

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 - 02983 County Wetzel District Magnolia  
Quad Porter Falls 7.5' Pad Name Lackawanna Field/Pool Name \_\_\_\_\_  
Farm name M.B. Investments Well Number Lackawanna 2H  
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 4,384,055.18 Easting 512,302.50  
Landing Point of Curve Northing 4,384,002.31 Easting 512,584.74  
Bottom Hole Northing 4,386,943.64 Easting 510,868.24

Elevation (ft) 1305.35' 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 <sup>spud: 9/23/2014 big rig: 8/11/2019</sup> \_\_\_\_\_ Date drilling ceased 8/26/2019  
Date completion activities began 10/26/2021 Date completion activities ceased 12/27/2021  
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:  
10/14/2022

APPROVED OCT 11 2022  
*Keith L. Reynolds*

API 47- 103 - 02983 Farm name M.B. Investments Well number Lackawanna 2H

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	26"	20"	40"	NEW	BW	N/A	Y
Surface	17 1/2"	13 3/8"	1,265'	NEW	48#	N/A	Y
Coal	17 1/2"	13 1/8"	1,265'	NEW	48#	N/A	Y
Intermediate 1	12 1/4"	9 5/8"	2,713'	NEW	36#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8 7/8"	5 1/2"	18,600'	NEW	20#	N/A	Y
Tubing		2 3/8"	9,300'	NEW	4.7#	N/A	Y N
Packer type and depth set							

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	A	65	15.6	1.21	78	0	8
Surface	A	933	15.6	1.21	1,128	0	8
Coal	A	933	15.6	1.21	1,128	0	8
Intermediate 1	A	954	15.6	1.19	1,135	0	8
Intermediate 2							
Intermediate 3							
Production	A	4,563	14.5	1.17	5,357	0	8
Tubing							

Drillers TD (ft) 18,645'      Loggers TD (ft) n/a  
 Deepest formation penetrated Marcellus      Plug back to (ft) n/a  
 Plug back procedure n/a

Kick off depth (ft) 6,105'

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 \_\_\_\_\_

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LACKAWANNA 2H  
PERFORATION RECORDWV Department of  
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Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD. Ft.	Number of Perforations	Formation(s)
1	10/26/2021	18,203	18,349	48	Marcellus
2	10/27/2021	18,027	18,173	48	Marcellus
3	10/28/2021	17,851	17,997	48	Marcellus
4	10/29/2021	17,675	17,821	48	Marcellus
5	10/30/2021	17,499	17,645	48	Marcellus
6	10/31/2021	17,323	17,469	48	Marcellus
7	11/1/2021	17,147	17,293	48	Marcellus
8	11/2/2021	16,971	17,117	48	Marcellus
9	11/4/2021	16,795	16,941	48	Marcellus
10	11/5/2021	16,619	16,765	48	Marcellus
11	11/6/2021	16,443	16,589	48	Marcellus
12	11/7/2021	16,267	16,413	48	Marcellus
13	11/8/2021	16,091	16,237	48	Marcellus
14	11/9/2021	15,915	16,061	48	Marcellus
15	11/10/2021	15,739	15,885	48	Marcellus
16	11/11/2021	15,563	15,709	48	Marcellus
17	11/12/2021	15,387	15,533	48	Marcellus
18	11/13/2021	15,211	15,357	48	Marcellus
19	11/14/2021	15,035	15,181	48	Marcellus
20	11/16/2021	14,859	15,005	48	Marcellus
21	11/17/2021	14,683	14,829	48	Marcellus
22	11/17/2021	14,507	14,653	48	Marcellus
23	11/18/2021	14,331	14,477	48	Marcellus
24	11/19/2021	14,155	14,301	48	Marcellus
25	11/19/2021	13,979	14,125	48	Marcellus
26	11/19/2021	13,803	13,949	48	Marcellus
27	11/20/2021	13,627	13,773	48	Marcellus
28	11/20/2021	13,451	13,597	48	Marcellus
29	11/22/2021	13,275	13,421	48	Marcellus
30	11/23/2021	13,099	13,245	48	Marcellus
31	11/26/2021	12,923	13,069	48	Marcellus
32	11/27/2021	12,747	12,893	48	Marcellus
33	11/28/2021	12,571	12,717	48	Marcellus
34	11/29/2021	12,395	12,541	48	Marcellus
35	11/30/2021	12,219	12,365	48	Marcellus
36	12/1/2021	12,043	12,189	48	Marcellus
37	12/2/2021	11,867	12,013	48	Marcellus
38	12/3/2021	11,691	11,837	48	Marcellus
39	12/5/2021	11,515	11,661	48	Marcellus
40	12/6/2021	11,339	11,485	48	Marcellus
41	12/7/2021	11,163	11,309	48	Marcellus
42	12/8/2021	10,987	11,133	48	Marcellus

10/14/2022

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD. Ft.	Number of Perforations	Formation(s)
43	12/9/2021	10,811	10,957	48	Marcellus
44	12/10/2021	10,635	10,781	48	Marcellus
45	12/11/2021	10,459	10,605	48	Marcellus
46	12/11/2021	10,283	10,429	48	Marcellus
47	12/12/2021	10,107	10,253	48	Marcellus
48	12/13/2021	9,931	10,077	48	Marcellus
49	12/14/2021	9,755	9,901	48	Marcellus
50	12/15/2021	9,579	9,725	48	Marcellus
51	12/16/2021	9,403	9,549	48	Marcellus
52	12/17/2021	9,227	9,373	48	Marcellus
53	12/18/2021	9,051	9,197	48	Marcellus
54	12/19/2021	8,875	9,021	48	Marcellus
55	12/20/2021	8,699	8,845	48	Marcellus
56	12/21/2021	8,523	8,669	48	Marcellus
57	12/22/2021	8,347	8,493	48	Marcellus
58	12/23/2021	8,171	8,317	48	Marcellus
59	12/24/2021	7,995	8,141	48	Marcellus
60	12/25/2021	7,819	7,965	48	Marcellus
61	12/26/2021	7,643	7,789	48	Marcellus
62	12/27/2021	7,467	7,613	48	Marcellus

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Lackawanna 2H

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	2159	2294	2159	2294	Sandstone
Big Lime	2294	2411	2294	2411	Limestone
Big Injun	2411	2753	2411	2753	Sandstone
Weir	2753	2946	2753	2946	Sandstone
Berea	2946	3329	2946	3329	Sandstone
Gordon	3329	3388	3329	3389	Sandstone
Fifty Foot	3388	3873	3389	3910	Sandstone
Speechley	3873	5160	3910	5400	Sandstone
Benson	5160	5682	5400	5998	Sandstone
Alexander	5682	6582	5998	6998	Siltstone
Rhinestreet	6582	6603	6998	7031	Black Shale
Middlesex	6603	6667	7031	7149	Black Shale
Geneseo/Burkett	6667	6687	7149	7190	Black Shale
Tully	6687	6717	7190	7265	Limestone
Hamilton	6717	6730	7265	7308	Gray Shale
Marcellus	6730	-	7308	-	Black Shale

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LACKAWANNA 2HM  
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	76.20	8925	6138	3250	376980	7798	0
2	88.90	7798	4799	4800	433900	8276	0
3	90.20	7438	4842	4850	438540	8385	0
4	90.00	7338	4841	4450	443420	8466	0
5	89.60	7123	4736	4920	438060	8492	0
6	90.10	7253	5016	4740	437320	8533	0
7	90.00	7201	4613	3480	443300	8438	0
8	87.70	7035	4695	4285	438620	9285	0
9	89.60	6946	4669	3812	447780	8597	0
10	89.20	6761	4595	4512	446600	8460	0
11	90.20	6922	4648	4019	444200	7857	0
12	89.90	6829	4607	4467	448320	8021	0
13	89.90	7146	4655	4239	444220	7944	0
14	89.80	7016	4644	3733	444560	7842	0
15	90.50	7131	4708	4006	446720	8105	0
16	89.20	7037	4770	5180	444020	7895	0
17	89.40	6890	4528	5349	447280	7809	0
18	89.40	6999	4579	5600	436720	7744	0
19	90.10	7145	4695	5225	445700	7911	0
20	89.60	6951	4749	5300	441700	7780	0
21	90.50	6928	4902	4650	444680	7781	0
22	88.80	7057	4882	5100	443900	7779	0
23	89.60	6855	4704	5432	441620	7609	0
24	89.00	7086	5035	4400	435040	7651	0
25	89.60	6871	4811	4700	447180	7833	0
26	89.80	6791	4779	5000	446440	7713	0
27	89.40	6920	4775	5850	440220	7770	0
28	89.90	6693	4612	5400	440080	7763	0
29	89.80	6754	4581	4416	438380	7692	0
30	90.00	6745	4713	4248	441440	7779	0
31	89.80	6906	4697	4212	448230	7794	0
32	89.80	6840	4578	4201	445300	7850	0



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	6866	4867	3477	447380	7695	0
34	90.00	6778	4666	3592	447680	7855	0
35	90.30	6789	4722	3904	446500	7775	0
36	90.00	6796	4772	4929	446860	7792	0
37	88.70	6841	5179	4530	446940	8326	0
38	89.80	6906	4820	4899	438820	8187	0
39	91.10	6699	4744	4690	447720	8258	0
40	89.80	6492	4699	4903	445500	8170	0
41	89.60	6795	4881	5032	440820	8005	0
42	89.80	6731	5056	4799	445980	8156	0
43	89.10	6775	5135	4869	435780	8131	0
44	90.00	6637	5124	3982	446360	8110	0
45	90.00	6739	5372	4631	448400	8172	0
46	89.70	6822	5110	4094	444420	8093	0
47	89.90	6529	4944	4092	445020	8207	0
48	89.90	6584	5414	3987	446680	8220	0
49	91.40	6585	5599	4118	447920	8239	0
50	88.20	6553	5506	4614	440060	8134	0
51	90.00	6677	5488	4486	447320	8292	0
52	90.30	6594	5492	4252	443480	8099	0
53	89.90	6374	5390	4126	447640	8147	0
54	90.10	6327	4938	4058	443560	8172	0
55	90.50	6238	4941	4462	443860	8198	0
56	90.10	6401	4960	4233	438800	7776	0
57	89.70	6581	4822	4302	442180	8331	0
58	91.00	6593	4712	4711	436040	7975	0
59	89.70	6556	4745	3890	447000	7850	0
60	89.30	6186	5160	4091	447480	7973	0
61	89.70	6214	5405	4297	434600	7958	0
62	90.30	6236	5274	4333	440400	7801	0

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# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	10/26/2021
Job End Date:	12/27/2021
State:	West Virginia
County:	Wetzel
API Number:	47-103-02983-00-00
Operator Name:	Tug Hill Operating, LLC
Well Name and Number:	Lackawanna N-2HM
Latitude:	-80.85670263
Longitude:	39.60615285
Datum:	NAD27
Federal Well:	YES
Indian Well:	NO
True Vertical Depth:	6,787
Total Base Water Volume (gal):	21,887,880
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	69.07000	None
Sand (30/50 Mesh Proppant)	US Silica	Proppant	Silica Substrate	14808-60-7	100.00000	21.43069	None
Sand (40/70 Mesh Proppant)	US Silica	Proppant	Silica Substrate	14808-60-7	100.00000	7.01246	None
Sand (100 Mesh Proppant)	US Silica	Proppant	Silica Substrate	14808-60-7	100.00000	2.38785	None
StimSTREAM FR 9800	Chemstream Oilfield Services	Friction Reduction	copolymer of 2-propenamide	Proprietary	25.00000	0.01127	None
			Petroleum Distillate	64742-47-8	18.00000	0.00812	None
			Oleic Acid Diethanolamide	93-83-4	3.00000	0.00135	None
			Alcohols, C12-16, ethoxylated	68551-12-2	2.00000	0.00090	None
			Ammonium chloride ((NH4)Cl)	12125-02-9	1.00000	0.00045	None
Hydrochloric Acid (28%)	Dover	Acidizing					

			Hydrochloric Acid (Hydrogen Chloride)	7647-01-0	28.00000	0.01505	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	0.00812	
			Oleic Acid Diethanolamide	93-83-4	3.00000	0.00135	
			Alcohols, C12-16, ethoxylated	68551-12-2	2.00000	0.00090	
			Ammonium chloride ((NH4)Cl)	12125-02-9	1.00000	0.00045	
			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.

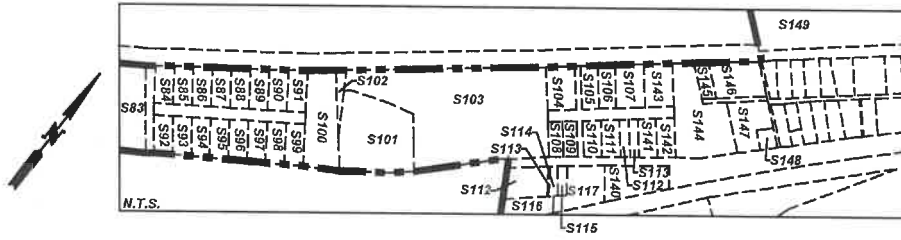
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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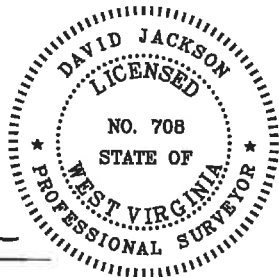


**LACKAWANNA LEASE  
WELL 2H  
766.415± ACRES**



<b>SURFACE HOLE</b> UTM. NAD83, ZONE 17 IN METERS N) 4,384,055.36 E) 512,301.90
<b>LANDING POINT 1</b> UTM. NAD83, ZONE 17 IN METERS N) 4,383,990.78 E) 512,582.10
<b>BOTTOM HOLE</b> UTM. NAD83, ZONE 17 IN METERS N) 4,386,944.88 E) 510,876.48

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*David L Jackson*

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**TUG HILL  
OPERATING**

OPERATOR'S  
WELL #: LACKAWANNA 2H  
DISTRICT: Magnolia  
COUNTY: Wetzel  
STATE: WV  
API NUMBER: 47-103-02983

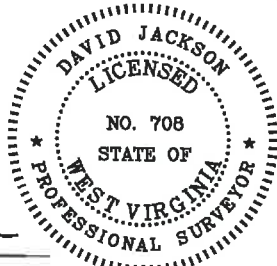
**WELL PLAT**  
**PAGE 2 OF 3**  
**DATE: 05/26/2021**



**LACKAWANNA LEASE  
WELL 2H  
766.415± ACRES**

Number	TAX MAP-PARCEL	SURFACE OWNER	ACRES
S1	A 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	F 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	D 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	L	CSX Railroad	
S47	M 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	K 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	I 08-07-87	H. Lee Scott Jr. & Stephen A. & Betty A. Davis	2.221

Number	TAX MAP-PARCEL	SURFACE OWNER	ACRES
S78	J 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
S152	08-12-140	Paul Weaver, et al	0.35
S153	08-12-121	M.B. Investments	28.0
S154	08-12-122	City of Martinsville	6.33



P.S. 708

*David L Jackson*

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WV Department of  
Environmental Protection

10/14/2022



**TUG HILL  
OPERATING**

OPERATOR'S  
WELL #: LACKAWANNA 2H  
DISTRICT: Magnolia  
COUNTY: Wetzel  
STATE: WV  
API NUMBER: 47-103-02983

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