

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

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WV Department of
Environmental Protection

API 47-103-03245 County Wetzel District Magnolia
Quad Porter Falls 7.5' Pad Name Lackawanna Field/Pool Name _____
Farm name M.B. Investments Well Number Lackawanna N-4HM
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 4,384,045.51 Easting 512,301.83
Landing Point of Curve Northing 4,383,718.35 Easting 512,214.55
Bottom Hole Northing 4,386,317.13 Easting 510,709.32

Elevation (ft) 1305.59' 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 10/26/2018 Date drilling commenced ^{spud: 5/9/2019 big rig: 6/29/2019} 7/17/2019
Date completion activities began 10/27/2021 Date completion activities ceased 12/28/2021
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 1134' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1595' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 1034-1040', 1129-1135' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:
APPROVED OCT 04 2022
Therese L. Seybold **10/14/2022**

API 47- 103 - 03245 Farm name M.B. Investments Well number Lackawanna N-4HM

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	BW	N/A	Y
Surface	17 1/2"	13 3/8"	1,259'	NEW	48#	N/A	Y
Coal	17 1/2"	13 1/8"	1,259'	NEW	48#	N/A	Y
Intermediate 1	12 1/4"	9 5/8"	3,108'	NEW	36#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8 7/8"	5 1/2"	17,346'	NEW	20#	N/A	Y
Tubing		2 3/8"	8,673'	NEW	4.7#	N/A	Y
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	547	15.6	1.18	646	0	8
Surface	A	1,255	15.6	1.20	1,502	0	8
Coal	A	1,255	15.6	1.20	1,502	0	8
Intermediate 1	A	1,057	15.6	1.19	1,253	0	8
Intermediate 2							
Intermediate 3							
Production	A	4,091	14.5	1.17	4,805	0	8
Tubing							

Drillers TD (ft) 17,369' Loggers TD (ft) n/a
 Deepest formation penetrated Marcellus Plug back to (ft) n/a
 Plug back procedure n/a

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Kick off depth (ft) 6,147'

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Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

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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 _____

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LACKAWANNA N-4HM
PEFORATION RECORD

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD. Ft.	Number of Perforations	WV Department of Environmental Protection Formation(s)
1	10/27/2021	16,954	17,021	48	Marcellus
2	10/28/2021	16,778	16,925	48	Marcellus
3	10/29/2021	16,602	16,749	48	Marcellus
4	10/30/2021	16,427	16,573	48	Marcellus
5	10/31/2021	16,251	16,397	48	Marcellus
6	11/1/2021	16,075	16,222	48	Marcellus
7	11/2/2021	15,899	16,046	48	Marcellus
8	11/3/2021	15,723	15,870	48	Marcellus
9	11/4/2021	15,548	15,694	48	Marcellus
10	11/5/2021	15,372	15,518	48	Marcellus
11	11/6/2021	15,196	15,343	48	Marcellus
12	11/7/2021	15,020	15,167	48	Marcellus
13	11/8/2021	14,844	14,991	48	Marcellus
14	11/9/2021	14,669	14,815	48	Marcellus
15	11/11/2021	14,493	14,639	48	Marcellus
16	11/12/2021	14,317	14,464	48	Marcellus
17	11/13/2021	14,141	14,288	48	Marcellus
18	11/14/2021	13,965	14,112	48	Marcellus
19	11/15/2021	13,790	13,936	48	Marcellus
20	11/16/2021	13,614	13,760	48	Marcellus
21	11/21/2021	13,438	13,585	48	Marcellus
22	11/23/2021	13,262	13,409	48	Marcellus
23	11/25/2021	13,086	13,233	48	Marcellus
24	11/26/2021	12,911	13,057	48	Marcellus
25	11/27/2021	12,735	12,881	48	Marcellus
26	11/29/2021	12,559	12,706	48	Marcellus
27	11/30/2021	12,383	12,530	48	Marcellus
28	12/1/2021	12,207	12,354	48	Marcellus
29	12/1/2021	12,032	12,178	48	Marcellus
30	12/3/2021	11,856	12,002	48	Marcellus
31	12/4/2021	11,680	11,827	48	Marcellus
32	12/5/2021	11,504	11,651	48	Marcellus
33	12/6/2021	11,328	11,475	48	Marcellus
34	12/7/2021	11,153	11,299	48	Marcellus
35	12/8/2021	10,977	11,123	48	Marcellus
36	12/9/2021	10,801	10,948	48	Marcellus
37	12/10/2021	10,625	10,772	48	Marcellus
38	12/11/2021	10,449	10,596	48	Marcellus
39	12/12/2021	10,274	10,420	48	Marcellus
40	12/13/2021	10,098	10,244	48	Marcellus
41	12/14/2021	9,922	10,069	48	Marcellus
42	12/15/2021	9,746	9,893	48	Marcellus

10/14/2022

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD. Ft.	Number of Perforations	Formation(s)
43	12/16/2021	9,570	9,717	48	Marcellus
44	12/17/2021	9,395	9,541	48	Marcellus
45	12/18/2021	9,219	9,365	48	Marcellus
46	12/19/2021	9,043	9,190	48	Marcellus
47	12/20/2021	8,867	9,014	48	Marcellus
48	12/21/2021	8,691	8,838	48	Marcellus
49	12/22/2021	8,516	8,662	48	Marcellus
50	12/23/2021	8,340	8,486	48	Marcellus
51	12/24/2021	8,164	8,311	48	Marcellus
52	12/25/2021	7,988	8,135	48	Marcellus
53	12/26/2021	7,812	7,959	48	Marcellus
54	12/27/2021	7,637	7,783	48	Marcellus
55	12/28/2021	7,461	7,607	48	Marcellus

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**LACKAWANNA N-4HM
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	83.60	7639	7250	3520	440980	8472	0
2	89.90	7405	4948	4615	445840	8429	0
3	89.80	7129	4721	5115	440640	8264	0
4	89.90	7001	4991	4750	447760	8589	0
5	90.10	7016	4790	5170	445360	8587	0
6	90.10	7014	4828	4384	443320	8432	0
7	89.90	6938	4608	3932	437700	8343	0
8	89.90	6834	4686	4175	443980	8379	0
9	89.20	6604	4643	4135	439020	8359	0
10	90.00	6655	4701	4076	446140	8409	0
11	89.70	6667	4813	4377	441120	7830	0
12	89.70	6699	4645	4232	446060	7945	0
13	89.90	6937	4653	3516	441720	7832	0
14	90.00	6833	4696	3994	441120	7851	0
15	91.30	6805	4726	4220	441400	7752	0
16	90.20	6764	4828	4350	447100	7783	0
17	89.40	6869	4706	5000	438740	7732	0
18	90.00	6899	4614	5144	431360	7710	0
19	89.50	6703	4595	4916	435560	7757	0
20	90.10	6556	4595	5400	439760	7652	0
21	90.80	6513	4571	4425	443620	7667	0
22	89.70	6604	4550	4319	448200	7773	0
23	89.90	6503	4469	4801	443360	7689	0
24	89.70	6631	4646	4817	446940	7781	0
25	89.80	6834	4798	4149	445060	7857	0
26	89.80	6949	4941	4767	436240	7603	0
27	90.20	6719	4627	4919	444680	7726	0
28	90.10	6908	4776	4948	413700	7364	0
29	86.50	7284	4791	4914	377460	7423	0
30	89.40	7153	4967	4185	425020	8130	0
31	90.20	6940	4914	5208	439060	8073	0
32	89.20	6903	4870	4770	445820	8624	0

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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)
33	89.80	6966	4968	4808	443980	8187	0
34	89.50	7089	5192	3796	436780	8463	0
35	90.00	6824	5093	4273	442280	8015	0
36	87.40	6990	5186	4645	425710	7977	0
37	88.90	6977	5187	4978	440240	8036	0
38	89.20	6963	5339	4822	394680	7525	0
39	90.40	6811	5361	5083	435320	7972	0
40	89.80	6596	5919	3784	441020	8104	0
41	90.10	6711	5744	4591	447200	8131	0
42	90.70	6556	5774	4515	446130	8212	0
43	89.90	6450	5835	4413	437080	8054	0
44	90.20	6789	6312	4729	444240	8094	0
45	90.20	6760	6109	4406	440430	8193	0
46	89.90	6629	5988	4988	444080	8131	0
47	90.60	6448	5676	4639	437360	8118	0
48	89.00	6214	5388	4856	439160	8022	0
49	90.20	6254	5502	4192	436680	8104	0
50	89.20	6430	5364	4803	441300	9685	0
51	89.00	6570	5520	4292	346640	7064	0
52	89.80	6101	5152	3991	443660	8026	0
53	89.40	6174	5659	4680	446060	7966	0
54	89.50	6088	5406	4331	437420	7870	0
55	91.60	6038	5570	4166	436130	7800	0

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Lackawanna N-4HM

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	2072	2188	2072	2188	Sandstone
Big Lime	2188	2311	2188	2312	Limestone
Big Injun	2311	2649	2312	2655	Sandstone
Weir	2649	2841	2655	2852	Sandstone
Berea	2841	3222	2852	3255	Sandstone
Gordon	3222	3281	3255	3320	Sandstone
Fifty Foot	3281	3796	3320	3901	Sandstone
Speechley	3796	5160	3901	5430	Sandstone
Benson	5160	5545	5430	5858	Sandstone
Alexander	5545	6132	5858	6487	Siltstone
Rhinstreet	6132	6575	6487	6990	Black Shale
Middlesex	6575	6658	6990	7137	Black Shale
Geneseo/Burkett	6658	6677	7137	7186	Black Shale
Tully	6677	6709	7186	7278	Limestone
Hamilton	6709	6718	7278	7307	Gray Shale
Marcellus	6718	-	7307	-	Black Shale

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	10/27/2021
Job End Date:	12/28/2021
State:	West Virginia
County:	Wetzel
API Number:	47-103-03245-00-00
Operator Name:	Tug Hill Operating, LLC
Well Name and Number:	Lackawanna N-4HM
Latitude:	-80.85670714
Longitude:	39.60606594
Datum:	NAD27
Federal Well:	YES
Indian Well:	NO
True Vertical Depth:	6,753
Total Base Water Volume (gal):	19,279,638
Total Base Non Water Volume:	0

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Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (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	100.00000	69.93601	None
Sand (30/50 Mesh Proppant)	US Silica	Proppant	Silica Substrate	14808-60-7	100.00000	20.44517	None
Sand (40/70 Mesh Proppant)	US Silica	Proppant	Silica Substrate	14808-60-7	100.00000	7.09046	None
Sand (100 Mesh Proppant)	US Silica	Proppant	Silica Substrate	14808-60-7	100.00000	2.42940	None
StimSTREAM FR 9800	Chemstream Oilfield Services	Friction Reduction	copolymer of 2-propenamide	Proprietary	25.00000	0.01095	None
			Petroleum Distillate	64742-47-8	18.00000	0.00788	None
			Oleic Acid Diethanolamide	93-83-4	3.00000	0.00131	None
			Alcohols, C12-16, ethoxylated	68551-12-2	2.00000	0.00088	None
			Ammonium chloride ((NH4)Cl)	12125-02-9	1.00000	0.00044	None
Hydrochloric Acid (28%)	Dover	Acidizing					

			Hydrochloric Acid (Hydrogen Chloride)	7647-01-0	28.00000	0.01540	None
Plexhib 166	Chemplex Solvay	Corrosion Inhibitor/Iron Control					
			Methanol	67-56-1	96.00000	0.00016	None
			Proargyl alcohol	107-19-7	3.00000	0.00000	None
			Formaldehyde	50-00-0	1.00000	0.00000	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					
			Petroleum Distillate	64742-47-8	18.00000	0.00788	
			Oleic Acid Diethanolamide	93-83-4	3.00000	0.00131	
			Alcohols, C12-16, ethoxylated	68551-12-2	2.00000	0.00088	
			Ammonium chloride ((NH4)Cl)	12125-02-9	1.00000	0.00044	
			Proargyl alcohol	107-19-7	3.00000	0.00000	
			Formaldehyde	50-00-0	1.00000	0.00000	

* 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%

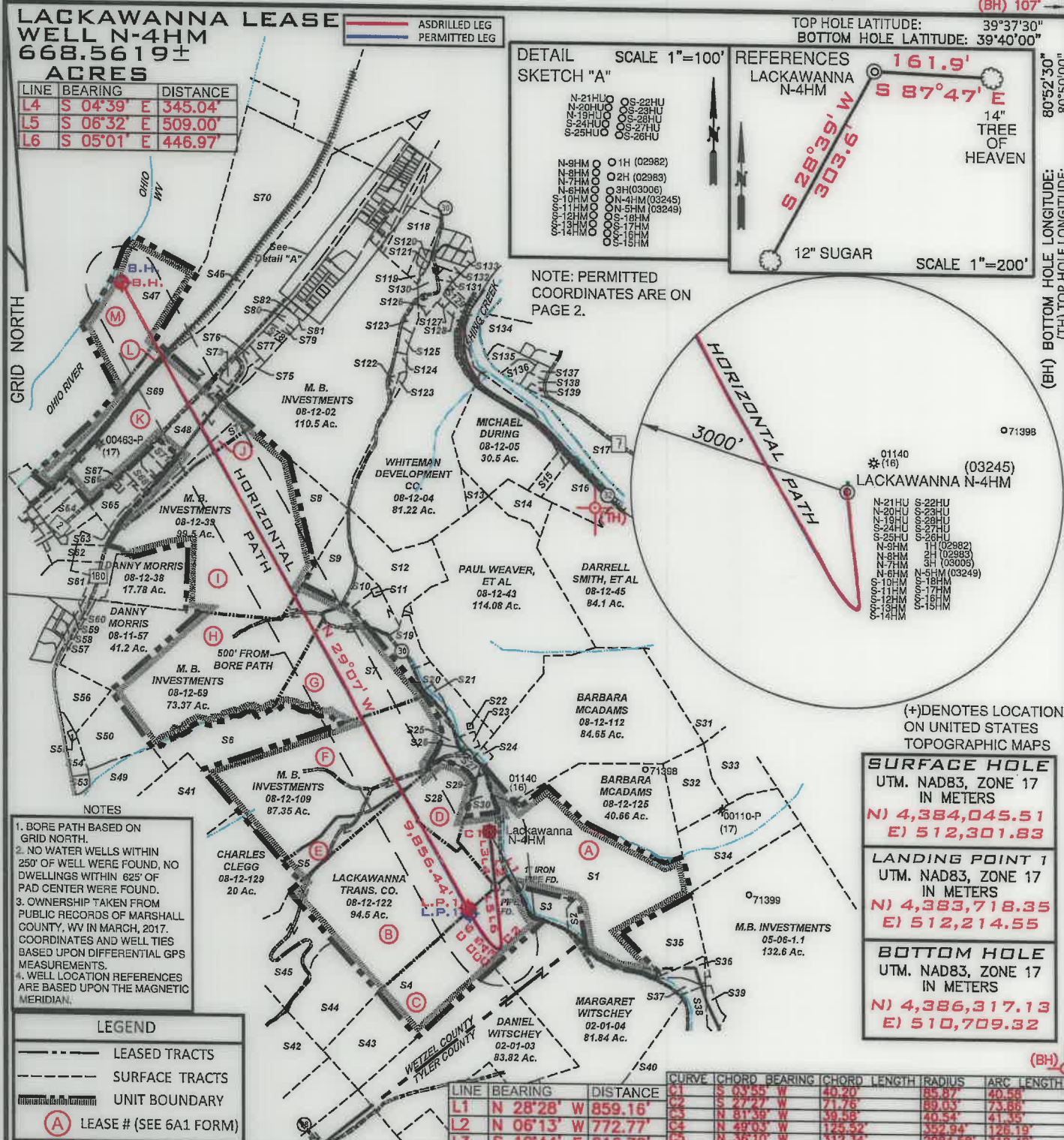
Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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- NOTES**
- BORE PATH BASED ON GRID NORTH.
 - NO WATER WELLS WITHIN 250' OF WELL WERE FOUND, NO DWELLINGS WITHIN 625' OF PAD CENTER WERE FOUND.
 - OWNERSHIP TAKEN FROM PUBLIC RECORDS OF MARSHALL COUNTY, WV IN MARCH, 2017. COORDINATES AND WELL TIES BASED UPON DIFFERENTIAL GPS MEASUREMENTS.
 - WELL LOCATION REFERENCES ARE BASED UPON THE MAGNETIC MERIDIAN.

LEGEND

- LEASED TRACTS
- SURFACE TRACTS
- UNIT BOUNDARY
- (A) LEASE # (SEE 6A1 FORM)

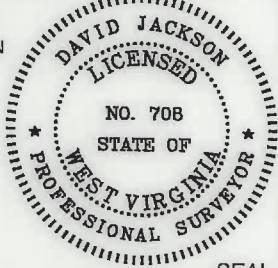
FILE NUMBER _____
 DRAWING NUMBER: **LACKAWANNA N-4HM REV 2**
 SCALE **1" = 2000'**
 MINIMUM DEGREE OF ACCURACY **1/200**
 PROVEN SOURCE OF ELEVATION **SUBMETER MAPPING GRADE GPS**

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 L Jackson

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

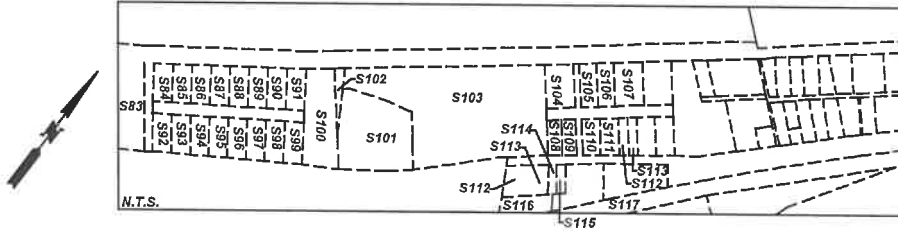


WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET, SE
 CHARLESTON, WV 25304

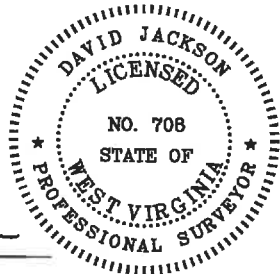
DATE: **MAY 26, 2021**
 OPERATORS WELL NO. **LACKAWANNA N-4HM**
 API WELL NO. **47-103-03245**
 STATE **WV** COUNTY **WETZEL** PERMIT _____
 LOCATION ELEVATION **1305.59'** WATERSHED (HUC 10) **OUTLET MIDDLE ISLAND CREEK**
 DISTRICT **MAGNOLIA** COUNTY **WETZEL**
 QUADRANGLE **PORTER FALLS 7.5'** LEASE NUMBER **SEE WW-6A1 Form**
 SURFACE OWNER **M. B. INVESTMENTS** ACREAGE **88.10** DATE **10/14/2022**
 OIL & GAS ROYALTY OWNER **M. B. INVESTMENTS, ET AL** LEASE ACREAGE **88.09**
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE (SPECIFY) **ASDRILLED**
 TARGET FORMATION **MARCELLUS** PLUG & ABANDON CLEAN OUT & REPLUG
 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**

ASDRILLED LEG PERMITTED LEG
 TOP HOLE LATITUDE: 39°37'30"
 BOTTOM HOLE LATITUDE: 39°40'00"
 (TH) 6,630' (BH) 107'
 14" TREE OF HEAVEN
 12" SUGAR
 SCALE 1"=200'
 (BH) 80°52'30" (TH) TOP HOLE LONGITUDE: 80°50'00"
 (BH) 14,632' (TH) 6,930'

**LACKAWANNA LEASE
WELL N-4HM
668.5619± ACRES**



SURFACE HOLE UTM. NAD83, ZONE 17 IN METERS N) 4,384,045.69 E) 512,301.43
LANDING POINT 1 UTM. NAD83, ZONE 17 IN METERS N) 4,383,696.73 E) 512,223.54
BOTTOM HOLE UTM. NAD83, ZONE 17 IN METERS N) 4,386,319.25 E) 510,708.20



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TUG HILL
OPERATING

OPERATOR'S
WELL #: LACKAWANNA N-4HM
DISTRICT: Magnolia
COUNTY: Wetzel
STATE: WV
API #: 47-103-03245

WELL PLAT
PAGE 2 OF 3
DATE: 05/26/2021

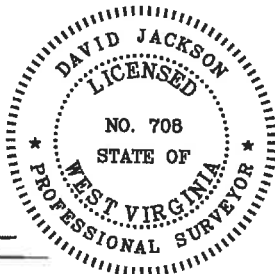
**LACKAWANNA LEASE
WELL N-4HM
668.5619± ACRES**

Number	TAX MAP-PARCEL	SURFACE OWNER	ACRES
S1	08-12-134	M. B. Investments	88.09
S2	08-12-134.1	Raymond L. & Elizabeth Pibble	2.14
S3	08-12-134.3	M. B. Investments	5.55
S4	08-17-04	M. B. Investments	46.75
S5	08-12-109.1	M. B. Investments	10.0019
S6	08-12-108	M. B. Investments	24.0
S7	08-12-70	M. B. Investments	50.37
S8	08-12-14	Thomas & Helena McLaughlin	10.5
S9	08-12-40	Timothy Doty & Helena McLaughlin	8.83
S10	08-12-41	Michael A. & Annabelle Corbin & Paul E. & Christine Weaver	3.39
S11	08-12-42	Shriver Cemetery	1.0
S12	08-12-43.1	Michael A. & Annabelle Corbin & Paul E. & Christine Weaver	22.25
S13	08-12-15	Michael A. & Annabelle Corbin & Paul E. & Christine Weaver	2.6
S14	08-12-44	Richard L. Armstrong	8.0
S15	08-12-5.1	Michael & Joyce Durig	4.0
S16	08-12-16	Russell Dalrymple, et al	11.87
S17	08-12-08	Calvin Dean Cross	14.96
S18	08-12-17	Virgie E. Kuhns	1.25
S19	08-12-43.2	Michael A. & Annabelle Corbin & Paul E. & Christine Weaver	7.25
S20	08-12-43.5	M. B. Investments	8.774
S21	08-12-43.4	Michael A. & Annabelle Corbin & Paul E. & Christine Weaver	0.996
S22	08-12-43.3	Geraldine C. Cross	0.13
S23	08-12-111	WV Conservation Comm.	1.0
S24	08-12-112.1	M. B. Investments	0.82
S25	08-12-110	Lackawanna Transport Company	3.59
S26	08-12-72	Paul E. & Christine Weaver	0.50
S27	08-12-124	M. B. Investments	2.23
S28	08-12-123	Lackawanna Transport Company	18.55
S29	08-12-134.2	M. B. Investments	0.23
S30	08-12-134.4	M. B. Investments	3.51
S31	08-12-113	Jacob Presley Morgan III	16.30
S32	08-12-126	Jacob Presley Morgan III	16.06
S33	08-12-127	Jacob Presley Morgan III	10.0
S34	08-12-136	Jacob Presley Morgan III	28.25
S35	08-12-135	Timothy J. Haynes & Gary W. Woofar	21.0
S36	02-01-5.2	Mark K. & Teresa J. Loy	2.94
S37	02-01-5.3	Mark K. & Teresa J. Loy	1.939
S38	02-01-5.1	Mark K. & Teresa J. Loy	4.56
S39	05-06-01	Mark K. & Teresa J. Loy	2.37
S40	02-01-05	Daniel A. Witschey	21.5
S41	08-12-121	Charles E. & Mary Elizabeth Clegg	31.94
S42	08-12-129	Charles E. & Mary Elizabeth Clegg	20.0
S43	08-12-05	Michael Lloyd & Joyce Diana Durig	30.5
S44	08-17-07	Lackawanna Transport Company	21.37
S45	08-17-7.1	Lackawanna Transport Company	25.64
S46		CSX Railroad	
S47	Ohio River	State of WV, Department of Commerce, Division of Natural Resources	
S48	Rt 180	State Road Commission	15.96
S49	08-12-106	Thomas C. Pennell	15.96
S50	08-12-106.1	Thomas R. & Tamara D. Pennell	14.04
S56	08-11-61	Hunter B. McAdams & Doug McAdams	7.61
S61	08-11-19	Lisa Straight & Edwin Rial	6.3
S62	08-11-39.1	William L. & Beulah Talkington	1.83
S63	08-11-41	A+A Supply, LLC	1.63
S64	08-11-35	Lisa Straight & Edwin Rial	5.9
S65	08-12-11	Calvin T. Hedrick	6.64
S66	08-12-11.1	Larry D. McCaman	0.25
S67	08-12-11.3	Larry McCaman	0.807
S68	08-12-11.4	Paul Andrew James Simmons, Jr.	1.94
S69	08-12-01	Mount Clare Properties, Inc	50.71
S70	08-07-105	Mount Clare Properties, Inc	116.08
S71	08-12-11.2	Ascent Resources Marcellus Minerals, LLC	1.811
S72	08-12-13	M. B. Investments	8.18
S73	08-12-139	Department of Public Safety	1.37
S75	08-07-87.2	H. Lee Scott Jr.	1.110
S76	08-07-87.1	H. Lee Scott Jr.	0.95
S77	08-07-87	H. Lee Scott Jr. & Stephen A. & Betty A. Davis	2.221

Number	TAX MAP-PARCEL	SURFACE OWNER	ACRES
S78	08-07-88	Living Quarters, LLC	1.08
S79	08-07-89.3	Living Quarters, LLC	0.94
S80	08-07-89.2	Barbara S. Nice	0.89
S81	08-07-89	Barbara S. Nice	0.40
S82	08-07-89.1	Barbara S. Nice	0.40
S83	08-07-90	Barbara Shank	0.70
S84	08-07-91	Dennis Phillips	0.20
S85	08-07-92	Karen D. Pugh	0.20
S86	08-07-93	Darrell S. & Diana Lynn Hartwig	0.20
S87	08-07-94	Ronald D. & Carole Dawson	0.21
S88	08-07-95	Debra Barrile, (Leslie L. Deboit, land contract)	0.21
S89	08-07-96	Rita E. Barrick	0.21
S90	08-07-102	Michael Vaughn Skeen & Patricia Ann Sawyer	0.22
S91	08-07-103.1	Charlotte M. Adams	0.22
S92	08-07-97	David Ray Christian	0.20
S93	08-07-98	David Ray Christian	0.20
S94	08-07-98.1	Lionel Kent, Helen A. Potts & Deloris Potts (Life)	0.20
S95	08-07-99	Lionel Kent, Helen A. Potts & Deloris Potts (Life)	0.20
S96	08-07-100	James J. & Carol Clark	0.21
S97	08-07-101	Doris A. Fannin & Richard S. Williamson	0.21
S98	08-07-102.1	Ronald E. Jr. & Lori J McCoy	0.21
S99	08-07-103	Michael L. & Joyce D. Durig	0.21
S100	08-07-104	Lisa Denise Bridge	0.12
S101	08-07-106.1	Tiona Henthorn	1.49
S102	08-07-104.1	Lisa Denise Bridge	0.06
S103	08-07-106	Route 2 South, LLC	4.33
S104	08-07-107	Route 2 South, LLC	0.36
S105	08-07-108	Donald W. Owens, Jr.	0.21
S106	08-07-109	Douglas E. & Amber L. Straight	0.21
S107	08-07-110	Allen R. & Malinda J. Laugh	0.34
S108	08-07-114	William & Ruth Leek	0.14
S109	08-07-115	William J. Leek	0.14
S110	08-07-116	Betty J. Yoho (Life), Sandra M. Hardman	0.20
S111	08-07-117	Jerry W. & Elizabeth Southerly	0.21
S112	08-07-123.1	William & Ruth Ann Leek	0.23
S113	08-07-123.2	William & Ruth Ann Leek	0.01
S114	08-07-124	William & Ruth Ann Leek	0.08
S115	08-07-125	William & Ruth Ann Leek	0.07
S116	08-07-129	Mary Burton, et al	1.10
S117	08-07-127	William Sherman & Ruth Ann Leek	0.49
S118	08-07-131.3	Nancy J. Todd	9.726
S119	08-07-131.1	Edgar W. Whiteman, Jr.	1.25
S120	08-07-131.4	Nancy J. Todd	0.989
S121			
S122	08-12-03	O. Terrell Coffield Family Trust	0.98
S123	08-12-4.1	Whiteman Development Co., LLC & PRN, LLC	2.59
S124	08-07-142	Pamela E. Weisenbarger	1.35
S125	08-07-142.1	Thomas W. II & Teena B. Emch	1.35
S126	08-07-160	Frank L. Price, Jr.	1.28
S127	08-07-144	Roger Hall, et al	5.58
S128	08-07-143	Dominic D. Yost	1.0
S129	08-07-144.1	Donald J. & Debby J. Powell	2.25
S130	08-07-137	462 Properties, LLC	1.836
S131	08-07-137.1	Anna E. McPeak	0.94
S134	08-07-145	Lois J. Day	8.008
S135	08-07-145.5	Jodi Forni	3.65
S136	08-07-145.3	Jodi Forni	2.641
S137	08-07-145.2	David J. Jackson, (Life), James & Ruth Jackson	0.813
S138	08-12-06	David J. Jackson, (Life), James & Ruth Jackson	1.74
S139	08-12-07	David J. Jackson, (Life), James & Ruth Jackson	0.35
S140	08-07-126	William Sherman & Ruth Ann Leek	0.30
S141	08-07-117.1	Donald L. Larsen, Jr.	0.21
S142	08-07-119	Joshua D. Larsen, Jr.	0.22
S143	08-07-111	Allen R. & Malinda J. Laugh	0.34
S144	08-07-120	William D. Lawrence	1.51
S145	08-07-112	Charles D. & Shirley L. White	0.17
S146	08-07-113	Joe's Tire III, LLC	0.60
S147	08-07-122	Moser & Moser Associates, Inc.	0.50
S148	08-07-121	Moser & Moser Associates, Inc.	0.10
S149	08-07-123	M.B. Investments	8.50

P.S. 708

David L Jackson



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Environmental Protection

10/14/2022



**TUG HILL
OPERATING**

OPERATOR'S
WELL #: LACKAWANNA N-4HM
DISTRICT: Magnolia
COUNTY: Wetzel
STATE: WV
API #: 47-103-03245

WELL PLAT
PAGE 3 OF 3
DATE: 05/26/2021