6741	6773	7018	Limestone
Oriskany	6741	6840	7018	7125	Sandstone
Heiderberg	6840	7193	7125	7510	Limestone
Salina	7193	8194	7510	8609	Salt/Anhydrite/LS
Lockport	8194	8553	8609	9000	Dolomite
Rose Hill	8553	8812	9000	9286	Shale
Packer Shell	8812	9008	9286	9503	Limestone
Clinton/Tuscarora	9008	9110	9503	9616	Sandstone
Junata/Queenston	9110	9865	9616	10440	Red Shale
Reedsville	9865	10737	10440	11430	Grey Shale
Utica	10737	10990	11430	11816	Black Shale
Point Pleasant	10990	-	11816	-	Shale/Limestone

**Woodford 10HU  
PERFORATION RECORD**

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD. Ft.	Number of Perforations	Formation(s)
1	1/6/2020	22262	22415	48	Utica
2	1/7/2020	22061	22214	48	Utica
3	1/8/2020	21859	22012	48	Utica
4	1/8/2020	21658	21811	48	Utica
5	1/8/2020	21457	21610	48	Utica
6	1/9/2020	21256	21409	48	Utica
7	1/10/2020	21054	21207	48	Utica
8	1/10/2020	20853	21006	48	Utica
9	1/10/2020	20652	20805	48	Utica
10	1/11/2020	20450	20603	48	Utica
11	1/11/2020	20249	20402	48	Utica
12	1/11/2020	20048	20201	48	Utica
13	1/12/2020	19846	19999	48	Utica
14	1/12/2020	19645	19798	48	Utica
15	1/12/2020	19444	19597	48	Utica
16	1/12/2020	19243	19396	48	Utica
17	1/13/2020	19041	19194	48	Utica
18	1/13/2020	18840	18993	48	Utica
19	1/13/2020	18639	18792	48	Utica
20	1/13/2020	18437	18590	48	Utica
21	1/15/2020	18236	18389	48	Utica
22	1/15/2020	18035	18188	48	Utica
23	1/16/2020	17833	17986	48	Utica
24	1/17/2020	17632	17785	48	Utica
25	1/18/2020	17431	17584	48	Utica
26	1/18/2020	17230	17382	48	Utica
27	1/18/2020	17028	17181	48	Utica
28	1/19/2020	16827	16980	48	Utica
29	1/19/2020	16626	16779	48	Utica
30	1/19/2020	16424	16577	48	Utica
31	1/20/2020	16223	16376	48	Utica
32	1/20/2020	16022	16175	48	Utica
33	1/20/2020	15820	15973	48	Utica
34	1/21/2020	15619	15772	48	Utica
35	1/21/2020	15418	15571	48	Utica
36	1/21/2020	15217	15369	48	Utica
37	1/22/2020	15015	15168	48	Utica
38	1/22/2020	14814	14967	48	Utica
39	1/22/2020	14613	14766	48	Utica
40	1/23/2020	14411	14564	48	Utica
41	1/23/2020	14210	14363	48	Utica

42	1/24/2020	14009	14162	48	Utica
43	1/24/2020	13807	13960	48	Utica
44	1/24/2020	13606	13759	48	Utica
45	1/25/2020	13405	13558	48	Utica
46	1/25/2020	13204	13356	48	Utica
47	1/25/2020	13002	13155	48	Utica
48	1/25/2020	12801	12954	48	Utica
49	1/26/2020	12600	12753	48	Utica
50	1/26/2020	12398	12551	48	Utica
51	1/26/2020	12197	12350	48	Utica
52	1/26/2020	11996	12149	48	Utica

**Woodford 10HU  
STIMULATION INFORMATION PER STAGE**

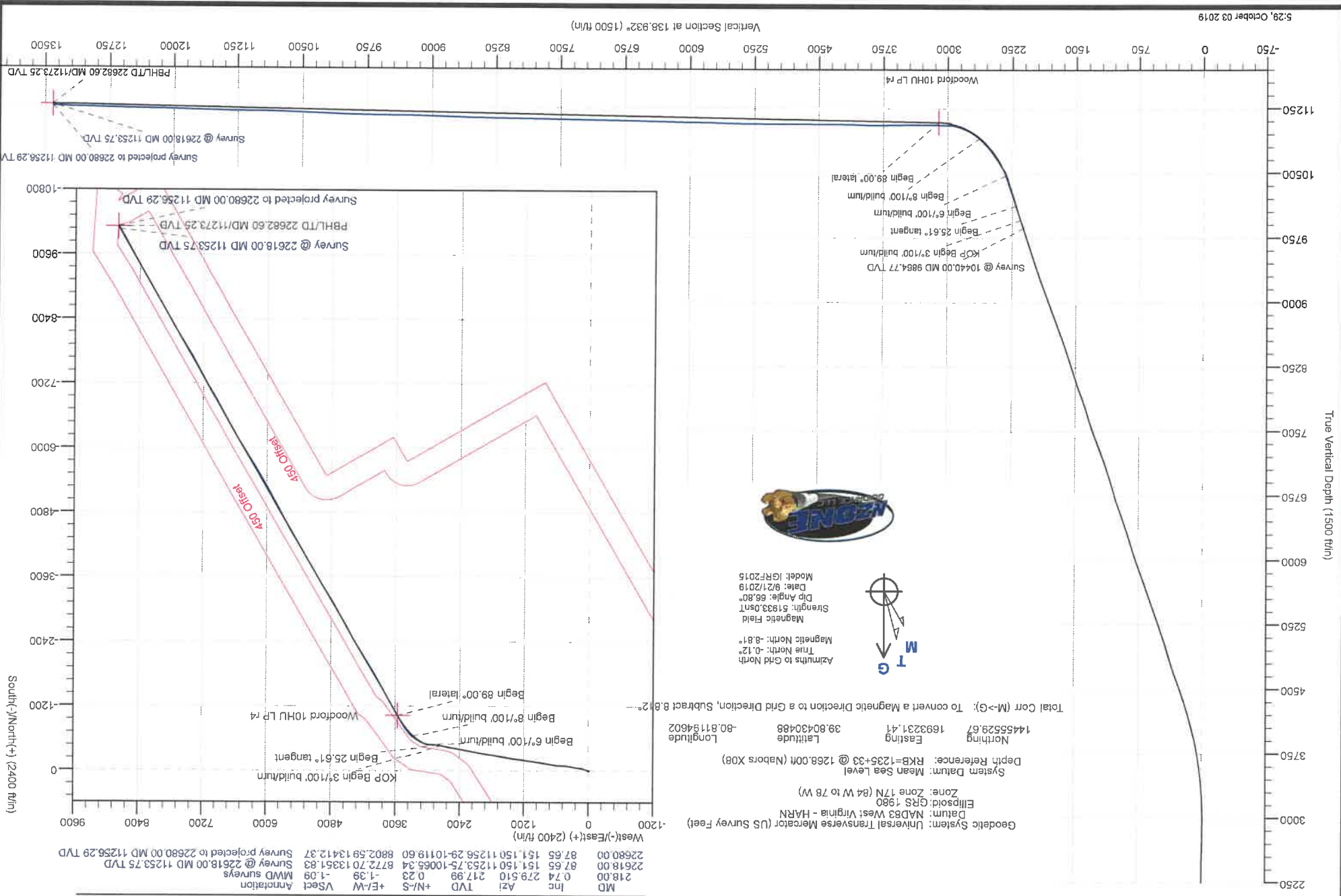
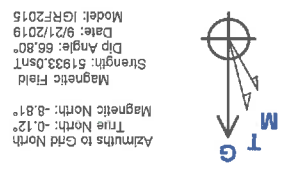
Stage No.	Ave. Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbbls)	Amount of Nitrogen/other (units)
1	82	11745	9314	7237	473459	10618	0
2	89.4	11790	9545	7445	501440	10285	0
3	90.1	11556	8503	7447	498580	10672	0
4	87.7	11426	8749	7363	507400	0	0
5	90	11821	9314	7789	495140	10121	0
6	79.6	11640	8564	7462	501840	10251	0
7	83.8	12002	8483	7126	502860	10246	0
8	83.6	11908	8765	7191	496780	10048	0
9	87.1	11791	8526	7992	501120	10037	0
10	89.5	11457	8780	7752	504860	10186	0
11	89.5	11372	8411	7639	500740	10150	0
12	89.9	11295	8434	8166	504100	10201	0
13	89.5	11303	8751	8262	502200	10252	0
14	90	11581	8473	7643	501500	10055	0
15	90.3	11368	8182	8343	507240	9953	0
16	89.8	11459	8219	8201	499020	10163	0
17	91	11621	8350	7943	502880	9994	0
18	90.6	11414	8613	7991	500420	9971	0
19	90	11527	8597	8457	490420	11028	0
20	90.8	11657	8646	8771	500460	10110	0
21	90.7	11336	8485	8472	499840	10160	0
22	89.9	11773	9737	8514	495320	10056	0
23	89.5	11720	8945	8365	499740	9933	0
24	87.4	11391	8944	8367	500240	10324	0
25	90.4	11422	9197	8550	515880	10259	0
26	90.3	10906	9851	8010	506220	10146	0
27	89.8	11390	9368	8151	503500	10137	0
28	90.2	11431	9716	8029	501980	10980	0
29	90.4	11493	9231	8403	504540	10174	0



30	88.5	11204	9059	8089	499780	10419	0
31	89.7	10856	8742	7747	500820	10073	0
32	90.1	10790	8549	7901	503320	10101	0
33	88.3	10518	8426	7503	505560	10609	0
34	89.5	10587	9154	7641	507280	10154	0
35	90.2	10452	8033	8127	508460	9963	0
36	87.8	10300	8143	7570	505900	10309	0
37	90	10364	7944	8369	512120	10122	0
38	90.1	10222	8043	7595	506360	10227	0
39	90.4	10428	8001	8386	503640	10124	0
40	90.4	10460	8008	7837	500920	10142	0
41	89.8	10250	7776	7638	508120	10267	0
42	89.8	10243	8171	7963	504480	10115	0
43	90.2	10557	7783	7668	505280	9850	0
44	89.2	11342	7990	7162	500580	9942	0
45	90.1	10559	8395	7875	504628	11178	0
46	90.3	10262	8736	8120	505960	9866	0
47	90.2	10426	8388	7875	505320	10008	0
48	88.4	10055	7863	7913	495380	10162	0
49	90	10219	8103	7819	502580	10224	0
50	90.5	10265	7608	7798	501660	9910	0
51	90.3	10267	10093	7507	501060	10023	0
52	90.3	10004	9754	7476	500120	10078	0

**Well:** Woodford 10HU (J)  
**Site:** Woodford  
**Project:** Marshall County, West Virginia  
**Design:** rev4  
**Rig:** Nabors X08

Geodetic System: Universal Transverse Mercator (US Survey Feet)  
 Datum: NAD83 West Virginia - HARN  
 Ellipsoid: GRS 1980  
 Zone: Zone 17N (84 W to 78 W)  
 System Datum: Mean Sea Level  
 Depth Reference: RKB=1235+33 @ 1268.00ft (Nabors X08)  
 Northing 1445529.67  
 Easting 1693231.41  
 Latitude 39.80430488  
 Longitude -80.81154602  
 Total Corr (M->G): To convert a Magnetic Direction to a Grid Direction, Subtract 8.812°



**SECTION DETAILS**

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Annotation
1	10440.00	105.270	9864.77	-446.83	2715.46	0.00	Survey @ 10440.00 MD 9864.77 TVD
2	10540.00	105.270	9957.13	-456.93	2752.44	0.00	KOP Begin 3 1/100' build/turn
3	110719.56	94.386	10121.14	-468.97	2824.39	3.00	Begin 25.61' tangent
4	11107.40	25.61	94.386	10470.87	-481.79	0.00	Begin 6 1/100' build/turn
5	11658.76	50.00	133.130	10908.91	-639.69	6.00	Begin 8 1/100' build/turn
6	12182.65	89.00	150.001	11090.00	-1020.84	8.00	Begin 89.00' lateral
7	22682.60	89.00	150.001	11273.25	-10112.73	0.00	PBHLTD 22682.60 MD/11273.25 TVD
8	22680.00	87.65	151.150	11256.29	-10119.60	8802.59	Survey projected to 22680.00 MD 11256.29 TVD
9	22618.00	87.65	151.150	11253.75	-10065.34	8772.70	Survey @ 22618.00 MD 11253.75 TVD
10	218.00	0.74	279.510	217.99	0.23	-1.39	MVD surveys

**ANNOTATIONS SURVEYS**

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Annotation
1	10440.00	105.270	9864.77	-446.83	2715.46	0.00	Survey @ 10440.00 MD 9864.77 TVD
2	10540.00	105.270	9957.13	-456.93	2752.44	0.00	KOP Begin 3 1/100' build/turn
3	110719.56	94.386	10121.14	-468.97	2824.39	3.00	Begin 25.61' tangent
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7	22682.60	89.00	150.001	11273.25	-10112.73	0.00	PBHLTD 22682.60 MD/11273.25 TVD



Survey Report - Geographic



**Company:** Tug Hill Operating LLC  
**Project:** Marshall County, West Virginia  
**Site:** Woodford  
**Well:** Woodford 10HU (J)  
**Wellbore:** Original Hole  
**Design:** Surveys Original Hole

**Local Co-ordinate Reference:**  
**TVD Reference:** Well Woodford 10HU (J)  
**MD Reference:** RKB=1235+33 @ 1268.00ft (Nabors X08)  
**North Reference:** RKB=1235+33 @ 1268.00ft (Nabors X08)  
**Survey Calculation Method:** Grid  
**Database:** Minimum Curvature  
 DB\_Aug1919\_v14

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/S (ft)	+E/W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
19,353.00	86.73	150.100	11,171.81	-7,237.91	7,143.06	14,448,291.78	1,700,374.46	39.78438366	-80.78657383
19,448.00	87.74	150.620	11,176.39	-7,320.38	7,189.99	14,448,209.31	1,700,421.38	39.78415686	-80.78640750
19,542.00	87.08	150.360	11,180.64	-7,402.10	7,236.24	14,448,127.56	1,700,467.64	39.78393213	-80.78624354
19,637.00	88.18	150.620	11,184.57	-7,484.70	7,283.00	14,448,044.98	1,700,514.39	39.78370497	-80.78607782
19,732.00	87.60	150.450	11,188.06	-7,567.36	7,329.70	14,447,962.33	1,700,561.09	39.78347767	-80.78591230
19,826.00	88.53	150.800	11,191.24	-7,649.22	7,375.78	14,447,880.46	1,700,607.17	39.78325254	-80.78574897
19,921.00	88.13	149.630	11,194.01	-7,731.72	7,422.81	14,447,797.96	1,700,654.20	39.78302567	-80.78558228
20,016.00	88.70	148.690	11,196.63	-7,813.34	7,471.34	14,447,716.34	1,700,702.74	39.78280121	-80.78541020
20,110.00	89.27	148.430	11,198.30	-7,893.53	7,520.37	14,447,636.16	1,700,751.76	39.78258067	-80.78523639
20,205.00	89.71	148.690	11,199.15	-7,974.58	7,569.92	14,447,555.11	1,700,801.31	39.78235776	-80.78506071
20,299.00	89.45	148.600	11,199.83	-8,054.85	7,618.83	14,447,474.84	1,700,850.22	39.78213699	-80.78487730
20,394.00	88.75	148.340	11,201.33	-8,135.81	7,668.50	14,447,393.87	1,700,899.89	39.78191432	-80.78471118
20,488.00	89.67	149.130	11,202.62	-8,216.15	7,717.28	14,447,313.54	1,700,948.67	39.78169336	-80.78453824
20,583.00	89.19	149.220	11,203.57	-8,297.73	7,765.96	14,447,231.96	1,700,997.35	39.78146901	-80.78436568
20,678.00	88.88	149.040	11,205.17	-8,379.26	7,814.70	14,447,150.43	1,701,046.09	39.78124478	-80.78419290
20,772.00	88.40	150.970	11,207.40	-8,460.64	7,861.67	14,447,069.05	1,701,093.07	39.78102097	-80.78402639
20,867.00	87.87	151.060	11,210.49	-8,543.70	7,907.68	14,446,985.99	1,701,139.08	39.78079257	-80.78386333
20,961.00	88.44	150.620	11,213.52	-8,625.74	7,953.43	14,446,903.95	1,701,184.85	39.78056695	-80.78370110
21,056.00	87.74	150.530	11,216.68	-8,708.44	8,000.11	14,446,821.25	1,701,231.50	39.78033953	-80.78353578
21,151.00	86.31	150.710	11,219.96	-8,791.17	8,046.69	14,446,738.52	1,701,278.08	39.78011201	-80.78337070
21,245.00	88.62	149.660	11,222.48	-8,872.70	8,093.41	14,446,656.99	1,701,324.80	39.77988781	-80.78320511
21,340.00	88.88	150.360	11,224.55	-8,954.96	8,140.88	14,446,574.73	1,701,372.27	39.77966158	-80.78303684
21,434.00	89.45	150.710	11,225.92	-9,036.79	8,187.11	14,446,492.90	1,701,418.50	39.77943654	-80.78287299
21,529.00	89.05	150.270	11,227.16	-9,119.46	8,233.90	14,446,410.23	1,701,465.29	39.77920920	-80.78270717
21,623.00	88.57	149.390	11,228.11	-9,200.71	8,281.13	14,446,328.98	1,701,512.52	39.77898576	-80.78253976
21,717.00	89.27	149.920	11,230.88	-9,281.81	8,328.61	14,446,247.87	1,701,560.01	39.77876270	-80.78237146
21,812.00	89.71	149.740	11,231.73	-9,363.94	8,376.35	14,446,165.75	1,701,607.75	39.77853663	-80.78220225
21,906.00	89.23	150.360	11,232.60	-9,445.38	8,423.28	14,446,084.30	1,701,654.67	39.77831285	-80.78203593
22,001.00	88.62	150.970	11,234.38	-9,528.19	8,469.81	14,446,001.50	1,701,701.21	39.77808514	-80.78187102
22,096.00	87.65	150.890	11,237.47	-9,611.17	8,515.95	14,445,918.51	1,701,747.34	39.77785693	-80.78170754
22,191.00	89.14	150.360	11,240.13	-9,693.92	8,562.53	14,445,835.76	1,701,793.92	39.77762936	-80.78154247
22,285.00	88.75	150.890	11,241.87	-9,775.82	8,608.63	14,445,753.86	1,701,840.02	39.77740413	-80.78137910
22,380.00	87.82	150.100	11,244.71	-9,858.47	8,655.39	14,445,671.22	1,701,886.79	39.77717686	-80.78121337
22,474.00	88.00	149.830	11,248.14	-9,939.79	8,702.41	14,445,589.90	1,701,933.80	39.77695321	-80.78104673
22,569.00	87.65	151.240	11,251.74	-10,022.44	8,749.11	14,445,507.25	1,701,980.50	39.77672592	-80.78089125
22,618.00	87.65	151.150	11,253.75	-10,065.34	8,772.70	14,445,464.35	1,702,004.09	39.77660794	-80.78079767
<b>Survey @ 22618.00 MD 11253.75 TVD</b>									
22,680.00	87.65	151.150	11,256.29	-10,119.60	8,802.59	14,445,410.09	1,702,033.98	39.77645873	-80.78069175
<b>Survey projected to 22680.00 MD 11256.29 TVD</b>									

Design Annotations	Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
			+N/S (ft)	+E/W (ft)	
	218.00	217.99	0.23	-1.39	MWD surveys
	22,618.00	11,253.75	-10,065.34	8,772.70	Survey @ 22618.00 MD 11253.75 TVD
	22,680.00	11,256.29	-10,119.60	8,802.59	Survey projected to 22680.00 MD 11256.29 TVD

## Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	1/6/2020
Job End Date:	1/26/2020
State:	West Virginia
County:	Marshall
API Number:	47-051-02152-00-00
Operator Name:	Tug Hill Operating, LLC
Well Name and Number:	Woodford 10HU
Latitude:	39.80430488
Longitude:	-80.81194602
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	11,158
Total Base Water Volume (gal):	22,283,259
Total Base Non Water Volume:	0

## Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Tug Hill Operating	Carrier/Base Fluid	Water	7732-18-5	100.00000	87.18619	None
Sand (40/70 White Proppant)	Profrac	Proppant	Silica Substrate	14808-60-7	100.00000	9.78121	None
Sand (100 Mesh Proppant)	Profrac	Proppant	Silica Substrate	14808-60-7	100.00000		
Hydrochloric Acid (7.5%)	PVS	Acidizing	Silica Substrate	14808-60-7	100.00000	2.46026	None
			Water	7732-18-5	85.00000	0.37297	None
			Hydrochloric Acid (Hydrogen Chloride)	7647-01-0	37.00000	0.16235	None
ProSlick 710	Nalco	Friction Reducer	Hydrochloric Acid (Hydrogen Chloride)	7647-01-0	37.00000		
			Distillate	64742-47-8	30.00000	0.02521	None
			Hydrochloric Acid (Hydrogen Chloride)	7647-01-0	37.00000		
			inorganic salt	PROPRIETARY	10.00000	0.00840	None
			Oxalkylated alcohol	PROPRIETARY	5.00000	0.00420	None
MC MX 9-4743	Multi-Chem	Bicide	Sodium Nitrate	7631-99-4	60.00000	0.02276	None



LD-7750W	Multi-Chem	Scale Inhibitor	Methanol	67-56-1	60.00000	0.00519	None
			Phosphonic Acid Salt	Proprietary	5.00000	0.00043	None
ProFE 105	Profrac	Iron Control					
			Citric Acid	77-92-9	100.00000	0.00160	None
Prohib 100	Profrac	Acid Inhibitor	2-Propyn-1-ol compound w/ methylloxirane	38172-91-7	15.00000	0.00020	None
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
Other Chemical(s)	Listed Above	See Trade Name(s) List	Water	7732-18-5	85.00000	0.37297	
			inorganic salt	PROPRIETARY	10.00000	0.00840	
			Oxyalkylated alcohol	PROPRIETARY	5.00000	0.00420	
			Phosphonic Acid Salt	Proprietary	5.00000	0.00043	

\* Total Water Volume sources may include fresh water, produced water, and/or recycled water.  
\*\* Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.  
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

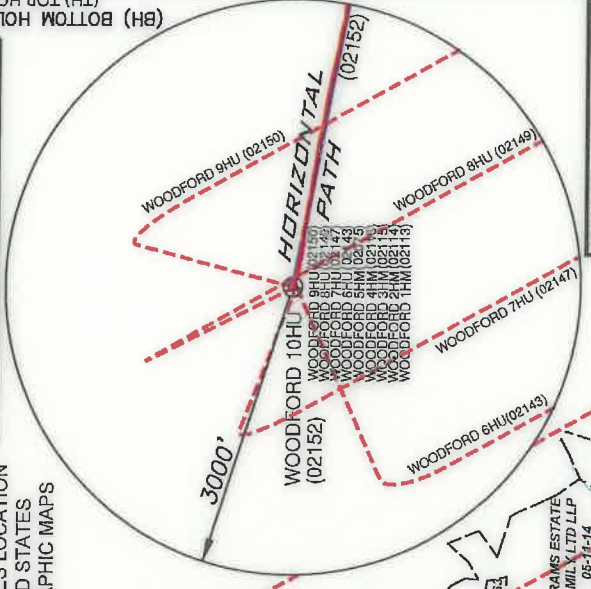
# WOODFORD LEASE WELL 10HU 636.4012± ACRES

TOP HOLE LATITUDE: 39°50'00"  
BOTTOM HOLE LATITUDE: 39°47'30"  
REFERENCES  
SCALE 1"=400'  
20" BLACK CHERRY  
WOODFORD 10HU  
18" SUGER MAPLE  
S 53°01' E  
333.9'

DETAIL SKETCH "A"  
SCALE 1"=100'  
WOODFORD 10HU (02152)  
WOODFORD 9HU (02149)  
WOODFORD 7HU (02147)  
WOODFORD 6HU (02143)  
WOODFORD 5HU (02141)  
WOODFORD 4HU (02139)  
WOODFORD 3HU (02137)  
WOODFORD 2HU (02135)  
WOODFORD 1HU (02133)

ASDRILLED LEG  
PERMITTED LEG

(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS



**SURFACE HOLE**  
UTM. NAD83, ZONE 17  
N) 4,406,054.25  
E) 516,098.08

**LANDING POINT 1**  
UTM. NAD83, ZONE 17  
N) 4,405,770.63  
E) 517,168.24

**BOTTOM HOLE**  
UTM. NAD83, ZONE 17  
N) 4,402,969.79  
E) 518,781.12

**LEGEND**  
- - - LEASED TRACTS  
- - - SURFACE TRACTS  
- - - WELL LATERAL  
- - - POINT PLEASANT LEGS  
- - - 400' BORE PATH OFFSET  
- - - 500' WELL BORE OFFSET  
- - - UNIT BOUNDARY  
A LEASE # (SEE 6A1 FORM)

CURVE	CHORD BEARING	CHORD LENGTH	RADIUS	ARC LENGTH
C1	S 72°03' E	132.96'	126.30'	133.02'
C2	S 89°03' E	213.44'	2530.00'	213.30'
C3	S 84°32' E	237.68'	1006.37'	238.25'
C4	S 79°27' E	2288.37'	4126.10'	2288.67'
C5	S 75°22' E	350.49'	492.51'	358.94'
C6	S 47°41' E	286.33'	674.75'	288.82'

**NOTES**  
1. BORE PATH BASED ON GRID NORTH.  
2. NO WATER WELLS WITHIN 250' OF WELL WERE FOUND. NO DWELLINGS WITHIN 625' OF PAD CENTER WERE FOUND.  
3. OWNERSHIP TAKEN FROM PUBLIC RECORDS OF MARSHALL COUNTY, WV IN MARCH, 2017.  
COORDINATES AND WELL TIES BASED UPON DIFFERENTIAL GPS MEASUREMENTS.  
4. WELL LOCATION REFERENCES ARE BASED UPON THE MAGNETIC MERIDIAN.  
5. ALL DEEP WELLS WITHIN 3,000' OF LATERAL ARE SHOWN ON THIS PLAT

LINE BEARING	DISTANCE
L1 N 14°07' W	1647.74'
L2 N 50°56' E	2329.68'
L3 S 32°02' E	228.12'

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION

*David Z Jackson*  
P.S. 708

JACKSON SURVEYING INC.  
P.O. Box 1460  
Clarksburg, WV 26302  
304-623-5851



FILE NUMBER \_\_\_\_\_  
DRAWING NUMBER WOODFORD\_10HU\_REV1  
SCALE 1" = 2000'  
MINIMUM DEGREE OF ACCURACY 1/200  
PROVEN SOURCE OF ELEVATION SUBMETER MAPPING  
GRADE GPS

WVDEP  
OFFICE OF OIL & GAS  
601 57TH STREET, SE  
CHARLESTON, WV 25304

DATE: JULY 27, 2020  
OPERATORS WELL NO. Woodford 10HU  
API WELL NO. 47-051-02152  
STATE COUNTY PERMIT

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL  
(IF "GAS") PRODUCTION X STORAGE DEEP X SHALLOW

LOCATION ELEVATION 1237.72' WATERSHED (HUC 10) FRENCH CREEK - OHIO RIVER  
DISTRICT FRANKLIN COUNTY MARSHALL  
QUADRANGLE POWHATAN POINT 7.5' LEASE NUMBER SEE WW-6A1 Form  
SURFACE OWNER CNX LAND, LLC ACREAGE 155.7119  
OIL & GAS ROYALTY OWNER COLUMBIAN CHEMICALS COMPANY LEASE ACREAGE 636.4012  
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORMATE NEW FORMATION OTHER PHYSICAL CHANGE (SPECIFY) ASDRILLED

TARGET FORMATION POINT PLEASANT  
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER  
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5400 D BIG TYLER ROAD  
FORT WORTH, TX 76107 CHARLESTON, WV 25313

PERMIT  
PLUG & ABANDON CLEAN OUT & REPLUG  
ESTIMATED DEPTH TVD: 11,256' TMD: 22,680'

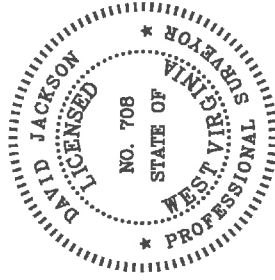
**WOODFORD LEASE  
WELL 10HU  
636.4012± ACRES**

LEASE NO.	TAGS	PARCEL	OIL & GAS ROYALTY OWNER	DEED BOOK	PAGE
0M112	A	5-7-43	COLUMBIAN CHEMICALS COMPANY	681	363
0M112	B	5-12-2	COLUMBIAN CHEMICALS COMPANY	691	363
10*24568	C	5-12-8	MARK A. JOHNSON ET UX	1020	195
10*24577	C	5-12-8	MICHAEL POWDERLY	1025	287
10*23896	C	5-12-8	LYNN A. YATES & WALTER R. YATES		
10*18827	C	5-12-8	MOLLY MCMAHON AND JOHN D. MCMAHON	1017	489
10*18835	C	5-12-8	FRAN ESCHOLL	937	626
10*18968	C	5-12-8	REBECCA LYNN KIER AND ERIC JAMES KIER	937	405
10*18968	C	5-12-8	E SHEILA PAVLOVICH	940	291
10*18969	C	5-12-8	JEANNE MARIE VAN GROLAND RICHARD ARTHUR VAN GROL	941	289
10*19500	C	5-12-8	JAMES CONTRERAS AND CATHERINE CONTRERAS	942	608
10*19825	C	5-12-8	THOMAS A POWDERLY	945	639
10*19826	C	5-12-8	TERRANCEV POWDERLY SR	945	637
10*19827	C	5-12-8	CORINNE E VERNA AND JONATHAN C VERNA SR	945	635
10*19828	C	5-12-8	ANNE M AND JOHN LEACH	945	633
10*19829	C	5-12-8	MARGARET J WHITFORD AND LANCE W WHITFORD	945	631
10*19830	C	5-12-8	DAVID POWDERLY AND NANCY A POWDERLY	945	629
10*21002	C	5-12-8	STANLEY EUGENE STOWE	951	215
10*21045	C	5-12-8	SANDRA J HARMON AND WALTER D HARMON	951	217
10*21190	C	5-12-8	MARGARET CLICKNER	941	283
10*21223	C	5-12-8	EUGENE C GRIEB AND SHIRLEY K GRIEB	961	468
10*21607	C	5-12-8	SHERLEY R STOWE & KAREN M STOWE	959	474
10*21924	C	5-12-8	BEVERLY A MILLER	953	533
10*21926	C	5-12-8	VIOLA JANE BREON AND JAMES RONALD BREON	953	360
10*21929	C	5-12-8	BENNY MILLER	960	177
10*21930	C	5-12-8	JAMES A GRENOBLE AND MARY JANE GRENOBLE	953	263
10*21936	C	5-12-8	SEAN M GRENOBLE AND CHERYL A GRENOBLE	960	91
10*21939	C	5-12-8	LIA F NELSON	960	96
10*22051	C	5-12-8	NOEL A PARKS	960	509
10*22209	C	5-12-8	JARON D LITMAN AND BETTY J LITMAN	963	408
10*22311	C	5-12-8	WILLIAM LITMAN AND VICKIE L LITMAN	963	404
10*22312	C	5-12-8	RICHARD WOOD AND VICKI WOOD	962	528
10*22349	C	5-12-8	ANITA RAE MILLER	910	152
10*22408	C	5-12-8	REBECCA S TAIR	962	578
10*22548	C	5-12-8	SHARON TOLER WILLIAMS & HERVY WILLIAMS	966	194
10*22604	C	5-12-8	WILLIAM LEESON	966	499
10*22605	C	5-12-8	MICHAEL R LEESON AND BRENDA R LEESON	966	486
10*22744	C	5-12-8	BRIDGET A POWDERLY	968	206
10*22858	C	5-12-8	THOMAS C DAVIS AND MARY ELLEN DAVIS	977	63
10*23004	C	5-12-8	KLOVA A MORRIS	977	382
0M83768001	C	5-12-8	SANDRA WINSLOW	831	54
0M83768002	C	5-12-8	KERMIT REED HUBBS ET UX	831	163
0M83768003	C	5-12-8	DOUGLAS G DERRROW	831	165
0M83768004	C	5-12-8	FERN A PICKENPAUGH	831	167
0M83768005	C	5-12-8	JEAN GAUTHIER	832	228
0M83768006	C	5-12-8	SONDRA SUE RULONG ET VIR	832	230
0M83768007	C	5-12-8	VERA SHIRLENE WORKMAN ET VIR	832	232
0M83768008	C	5-12-8	CHA RLOTTE A MERSEUS ET VIR	833	14
0M83768009	C	5-12-8	PHYLLIS JEAN OSTRANDER	833	472
0M83768010	C	5-12-8	JAMES A KOLL	832	594
0M83768011	C	5-12-8	MICHAEL W DERRROW	833	464
0M83768012	C	5-12-8	WILLIAM L WILLIAMS ET UX	833	574
0M83768013	C	5-12-8	KELLY KERN	863	189
0M83768014	C	5-12-8	SHIRLEY GBUR	863	191
0M83768015	C	5-12-8	NORMAN E DERRROW ET UX	832	580
0M83768016	C	5-12-8	BETTY JUNE CAMPBELL ET VIR	834	632
0M83768017	C	5-12-8	LAMONYE S BAKER	834	634
0M83768018	C	5-12-8	HONIUS ADAIR STOLLAR	836	36
0M83768019	C	5-12-8	MARTHA J JAMISON ET VIR	836	38
0M83768020	C	5-12-8	SARA BRADLEY	839	206
0M83768021	C	5-12-8	MARY S FOGLESONG ET VIR	837	352
0M83768024	C	5-12-8	JIMMIE WILLIAMS ET UX	837	143
0M83768025	C	5-12-8	JUDY ANN MCCHESEY ET VIR	840	291
0M83768027	C	5-12-8	PENNY S SCHAUER ET VIR	842	7
0M83768028	C	5-12-8	TRACI L WILLIAMS	842	9
0M83768029	C	5-12-8	STEVEN S DERRROW	842	24
0M83768030	C	5-12-8	MARY E VOITZ ET VIR	841	82
0M83768031	C	5-12-8	ELLIOTT L THRASHER II ET UX	842	510
0M83768032	C	5-12-8	JACK M FOREMAN	844	131
0M83768033	C	5-12-8	DOUGLAS E MILLER	844	570
0M83768034	C	5-12-8	REVA J TICARD ET VIR	844	526
0M83768035	C	5-12-8	JULIE SPRINGWATER	850	491
0M83768036	C	5-12-8	JULIE SPRINGWATER	850	499
0M83768038	C	5-12-8	JACK M FOREMAN	850	508
0M83768037	C	5-12-8	ANITA M MASON	851	5
0M83768038	C	5-12-8	BONNIE H GRISELLET VIR	850	646
0M83768039	C	5-12-8	MARY ELIZABETH VOITZ ET VIR	850	648
0M83768040	C	5-12-8	SCOTT C HARRIS ET UX	851	394
0M83768041	C	5-12-8	JACK M FOREMAN	854	178
0M83768042	C	5-12-8	JACQUELYN JOHNSON ET VIR	860	523
0M83768043	C	5-12-8	ROY JOSEPH LEACH	859	487
0M83768044	C	5-12-8	LESLIE ANN BYTHE ET VIR	860	535
0M83768045	C	5-12-8	MURIEL ANNE MILLER ET VIR	860	545
0M83768046	C	5-12-8	GREGORY S MILLER ET UX	860	517
0M83768047	C	5-12-8	REBECCA L CULLEN ET VIR	860	558
0M83768048	C	5-12-8	FRANCES E RUTLEDGE ET VIR	860	513
0M83768049	C	5-12-8	LARRY DEAN MCWHORTER ET AL	860	529
0M83768050	C	5-12-8	LEROY MILLER	860	532
0M83768051	C	5-12-8	DAVID LEE EVANS JR ET UX	864	187
0M83768052	C	5-12-8	STEVEN POND ET UX	860	574
0M83768053	C	5-12-8	JIAN RIPP HAGEMANN	860	520
0M83768054	C	5-12-8	MELISSA MILLER GIBSON ET VIR	869	100
0M83768055	C	5-12-8	HEATHER D MALO ET VIR	866	336
0M83768056	C	5-12-8	RODNEY F PETERSON	866	342
0M83768057	C	5-12-8	PRISCILLA ANN MILLER HADEN	873	543
0M83768058	C	5-12-8	DANIEL D HOBBS ET UX	873	543
0M83768059	C	5-12-8	PICHARD S MULLEN ET UX	869	98
0M83768060	C	5-12-8	JAMES B CROW ET UX	869	108
0M83768061	C	5-12-8	GREGORY S CROW	869	106

**SURFACE HOLE**  
UTM. NAD83, ZONE 17  
IN METERS  
N) 4,406,054.25  
E) 516,097.97

**LANDING POINT 1**  
UTM. NAD83, ZONE 17  
IN METERS  
N) 4,405,743.10  
E) 517,183.87

**BOTTOM HOLE**  
UTM. NAD83, ZONE 17  
IN METERS  
N) 4,402,971.90  
E) 518,783.82



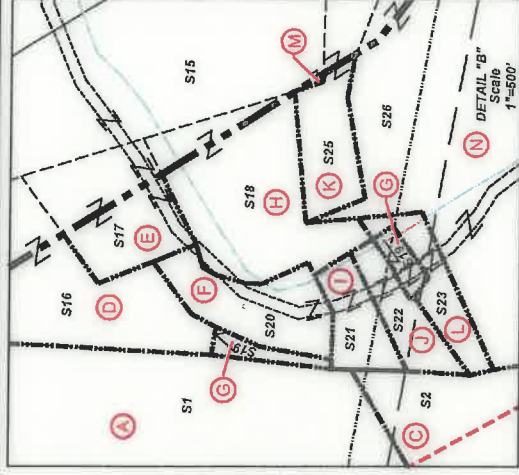
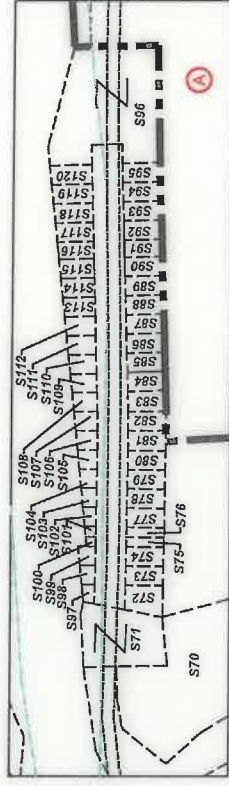
P.S.  
708  
*David L Jackson*



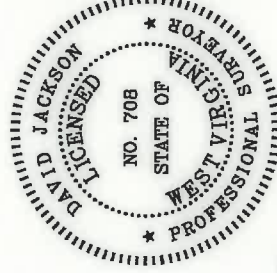
**TUG HILL**  
**OPERATING**

OPERATOR'S  
WELL #: Woodford 10HU  
DISTRICT: Franklin  
COUNTY: Marshall  
STATE: WV  
API# 47-051-02152

**WOODFORD LEASE  
WELL 10HU  
636.4012± ACRES**



Number	TAX MAP-PARCEL	SURFACE OWNER	ACRES
S1 (A)	05-07-43	CNX LAND, LLC	155.7119
S2 (C)	05-12-08	Amita Roe Miller (Life) Consolidation Coal Co./ Murray Energy	100.35
S3 (Q)	05-12-10		13.76
S4 (R)	05-12-12.1	Lionel L. Persinger, Et Ux.	148.09
S5 (S)	05-12-12	Lionel L. Persinger, Et Ux.	45
S6 (Y)	05-11-15	Lionel L. Persinger, Et Ux.	93
S7 (A)	05-15-01	Marcus Sharp & David Schlabbach, Hrs.	121
S8	05-7B-49	Caasidy Rain Carpenter	1.1441
S9	05-7B-48	Caasidy Rain Carpenter	1.325
S10	05-07-43.3	M. Frank Mason	0.327
S11	05-07-43.2	M. Frank Mason	1.36
S12	05-07-38	John K. Persinger, Et Ux.	2.65
S13	05-07-36	John Persinger	4.329
S14	05-07-35	Samuel L. Persinger	10.708
S15 (M)	05-07-39	Lionel L. Persinger, et ux Holly Rice	57
S16 (D)	05-07-42.1		5.99
S17 (E)	05-07-41	James A. Wade	1
S18 (H)	05-07-42.5	Matthew V. Conner, et al	3.791
S19 (G)	05-07-42	Tracy M. Kesterson	0.54
S20 (F)	05-07-44	Crystal B. Darrah	1.726
S21 (I)	05-07-42.2	Steven & Rhonda Lloyd	0.85
S22 (J)	05-07-42.3	Joshua David Hartley	0.87
S23 (L)	05-07-42.4	Lionel & Mary Lee Persinger	0.94
S24	05-07-33	William N. Roupe	24.60
S25 (K)	05-12-09	Lionel & Mary Lee Persinger	10.15
S26 (N)	05-12-10.1	Consolidation Coal Co./ Murray Energy	38.48
S27 (O)	05-11-1.4	Larry W. Dunlap, et al	32.493
S28 (P)	05-11-1.1	Larry W. Dunlap & Charles Leroy, et al	34.405
S29 (T)	05-11-21	Karen Reed, et al	112.67
S30 (U)	05-12-11	Wesley B. Bryan & Wesley R. Bryan II	52.478
S31 (Z)	05-15-04	Joseph J. Kramer, et ux	41.106
S32 (BB)	05-15-03	Joseph J. Kramer, et ux	36.10
S33 (D)	05-15-02	John David Petrock, et ux	5
S34 (FF)	05-15-14	John David Petrock, et ux	25
S35 (HH)	05-15-12	John David Petrock, et ux	150.23
S36	05-15-15	Robert L. Shields, et al	49
S37	05-14-12	Dale R. Gallaheer, et al	135.100
S38	05-14-10	Wanda P. Rine (Life)	107.372
S39	05-12-15	Woodland Hills Church of God Trs.	0.375
S40	05-12-21.1	Robert W. Jr. & Wendy L. Riggenbach	14.222
S41	05-12-13	Linda Hamilton, et al	41.887
S42	05-12-7.1	Raymond K. Miller	1.609
S43	05-12-7.2	Raymond K. Miller	4.66
S44	05-12-07	Robert Wm. Riggenbach, et ux	104.231
S45 (B)	05-12-02	CNX LAND, LLC	60.68
S46	05-12-03	CNX LAND, LLC	62.30
S47	05-12-05	CNX LAND, LLC	61.883
S48	05-07-34	W VA DEPT OF HIGHWAYS	10.88
S49	05-07-31.2	WILLIAM N ROUPE ET UX	3.304
S50	05-07-31.4	GRANDVIEW-DOOLEN PSD	0.23
S51	05-07-32	WILLIAM N & VIRGINIA A ROUPE	4.2



P.S. *David L Jackson*  
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**TUG HILL**  
OPERATING

OPERATOR'S  
WELL #: Woodford 10HU  
DISTRICT: Franklin  
COUNTY: Marshall  
STATE: WV  
API# 47-051-02152

Number	TAX MAP-PARCEL	SURFACE OWNER	ACRES
S52	05-07-43.4	Ida Campbell	0.29
S53	05-07-43.1	State Road Commission	1.48
S54	05-11-01	William N. & Virginia A. Roupe	4.527
S55	05-11-1.6	Debra Morris	2.093
S56	05-11-1.3	Jay A. Conner, Et Ux	4.256
S57	05-11-1.2	Jay A. Conner, Et Ux	5.824
S58	05-11-02	Walter C. & Cheryl A. Rine	42.36
S59	05-11-2.2	Joshua A. Myers	2.193
S60	05-11-2.1	Walter C. & Cheryl A. Rine	1.19
S61	05-11-17.2	Brenda & Michael Bryan	11.504
S62 (X)	05-11-16	Keith E. Haught, Et Al	83.674
S63	05-11-14.1	Dennis F. Moore, Et Ux	1.056
S64	05-11-13	Joy D. Gartman & Arlin Gatts	12.29
S65	05-11-12	Joseph J. Kramar, Et Ux	43.2188
S66 (W)	05-15-5	Joseph J. Kramar, Et Ux	35.0
S67 (BB)	05-15-6.1	Joseph J. Kramar, Et Ux	39.40
S68 (CC)	05-15-13	CNX LAND, LLC	11.0
S69	05-15-10	Mark Stanley Ruckman	153.75
S70	05-7A-02	CNX LAND, LLC	2.23
S71	05-7A-01	Lucille Myers	0.529
S72	05-7B-25	Cindy D. Aliff	0.1673
S73	05-7B-26	Cindy D. Aliff	0.1148
S74	05-7B-27	Patricia A. Johnson	0.1148
S75	05-7B-28	Patricia A. Johnson	0.0574
S76	05-7B-28.1	Patricia A. Johnson	0.0574
S77	05-7B-29	Patricia A. Johnson	0.1148
S78	05-7B-30	Cindy D. Aliff, et al	0.1148
S79	05-7B-31	Cindy D. Aliff, et al	0.1148
S80	05-7B-32	Albert J. Anderson, Jr.	0.1148
S81	05-7B-33	Albert J. Anderson, Jr.	0.1182
S82	05-7B-34	Albert J. Anderson, Jr.	0.1148
S83	05-7B-35	Albert J. Anderson, Jr.	0.1217
S84	05-7B-36	Albert J. Anderson, Jr.	0.1148
S85	05-7B-37	Teresa & Thomas Gouldsberry	0.1148
S86	05-7B-38	Teresa & Thomas Gouldsberry	0.1148
S87	05-7B-39	Teresa & Thomas Gouldsberry	0.1148
S88	05-7B-40	Teresa & Thomas Gouldsberry	0.1148
S89	05-7B-41	Teresa & Thomas Gouldsberry	0.1148
S90	05-7B-42	Teresa & Thomas Gouldsberry	0.1194
S91	05-7B-43	Teresa & Thomas Gouldsberry	0.1148
S92	05-7B-44	Daniel D. & Mary E. Robinson	0.1148
S93	05-7B-45	Daniel D. & Mary E. Robinson	0.1148
S94	05-7B-46	Daniel D. Robinson, et ux	0.1148
S95	05-7B-47	Daniel D. Robinson, et ux	0.1148
S96	05-7B-01	Patricia L. Robinson	1.257
S97	05-7B-24	Cindy D. Aliff	0.0354
S98	05-7B-23	Cindy D. Aliff	0.0471
S99	05-7B-22	Patricia A. Johnson	0.0505
S100	05-7B-21	Patricia A. Johnson	0.0287
S101	05-7B-21.1	Patricia A. Johnson	0.0296
S102	05-7B-20	Patricia A. Johnson	0.0626
S103	05-7B-19	Cindy D. Aliff, et al	0.0712
S104	05-7B-18	Cindy D. Aliff, et al	0.0763
S105	05-7B-17	Albert J. Anderson, Jr.	0.0849
S106	05-7B-16	Albert J. Anderson, Jr.	0.0903
S107	05-7B-15	Albert J. Anderson, Jr.	0.0970
S108	05-7B-14	Albert J. Anderson, Jr.	0.0991
S109	05-7B-13	Albert J. Anderson, Jr.	0.1067
S110	05-7B-12	Teresa & Thomas Gouldsberry	0.1113
S111	05-7B-11	Teresa & Thomas Gouldsberry	0.1159
S112	05-7B-10	Teresa & Thomas Gouldsberry	0.1199
S113	05-7B-09	Teresa & Thomas Gouldsberry	0.1240
S114	05-7B-08	Teresa & Thomas Gouldsberry	0.1286
S115	05-7B-07	Teresa & Thomas Gouldsberry	0.1331
S116	05-7B-06	Teresa & Thomas Gouldsberry	0.1377
S117	05-7B-05	Daniel D. & Mary E. Robinson	0.1418
S118	05-7B-04	Daniel D. & Mary E. Robinson	0.1458
S119	05-7B-03	Daniel D. Robinson, et ux	0.1504
S120	05-7B-02	Daniel D. Robinson, et ux	0.1550
S121	05-12-13.1	Raymond K. Miller	0.113

WELL PLAT

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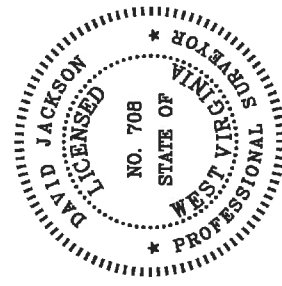
DATE: 07/27/2020



**WOODFORD LEASE  
WELL 10HU  
636.4012± ACRES**

LEASE NO.	TAGS	PARCEL	OIL & GAS ROYALTY OWNER	DEED BOOK	PAGE
0083768062	C	5-12-8	HAROLD B CROW ET UX	869	102
0083768063	C	5-12-8	BRIAN K CROW	869	104
0083768064	C	5-12-8	TIMOTHY HOWARD MARCHEGO	873	104
0083768065	C	5-12-8	KATHLEEN HOBBS YOUNG	869	356
0083768066	C	5-12-8	DAVID C MULLEN ET UX	869	358
0083768067	C	5-12-8	DENNIS FISHER ET UX	870	360
0083768068	C	5-12-8	KATHLEEN A SULLIVAN ET VIR	870	362
0083768069	C	5-12-8	FRANCIS F FISHER ET UX	871	494
0083768070	C	5-12-8	JOYCE A FIORILLI ET VIR	873	114
0083768071	C	5-12-8	BARBARA L VOGLER ET VIR	873	112
0083768072	C	5-12-8	HARRIET C HERMAN ET VIR	873	116
0083768073	C	5-12-8	EUGENIA A KERR	873	118
0083768074	C	5-12-8	JANE H BARNSTEINER ET UX	873	93
0083768075	C	5-12-8	EDWARD P POWDERLY ET UX	873	91
0083768076	C	5-12-8	NORA C POWDERLY	873	89
0083768077	C	5-12-8	MARY F WEILAND	873	124
0083768078	C	5-12-8	JAMES E HERMAN	873	128
0083768080	C	5-12-8	ANTHONY T POWDERLY ET UX	878	363
0083768081	C	5-12-8	SHARON L SCHOLL	878	379
0083768082	C	5-12-8	JAMES T SCHOLL	878	376
0083768083	C	5-12-8	ANNE GAIBALLY ET VIR	878	354
0083768084	C	5-12-8	CLARK D CHASE ET UX	878	357
0083768085	C	5-12-8	BRIDGET A POWDERLY	881	23
0083768086	C	5-12-8	NORA K POWDERLY	881	23
0083768087	C	5-12-8	KEVIN M POWDERLY	890	518
0083768088	C	5-12-8	MARY S SCHOLL	890	569
0083768089	C	5-12-8	BRIAN P POWDERLY ET UX	890	563
0083768090	C	5-12-8	SUSANNE S QUARTERMAN	890	560
0083768091	C	5-12-8	HARRIET C VENTURA ET VIR	894	541
0083768099	C	5-12-8	EILEEN T POWDERLY	873	81
10*24586	D	5-7-42.1	STONE HILL MINERAL HOLDINGS, LLC		
			ANGELA B CRAWFORD AND DANA ALAN CRAWFORD		
10*18403	E	5-7-41		932	536
10*18454	E	5-7-41	IMALEE D LLOYD AND GARY R LLOYD	933	186
10*18455	E	5-7-41	DEBRA HARTLEY AND RICHARD HARTLEY	933	183
10*18724	E	5-7-41	TRACY M KESTERSON	938	521
10*21133	E	5-7-41	MATTHEW V AND CINDY L CONNER	951	602
0076872007	E	5-7-41	TRACY M KESTERSON	860	579
0090625000	F	5-7-44	CRYSTAL B DARRAH	858	252
0076872007	G	5-7-42	TRACY M KESTERSON	860	579
10*21132	H	5-7-42.5	GREGORY E RICE AND LORI MARIE RICE	951	212
			JOE PAUL WELLMAN AND MARTHA GAYLE WELLMAN		
0090236002	H	5-7-42.5		842	516
0091524001	H	5-7-42.5	DEBRA HARTLEY AND RICHARD HARTLEY	862	251
0091524002	H	5-7-42.5	MATTHEW V CONNER AND CINDY CONNER	862	253
0091524003	H	5-7-42.5	TRACY M KESTERSON	860	577
0091524004	H	5-7-42.5	ANGELA CRAWFORD AND DANA CRAWFORD	862	255
0091524005	H	5-7-42.5	IMALEE LLOYD AND GARY LLOYD	862	257
0091524006	H	5-7-42.5	WILLIAM R LEVASSEUR JR	862	301
0091524007	H	5-7-42.5	TOM KROL AND DAWN ELLEN KROL	873	98
			CHRISTINA BOARDWINE AKA TINA BOARDWINE AND BOBBY W BOARDWINE		
0091524008	H	5-7-42.5		873	95
0090800000	I	5-7-42.2	STEVEN LLOYD AND RHONDA LLOYD	853	314
0087970019	J	5-7-42.3	JOSHUA DAVID HARTLEY	853	318
10*19154	K	5-12-9	ROBERT H FISH PATSY C FISH	706	631
			JASON REED HARTLEY AND JOCELYN R. HARTLEY		
10*24580	L	5-7-42.4			
10*16914	M	5-7-39	LIONEL L AND MARY LEE PERSINGER	976	620
10*19751	N	5-12-10.1	THOMAS L ROBINSON	944	426
10*19752	N	5-12-10.1	PATRICIA ANKROM	944	447
10*19841	N	5-12-10.1	CAROLYN JEAN FERGUSON	945	641
			JAMES E ROBINSON AND CAMILLA L ROBINSON		
10*19842	N	5-12-10.1		945	643
10*19843	N	5-12-10.1	JOHN S ROBINSON AND SHERRIE J ROBINSON	945	646
10*19975	N	5-12-10.1	CHARLES F STEWART	948	270
624169	N	5-12-10.1	FRANK ALICE LEONA & BEN	425	232
10*47051.0891.0	O	5-11-14	LARRY W DUNLAP AND BARBARA E DUNLAP	864	148
10*47051.0891.0	P	5-11-11	LARRY W DUNLAP AND BARBARA E DUNLAP	864	148
624169	Q	5-12-10	FRANK ALICE LEONA & BEN	425	232
10*19751	Q	5-12-10	THOMAS L ROBINSON	944	426
10*19752	Q	5-12-10	PATRICIA ANKROM	944	447
10*19841	Q	5-12-10	CAROLYN JEAN FERGUSON	945	641
			JAMES E ROBINSON AND CAMILLA L ROBINSON		
10*19842	Q	5-12-10		945	643
10*19843	Q	5-12-10	JOHN S ROBINSON AND SHERRIE J ROBINSON	945	646
10*19975	Q	5-12-10	CHARLES F STEWART	948	270
10*16918	R	5-12-12.1	LIONEL L AND MARY LEE PERSINGER	976	617
10*16908	S	5-12-12	LIONEL L AND MARY LEE PERSINGER	976	623
10*22810	T	5-11-21	CLYDE V. & KAREN S REED	864	190
10*19009	U	5-12-11	LAMOYNE BAKER	665	554
10*22065	U	5-12-11	WESLEY R BRYAN II	960	417
10*22066	U	5-12-11	WESLEY R BRYAN	960	419
10*19139	V	5-11-14	HIRAM V MOORE	699	53
			KEVIN R. CORLEY AND ANITA L CORLEY, HUSBAND AND WIFE		
10*19126	W	5-11-17		859	44
10*19176	W	5-11-17	MAXINE BETSER	710	602
10*19177	W	5-11-17	NINA L KOVACS	710	594
10*19185	W	5-11-17	HARRIETT L DUDITH FOLEY	710	598
10*19186	W	5-11-17	JOEL GLOVER	710	600
10*19189	W	5-11-17	SHERRY ANN MCPHERON	710	606
10*19190	W	5-11-17	SALLY LEE RIVERA	710	590
10*19191	W	5-11-17	SHARLA BETH WEAVER	710	608
10*19192	W	5-11-17	JAMES E YOHO	714	129
10*19201	W	5-11-17	DANIEL K YOHO	714	125
10*19202	W	5-11-17	DEBORAH L WOOLEY	714	131
10*19203	W	5-11-17	CAROL M YOHO	713	205
10*19204	W	5-11-17	DAYNA MARLENE YOHO	714	127
10*19205	W	5-11-17	JEFFREY C YOHO	713	203
10*19251	W	5-11-17	KAE SUZETTE BAKER	748	315
10*19252	W	5-11-17	JOHN WILSON	749	522
10*19502	W	5-11-17	SUSAN BLANCHE BETSER	942	623
10*19953	W	5-11-17	WINIFRED G TURNER AND EDDIE G TURNER	948	277
10*22041	W	5-11-17	SHERY RITCHEA AND RANDEN D RITCHEA	949	365
10*22001	W	5-11-17	GREGORY K GLOVER	953	271
10*19139	X	5-11-16	HIRAM V MOORE	699	53
10*19176	X	5-11-16	JOSEPH HAUGHT	710	69
10*19179	X	5-11-16	KEITH HAUGHT BEVERLY HAUGHT	710	587

P.S. 708  
*David L Jackson*



**TUG HILL**  
OPERATING

OPERATOR'S WELL #1 Woodford 10HU  
DISTRICT: Franklin  
COUNTY: Marshall  
STATE: WV  
API# 47-051-02152

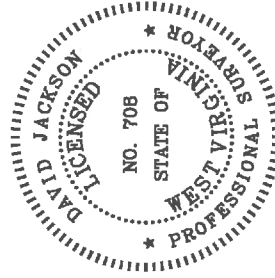
WELL PLAT

PAGE: 4 OF 6

DATE: 07/27/2020

**WOODFORD LEASE  
WELL 10HU  
636.4012± ACRES**

LEASE NO.	TAGS	PARCEL	OIL & GAS ROYALTY OWNER	DEED BOOK	PAGE
10*19180	X	5-11-16	STEVEN HAUGHT	710	67
10*14911	Y	5-11-15	FORREST MILLER	819	316
10*18913	Y	5-11-15	LIONEL LAND MARYLEE PERSINGER	976	626
10*17329	Y	5-11-15	JOHN P ICARD AND REVA J ICARD	976	524
10*18045	Y	5-11-15	KLOVA ANN MORRIS	927	114
10*18174	Y	5-11-15	THE ESTATE OF ROY JOSEPH LEACH	927	647
10*19642	Y	5-11-15	NOEL A PARKS	944	92
10*21455	Y	5-11-15	MELISSA MILLER GIBSON AND JAMES GIBSON	953	308
10*21903	Y	5-11-15	WILLIAM R VOLTZ AND SHARON VOLTZ	960	182
10*21904	Y	5-11-15	MARY S MAGERS AND WILLIAMS MAGERS	960	158
10*21905	Y	5-11-15	DAVID F VOLTZ AND LINDA VOLTZ	961	444
10*21906	Y	5-11-15	MICHAEL P VOLTZ	960	164
10*21910	Y	5-11-15	J THOMAS VOLTZ AND NANCY VOLTZ	960	179
10*22134	Y	5-11-15	ULA F NELSON	960	96
10*22929	Y	5-11-15	JACK MICHAEL FOREMAN	961	449
10*22311	Y	5-11-15	JARON DUTMAN AND BETTY J LUTMAN	963	408
10*22312	Y	5-11-15	WILLIAM LUTMAN AND VICKIE L LUTMAN	963	404
10*22438	Y	5-11-15	RICHARD WOOD AND VICKI WOOD	962	528
10*22559	Y	5-11-15	JULIE SPRINGWATER	964	231
10*19293	Z	5-15-4	SHARON TOLER WILLIAMS & HERVY WILLIAMS	966	94
10*14043	AA	5-15-1	JOSEPH L. KRAMAR, SR. JO ANN KRAMAR	655	566
10*14044	AA	5-15-1	PATRICK R. WALSH	725	566
10*14045	AA	5-15-1	JOSEPH WESLEY GALLAHER, II	724	232
10*14046	AA	5-15-1	LAMDYNE BAKER	724	236
10*14047	AA	5-15-1	CHARLES THOMPSON GALLAHER, II	724	234
10*14051	AA	5-15-1	LESLIE ANN BLYTHE	726	645
10*14048	AA	5-15-1	BRYANNA FLYNN RANKIN	727	3
10*14049	AA	5-15-1	WILDA WINTERS	726	643
10*14050	AA	5-15-1	JUDITH L. CHAMBERS	726	647
10*14051	AA	5-15-1	AMANDA L. SMITH	727	572
10*14052	AA	5-15-1	MAY ELIZABETH GALLAHER BROWNIN	727	558
10*14053	AA	5-15-1	LARRY D. MCWHORTER	727	570
10*14054	AA	5-15-1	RUDOLPH RAUKAR, JR.	730	189
10*14055	AA	5-15-1	VICTOR PEDDICORD	730	193
10*14056	AA	5-15-1	WALLACE T. BERRY	731	156
10*14057	AA	5-15-1	THE SAMUEL MILTON SHEETS TRUST	732	624
10*14058	AA	5-15-1	NANCY HOFSTATTER	732	628
10*14059	AA	5-15-1	LAURA BERRY MCGLYNN	732	622
10*14062	AA	5-15-1	REBECCA MCMILLAN	803	482
10*14064	AA	5-15-1	DAVID BURNETT	803	480
10*14064	AA	5-15-1	CIRIUS MINERALS LLC	814	379
10*47051.3311.1	AA	5-15-1	LEEANN M LEMONOVICH	843	452
10*19030	BB	5-15-3	KATHLEEN R CUSTEAD	806	39
10*22911	BB	5-15-3	SUSAN W. PARSONS ET UX	1019	470
10*19038	BB	5-15-3	PHYLLIS L PARSONS	814	379
10*19046	BB	5-15-3	CAROL J WEINSTEIN	813	373
10*19047	BB	5-15-3	DEBORAH CROSTEN-PURCELL	813	28
10*19048	BB	5-15-3	JANET FRANKHAUSER WILSON	817	627
10*19055	BB	5-15-3	DONNA J GORDYAN	814	468
10*19056	BB	5-15-3	LESLIE R KEYS	814	463
10*19061	BB	5-15-3	ANN WOLLSCHLEGER	817	615
10*19066	BB	5-15-3	MICHAEL L FRANKHAUSER	818	29
10*19068	BB	5-15-3	LINDA L RUPERT	820	229
10*19071	BB	5-15-3	SCOTT D FRANKHAUSER	822	446
10*19074	BB	5-15-3	DONNA L CLAPPER	820	191
10*19075	BB	5-15-3	PHILIP G FRANKHAUSER	822	441
10*19076	BB	5-15-3	FRANKHAUSER LIVING TRUST SUSAN LIVINGSTON, TRUSTEE	826	495
10*19080	BB	5-15-3	HAMEL	895	266
10*19081	BB	5-15-3	RUDINA A FRANKHAUSER	891	457
10*19128	BB	5-15-3	RUDOLPH G FRANKHAUSER	860	258
10*19254	BB	5-15-3	JOANNE LABRY	820	320
10*19293	BB	5-15-3	JOSEPH L. KRAMAR, SR. JO ANN KRAMAR	655	566
10*21934	BB	5-15-3	BERNETTA D BROWN AND DOUGLAS M BROWN	960	167
10*21936	BB	5-15-3	CHRISTOPHER L PARSONS & LAURA A PARSONS	960	170
10*22046	BB	5-15-3	PHYLLIS E HARVEY AND STEVEN E HARVEY	960	398
10*22323	BB	5-15-3	ROBERT W PARSONS AND LINDA B PARSONS	962	197
10*22404	BB	5-15-3	REBECCA S LUKATS AND ELMER M LUKATS	962	566
10*22417	BB	5-15-3	RONALD L PARSONS AND PAULA J PARSONS	963	386
10*19293	CC	5-15-5	JOSEPH L. KRAMAR, SR. JO ANN KRAMAR	655	566
10*19309	DD	5-15-2	KAREN I DENNY	798	551
10*19310	DD	5-15-2	ELEEN DINGER & RICHARD DINGER	799	101
10*19311	DD	5-15-2	FLORENCE K FOSTER & DAVID B FOSTER	798	395
10*19312	DD	5-15-2	MARK A GALLAGHER	799	92
10*19313	DD	5-15-2	NANCY KAY GALLAGHER	798	579
10*19314	DD	5-15-2	THE JOSEPHINE A RYAN REV LIVING TRUST	798	495
10*19315	DD	5-15-2	REBECCA J KOVALCHIK AND WILLIAM D KOVALCHIK	798	597
10*19316	DD	5-15-2	CAROL A KURTZ	798	361
10*19317	DD	5-15-2	SHIRLEY J POGORZELSKI	798	588
10*19318	DD	5-15-2	PATRICIA M PORTWOOD AND CLARENCE A PORTWOOD	798	561
10*19319	DD	5-15-2	JUDY L RIDGWAY	799	110
10*19320	DD	5-15-2	ALBERTA RYAN	799	46
10*19321	DD	5-15-2	FINLEY L RYAN JR	798	624
10*19322	DD	5-15-2	JAMES D RYAN	798	504
10*19323	DD	5-15-2	JAMES R RYAN JR AND PAULA J RYAN	798	370
10*19324	DD	5-15-2	KEVIN MICHAEL RYAN	799	166
10*19325	DD	5-15-2	RUTH E RYAN	798	570
10*19326	DD	5-15-2	VINCENT JASON RYAN III	799	137
10*19327	DD	5-15-2	WILBERT W RYAN JR	798	615
10*19328	DD	5-15-2	WILLIAM HERVEY MILLER RYAN	799	128
10*19329	DD	5-15-2	GEORGE SETTLES	799	28
10*19330	DD	5-15-2	ELSIE M SHORTLAND	799	119
10*19331	DD	5-15-2	RHONDA R TOPPER & DAVID R TOPPER	799	19
10*19332	DD	5-15-2	MARY F WASZKIEWICZ	798	606
10*19334	DD	5-15-2	AUDREY E WELLS	798	366
10*19334	DD	5-15-2	KATHRYN G WOOD	800	162
10*19335	DD	5-15-2	WOODROW A. RYAN REV TRST JACK W. RYAN,	799	37
10*19337	DD	5-15-2	JACK PETROCK HATTIE PETROCK	741	68
10*19293	EE	5-15-6.1	JOSEPH L. KRAMAR, SR. JO ANN KRAMAR	655	566
10*19295	EE	5-15-6.1	KEVIN J. KELLY PAMELA MARXEN-KELLY	858	381
10*19296	EE	5-15-6.1	MARISA C MARKEN	887	120



P.S. 708  
*David L Jackson*



**TUG HILL**  
OPERATING

OPERATOR'S  
WELL #: Woodford 10HU  
DISTRICT: Franklin  
COUNTY: Marshall  
STATE: WV  
API# 47-051-02152

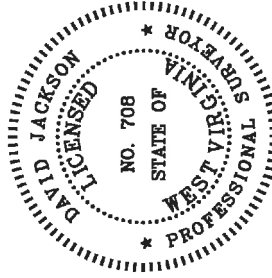
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DATE: 07/27/2020

**WOODFORD LEASE  
WELL 10HU  
636.4012± ACRES**

LEASE NO.	TAGS	PARCEL	OIL & GAS ROYALTY OWNER	DEED BOOK	PAGE
10*19297	EE	5-15-6.1	PHILIP LEONARD MARKEN	839	410
10*19298	EE	5-15-6.1	BETTY J MARKEN SLEZAK	822	351
10*19299	EE	5-15-6.1	ANNETTE CONWAY MARKEN	817	512
10*19300	EE	5-15-6.1	DEBORAH F HAGEMAN HUPPERT	815	145
10*19301	EE	5-15-6.1	SANDRA HAGEMAN KANGAS	815	150
10*19302	EE	5-15-6.1	JEFFREY C MARKEN SAMANTHA L MARKEN	817	505
10*19303	EE	5-15-6.1	THOMAS O MARKEN	814	589
10*19304	EE	5-15-6.1	DEAN L RINE, JR, PAMELA F. RINE	813	635
10*19305	EE	5-15-6.1	KAREN MARKEN SONDROL	813	605
10*19306	EE	5-15-6.1	RICHARD L TATE MARCELINE RINE TATE	814	594
10*19307	EE	5-15-6.1	MARY SUE RINE-WALTER	815	155
10*19308	EE	5-15-6.1	WILLIAM WEBER	817	646
10*19337	FF	5-15-14	JACK PETROCK HATTIE PETROCK	741	68
10*24854	GG	5-15-13	VINCENT JASON RYAN III	1024	195
10*24852	GG	5-15-13	ALBERTA RYAN	1024	198
10*19294	GG	5-15-13	MICHAEL R. BRYAN BRENDA K. BRYAN	741	78
10*21175	GG	5-15-13	KEITH A. RYAN	952	177
10*21176	GG	5-15-13	FLORENCE K FOSTER & DAVID B FOSTER	952	179
10*21177	GG	5-15-13	RHONDA R TOPPER & DAVID R TOPPER	952	181
10*21374	GG	5-15-13	SHIRLEY J POGORZELSKI	957	9
10*21375	GG	5-15-13	REBECCA J KOVALCHIK AND WILLIAM D KOVALCHIK	957	17
10*21376	GG	5-15-13	JACK W RYAN AND JANET N RYAN	957	15
10*21377	GG	5-15-13	DAVID A RYAN AND CYNTHIA L RYAN	957	13
10*21378	GG	5-15-13	ROBECCA K OLDAKER AND ALVIN L OLDAKER JR	957	11
10*21379	GG	5-15-13	PATRICIA M PORTWOOD AND CLARENCE A PORTWOOD	957	19
10*21380	GG	5-15-13	JAMES R RYAN JR AND PAULA J RYAN	957	21
10*21381	GG	5-15-13	NANCY KAY GALLAGHER	957	23
10*21859	GG	5-15-13	JAMES D RYAN AND NORMA J RYAN	959	524
10*21900	GG	5-15-13	LUCINDIA A MARKLE AND KIM D MARKLE	959	520
10*21901	GG	5-15-13	WYONNE HOOVER AND JAMES A HOOVER	959	518
10*21902	GG	5-15-13	AUDREY E WELLS AND TIMOTHY R WELLS	959	522
10*22047	GG	5-15-13	KAREN J DENNY AND GARY W DENNY	960	415
10*22048	GG	5-15-13	ELSIE M SHORTLAND	960	401
10*22049	GG	5-15-13	DAVID W RYAN AND KRISTEN E RYAN	960	407
10*22050	GG	5-15-13	WILLIAM H RYAN & DANIELA H RYAN	960	403
10*22288	GG	5-15-13	CAROL A KURTZ AND JAMES A KURTZ	960	405
10*22465	GG	5-15-13	WILLIAM WOOD	962	564
10*22466	GG	5-15-13	RUTH E RYAN	962	562
10*22514	GG	5-15-13	JUDY L RIDGWAY	964	444
10*22515	GG	5-15-13	GEORGE W SETTLES	964	442
10*22597	GG	5-15-13	MARLYN C RYAN	966	90
10*22657	GG	5-15-13	DAN M JR AND CYNTHIA J RYAN	960	403
10*19337	HH	5-15-12	JACK PETROCK HATTIE PETROCK	741	68



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