

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

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Office of Oil and Gas
SEP 30 2022
WV Department of
Environmental Protection

API 47-103-03249 County Wetzel District Magnolia
Quad Porter Falls 7.5' Pad Name Lackawanna Field/Pool Name _____
Farm name M.B. Investments Well Number Lackawanna N-5HM
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 4,384,041.75 Easting 512,301.72
Landing Point of Curve Northing 4,383,521.87 Easting 512,039.15
Bottom Hole Northing 4,386,100.51 Easting 510,580.43

Elevation (ft) 1305.75' 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 10/29/2018 Date drilling commenced spud: 5/10/2019 big rig: 6/10/2019 Date drilling ceased 6/28/2019
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

APPROVED OCT 04 2022

Thomas L. Reynolds

Reviewed by:

10/14/2022

API 47- 103 - 03249

Farm name M.B. Investments

Well number Lackawanna N-5HM

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"	1,223'	NEW	48#	N/A	Y
Coal	17 1/2"	13 1/8"	1,223'	NEW	48#	N/A	Y
Intermediate 1	12 1/4"	9 5/8"	3,114'	NEW	36#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8 7/8"	5 1/2"	17,360'	NEW	20#	N/A	Y
Tubing		2 3/8"	8,680'	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	1,237	15.6	1.20	1,237	0	8
Coal	A	1,237	15.6	1.20	1,237	0	8
Intermediate 1	A	1,070	15.6	1.19	1,269	0	8
Intermediate 2							
Intermediate 3							
Production	A	4,901	14.5	1.17	5,756	0	8
Tubing							

Drillers TD (ft) 17,378'

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) 6,227'

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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 _____

10/14/2022

API 47- 103 - 03249 Farm name M.B. Investments Well number Lackawanna N-5HM

PERFORATION RECORD

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

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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- 103 - 03249 Farm name M.B. Investments Well number Lackawanna N-5HM

PRODUCING FORMATION(S)	DEPTHS	
MARCELLUS	6749'-6637' TVD	7620'-17378' MD

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Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 1300 psi Bottom Hole _____ psi DURATION OF TEST 4 hrs

OPEN FLOW Gas 768 mcfpd Oil 48 bpd NGL _____ bpd Water 600 bpd GAS MEASURED BY Estimated Orifice Pilot

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

Please insert additional pages as applicable.

Drilling Contractor Precision
Address 10350 Richmond Avenue, Suite 700 City Houston State TX Zip 77042

Logging Company n/a
Address _____ City _____ State _____ Zip _____

Cementing Company BJ Services
Address 4000 Town Center Boulevard City Canonsburg State PA Zip 15317

Stimulating Company Stingray
Address 66680 Executive Drive City St. Clairsville State OH Zip 43950

Please insert additional pages as applicable.

Completed by Amy L. Morris Telephone 304-376-0111
Signature Amy L. Morris Title Permitting Specialist Date 9-29-2022

SEP 30 2022

WV Department of
Environmental ProtectionLACKAWANNA N-5HM
PEFORATION RECORD

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD. Ft.	Number of Perforations	Formation(s)
1	10/27/2021	16,968	17,113	48	Marcellus
2	10/28/2021	16,794	16,939	48	Marcellus
3	10/29/2021	16,620	16,765	48	Marcellus
4	10/30/2021	16,446	16,591	48	Marcellus
5	10/31/2021	16,272	16,417	48	Marcellus
6	11/1/2021	16,098	16,243	48	Marcellus
7	11/2/2021	15,924	16,069	48	Marcellus
8	11/3/2021	15,750	15,895	48	Marcellus
9	11/4/2021	15,576	15,721	48	Marcellus
10	11/5/2021	15,402	15,547	48	Marcellus
11	11/6/2021	15,228	15,373	48	Marcellus
12	11/7/2021	15,054	15,199	48	Marcellus
13	11/8/2021	14,880	15,025	48	Marcellus
14	11/9/2021	14,706	14,851	48	Marcellus
15	11/11/2021	14,532	14,677	48	Marcellus
16	11/12/2021	14,358	14,503	48	Marcellus
17	11/13/2021	14,184	14,329	48	Marcellus
18	11/14/2021	14,010	14,155	48	Marcellus
19	11/15/2021	13,836	13,981	48	Marcellus
20	11/16/2021	13,662	13,807	48	Marcellus
21	11/22/2021	13,488	13,633	48	Marcellus
22	11/23/2021	13,314	13,459	48	Marcellus
23	11/25/2021	13,140	13,285	48	Marcellus
24	11/26/2021	12,966	13,111	48	Marcellus
25	11/27/2021	12,792	12,937	48	Marcellus
26	11/29/2021	12,618	12,763	48	Marcellus
27	11/30/2021	12,444	12,589	48	Marcellus
28	12/1/2021	12,270	12,415	48	Marcellus
29	12/2/2021	12,096	12,241	48	Marcellus
30	12/3/2021	11,922	12,067	48	Marcellus
31	12/4/2021	11,748	11,893	48	Marcellus
32	12/5/2021	11,574	11,719	48	Marcellus
33	12/6/2021	11,400	11,545	48	Marcellus
34	12/7/2021	11,226	11,371	48	Marcellus
35	12/8/2021	11,052	11,197	48	Marcellus
36	12/9/2021	10,878	11,023	48	Marcellus
37	12/10/2021	10,704	10,849	48	Marcellus
38	12/11/2021	10,530	10,675	48	Marcellus
39	12/12/2021	10,356	10,501	48	Marcellus
40	12/13/2021	10,182	10,327	48	Marcellus
41	12/14/2021	10,008	10,153	48	Marcellus
42	12/15/2021	9,834	9,979	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	9,660	9,805	48	Marcellus
44	12/17/2021	9,486	9,631	48	Marcellus
45	12/18/2021	9,312	9,457	48	Marcellus
46	12/19/2021	9,138	9,283	48	Marcellus
47	12/20/2021	8,964	9,109	48	Marcellus
48	12/21/2021	8,790	8,935	48	Marcellus
49	12/22/2021	8,616	8,761	48	Marcellus
50	12/23/2021	8,442	8,587	48	Marcellus
51	12/24/2021	8,268	8,413	48	Marcellus
52	12/25/2021	8,094	8,239	48	Marcellus
53	12/26/2021	7,920	8,065	48	Marcellus
54	12/27/2021	7,746	7,891	48	Marcellus
55	12/28/2021	7,572	7,717	48	Marcellus

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**LACKAWANNA N-5HM
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	89.60	7714	5792	3500	440170	8722	0
2	90.30	7271	4876	5000	437340	8439	0
3	90.00	7135	4874	5220	437080	8259	0
4	89.90	6997	4778	5080	449100	8528	0
5	90.10	6988	4812	4870	440820	8511	0
6	89.50	6938	4593	4240	446200	8474	0
7	90.10	6922	4755	4168	447500	8423	0
8	90.10	6673	4715	4156	440240	8375	0
9	88.70	6468	4692	4591	447300	8414	0
10	89.70	6623	4755	4429	443320	8483	0
11	89.80	6561	4467	3822	446140	7927	0
12	90.00	6549	4529	4074	439080	7856	0
13	89.70	6723	4459	3729	440640	7798	0
14	89.60	6633	4545	3689	441120	7800	0
15	89.70	6652	4533	4880	444500	7818	0
16	89.50	6713	4607	5383	445680	7750	0
17	89.60	6693	4449	5195	434680	7617	0
18	89.70	6700	4418	5400	436080	7774	0
19	89.70	6619	4488	5000	437960	8006	0
20	89.70	6590	4446	5680	443680	7827	0
21	89.80	6640	4475	4908	444120	7701	0
22	90.10	6604	4509	4582	444180	7756	0
23	90.10	6598	4495	4657	443840	7722	0
24	89.80	6697	4590	4782	438940	7679	0
25	89.30	6890	4646	4658	442100	7689	0
26	89.80	6905	4613	5054	440820	7813	0
27	90.20	6914	4916	5004	443570	7645	0
28	89.80	6866	4977	4702	448740	7663	0
29	89.70	7205	4852	5197	351880	7662	0
30	90.20	6998	4943	5151	444100	8265	0
31	89.20	6957	5124	4562	445200	8302	0
32	89.30	6873	4975	5150	444780	8213	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	7045	4987	5165	436720	8007	0
34	89.30	6951	4974	5276	434620	7976	0
35	89.50	6950	5135	5327	436989	8159	0
36	89.20	6978	5070	5134	444680	8073	0
37	89.90	6856	5101	5332	446700	8169	0
38	89.10	6899	5053	4931	440740	8142	0
39	90.00	6702	5082	4877	438700	8049	0
40	89.80	6770	5436	4448	445520	8114	0
41	90.20	6591	5285	4471	435200	8106	0
42	90.20	6599	5662	4674	444960	8321	0
43	90.50	6428	5501	3847	441000	8122	0
44	89.90	6454	6420	4749	441380	8036	0
45	90.30	6652	5454	5088	444820	8025	0
46	90.00	6780	5517	4867	443280	8246	0
47	90.70	6218	5043	4609	445020	8250	0
48	90.50	6306	5143	4663	444500	8175	0
49	90.40	6355	5073	4188	445840	8193	0
50	90.40	6171	4730	4577	440820	8050	0
51	90.00	6397	4953	4227	446940	8533	0
52	89.60	6145	4877	4345	438320	7994	0
53	88.60	6158	4915	4469	436160	7898	0
54	89.50	5956	4867	3985	438800	8022	0
55	90.60	6055	4725	4517	424630	7896	0

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Lackawanna N-5HM

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	2062	2178	2063	2179	Sandstone
Big Lime	2178	2301	2179	2303	Limestone
Big Injun	2301	2639	2303	2649	Sandstone
Weir	2639	2831	2649	2850	Sandstone
Berea	2831	3212	2850	3262	Sandstone
Gordon	3212	3271	3262	3328	Sandstone
Fifty Foot	3271	3786	3328	3919	Sandstone
Speechley	3786	5150	3919	5489	Sandstone
Benson	5150	5535	5489	5956	Sandstone
Alexander	5535	6122	5956	6651	Siltstone
Rhinestreet	6122	6567	6651	7173	Black Shale
Middlesex	6567	6653	7173	7315	Black Shale
Geneseo/Burkett	6653	6674	7315	7359	Black Shale
Tully	6674	6702	7359	7428	Limestone
Hamilton	6702	6713	7428	7457	Gray Shale
Marcellus	6713	-	7457	-	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:	47-103-03249-00-00
Operator Name:	Tug Hill Operating, LLC
Well Name and Number:	Lackawanna N-5HM
Latitude:	-80.85670914
Longitude:	39.60603303
Datum:	NAD27
Federal Well:	YES
Indian Well:	NO
True Vertical Depth:	6,760
Total Base Water Volume (gal):	19,437,936
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	69.16303	None
Sand (30/50 Mesh Proppant)	US Silica	Proppant	Silica Substrate	14808-60-7	100.00000	21.38216	None
Sand (40/70 Mesh Proppant)	US Silica	Proppant	Silica Substrate	14808-60-7	100.00000	6.95090	None
Sand (100 Mesh Proppant)	US Silica	Proppant	Silica Substrate	14808-60-7	100.00000	2.40371	None
StimSTREAM FR 9800	Chemstream Oilfield Services	Friction Reduction	copolymer of 2-propenamide	Proprietary	25.00000	0.01171	None
			Petroleum Distillate	64742-47-8	18.00000	0.00843	None
			Oleic Acid Diethanolamide	93-83-4	3.00000	0.00140	None
			Alcohols, C12-16, ethoxylated	68551-12-2	2.00000	0.00094	None
			Ammonium chloride ((NH4)Cl)	12125-02-9	1.00000	0.00047	None
Hydrochloric Acid (28%)	Dover	Acidizing					

			Hydrochloric Acid (Hydrogen Chloride)	7647-01-0	28.00000	0.01490	None
Plexhib 166	Chemplex Solvay	Corrosion Inhibitor/Iron Control					
			Methanol	67-56-1	96.00000	0.00015	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	0.00843	
			Oleic Acid Diethanolamide	93-83-4	3.00000	0.00140	
			Alcohols, C12-16, ethoxylated	68551-12-2	2.00000	0.00094	
			Ammonium chloride ((NH4)Cl)	12125-02-9	1.00000	0.00047	
			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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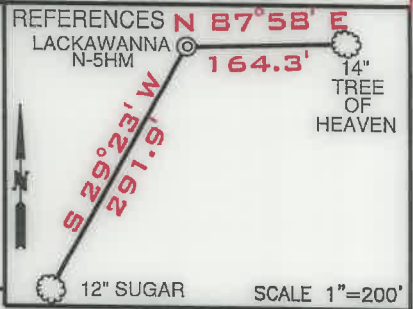
WV Department of
Environmental Protection

**LACKAWANNA LEASE
WELL N-5HM
695.4329± ACRES**

ASDRILLED LEG
PERMITTED LEG

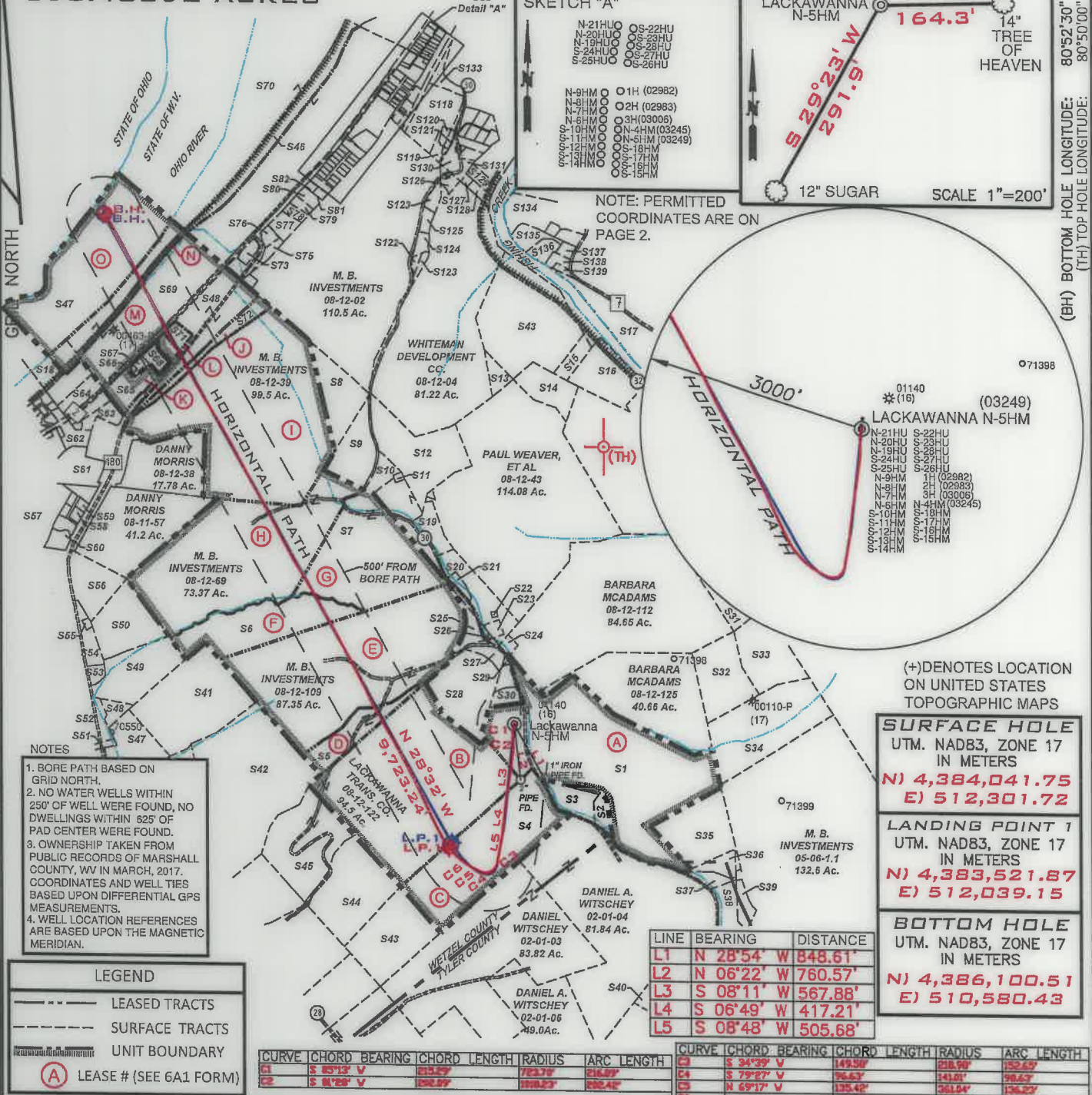
TOP HOLE LATITUDE: 39°37'30"
BOTTOM HOLE LATITUDE: 39°37'30"

DETAIL SCALE 1"=100'
SKETCH "A"



- N-21HU OS-22HU
- N-20HU OS-23HU
- N-19HU OS-24HU
- S-24HU OS-27HU
- S-25HU OS-26HU
- N-9HM O1H (02982)
- N-9HM O2H (02983)
- N-7HM O3H (03006)
- N-6HM O4H (03245)
- N-5HM O5H (03249)
- N-4HM O6H (03249)
- N-3HM O7H
- N-2HM O8H
- N-1HM O9H
- N-0HM O10H
- N-0HM O11H
- N-0HM O12H
- N-0HM O13H
- N-0HM O14H
- N-0HM O15H

NOTE: PERMITTED COORDINATES ARE ON PAGE 2.



- 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)

(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

SURFACE HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,384,041.75
E) 512,301.72

LANDING POINT 1
UTM. NAD83, ZONE 17
IN METERS
N) 4,383,521.87
E) 512,039.15

BOTTOM HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,386,100.51
E) 510,580.43

FILE NUMBER _____
DRAWING NUMBER:
LACKAWANNA_N-5HM_REV 1

SCALE 1" = 2000'

MINIMUM DEGREE OF ACCURACY 1/200

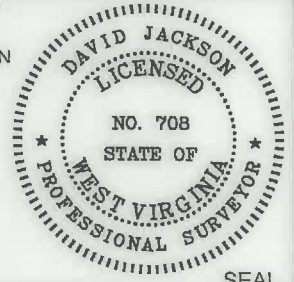
PROVEN SOURCE OF ELEVATION SUBMETER MAPPING
GRADE GPS

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-5HM

API WELL NO. 47-103-03249

STATE COUNTY PERMIT

LOCATION ELEVATION 1305.75' WATERSHED (HUC 10) OUTLET MIDDLE ISLAND CREEK

DISTRICT MAGNOLIA COUNTY WETZEL

QUADRANGLE PORTER FALL 7.5' LEASE NUMBER SEE WW-6A1 Form

SURFACE OWNER M. B. INVESTMENTS ACREAGE 88.10/14/2022

OIL & GAS ROYALTY OWNER M. B. INVESTMENTS, ET AL LEASE ACREAGE 88.09

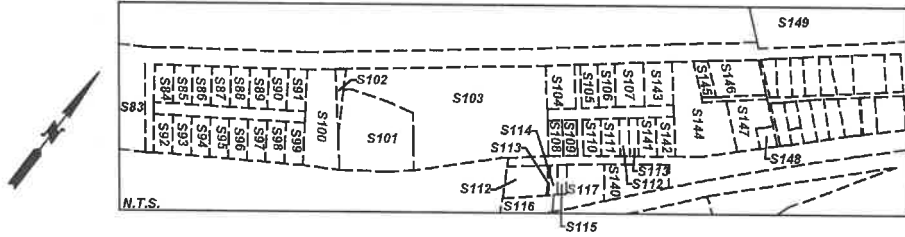
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE (SPECIFY) ASDRILLED

TARGET FORMATION MARCELLUS ESTIMATED DEPTH TVD: 6,637' TMD: 17,378'

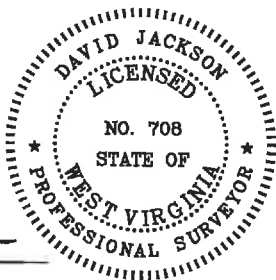
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER
CT CORPORATION SYSTEM

ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107 ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

**LACKAWANNA LEASE
WELL N-5HM
695.4329± ACRES**



<p>SURFACE HOLE UTM. NAD83, ZONE 17 IN METERS N) 4,384,042.03 E) 512,301.27</p>
<p>LANDING POINT 1 UTM. NAD83, ZONE 17 IN METERS N) 4,383,542.91 E) 512,048.79</p>
<p>BOTTOM HOLE UTM. NAD83, ZONE 17 IN METERS N) 4,386,101.98 E) 510,571.36</p>



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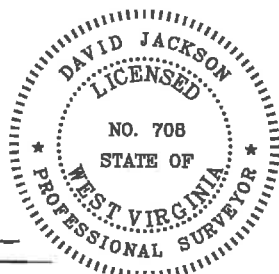
OPERATOR'S
WELL #: LACKAWANNA N-5HM
DISTRICT: Maqnoia
COUNTY: Wetzel
STATE: wv
API #: 47-103-03249

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

**LACKAWANNA LEASE
WELL N-5HM
695.4329± 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. Woofter	21.0
S36	02-01-5.2	Mark K. & Teresa J. Loy	2.945
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. & Tamera 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 Barrille, (Leslie L. Debolt, 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



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OPERATOR'S
WELL #: LACKAWANNA N-5HM
DISTRICT: Maqnoia
COUNTY: Wetzel
STATE: WV
API #: 47-103-03249

WELL PLAT
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