

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

API 47 - 051 - 02150 County Marshall District Franklin
Quad Powhatan Point 7.5' Pad Name Woodford Field/Pool Name _____
Farm name CNX RCPC, LLC Well Number Woodford 9HU
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 4,406,050.70 Easting 516,097.21
Landing Point of Curve Northing 4,406,292.68 Easting 516,429.43
Bottom Hole Northing 4,404,472.56 Easting 517,471.24

Elevation (ft) 1238.06' 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 1/12/2020 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: Jarvis
8/12/2020

API 47-051 - 02150 Farm name CNX RCPC, LLC Well number Woodford 9HU

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"	2,767'	NEW	54.5#	N/A	Y
Intermediate 2	12 1/4"	9 5/8"	10,063'	NEW	47#	N/A	Y
Intermediate 3							
Production	8 3/4"	5 1/2"	18,830'	NEW	20#	N/A	Y
Tubing		2 7/8"	9,415'	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 ³ /sks)	Volume (ft ³)	Cement Top (MD)	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) 18,860' 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 - 02150 Farm name CNX RCPC, LLC Well number Woodford 9HU

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

Please insert additional pages as applicable.

API 47- 051 - 02150 Farm name CNX RCPC, LLC Well number Woodford 9HU

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 Oil TEST 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	MD	MD	TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT	TVD	DEPTH IN FT	TVD					
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 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 9HU
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
	2050	2138	2050	2138	
Maxton	2050	2138	2050	2138	Sandstone
Big Lime	2138	2180	2138	2180	Limestone
Big Injun	2180	2526	2180	2526	Sandstone
Weir	2526	2652	2526	2652	Sandstone
Berea	2652	2875	2652	2875	Sandstone
Gordon	2875	2922	2875	2922	Sandstone
Fifty Foot	2922	3482	2922	3482	Sandstone
Spechley	3482	4854	3482	4889	Sandstone
Benson	4854	5223	4889	5272	Sandstone
Alexander	5223	5844	5272	5914	Siltstone
Rhinestreet	5844	6201	5914	6288	Black shale
Middlesex	6201	6225	6288	6313	Black shale
Geneseo/Burkett	6225	6310	6313	6400	Black shale
Tully	6310	6335	6400	6426	Limestone
Hamilton	6335	6371	6426	6463	Grey shale
Marcellus	6371	6425	6463	6518	Black shale
Onondaga	6425	6647	6518	6746	Limestone
Oriskany	6647	6746	6746	6848	Sandstone
Heidelberg	6746	7099	6848	7216	Limestone
Salina	7099	8100	7216	8253	Salt/Anhydrite/LS
Lockport	8100	8459	8253	8626	Dolomite
Rose Hill	8459	8718	8626	8894	Shale
Packer Shell	8718	8914	8894	9095	Limestone
Clinton/Tuscarora	8914	9016	9095	9201	Sandstone
Junata/Queenston	9016	9771	9201	9982	Red Shale
Reedsville	9771	10694	9982	10985	Grey Shale
Utica	10694	10950	10985	11455	Black Shale
Point Pleasant	10950	-	11455	-	Shale/Limestone

Woodford 9HU

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 (bbls)	Amount of Nitrogen/other (units)
1	90.4	11528	8770	7048	509820	430468	0
2	90.3	11411	8157	7649	505560	422092	0
3	89.9	11409	9120	8222	497520	420014	0
4	90.4	11272	8329	7491	502220	418685	0
5	90.3	11353	8307	8665	497280	425342	0
6	90.2	11211	8235	7960	501040	424456	0
7	90.5	11075	8351	7902	508300	422663	0
8	90	11216	8058	7928	501960	452803	0
9	90.3	11145	8069	8267	501140	422630	0
10	90.8	11139	8018	8165	500420	419797	0
11	89.2	10870	8564	7890	495340	416422	0
12	90.3	10542	7883	8309	499160	409336	0
13	89.2	10851	8301	8210	503440	424251	0
14	89.9	11080	8014	8104	500580	422470	0
15	89.7	11055	8765	8807	499560	422260	0
16	88.9	11106	9067	8315	502240	471025	0
17	88.5	10725	8271	8131	507940	430606	0
18	89.7	10507	8381	7764	504560	421753	0
19	88.8	10194	8002	7821	501640	425746	0
20	90	10416	8339	7756	501540	421785	0
21	90.2	10553	7674	7209	506720	423629	0
22	88.5	10283	7843	7060	508100	438608	0
23	87.8	9894	8021	7616	505700	436128	0
24	90.4	10084	8220	7949	480200	398330	0
25	90.3	10095	8188	7119	486720	416502	0
26	90.1	10100	7465	7470	494440	418360	0
27	90.3	9967	7766	7336	488440	411570	0
28	88.5	9980	7755	7421	499020	429621	0
29	90.3	10053	8643	7754	505780	416755	0
30	90.3	10625	7866	7211	508680	494640	0
31	89.6	10751	7311	7988	505280	417945	0
32	90.4	9822	7649	7442	502660	420311	0

33	90.5	9830	8286	8280	501040	415769	0
34	88.3	9827	8003	7299	502760	431132	0
35	88.1	9731	8527	7599	504760	431973	0

**Woodford 9HU
PERFORATION RECORD**

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD. Ft.	Number of Perforations	Formation(s)
1	1/12/2020	18416	18591	48	Utica
2	1/12/2020	18218	18393	48	Utica
3	1/13/2020	18019	18194	48	Utica
4	1/13/2020	17821	17996	48	Utica
5	1/13/2020	17622	17797	48	Utica
6	1/14/2020	17424	17599	48	Utica
7	1/15/2020	17225	17400	48	Utica
8	1/16/2020	17027	17202	48	Utica
9	1/16/2020	16828	17003	48	Utica
10	1/16/2020	16630	16805	48	Utica
11	1/18/2020	16431	16606	48	Utica
12	1/18/2020	16233	16408	48	Utica
13	1/18/2020	16034	16209	48	Utica
14	1/19/2020	15836	16011	48	Utica
15	1/19/2020	15637	15812	48	Utica
16	1/19/2020	15439	15614	48	Utica
17	1/20/2020	15240	15415	48	Utica
18	1/20/2020	15042	15217	48	Utica
19	1/20/2020	14843	15018	48	Utica
20	1/21/2020	14645	14820	48	Utica
21	1/21/2020	14446	14621	48	Utica
22	1/21/2020	14248	14423	48	Utica
23	1/21/2020	14049	14224	48	Utica
24	1/22/2020	13851	14026	48	Utica
25	1/22/2020	13652	13827	48	Utica
26	1/22/2020	13454	13629	48	Utica
27	1/23/2020	13255	13430	48	Utica
28	1/23/2020	13057	13232	48	Utica
29	1/24/2020	12858	13033	48	Utica
30	1/24/2020	12660	12835	48	Utica
31	1/24/2020	12461	* 12636	48	Utica
32	1/25/2020	12263	12438	48	Utica
33	1/25/2020	12064	12239	48	Utica
34	1/25/2020	11866	12041	48	Utica
35	1/26/2020	11667	11842	48	Utica



Well: Woodford 09HU (I)
Site: Woodford
Project: Marshall County, West Virginia
Design: rev3
Rig: Nabors X08

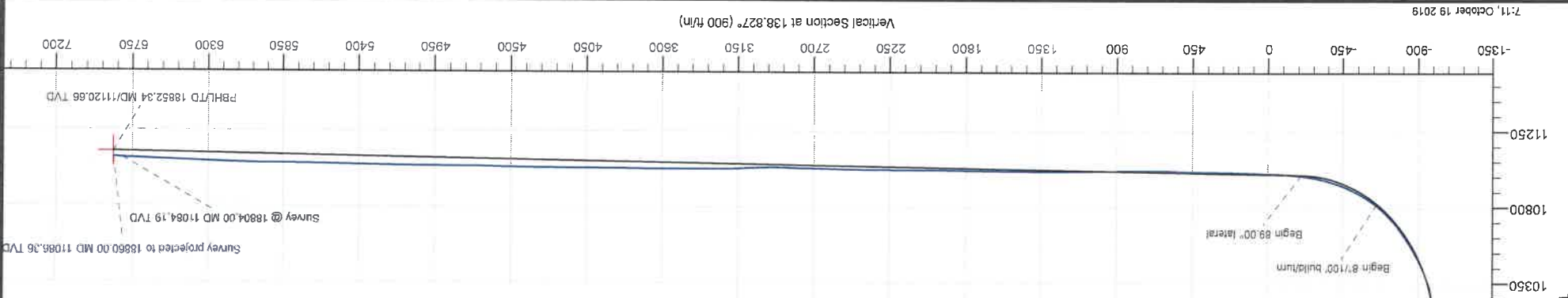
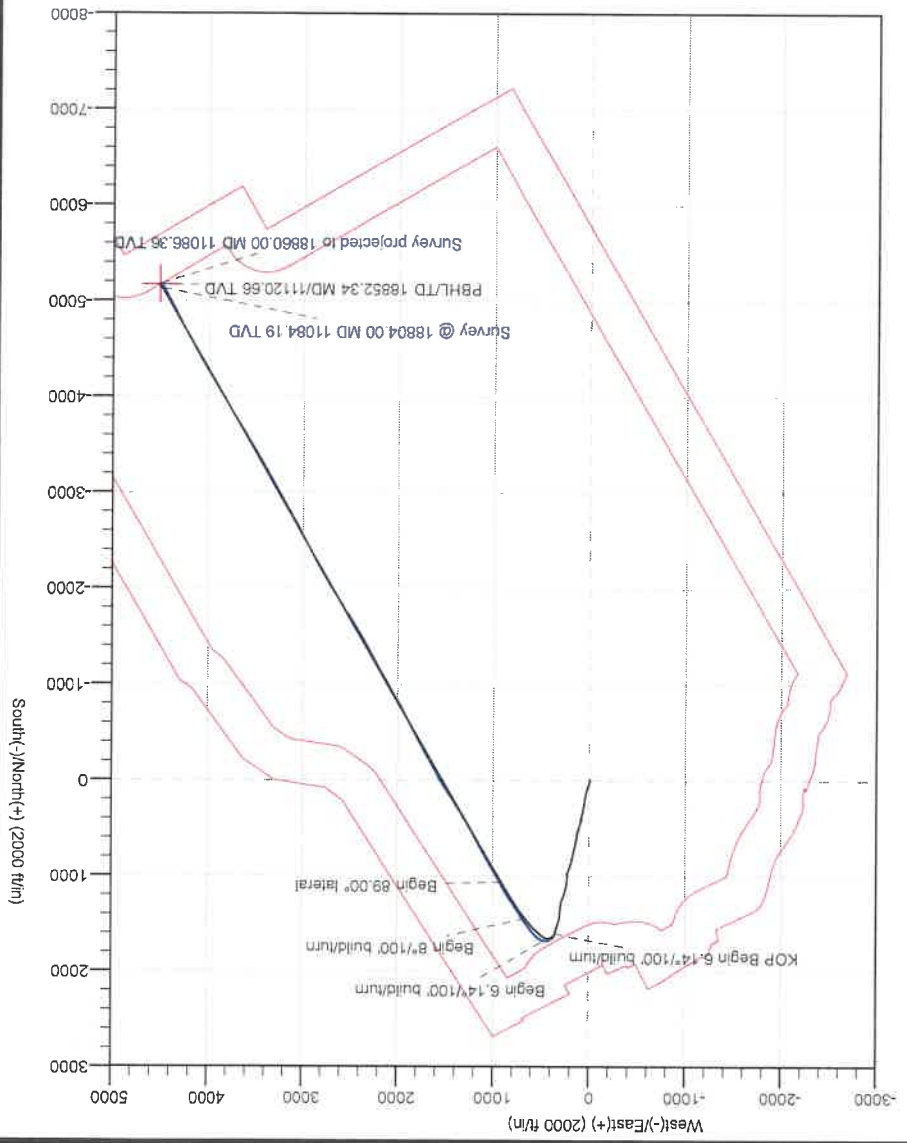
SECTION DETAILS

Sec	MD	Inc	TVD	+N/S	+E/W	Diag	TFace	Vsect	Annotation
1	10023.00	17.290	9810.95	1586.07	351.33	0.00	0.000	-962.67	Survey @ 10023.00 MD 9810.95 TVD
2	10123.00	15.01	9907.54	1610.80	359.02	0.00	0.000	-976.12	KOP Begin 6.14'100' buildum
3	10157.48	17.03	9940.68	1619.94	361.66	6.14	-18.300	-981.27	Begin 6.14'100' buildum
4	11652.12	50.00	10823.93	1445.50	667.57	6.14	135.283	-648.58	Begin 8'100' buildum
5	11652.34	89.00	10995.00	1066.03	920.93	8.00	13.615	-196.14	Begin 89.00' lateral
6	18852.34	89.00	150.000	1120.66	-5168.42	4520.34	0.000	6866.30	PBHLTD 18852.34 MD/1120.66 TVD

Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD83 West Virginia - HARN
Ellipsoid: GRS 1980
Zone: Zone 17N (84 W to 78 W)
Depth Reference: RKB=1235+33 @ 1268.00ft (Nabors X08)
System Datum: Mean Sea Level
Northing 14455517.98
Easting 1693228.66
Latitude 39.80427283
Longitude -80.81195590
Total Corr (M->G): To convert a Magnetic Direction to a Grid Direction, Subtract 8.772°



Magnetic Field
Strength: 52074.991T
Dip Angle: 66.90°
Date: 6/29/2018
Model: IGRF2015



Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date	1/12/2020
Job End Date	1/26/2020
State	West Virginia
County	Marshall
API Number	47-051-02150-00-00
Operator Name	Tug Hill Operating, LLC
Well Name and Number	Woodford 9HU
Latitude	39.80427283
Longitude	-80.81195590
Datum	NAD27
Federal Well	NO
Indian Well	NO
True Vertical Depth	11,052
Total Base Water Volume (gal)	14,925,877
Total Base Non Water Volume	0

Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Number Abstract Service (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Tug Hill Operating	Carrier/Base Fluid	Water	7732-18-5	100.0000	87.1500	None
Sand (40/70 White Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.0000	9.8330	None
Sand (100 Mesh Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.0000	2.4404	None
Hydrochloric Acid (7.5%)	PVS	Acidizing	Hydrochloric Acid (Hydrogen Chloride)	7732-18-5	85.0000	0.3816	None
ProSlick 710	Malco	Friction Reducer	Hydroreated Light Petroleum Distillate	64742-47-8	30.0000	0.0236	None
MC MX 9-4743	Multi-Chem	Biocide	Oxyalkylated alcohol	PROPRIETARY	5.0000	0.0039	None
			inorganic salt	PROPRIETARY	10.0000	0.0078	None
			Sodium Nitrate	7631-99-4	60.0000	0.0223	None

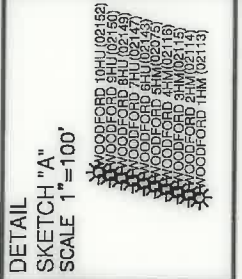
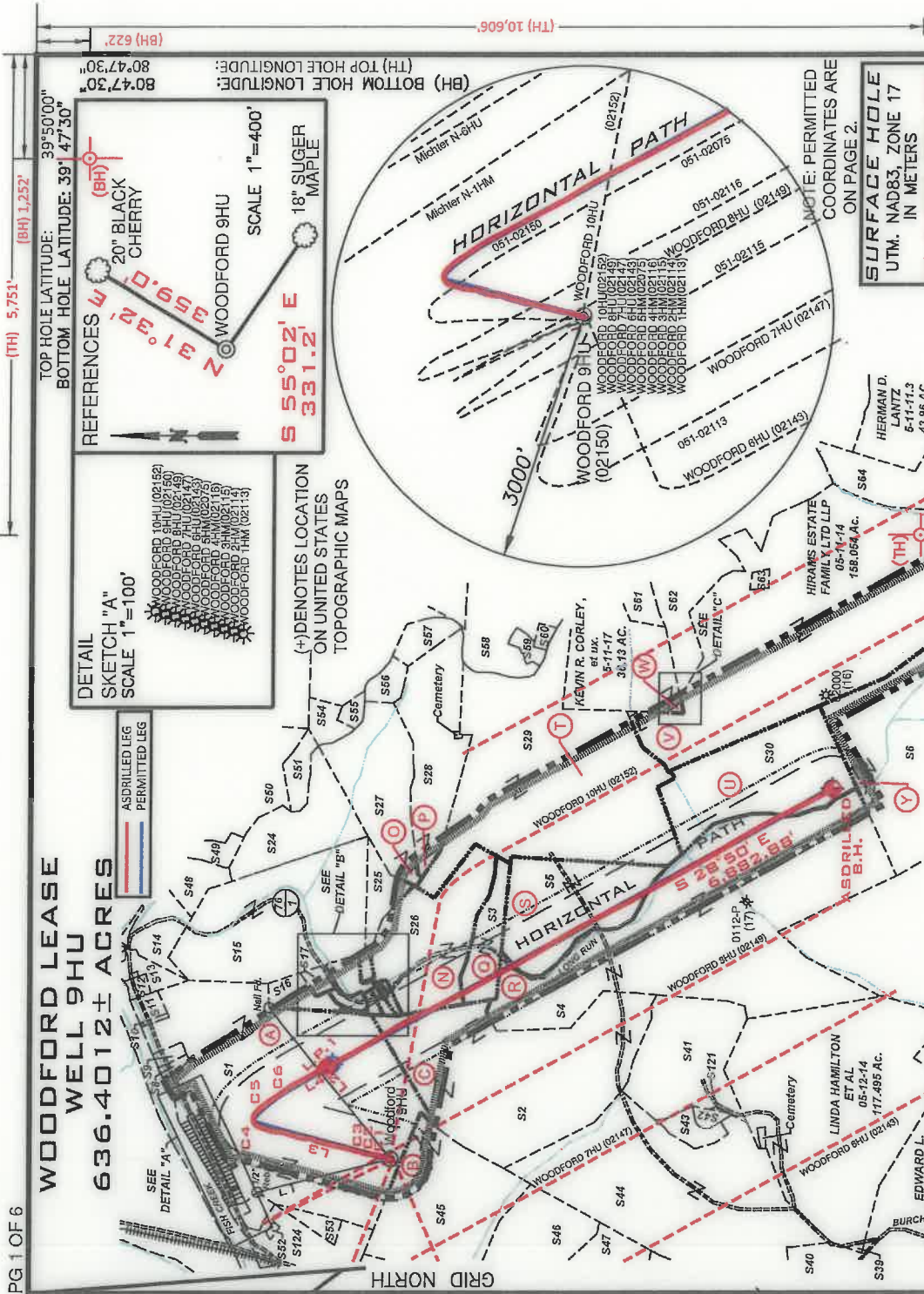


LD-7750W	Multi-Chem	Scale Inhibitor	Methanol	67-56-1	60.00000	0.00512	None
			Phosphonic Acid Salt	Proprietary	5.00000	0.00043	None
PROFE 105	ProFrac	Iron Control					
			Citric Acid	77-92-9	100.00000	0.00163	None
PROhib 100	ProFrac	Acid Inhibitor	2-Propyn-1-ol compound w/ methylloxirane	38172-91-7	15.00000	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	0.38160	
			inorganic salt	PROPRIETARY	10.00000	0.00787	
			Oxyalkylated alcohol	PROPRIETARY	5.00000	0.00394	
			Phosphonic Acid Salt	Proprietary	5.00000	0.00043	

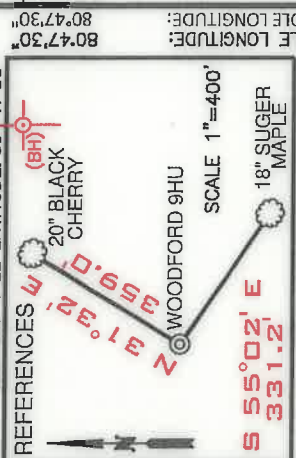
* Total Water Volume sources may include fresh water, produced water, and/or recycled water
** Information is based on the maximum potential for concentration and thus the total may be over 100%

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 9HU 636.4012± ACRES



(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS



NOTE: PERMITTED COORDINATES ARE ON PAGE 2.

SURFACE HOLE UTM. NAD83, ZONE 17 IN METERS N) 4,406,050.70 E) 516,097.21	LANDING POINT 1 UTM. NAD83, ZONE 17 IN METERS N) 4,406,292.68 E) 516,429.43	BOTTOM HOLE UTM. NAD83, ZONE 17 IN METERS N) 4,404,472.56 E) 517,471.24
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NOTES
1. BORE PATH BASED ON GRID NORTH
2. NO WATER WELLS WITHIN 250' OF WELL WERE FOUND. NO DWELLINGS WITHIN 605' 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 5,000' OF LATERAL ARE SHOWN ON THIS PLAN.

LINE	BEARING	DISTANCE
L1	N 13°55' W	1658.27'
L2	N 50°45' E	2339.37'
L3	N 13°33' E	1232.23'
L4	S 28°13' E	282.76'

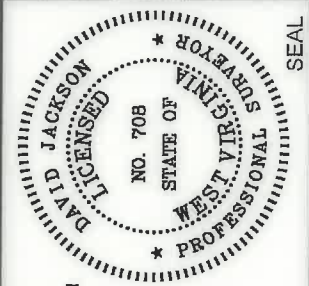
CURVE	CHORD BEARING	CHORD LENGTH	ARC RADIUS	ARC LENGTH
C1	N 29°30' W	16.92'	9.69'	19.98'
C2	N 17°15' E	202.74'	563.90'	203.84'
C3	N 17°25' E	178.25'	679.28'	178.77'
C4	N 69°59' E	187.25'	103.94'	233.16'
C5	S 37°14' E	342.36'	1285.97'	343.49'
C6	S 31°01' E	405.08'	1884.55'	405.84'

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN 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 L Jackson
P.S. 708



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



FILE NUMBER _____
DRAWING NUMBER WOODFORD_9HU
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 9HU
API WELL NO. _____
WELL TYPE: OIL X GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____
(IF "GAS") PRODUCTION X STORAGE _____ DEEP X SHALLOW _____ PERMIT

LOCATION ELEVATION 1238.06' 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 _____
PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE (SPECIFY) ASDRILLED

TARGET FORMATION POINT PLEASANT PLUG & ABANDON _____ CLEAN OUT & REPLUG _____
ESTIMATED DEPTH TVD: 11,086' TMD: 18,860'
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500
FORT WORTH, TX 76107
ADDRESS 5400 D BIG TYLER ROAD
CHARLESTON, WV 25313

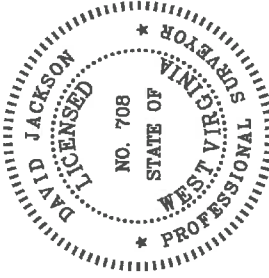
COUNTY NAME _____ PERMIT _____

**WOODFORD LEASE
WELL 9HU
636.4012± ACRES**

LEASE NO.	TAGS	PARCEL	OIL & GAS ROYALTY OWNER	DEED BOOK	PAGE
041112	A	5-7-43	COLUMBIAN CHEMICALS COMPANY	891	363
041112	B	5-12-2	COLUMBIAN CHEMICALS COMPANY	691	363
10*23969	C	5-12-8	MARK A. JOHNSON ET UX	1020	195
10*24588	C	5-12-8	MICHAEL POWDERLY	1025	287
10*24577	C	5-12-8	LYNN A. YATES & WALTER R. YATES		
10*23896	C	5-12-8	MOLLY MCMAHON AND JOHN D. MCMAHON	1017	489
10*18837	C	5-12-8	ERIN E SCHOLL	937	626
10*18835	C	5-12-8	REBECCA LYNN KIER AND ERIC JAMES KIER	937	405
10*18968	C	5-12-8	ESHELA 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	TERRANCE V 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 CLUCKNER	941	283
10*21223	C	5-12-8	EUGENE C GRIEB AND SHIRLEY K GRIEB	961	488
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 ROMALD 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*21938	C	5-12-8	SEAN M GRENOBLE AND CHERYL A GRENOBLE	960	91
10*21939	C	5-12-8	ULA F NELSON	960	96
10*22051	C	5-12-8	NOEL A PARKS	960	509
10*22309	C	5-12-8	AARON 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 BAE MILLER	910	152
10*22408	C	5-12-8	REBECCA S TAHR	962	578
10*22548	C	5-12-8	SHARON TOLER WILLIAMS & HENRY WILLIAMS WILLIAM LEESON	966	194
10*22605	C	5-12-8	MICHAEL R LEESON AND BRENDA R LEESON	966	499
10*22744	C	5-12-8	BRIDGET A POWDERLY	966	496
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	63
0083768001	C	5-12-8	SANDRA WINSLOW	977	382
0083768002	C	5-12-8	KERMIT REED HUBBS ET UX	831	54
0083768003	C	5-12-8	DOUGLAS G DERRROW	831	163
0083768004	C	5-12-8	FERN A PICKENPAUGH	831	165
0083768005	C	5-12-8	JEAN GALTHER	831	167
0083768006	C	5-12-8	SONDRA SUE RULONG ET VIR	832	228
0083768007	C	5-12-8	VERA SHRIENE WORKMAN ET VIR	832	230
0083768008	C	5-12-8	CHARLOTTE A MERSELUS ET VIR	832	232
0083768009	C	5-12-8	PHYLLIS JEAN OSTRANDER	833	14
0083768010	C	5-12-8	JAMES A KOLL	833	472
0083768011	C	5-12-8	MICHAEL W DERRROW	832	584
0083768012	C	5-12-8	WILLIAM L WILLIAMS ET UX	833	464
0083768013	C	5-12-8	KELLY KERN	833	574
0083768014	C	5-12-8	SHIRLEY GRUBR	863	189
0083768015	C	5-12-8	NORMAN L DERRROW ET UX	863	191
0083768016	C	5-12-8	BETTY JUNE CAMPBELL ET VIR	832	580
0083768017	C	5-12-8	LAMONYE S BAKER	834	632
0083768018	C	5-12-8	HONIU ADAIR STOLLAR	834	634
0083768019	C	5-12-8	MARTHA J JAMISON ET VIR	836	36
0083768020	C	5-12-8	SARA BRADELY	839	38
0083768021	C	5-12-8	MARY S FOGLIESONG ET VIR	839	206
0083768024	C	5-12-8	JIMMIE WILLIAMS ET UX	837	352
0083768025	C	5-12-8	LUDY ANN MCCHESEY ET VIR	837	143
0083768026	C	5-12-8	PENNY S SCHAUER ET VIR	842	291
0083768027	C	5-12-8	TRACIL WILLIAMS	842	9
0083768028	C	5-12-8	STEVEN S DERRROW	842	9
0083768029	C	5-12-8	MARY E VOLTZ ET VIR	841	24
0083768030	C	5-12-8	ELLIOTT L THRASHER II ET UX	842	82
0083768031	C	5-12-8	JACK M FOREMAN	844	131
0083768032	C	5-12-8	DOUGLAS E MILLER	844	520
0083768033	C	5-12-8	REVA J ICAIRD ET VIR	844	526
0083768034	C	5-12-8	JULIE SPRINGWATER	850	481
0083768035	C	5-12-8	JULIE SPRINGWATER	850	499
0083768036	C	5-12-8	JACK M FOREMAN	850	503
0083768037	C	5-12-8	ANITA M MASON	851	5
0083768038	C	5-12-8	BONNIE H GRISELL ET VIR	850	646
0083768039	C	5-12-8	MARY ELIZABETH VOLTZ ET VIR	850	646
0083768040	C	5-12-8	JACK M FOREMAN	851	394
0083768041	C	5-12-8	JACQUELYN JOHNSON ET VIR	854	178
0083768042	C	5-12-8	ROY JOSEPH LEACH	860	523
0083768043	C	5-12-8	LESLIE ANN BLYTHE ET VIR	859	487
0083768044	C	5-12-8	MURIEL ANNE MILLER ET VIR	860	535
0083768045	C	5-12-8	GREGORY S MILLER ET UX	860	545
0083768046	C	5-12-8	REBECCA L CULLEN ET VIR	860	517
0083768048	C	5-12-8	FRANCES E RUTLEDGE ET VIR	860	558
0083768049	C	5-12-8	LARRY DEAN MCWHORTER ET AL	860	519
0083768050	C	5-12-8	LEROY MILLER	860	532
0083768051	C	5-12-8	DAVID LEE EVANS JR ET UX	864	187
0083768052	C	5-12-8	STEVEN POND ET UX	860	574
0083768053	C	5-12-8	IAN KIPP HAGEMANN	860	500
0083768054	C	5-12-8	MELISSA MILLER GIBSON ET VIR	869	100
0083768055	C	5-12-8	HEATHER D MALO ET VIR	866	336
0083768056	C	5-12-8	RODNEY F PETERSON	866	342
0083768057	C	5-12-8	PRISCILLA ANN MILLER HADEN	873	543
0083768058	C	5-12-8	DANIEL D HOBBS ET UX	873	543
0083768059	C	5-12-8	RICHARD S MULLEN ET UX	869	98
0083768060	C	5-12-8	JAMES B CROW ET UX	869	308
0083768061	C	5-12-8	GREGORY S CROW	869	306



P.S. 708
David L Jackson

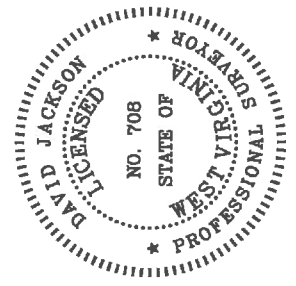


OPERATOR'S
WELL #: WOODFORD 9HU
DISTRICT: Franklin
COUNTY: Marshall
STATE: WV
API# 47-051-02150

**WOODFORD LEASE
WELL #9HU
636.4012± ACRES**

LEASE NO.	TAGS	PARCEL	OIL & GAS ROYALTY OWNER	DEED BOOK	PAGE
Q083768062	C	5-12-8	HAROLD B CROW ET UX	869	102
Q083768063	C	5-12-8	BRIAN K CROW	869	104
Q083768064	C	5-12-8	TIMOTHY HOWARD MANCHEGO	873	104
Q083768065	C	5-12-8	KATHLEEN HOBBS YOUNG	869	356
Q083768066	C	5-12-8	DAVID C MULLEN ET UX	869	358
Q083768067	C	5-12-8	DENNIS FISCHER ET UX	870	360
Q083768068	C	5-12-8	KATHLEEN A SULLIVAN ET VIR	870	362
Q083768069	C	5-12-8	FRANCIS F FISCHER ET UX	871	494
Q083768070	C	5-12-8	JOYCEA FORILLI ET VIR	873	114
Q083768071	C	5-12-8	BARBARA L VOGLER ET VIR	873	112
Q083768072	C	5-12-8	HARRIET C HERMAN ET VIR	873	116
Q083768073	C	5-12-8	EUGENIA A KERR	873	118
Q083768074	C	5-12-8	JANE H BARNSTEINER ET UX	873	91
Q083768075	C	5-12-8	EDWARD P POWDERLY ET UX	873	93
Q083768076	C	5-12-8	NORA C POWDERLY	873	89
Q083768078	C	5-12-8	MARY F WEILAND	873	124
Q083768079	C	5-12-8	JAMES E HERMAN	873	128
Q083768080	C	5-12-8	ANTHONY T POWDERLY ET UX	878	363
Q083768081	C	5-12-8	SHARON L SCHOLL	878	379
Q083768082	C	5-12-8	JAMES T SCHOLL	878	376
Q083768083	C	5-12-8	ANNE GALBALLY ET VIR	878	354
Q083768084	C	5-12-8	CLARK D CHASE ET UX	878	357
Q083768085	C	5-12-8	BRIDGET A POWDERLY	881	29
Q083768086	C	5-12-8	NORA K POWDERLY	881	23
Q083768087	C	5-12-8	KEVIN M POWDERLY	890	518
Q083768088	C	5-12-8	MARY S SCHOLL	890	569
Q083768089	C	5-12-8	BRIAN P POWDERLY ET UX	890	563
Q083768090	C	5-12-8	SUSANNE S QUARTERMAN	890	560
Q083768091	C	5-12-8	HARRIET C VENTURA ET VIR	894	541
Q083768099	C	5-12-8	EILEEN T POWDERLY	873	81
10*24586	D	5-7-42.1	STONE HILL MINERAL HOLDINGS, LLC		
10*18403	E	5-7-41	ANGELA B CRAWFORD AND DANA ALAN CRAWFORD	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
Q076872007	E	5-7-41	TRACY M KESTERSON	860	579
Q090625000	F	5-7-44	CRYSTAL B DARRAH	858	252
Q076872007	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
Q090236002	H	5-7-42.5	JOE PAUL WELLMAN AND MARTHA GAYLE WELLMAN	842	516
Q091524001	H	5-7-42.5	DEBRA HARTLEY AND RICHARD HARTLEY	862	251
Q091524002	H	5-7-42.5	MATTHEW V CONNER AND CINDY CONNOR	862	253
Q091524003	H	5-7-42.5	TRACY M KESTERSON	860	577
Q091524004	H	5-7-42.5	ANGELA CRAWFORD AND DANA CRAWFORD	862	255
Q091524005	H	5-7-42.5	IMALEE LLOYD AND GARY LLOYD	862	257
Q091524006	H	5-7-42.5	WILLIAM R LEVASSEUR JR	873	101
Q091524007	H	5-7-42.5	TOM KROL AND DAWN ELLEN KROL	873	98
Q091524008	H	5-7-42.5	BROADWINE AND BOBBY W BOARDWINE	873	95
Q090800000	I	5-7-42.2	STEVEN LLOYD AND RHONDA LLOYD	853	314
Q087570019	J	5-7-42.3	JOSHUA DAVID HARTLEY	853	318
10*19154	K	5-12-9	ROBERT H FISH PATSY C FISH	706	631
10*24560	L	5-7-42.4	JASON REED HARTLEY AND JOCELYN R. HARTLEY		
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
10*19842	N	5-12-10.1	JAMES E ROBINSON AND CAMILLA L ROBINSON	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, AUCE LEONA & BEN	425	232
10*47051.089.0	O	5-11-1.4	LARRY W DUNLAP AND BARBARA E DUNLAP	864	148
10*47051.089.0	P	5-11-1.1	LARRY W DUNLAP AND BARBARA E DUNLAP	864	148
624169	Q	5-12-10	FRANK, AUCE 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
10*19842	Q	5-12-10	JAMES E ROBINSON AND CAMILLA L ROBINSON	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	CLYDEV. & KAREN S REED	864	190
10*19009	U	5-12-11	LAMONYE 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
10*19126	W	5-11-17	KEVIN R. CORLEY AND ANITA L. CORLEY, HUSBAND AND WIFE	859	44
10*19176	W	5-11-17	MAXINE BEYER	710	602
10*19177	W	5-11-17	NINA L KOVACS	710	594
10*19185	W	5-11-17	HARRIETT LODDUTH 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	SHARIA 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	RAE SUZETTE BAKER	748	315
10*19252	W	5-11-17	JOHN WILSON	749	522
10*19502	W	5-11-17	SUSAN BIANCHE BEYER	942	623
10*19893	W	5-11-17	WINIFRED G TURNER AND EDDIE G TURNER	948	277
10*21041	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

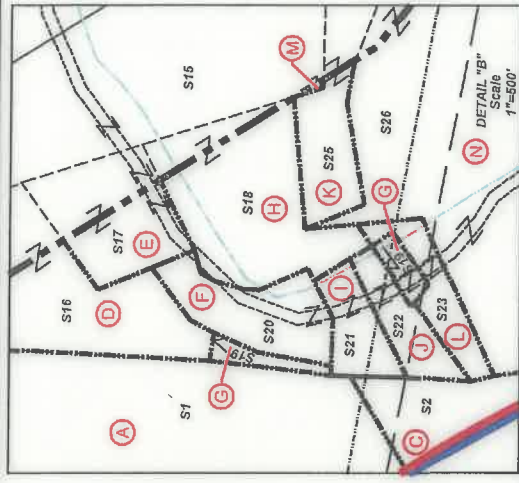
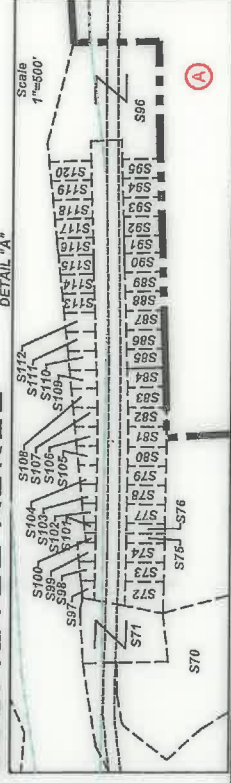
P.S. 708
David L Jackson



OPERATOR'S: WELL #1: WOODFORD 9HU
DISTRICT: Franklin
COUNTY: Marshall
STATE: WV
API#: 47-061-02150

WELL PLAT
PAGE: 4 OF 6
DATE: 07/27/2020

**WOODFORD LEASE
WELL 9HU
636.4012± ACRES**

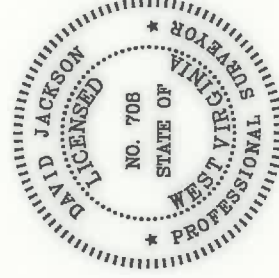


Number	TAX MAP-PARCEL	SURFACE OWNER	ACRES
S1	05-07-43	CNX LAND, LLC	155.7119
S2	05-12-08	Amita Rae Miller (Life)	100.35
S3	05-12-10	Consolidation Coal Co./ Murray Energy	13.76
S4	05-12-12.1	Lionel L. Persinger, Et Ux.	148.09
S5	05-12-12	Lionel L. Persinger, Et Ux.	45
S6	05-11-15	Lionel L. Persinger, Et Ux.	93
S7	05-15-01	Marcus Sharp & David Schlabach, Hrs.	121
S8	05-7B-49	Cassidy Rain Carpenter	1.1441
S9	05-7B-48	Cassidy 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	05-07-39	Lionel L. Persinger, et ux	57
S16	05-07-42.1	Holly Rice	5.99
S17	05-07-41	James A. Wade	1
S18	05-07-42.5	Matthew V. Conner, et al	3.791
S19	05-07-42	Tracy M. Kesterson	0.54
S20	05-07-44	Crystal B. Darrah	1.726
S21	05-07-42.2	Steven & Rhonda Lloyd	0.85
S22	05-07-42.3	Joshua David Hartley	0.87
S23	05-07-42.4	Lionel & Mary Lee Persinger	0.94
S24	05-07-33	William N. Roupe	24.60
S25	05-12-09	Lionel & Mary Lee Persinger	10.15
S26	05-12-10.1	Consolidation Coal Co./ Murray Energy	38.48
S27	05-11-1.4	Larry W. Dunlap, et al	32.493
S28	05-11-1.1	Larry W. Dunlap & Charles Leroy, et al	34.405
S29	05-11-21	Karen Reed, et al	112.67
S30	05-12-11	Wesley B. Bryan & Wesley R. Bryan II	52.478
S31	05-15-04	Joseph J. Kramer, et ux	41.106
S32	05-15-03	Joseph J. Kramer, et ux	36.10
S33	05-15-02	John David Petrock, et ux	5
S34	05-15-14	John David Petrock, et ux	25
S35	05-15-15	John David Petrock, et ux	150.23
S36	05-15-15	Robert L. Shields, et al	49
S37	05-14-12	Dale R. Gallaher, 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. Riggensbach	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. Riggensbach, et ux	104.231
S45	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

SURFACE HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,406,050.70
E) 516,097.13

LANDING POINT 1
UTM. NAD83, ZONE 17
IN METERS
N) 4,406,395.41
E) 516,366.39

BOTTOM HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,404,475.36
E) 517,474.93



David L Jackson



TUG HILL
OPERATING

OPERATOR'S

WELL #1: WOODFORD 9HU

DISTRICT: Franklin

COUNTY: Marshall

STATE: WV

API# 47-051-02150

WELL PLAT

PAGE 2 OF 6

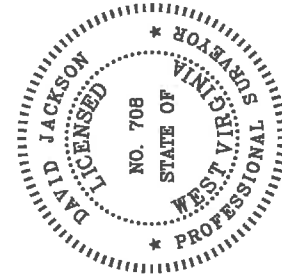
DATE: 7/27/2020

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	Joy A. Conner, Et Ux	4.256
S57	05-11-1.2	Joy 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	05-11-16	Keith E. Haucht, 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. Kramer, Et Ux	43.2188
S66	05-15-5	Joseph J. Kramer, Et Ux	35.0
S67	05-15-6.1	Joseph J. Kramer, Et Ux	39.40
S68	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	0.0826
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

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LEASE NO.	TAGS	PARCEL	OIL & GAS ROYALTY OWNER	DEED BOOK	PAGE
10*19180	X	5-11-16	STEVEN HAUGHT	710	67
10*14811	Y	5-11-15	FORREST MILLER	819	316
10*16913	Y	5-11-15	LIONEL LAND MARY LEE PERSINGER	976	626
10*17329	Y	5-11-15	JOHN P ICARD AND REVA J ICARD	943	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*21939	Y	5-11-15	UJA F NELSON	960	96
10*22134	Y	5-11-15	JACK MICHAEL FOREMAN	961	449
10*22309	Y	5-11-15	AARON D LUTMAN AND BETTY J LUTMAN	963	408
10*22311	Y	5-11-15	WILLIAM L LUTMAN AND VICKIE LUTMAN	963	404
10*22312	Y	5-11-15	RICHARD WOOD AND VICKI WOOD	962	528
10*24338	Y	5-11-15	LULIE SPRINGWATER	964	231
10*25259	Y	5-11-15	SHARON TOLER WILLIAMS & HERVY WILLIAMS	966	94
10*19293	Z	5-15-4	JOSEPH I. KRAMAR, SR. JO ANN KRAMAR	655	566
10*14043	AA	5-15-1	PATRICK R. WALSH	725	566
10*14044	AA	5-15-1	JOSEPH WESLEY GALLAHER, II	724	232
10*14045	AA	5-15-1	LAMOYNE BAKER	724	236
10*14046	AA	5-15-1	CHARLES THOMPSON GALLAHER, II	724	234
10*14047	AA	5-15-1	LESLIE ANN BLYTHE	726	645
10*14048	AA	5-15-1	BRYANNA FVNN RANKIN	727	3
10*14050	AA	5-15-1	JUDITH L CHAMBERS	726	643
10*14051	AA	5-15-1	AMANDA L SMITH	727	572
10*14052	AA	5-15-1	MAY ELIZABETH GALLAHER BROWNIN	727	568
10*14054	AA	5-15-1	LARRY D. MCWHORTER	727	570
10*14055	AA	5-15-1	RUDOLPH RAUKAR, JR.	730	189
10*14056	AA	5-15-1	VICTOR PEDDICORD	730	193
10*14057	AA	5-15-1	WALLACE T. BERRY	731	156
10*14058	AA	5-15-1	THE SAMUEL MILTON SHEETS TRUST	732	624
10*14059	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 BURKETT	803	480
10*47051.331.1	AA	5-15-1	CIRRUS MINERALS LLC	843	452
10*19080	BB	5-15-3	LEEANN M LEMONOVICH	910	136
10*23911	BB	5-15-3	SUSAN W. PARSONS ETUX	806	39
10*19088	BB	5-15-3	PHYLLIS L PARSONS	814	379
10*19046	BB	5-15-3	CAROL J WEINSTEIN	813	33
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 WOLSCHEGER	817	615
10*19066	BB	5-15-3	MICHAEL FRANKHAUSER	818	29
10*19068	BB	5-15-3	LINDA L RUPERT	820	229
10*19069	BB	5-15-3	SCOTT D FRANKHAUSER	822	446
10*19071	BB	5-15-3	DONNA L CLAPPER	820	191
10*19074	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	REVOCABLE TRUST AGREEMENT CHARLES S HAMEL	835	266
10*19081	BB	5-15-3	RUDINA A FRANKHAUSER	831	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 I. KRAMAR, SR. JO ANN KRAMAR BERNETTA D BROWN AND DOUGLAS M BROWN	655	566
10*21934	BB	5-15-3	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*22293	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	5-15-2	JOSEPH I. KRAMAR, SR. JO ANN KRAMAR KAREN J DENNY	655	566
10*19310	DD	5-15-2	ELEN DINGER & RICHARD DINGER	798	551
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 REBECCA J KOVALCHIK AND WILLIAM D KOVALCHIK	798	495
10*19315	DD	5-15-2	SHIRLEY J POGORZELSKI	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 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 PAUL 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 SHORLAND	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*19333	DD	5-15-2	AUDREY E WELLS	798	386
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, TRUSTEE	799	37
10*19337	DD	5-15-2	JACK PETROCK HATTIE PETROCK	741	68
10*19293	EE	5-15-6.1	JOSEPH I. KRAMAR, SR. JO ANN KRAMAR	655	566
10*19295	EE	5-15-6.1	KEVIN J. KELLY PAMELA MARKEN-KELLY	858	381
10*19296	EE	5-15-6.1	MARISSA C MARXEN	837	120

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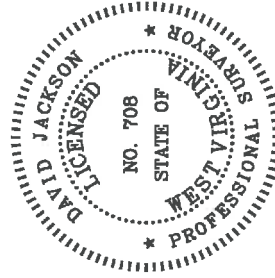
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WELL #:
DISTRICT:
COUNTY:
STATE:
API#:

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10*19297	EE	5-15-61	PHILIP LEONARD MARXEN	839	410
10*19298	EE	5-15-61	BETTY J MARXEN SLEZAK	822	351
10*19299	EE	5-15-61	A NINETTE CONWAY MARXEN	817	512
10*19300	EE	5-15-61	DEBORAH F HAGEMAN HUPPERT	815	145
10*19301	EE	5-15-61	SANDRA HAGEMAN KANGAS	815	150
10*19302	EE	5-15-61	JEFFREY C MARXEN SAMANTHA L MARXEN	817	506
10*19303	EE	5-15-61	THOMAS O MARXEN	814	589
10*19304	EE	5-15-61	DEAN L RINE, JR, PAMELA F. RINE	813	635
10*19305	EE	5-15-61	KAREN MARXEN SONDROL	813	605
10*19306	EE	5-15-61	RICHARD L. TATE MARCELINE RINETATE	814	594
10*19307	EE	5-15-61	MARY SUE RINE-WALTER	815	155
10*19308	EE	5-15-61	WILLIAM WEBER	817	646
10*19337	FF	5-15-14	JACK PETROCK HATTIE PETROCK	741	68
10*24394	GG	5-15-13	VINCENT JASON RYAN III	1024	195
10*24392	GG	5-15-13	ALBERTA RYAN	1024	198
10*29294	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 ODKAKER AND ALVIN L ODKAKER 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 H RYAN JR AND PAULAJ RYAN	957	21
10*21381	GG	5-15-13	NANCY KAY GALLAGHER	957	23
10*21899	GG	5-15-13	JAMES D RYAN AND NORMA J RYAN	959	524
10*21900	GG	5-15-13	LUCINDIA A MARKE AND KIM D MARKE	959	520
10*21901	GG	5-15-13	YVONNE HOOVER AND JAMES A HOOVER	959	518
10*22047	GG	5-15-13	AUDREY E WELLS AND TIMOTHY R WELLS	959	522
10*22048	GG	5-15-13	KAREN L DENNY AND GARY W DENNY	960	415
10*22049	GG	5-15-13	ELSIE M SHORTLAND	960	401
10*22050	GG	5-15-13	DAVID W RYAN AND KRISTEN E RYAN	960	407
10*22088	GG	5-15-13	WILLIAM H M RYAN & DANIELA H RYAN	960	403
10*22405	GG	5-15-13	CAROL A KURTZ AND JAMES A KURTZ	960	405
10*22514	GG	5-15-13	WILLIAM WOOD	962	564
10*22515	GG	5-15-13	RUTH E RYAN	962	562
10*22517	GG	5-15-13	JUDY L RIDGWAY	964	444
10*22597	GG	5-15-13	GEORGE W SETTLES	964	442
10*22857	GG	5-15-13	MARILYN C RYAN	966	90
10*19337	HH	5-15-12	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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