

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

RECEIVED
Office of Oil and Gas

MAY 06 2021

WV Department of
Environmental Protection

API 47 - 051 - 02275 County Marshall District Franklin
Quad Powhatan Point 7.5' Pad Name Michter Field/Pool Name _____
Farm name Larry W. Dunlap, et al Well Number Michter N-1HM
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 4,405,907.4 Easting 517,335.65
Landing Point of Curve Northing 4,405,676.13 Easting 517,167.44
Bottom Hole Northing 4,407,507.82 Easting 515,870.00

Elevation (ft) 1126.1' 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 12/10/2019 Date drilling commenced 12/12/2019 Date drilling ceased 8/18/2020
Date completion activities began 2/1/2021 Date completion activities ceased 2/11/2021
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 739' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1042' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 638-644', 733-739' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:
08/27/2021
8-10-21

API 47-051 - 02275 Farm name Larry W. Dunlap, et al Well number Michter N-1HM

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	17 1/2"	13 3/8"	845'	NEW	54.5#	N/A	Y
Coal	17 1/2"	13 3/8"	845'	NEW	54.5#	N/A	Y
Intermediate 1	12 1/4"	9 5/8"	2,708'	NEW	36#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8 3/4"	5 1/2"	14,415'	NEW	20#	N/A	Y
Tubing		2 3/8"	7,208'	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	940	15.6	1.19	1135	0	8
Coal	A	940	15.6	1.19	1135	0	8
Intermediate 1	A	816	15.6	1.19	1124	0	8
Intermediate 2							
Intermediate 3							
Production	A	3404	14.5	1.17	3997	0	8
Tubing							

Drillers TD (ft) 14,446' 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) 5,612'

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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 _____

08/27/2021

API 47-051 - 02275

Farm name Larry W. Dunlap, et al

Well number Michter N-1HM

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							

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Please insert additional pages as applicable.

API 47- 051 - 02275 Farm name Larry W. Dunlap, et al Well number Michter N-1HM

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>MARCELLUS</u>	<u>6310'-6260'</u> TVD	<u>7030'-14446'</u> 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 1132 psi Bottom Hole _____ psi DURATION OF TEST 24 hrs

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

LITHOLOGY/ FORMATION	TOP	BOTTOM	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	
	<u>0</u>		<u>0</u>		
<u>*attached</u>					

Please insert additional pages as applicable.

Drilling Contractor Helmerich & Payne International Drilling Co.
 Address 1437 S. Boulder Avenue City Tulsa State OK Zip 74119

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

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

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

Please insert additional pages as applicable.

Completed by Amy L. Morris Telephone 304-376-0111
 Signature *Amy L. Morris* Title Permitting Specialist - Appalachia Region Date 4-20-2021

**Michter N-1HM
PEFORATION RECORD**

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Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD. Ft.	Number of Perforations	Formation(s) WV Department of Environmental Protection
1	2/1/2021	14233	14280	48	Marcellus
2	1/28/2021	14033	14178	48	Marcellus
3	1/28/2021	13858	14003	48	Marcellus
4	1/28/2021	13683	13828	48	Marcellus
5	1/29/2021	13508	13653	48	Marcellus
6	1/29/2021	13333	13478	48	Marcellus
7	1/29/2021	13158	13303	48	Marcellus
8	1/29/2021	12983	13128	48	Marcellus
9	1/30/2021	12808	12953	48	Marcellus
10	1/30/2021	12633	12778	48	Marcellus
11	1/30/2021	12458	12603	48	Marcellus
12	1/31/2021	12283	12428	48	Marcellus
13	1/31/2021	12108	12253	48	Marcellus
14	1/31/2021	11933	12078	48	Marcellus
15	2/1/2021	11758	11903	48	Marcellus
16	2/1/2021	11583	11728	48	Marcellus
17	2/1/2021	11408	11553	48	Marcellus
18	2/3/2021	11233	11378	48	Marcellus
19	2/4/2021	11058	11203	48	Marcellus
20	2/4/2021	10883	11028	48	Marcellus
21	2/4/2021	10708	10853	48	Marcellus
22	2/4/2021	10533	10678	48	Marcellus
23	2/4/2021	10358	10503	48	Marcellus
24	2/5/2021	10183	10328	48	Marcellus
25	2/5/2021	10008	10153	48	Marcellus
26	2/6/2021	9833	9978	48	Marcellus
27	2/7/2021	9658	9803	48	Marcellus
28	2/7/2021	9483	9628	48	Marcellus
29	2/7/2021	9308	9453	48	Marcellus
30	2/7/2021	9133	9278	48	Marcellus
31	2/7/2021	8958	9103	48	Marcellus
32	2/8/2021	8783	8928	48	Marcellus
33	2/8/2021	8608	8753	48	Marcellus
34	2/8/2021	8433	8578	48	Marcellus
35	2/8/2021	8258	8403	48	Marcellus
36	2/9/2021	8083	8228	48	Marcellus
37	2/9/2021	7908	8053	48	Marcellus
38	2/10/2021	7733	7878	48	Marcellus
39	2/10/2021	7558	7703	48	Marcellus
40	2/10/2021	7383	7528	48	Marcellus
41	2/10/2021	7208	7353	48	Marcellus

08/27/2021

42	2/11/2021	7033	7178	48	Marcellus
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08/27/2021

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Michter N-1HM
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	6546	4214	3666	246920	6232	0
2	90	6854	4897	4853	440860	6914	0
3	90	6727	4979	4991	443320	7020	0
4	90	6747	4931	4964	448700	7103	0
5	90	6699	4663	4639	444220	6940	0
6	90	6903	4614	5016	447220	7007	0
7	90	6739	4776	4605	438580	6939	0
8	90	6941	4653	5050	440440	6961	0
9	90	6626	4559	5405	442104	6923	0
10	90	6541	4393	5212	442260	6875	0
11	90	6826	4373	5038	444020	6899	0
12	89	6548	4303	4577	443520	6964	0
13	90	6687	4417	4479	445060	6980	0
14	90	6686	4606	4618	446380	6875	0
15	90	6652	4586	4846	446780	6871	0
16	90	6570	4511	5350	448300	6928	0
17	88	6477	4419	5195	444620	7315	0
18	89	6432	4469	4856	446340	10255	0
19	90	6477	4789	4940	445440	8423	0
20	90	6480	4609	4781	438460	8630	0
21	90	6512	4759	4998	442400	8087	0
22	89	6458	4524	4687	446220	8388	0
23	90	6717	4774	4585	439540	8224	0
24	90	6392	4826	5356	444180	8250	0
25	90	6360	5001	4920	436420	8342	0
26	90	6400	4611	5557	439080	8046	0
27	89	6441	4626	4716	443040	8184	0
28	90	6259	4500	5930	446320	8100	0
29	90	6239	4602	5150	436740	8094	0
30	89	6248	4389	5353	449260	8177	0
31	89	6268	4589	5243	444060	8172	0
32	89	6111	4532	4563	450180	8285	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	6134	4700	5965	437920	7942	0
34	89	6376	4641	5316	443850	8069	0
35	88	6355	4687	6339	450120	8159	0
36	90	5986	4507	5732	436760	8109	0
37	90	6050	4539	4669	443700	8239	0
38	89	6025	4449	4755	443780	8140	0
39	90	5894	4562	5542	447660	8076	0
40	90	6069	4947	4807	436340	7923	0
41	89	6103	5506	4755	447240	8062	0
42	90	6219	5019	5028	449740	8132	0

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MICHTER N-1HM

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	1953	2041	1954	2042	Sandstone
Big Lime	2041	2083	2042	2084	Limestone
Big Injun	2083	2429	2084	2431	Sandstone
Weir	2429	2555	2431	2557	Sandstone
Berea	2555	2778	2557	2781	Sandstone
Gordon	2778	2825	2781	2828	Sandstone
Fifty Foot	2825	3385	2828	3391	Sandstone
Speechley	3385	4757	3391	4926	Sandstone
Benson	4757	5126	4926	5350	Sandstone
Alexander	5126	5747	5350	6036	Siltstone
Rhinestreet	5747	6105	6036	6451	Black shale
Middlesex	6105	6188	6451	6595	Black shale
Geneseo/Burkett	6188	6216	6595	6660	Black shale
Tully	6216	6243	6660	6731	Limestone
Hamilton	6243	6273	6731	6828	Grey shale
Marcellus	6273	-	6828	-	Black shale

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	2/1/2021
Job End Date:	2/11/2021
State:	West Virginia
County:	Marshall
API Number:	47-051-02275-00-00
Operator Name:	Tug Hill Operating, LLC
Well Name and Number:	Michter N 1HM
Latitude:	39.80295734
Longitude:	-80.79749068
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,285
Total Base Water Volume (gal):	13,618,668
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	85.61030	None
			Silica Substrate	14808-60-7	100.00000	9.31653	None
Sand (40/70 White Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	3.32364	None
			Silica Substrate	14808-60-7	100.00000	1.24916	None
Sand (100 Mesh Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	0.32228	None
			Silica Substrate	14808-60-7	100.00000	0.14029	None
Sand (30/50 White Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	0.01854	None
			Silica Substrate	14808-60-7	100.00000	0.01854	None
Hydrochloric Acid (7.5%)	PVS	Acidizing	Water	7732-18-5	85.00000	0.00222	None
			Hydrochloric Acid (Hydrogen Chloride)	7647-01-0	37.00000	0.00222	None
StimStream FR 9800	Chemstream	Friction Reducer	Butene, homopolymer	9003-29-6	25.00000	0.01854	None
			Alkanes, C16-20-iso-	90622-59-6	25.00000	0.01854	None
			Ethoxylated alcohols (C12-18)	68213-23-0	3.00000	0.00222	None

MC MX 9-4743	Multi-Chem	Biocide					
			Sodium Nitrate	7631-99-4	60.00000	0.02177	None
LD-7750W	Multi-Chem	Scale Inhibitor					
			Methanol	67-56-1	60.00000	0.00494	None
			Phosphonic Acid Salt	Proprietary	5.00000	0.00041	None
ProFE 105	ProFrac	Iron Control					
			Citric Acid	77-92-9	100.00000	0.00140	None
ProHib 100	ProFrac	Acid Inhibitor					
			2-Propyn-1-ol compound w/ methyloxirane	38172-91-7	15.00000	0.00018	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	0.32228	
			Butene, homopolymer	9003-29-6	25.00000	0.01854	
			Ethoxylated alcohols (C12-18)	68213-23-0	3.00000	0.00222	
			Phosphonic Acid Salt	Proprietary	5.00000	0.00041	

* 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.

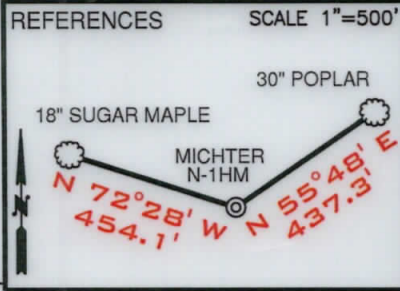
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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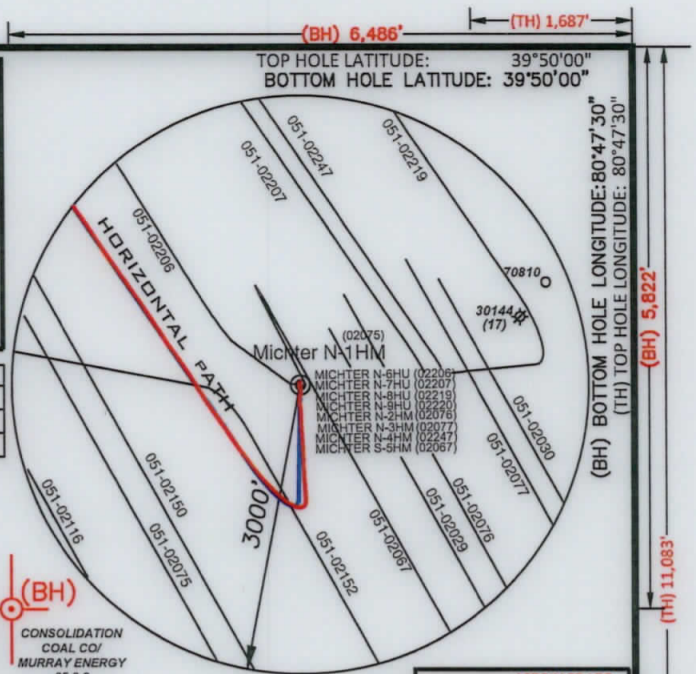
MAY 06 2021

WV Department of
Environmental Protection

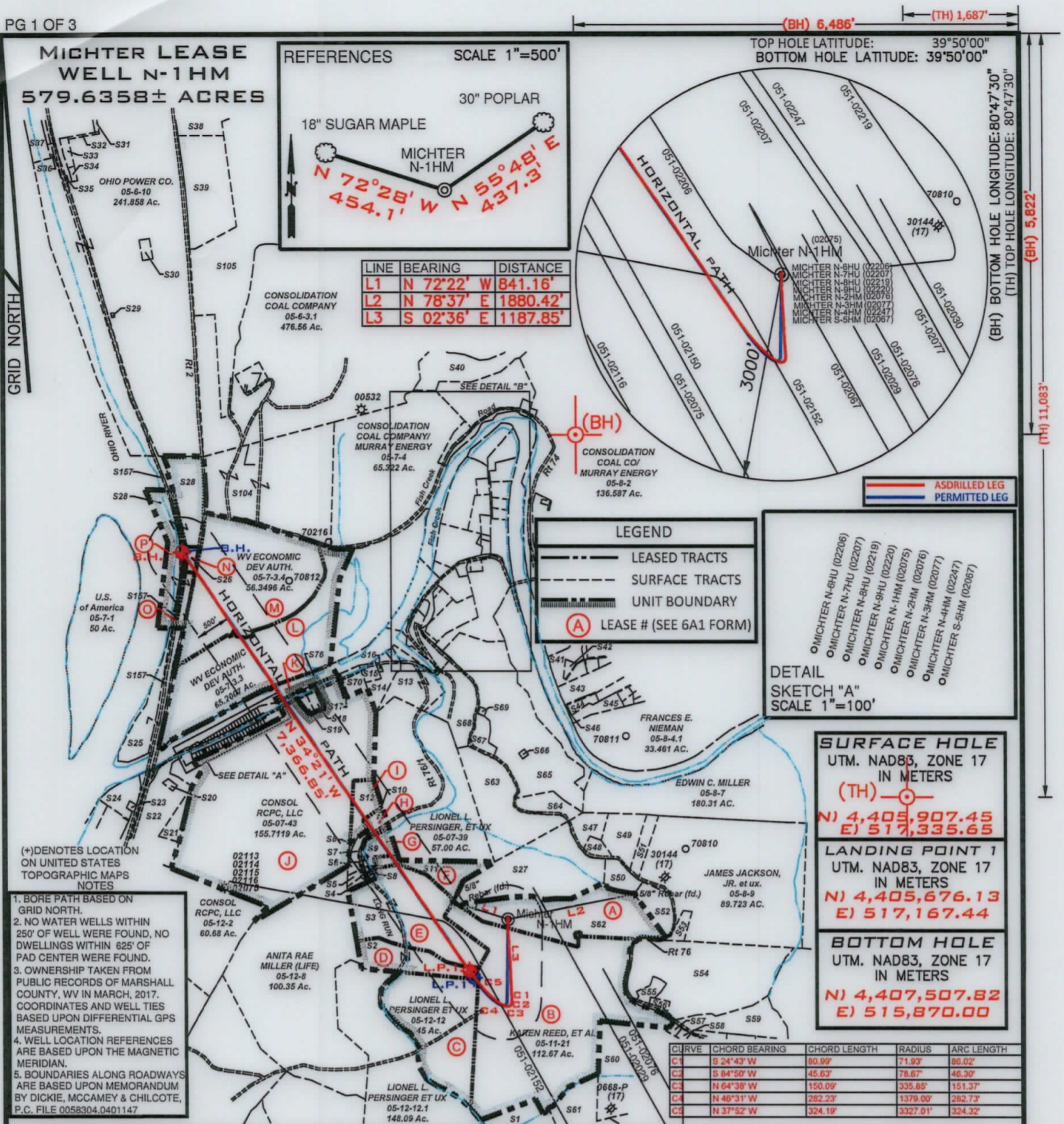
**MICHTER LEASE
WELL N-1HM
579.6358± ACRES**



LINE	BEARING	DISTANCE
L1	N 72°22' W	841.16'
L2	N 78°37' E	1880.42'
L3	S 02°36' E	1187.85'



GRID NORTH



- (+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS NOTES
- BORE PATH BASED ON GRID NORTH.
 - NO WATER WELLS WITHIN 250' OF WELL WERE FOUND, NO DWELLINGS WITHIN 825' 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.
 - BOUNDARIES ALONG ROADWAYS ARE BASED UPON MEMORANDUM BY DICKIE, MCCAMEY & CHILCOTE, P.C. FILE 0058304.0401147

SURFACE HOLE
UTM. NAD83, ZONE 17
IN METERS
(TH) $\begin{matrix} N) 4,405,907.45 \\ E) 517,335.65 \end{matrix}$

LANDING POINT 1
UTM. NAD83, ZONE 17
IN METERS
(N) $\begin{matrix} N) 4,405,676.13 \\ E) 517,167.44 \end{matrix}$

BOTTOM HOLE
UTM. NAD83, ZONE 17
IN METERS
(N) $\begin{matrix} N) 4,407,507.82 \\ E) 515,870.00 \end{matrix}$

FILE NUMBER _____

DRAWING NUMBER MICHTER_N-1HM_REV1

SCALE 1" = 2000'

MINIMUM DEGREE OF ACCURACY 1/200

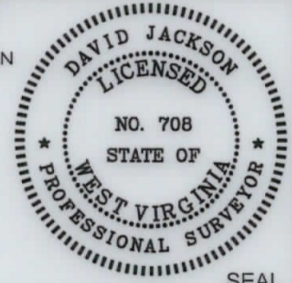
PROVEN SOURCE OF ELEVATION SUBMETER MAPPING GRADE GPS

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

P.S. 708
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

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

LOCATION ELEVATION 1126.1' WATERSHED (HUC 10) FISH CREEK

DISTRICT FRANKLIN COUNTY MARSHALL

QUADRANGLE POWHATAN POINT 7.5' LEASE NUMBER SEE WW-6A1 FORM

SURFACE OWNER LARRY W. DUNLAP, ET AL ACREAGE 34.405

OIL & GAS ROYALTY OWNER LARRY W. DUNLAP, ET AL LEASE ACREAGE 34.405

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: 6,260' TMD: 14,446'

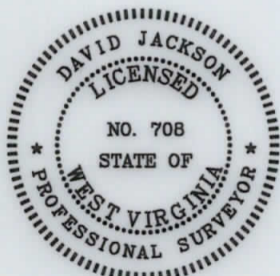
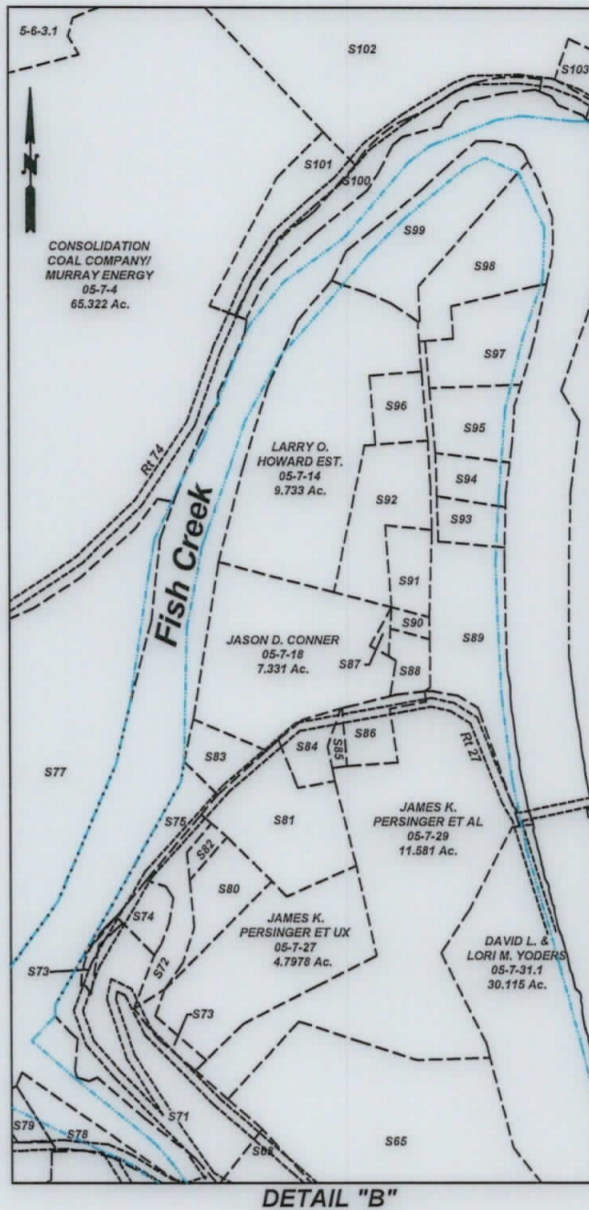
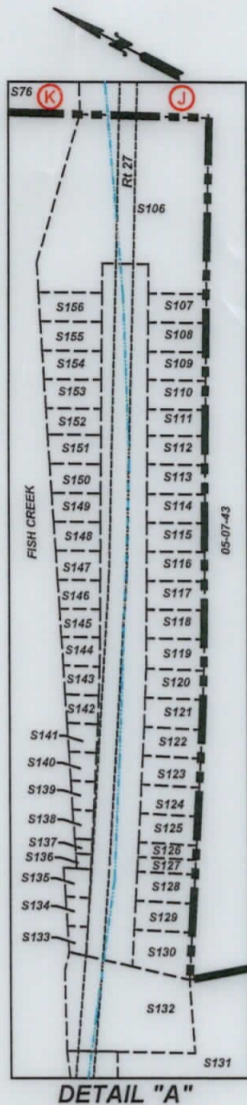
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER CT CORPORATION SYSTEM

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

08/27/2021

COUNTY NAME PERMIT

PG 2 OF 3
MICHTER LEASE
WELL N-1HM
579.6358± ACRES



P.S.
708

David L Jackson

SURFACE HOLE UTM. NAD83, ZONE 17 IN METERS N) 4,405,907.40 E) 517,335.72
LANDING POINT 1 UTM. NAD83, ZONE 17 IN METERS N) 4,405,645.42 E) 517,187.51
BOTTOM HOLE UTM. NAD83, ZONE 17 IN METERS N) 4,407,511.14 E) 515,871.38

08/27/2021



TUG HILL
OPERATING

OPERATOR'S
WELL #: Michter N-1HM
DISTRICT: Franklin
COUNTY: Marshall
STATE: WV
API #: 47-051-02275

WELL PLAT
PAGE 2 OF 3
DATE: 04/22/2021

PG 3 OF 3 **MICHTER LEASE**
WELL N-1HM
579.6358± ACRES

Number	TAX MAP -PARCEL	ADJOINER OWNER	ACRES
S1	05-12-11	Wesley Bryan & Wesley Bryan II	52.478
S2	D 05-12-10	Consolidation Coal Company/ Murray Energy c/o Land Dept	13.76
S3	E 05-12-10.1	Consolidation Coal Company/ Murray Energy	38.48
S4	05-07-42.4	Jason Reed Hartley	0.94
S5	05-07-42.3	Joshua David Hartley	0.886
S6	05-07-42.2	Steven & Rhonda Lloyd	0.85
S7	05-07-44	Crystal B. Darrah	1.726
S8	05-07-42	Tracy M. Kesterson	0.54
S9	G 05-07-42.5	Matthew V. Conner, et al	3.791
S10	H 05-07-41	James A. Wade	1.00
S11	F 05-12-09	Lionel & Mary Lee Persinger	10.15
S12	I 05-07-42.1	Lionel L. & Mary Lee Persinger	5.99
S13	05-07-35	Samuel L. Persinger	10.708
S14	05-07-36	John Persinger	4.329
S15	05-07-38	John K. Persinger, et ux	2.65
S16	05-07-37	John K. Persinger, et ux	0.133
S17	05-07-43.3	M. Frank Mason	0.327
S18	05-7B-48	Cassidy Rain Carpenter	1.325
S19	05-7B-49	Cassidy Rain Carpenter	1.1441
S20	05-07-43.4	Ida L. Campbell	0.403
S21	05-07-43.1	WW DOH	1.48
S22		State Road Commission	17.62Calc
S23	05-7A-32	Dawn Thompson Tennant	0.3091
S24	05-7A-31	WV Dept. of Natural Resources	3.18
S25	05-07-03	Consolidation Coal Company/ Murray Energy	12.2641
S26	N 05-07-3.5	Wheeling Power Company	1.5004
S27	05-11-1.4	Larry Dunlap, et al	32.493
S28	P 05-07-3.1	Ohio Power Co.	28.9966
S29	05-06-16	Appalachian Power CP	0.61
S30	05-06-11	Consolidation Coal Company/ Murray Energy	1.05
S31	05-06-14	Cil Carbon, LLC	1.408
S32	05-06-13	Cil Carbon, LLC	0.318
S33	05-06-09	Cil Carbon, LLC	1.15
S34	05-06-12	Cil Carbon, LLC	0.43458
S35	05-06-18	Cil Carbon, LLC	0.2754
S36	05-06-1.2	Ohio Power Co.	0.693
S37	05-06-1.1	Cil Carbon, LLC	13.269
S38	05-06-06	Consolidation Coal Company/ Murray Energy	18.50
S39	05-06-05	Consolidation Coal Company/ Murray Energy	17.159
S40	05-06-04	Consolidation Coal Company/ Murray Energy	5.47
S41	05-8A-39	Barbara L. Daniels & Elaine Wills	3.223
S42	05-8A-40	Barbara L. Daniels & Elaine Wills	0.627
S43	05-8A-42	Robert M. White	7.23
S44	05-8A-46	Barbara L. Rose & Mary L. Rose	1.5
S45	05-8A-47	Barbara L. Rose & Mary L. Rose	3.0
S46	05-8A-45	Raymond A. Jr. & Larriette Scott	0.305
S47	05-11-01	William N. & Virginia A. Roupe	4.527
S48	05-11-1.6	Debra Morris	2.093
S49	05-11-1.7	William S. & Mary K. Adams	8.00
S50	05-11-1.3	Jay A. Conner, et ux	4.256
S51	05-11-1.5	Paul & Sandy Witt	3.507
S52	05-11-1.2	Jay A. Conner, et ux	5.824
S53	05-08-9.1	Scott E. Jackson, Tammy S. South & Marion Jackson	1.957
S54	05-11-02	Walter C. & Cheryl A. Rine	42.36
S55	05-11-2.2	Joshua A. Myers	2.193
S56	05-11-2.1	Walter C. & Cheryl A. Rine	1.19
S57	05-11-20	David E. Gray	0.569
S58	05-11-19	David E. Gray	0.532
S59	05-11-03	Kevin R. Corley, et ux	13.18
S60	05-11-17	Kevin R. Corley, et ux	36.13
S61	05-11-14	Hiram's Estate Family, LTD LLP	158.054
S62	A 05-11-1.1	Larry W. Dunlap, et al	34.405
S63	05-07-33	William N. Roupe	24.60
S64	05-07-32	William N. & Virginia A. Roupe	4.2

Number	TAX MAP -PARCEL	ADJOINER OWNER	ACRES
S65	05-07-31	William N. Roupe, et ux	43.147
S66	05-07-31.4	Grandview-Doolen PSD	0.23
S67	05-07-31.2	William N. Roupe, et ux	3.304
S68	05-07-34	WW DOH	10.88
S69	05-07-31.3	William N. & Virginia A. Roupe	0.230
S70	05-07-43.2	M. Frank Mason	1.36
S71	05-07-26	James A. Wade	7.80
S72	05-07-23.1	WW DOH	2.37
S73	05-07-25	WW DOH	0.50
S74	05-07-24	James A. Wade	0.578
S75	05-07-45	Robert L. Henry (Life) & Jeffrey S. Henry	0.65
S76	K Fish Creek	State of WV	4.181Calc
S77	05-07-3.2	Ohio Power Company	45.5348
S78	05-07-35.1	Lionel L. & Marylee Persinger	0.812
S79	05-07-36.1	Lionel L. & Mary Lee Persinger	0.5579
S80	05-07-23	Arlie L. Powell	1.435
S81	05-07-27.1	Mark L. Riter, et ux	3.427
S82	05-07-23.2	Robert L. Henry (Life) & Jeffrey S. Henry	0.256
S83	05-07-21	Aaron S. Meyer	1.775
S84	05-07-22	Jesus & Mary Bustamante	0.782
S85	05-07-28.1	Jesus & Mary Bustamante	0.200
S86	05-07-28	Thelma M. Roupe	0.940
S87	05-07-18.1	Debra L. Bennett	0.13
S88	05-07-17	Debra L. Bennett	0.614
S89	05-07-15	William Roupe, et ux	6.631
S90	05-07-16	Debra L. Bennett	0.235
S91	05-07-14.2	Robert L. Eyley, Sr. & Jessica L. Bennett	0.998
S92	05-07-14.3	Steven H. Howard	2.669
S93	05-07-15.1	Woodland Hills Recreation Club	1.016
S94	05-07-13	Woodland Hills Recreation Club	1.109
S95	05-07-12	Carol A. & Shelva G. Smith	2.01
S96	05-07-14.1	Larry O. Howard, Est.	1.00
S97	05-07-11	Roy S. & Cynthia M. Meadows	2.90
S98	05-07-10.1	Sandra Kay Beymer & Chad M. Wright	4.237
S99	05-07-10	Darren Edward Thacker	4.737
S100	05-07-5.1	George A. Knuth	2.95
S101	05-07-05	CNX Gas Company, LLC	1.407
S102	05-07-06	CNX Gas Company, LLC	21.171
S103	05-07-07	Consolidation Coal Company/ Murray Energy	1.00
S104	05-07-02	Consolidation Coal Company/ Murray Energy	46.46
S105	05-06-03	Ohio Power Co.	281.046
S106	05-7B-01	Patricia L. Robinson	1.257
S107	05-7B-47	Daniel D. Robinson, et ux	0.1148
S108	05-7B-46	Daniel D. Robinson, et ux	0.1148
S109	05-7B-45	Daniel D. & Mary E. Robinson	0.1148
S110	05-7B-44	Daniel D. & Mary E. Robinson	0.1148
S111	05-7B-43	Teresa & Thomas Gouldsberry	0.1148
S112	05-7B-42	Teresa & Thomas Gouldsberry	0.1194
S113	05-7B-41	Teresa & Thomas Gouldsberry	0.1148
S114	05-7B-40	Teresa & Thomas Gouldsberry	0.1148
S115	05-7B-39	Teresa & Thomas Gouldsberry	0.1148
S116	05-7B-38	Teresa & Thomas Gouldsberry	0.1148
S117	05-7B-37	Teresa & Thomas Gouldsberry	0.1148
S118	05-7B-36	Albert J. Anderson, Jr.	0.1148
S119	05-7B-35	Albert J. Anderson, Jr.	0.1217
S120	05-7B-34	Albert J. Anderson, Jr.	0.1148
S121	05-7B-33	Albert J. Anderson, Jr.	0.1182
S122	05-7B-32	Albert J. Anderson, Jr.	0.1148
S123	05-7B-31	Cindy D. Aliff, et al	0.1148
S124	05-7B-30	Cindy D. Aliff, et al	0.1148
S125	05-7B-29	Cindy D. Aliff	0.1148
S126	05-7B-28.1	Cindy D. Aliff	0.0574
S127	05-7B-28	Cindy D. Aliff	0.0574
S128	05-7B-27	Patricia A. Johnson	0.1148
S129	05-7B-26	Cindy D. Aliff	0.1148
S130	05-7B-25	Cindy D. Aliff	0.1673
S131	05-7A-02	Raymond M. & Amy A. Litman	2.23
S132	05-7A-01	Lucille Myers	0.529
S133	05-7B-24	Cindy D. Aliff	0.0354
S134	05-7B-23	Cindy D. Aliff	0.0471
S135	05-7B-22	Cindy D. Aliff	0.0505
S136	05-7B-21	Cindy D. Aliff	0.0287
S137	05-7B-21.1	Cindy D. Aliff	0.0296
S138	05-7B-20	Cindy D. Aliff	0.0626
S139	05-7B-19	Cindy D. Aliff	0.0712
S140	05-7B-18	Cindy D. Aliff	0.0763
S141	05-7B-17	Albert J. Anderson, Jr.	0.0849
S142	05-7B-16	Albert J. Anderson, Jr.	0.0903
S143	05-7B-15	Albert J. Anderson, Jr.	0.0970
S144	05-7B-14	Albert J. Anderson, Jr.	0.0991
S145	05-7B-13	Albert J. Anderson, Jr.	0.1067
S146	05-7B-12	Teresa & Thomas Gouldsberry	0.1113
S147	05-7B-11	Teresa & Thomas Gouldsberry	0.1159
S148	05-7B-10	Teresa & Thomas Gouldsberry	0.1199
S149	05-7B-09	Teresa & Thomas Gouldsberry	0.1240
S150	05-7B-08	Teresa & Thomas Gouldsberry	0.1286
S151	05-7B-07	Teresa & Thomas Gouldsberry	0.1331
S152	05-7B-06	Teresa & Thomas Gouldsberry	0.1377
S153	05-7B-05	Daniel D. & Mary E. Robinson	0.1418
S154	05-7B-04	Daniel D. & Mary E. Robinson	0.1458
S155	05-7B-03	Daniel D. Robinson, et ux	0.1504
S156	05-7B-02	Daniel D. Robinson, et ux	0.1550
S157	O Railroad	CSX Transportation	2.449Calc



P.S. 708 *David L Jackson*

08/27/2021



TUG HILL
OPERATING

OPERATOR'S
 WELL #: Michter N-1HM
 DISTRICT: Franklin
 COUNTY: Marshall
 STATE: WV
 API #: 47-051-02275

WELL PLAT
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DATE: 04/22/2021