

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

MAY 06 2021

WV Department of
Environmental Protection
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MAY 03 2021

API 47-051-02247 County Marshall District Franklin
Quad Powhatan Point 7.5' Pad Name Michter Field/Pool Name Michter N-4HM
Farm name Larry W. Dunlap, et al Well Number Michter 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 4,405,904.88 Easting 517,346.37
Landing Point of Curve Northing 4,406,021.58 Easting 517,750.99
Bottom Hole Northing 4,408,560.43 Easting 515,974.26

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 7/26/2019 Date drilling commenced 10/24/2019 Date drilling ceased 7/19/2020
Date completion activities began 1/27/2021 Date completion activities ceased 2/14/2021
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:
B.S.
08/27/2021
8-11-21

API 47-051 - 02247 Farm name Larry W. Dunlap, et al Well number Michter 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	94.5#	N/A	Y
Surface	17 1/2"	13 3/8"	841'	NEW	54.5#	N/A	Y
Coal	17 1/2"	13 3/8"	841'	NEW	54.5#	N/A	Y
Intermediate 1	12 1/4"	9 5/8"	2,685'	NEW	36#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8 3/4"	5 1/2"	17,358'	NEW	20#	N/A	Y
Tubing		2 3/8"	8,679'	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	936	15.6	1.19	1130	0	8
Coal	A	936	15.6	1.19	1130	0	8
Intermediate 1	A	809	15.6	1.19	1114	0	8
Intermediate 2							
Intermediate 3							
Production	A	4131	14.5	1.17	4808	0	8
Tubing							

Drillers TD (ft) 17,392' 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) 5,583'

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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 - 02247 Farm name Larry W. Dunlap, et al Well number Michter N-4HM

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>MARCELLUS</u>	<u>6326'-6252'</u>	<u>TVD</u>	<u>7264'-17392'</u> <u>MD</u>

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 0 mcfpd Oil 0 bpd NGL 0 bpd Water 500 bpd GAS MEASURED BY 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>					

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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  Title Permitting Specialist - Appalachia Region Date 4-27-2021

**Michter N-4HM
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	1/27/2021	17167	17217	48	Marcellus
2	1/28/2021	16968	17113	48	Marcellus
3	1/28/2021	16794	16939	48	Marcellus
4	1/28/2021	16621	16765	48	Marcellus
5	1/29/2021	16447	16592	48	Marcellus
6	1/29/2021	16274	16418	48	Marcellus
7	1/29/2021	16100	16245	48	Marcellus
8	1/29/2021	15927	16071	48	Marcellus
9	1/29/2021	15753	15898	48	Marcellus
10	1/30/2021	15580	15724	48	Marcellus
11	1/30/2021	15406	15551	48	Marcellus
12	1/30/2021	15233	15377	48	Marcellus
13	1/30/2021	15059	15204	48	Marcellus
14	1/31/2021	14885	15030	48	Marcellus
15	1/31/2021	14712	14857	48	Marcellus
16	1/31/2021	14538	14683	48	Marcellus
17	2/6/2021	14365	14509	48	Marcellus
18	2/6/2021	14191	14336	48	Marcellus
19	2/7/2021	14018	14162	48	Marcellus
20	2/7/2021	13844	13989	48	Marcellus
21	2/7/2021	13671	13815	48	Marcellus
22	2/7/2021	13497	13642	48	Marcellus
23	2/7/2021	13324	13468	48	Marcellus
24	2/8/2021	13150	13295	48	Marcellus
25	2/8/2021	12977	13121	48	Marcellus
26	2/8/2021	12803	12948	48	Marcellus
27	2/8/2021	12629	12774	48	Marcellus
28	2/9/2021	12456	12600	48	Marcellus
29	2/9/2021	12282	12427	48	Marcellus
30	2/9/2021	12109	12253	48	Marcellus
31	2/9/2021	11935	12080	48	Marcellus
32	2/10/2021	11762	11906	48	Marcellus
33	2/10/2021	11588	11733	48	Marcellus
34	2/10/2021	11415	11559	48	Marcellus
35	2/10/2021	11241	11386	48	Marcellus
36	2/11/2021	11068	11212	48	Marcellus
37	2/11/2021	10894	11039	48	Marcellus
38	2/11/2021	10720	10865	48	Marcellus
39	2/11/2021	10547	10692	48	Marcellus
40	2/11/2021	10373	10518	48	Marcellus
41	2/12/2021	10200	10344	48	Marcellus

08/27/2021

42	2/12/2021	10026	10171	48	Marcellus
43	2/12/2021	9853	9997	48	Marcellus
44	2/12/2021	9679	9824	48	Marcellus
45	2/12/2021	9506	9650	48	Marcellus
46	2/12/2021	9332	9477	48	Marcellus
47	2/12/2021	9159	9303	48	Marcellus
48	2/13/2021	8985	9130	48	Marcellus
49	2/13/2021	8812	8956	48	Marcellus
50	2/13/2021	8638	8783	48	Marcellus
51	2/13/2021	8464	8609	48	Marcellus
52	2/13/2021	8291	8436	48	Marcellus
53	2/13/2021	8117	8262	48	Marcellus
54	2/14/2021	7944	8088	48	Marcellus
55	2/14/2021	7770	7915	48	Marcellus
56	2/14/2021	7597	7741	48	Marcellus
57	2/14/2021	7423	7568	48	Marcellus
58	2/14/2021	7250	7394	48	Marcellus

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MICHTER N-4HM

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	1967	2055	1968	2056	Sandstone
Big Lime	2055	2097	2056	2098	Limestone
Big Injun	2097	2443	2098	2444	Sandstone
Weir	2443	2569	2444	2570	Sandstone
Berea	2569	2792	2570	2794	Sandstone
Gordon	2792	2839	2794	2841	Sandstone
Fifty Foot	2839	3399	2841	3404	Sandstone
Speechley	3399	4771	3404	4997	Sandstone
Benson	4771	5140	4997	5449	Sandstone
Alexander	5140	5761	5449	6191	Siltstone
Rhinestreet	5761	6121	6191	6626	Black shale
Middlesex	6121	6201	6626	6750	Black shale
Geneseo/Burkett	6201	6228	6750	6801	Black shale
Tully	6228	6254	6801	6862	Limestone
Hamilton	6254	6290	6862	6991	Grey shale
Marcellus	6290	-	6991	-	Black shale

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	1/27/2021
Job End Date:	2/14/2021
State:	West Virginia
County:	Marshall
API Number:	47-051-02247-00-00
Operator Name:	Tug Hill Operating, LLC
Well Name and Number:	Michter N 4HM
Latitude:	39.80293507
Longitude:	-80.79736584
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,323
Total Base Water Volume (gal):	19,873,896
Total Base Non Water Volume:	0



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	86.25560	None
Sand (40/70 White Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	8.95307	None
Sand (100 Mesh Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	3.15415	None
Sand (30/50 White Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	1.17674	None
Hydrochloric Acid (7.5%)	PVS	Acidizing	Water	7732-18-5	85.00000	0.29139	None
			Hydrochloric Acid (Hydrogen Chloride)	7647-01-0	37.00000	0.12684	None
StimStream FR 9800	Chemstream	Friction Reducer	Alkanes, C16-20-iso-	90622-59-6	25.00000	0.01764	None
			Butene, homopolymer	9003-29-6	25.00000	0.01764	None
			Ethoxylated alcohols (C12-18)	68213-23-0	3.00000	0.00212	None

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MC MX 9-4743	Multi-Chem	Biocide					
			Sodium Nitrate	7631-99-4	60.00000	0.02182	None
LD-7750W	Multi-Chem	Scale Inhibitor					
			Methanol	67-56-1	60.00000	0.00496	None
			Phosphonic Acid Salt	Proprietary	5.00000	0.00041	None
ProFE 105	ProFrac	Iron Control					
			Citric Acid	77-92-9	100.00000	0.00132	None
ProHib 100	ProFrac	Acid Inhibitor					
			2-Propyn-1-ol compound w/ methyloxirane	38172-91-7	15.00000	0.00016	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	0.29139	
			Butene, homopolymer	9003-29-6	25.00000	0.01764	
			Ethoxylated alcohols (C12-18)	68213-23-0	3.00000	0.00212	
			Phosphonic Acid Salt	Proprietary	5.00000	0.00041	

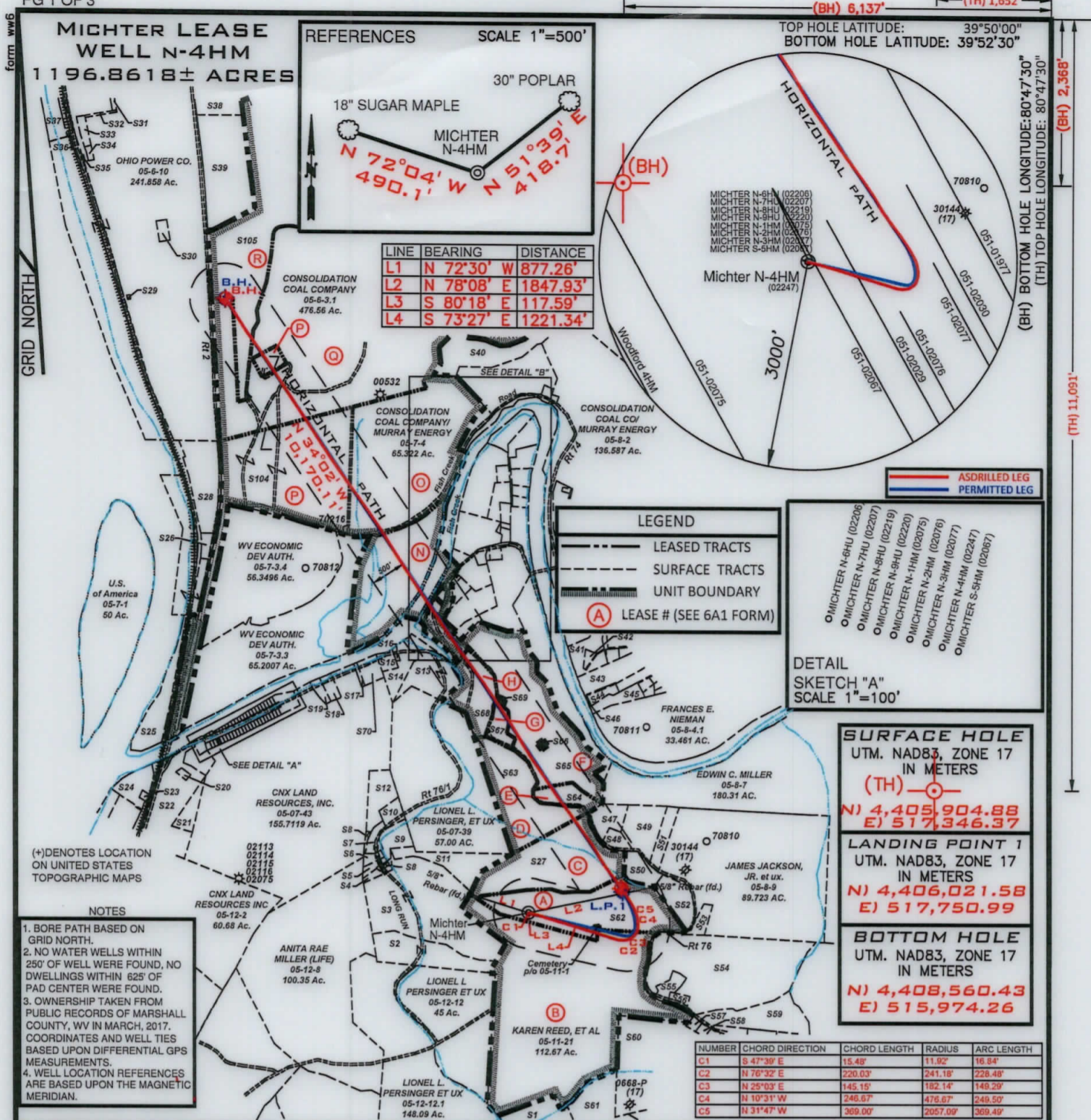
* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** 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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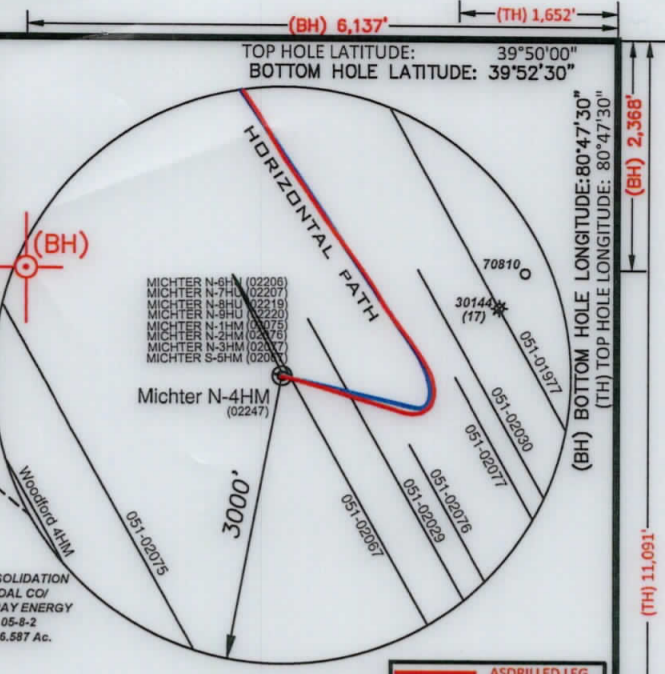


REFERENCES SCALE 1"=500'

30" POPLAR
18" SUGAR MAPLE

MICHTER N-4HM
N 72°04' W 490.1'
N 51°39' E 418.7'

LINE	BEARING	DISTANCE
L1	N 72°30' W	877.26'
L2	N 78°08' E	1847.93'
L3	S 80°18' E	117.59'
L4	S 73°27' E	1221.34'



MICHTER LEASE WELL N-4HM
1196.8618± ACRES

OHIO POWER CO. 05-6-10 241.858 Ac.

CONSOLIDATION COAL COMPANY 05-6-3.1 476.56 Ac.

CONSOLIDATION COAL COMPANY/MURRAY ENERGY 05-7-4 65.322 Ac.

CONSOLIDATION COAL CO/ MURRAY ENERGY 05-8-2 136.587 Ac.

WV ECONOMIC DEV AUTH. 05-7-3.4 56.3496 Ac.

WV ECONOMIC DEV AUTH. 05-7-3.3 65.2007 Ac.

CNX LAND RESOURCES, INC. 05-07-43 155.7119 Ac.

CNX LAND RESOURCES INC 05-12-2 60.68 Ac.

ANITA RAE MILLER (LIFE) 05-12-9 100.35 Ac.

LIONEL L. PERSINGER ET UX 05-07-39 57.00 Ac.

LIONEL L. PERSINGER ET UX 05-12-12 45 Ac.

LIONEL L. PERSINGER ET UX 05-12-12.1 148.09 Ac.

KAREN REED, ET AL 05-11-21 112.67 Ac.

FRANCES E. NIEMAN 05-8-4.1 33.461 Ac.

EDWIN C. MILLER 05-8-7 180.31 Ac.

JAMES JACKSON, JR. et ux. 05-8-9 89.723 Ac.

U.S. of America 05-7-1 50 Ac.

(+) 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 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
- LEASE # (SEE 6A1 FORM)

DETAIL SKETCH "A" SCALE 1"=100'

MICHTER N-6HU (02206)
MICHTER N-7HU (02207)
MICHTER N-8HU (02219)
MICHTER N-9HU (02220)
MICHTER N-1HM (02275)
MICHTER N-2HM (02276)
MICHTER N-3HM (02277)
MICHTER N-4HM (02247)
MICHTER S-5HM (02087)

SURFACE HOLE UTM. NAD83, ZONE 17 IN METERS

(TH) N) 4,405,904.88 E) 517,346.37

LANDING POINT 1 UTM. NAD83, ZONE 17 IN METERS

N) 4,406,021.58 E) 517,750.99

BOTTOM HOLE UTM. NAD83, ZONE 17 IN METERS

N) 4,408,560.43 E) 515,974.26

NUMBER	CHORD DIRECTION	CHORD LENGTH	RADIUS	ARC LENGTH
C1	S 47°39' E	15.48'	11.92'	16.84'
C2	N 76°32' E	220.03'	241.18'	228.48'
C3	N 25°03' E	145.15'	182.14'	149.29'
C4	N 10°31' W	246.67'	476.67'	249.50'
C5	N 31°47' W	369.00'	2057.09'	369.49'

FILE NUMBER _____

DRAWING NUMBER MICHTER_N-4HM_REV1

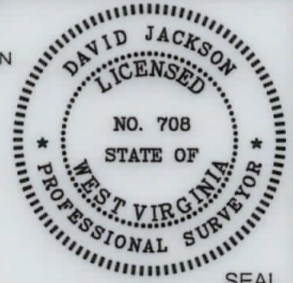
SCALE 1" = 2000'

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

David L Jackson



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



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

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

DATE: APRIL 22, 2021

OPERATORS WELL NO. MICHTER N-4HM

API WELL NO. 47-051-02247

STATE WV COUNTY MARSHALL PERMIT 02247

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 & CHARLES LEROY DUNLAP ACREAGE 34.405

OIL & GAS ROYALTY OWNER LARRY W. DUNLAP & CHARLES LEROY DUNLAP 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: 6,252' TMD: 17,392'

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

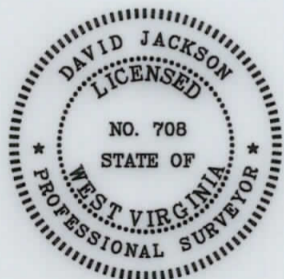
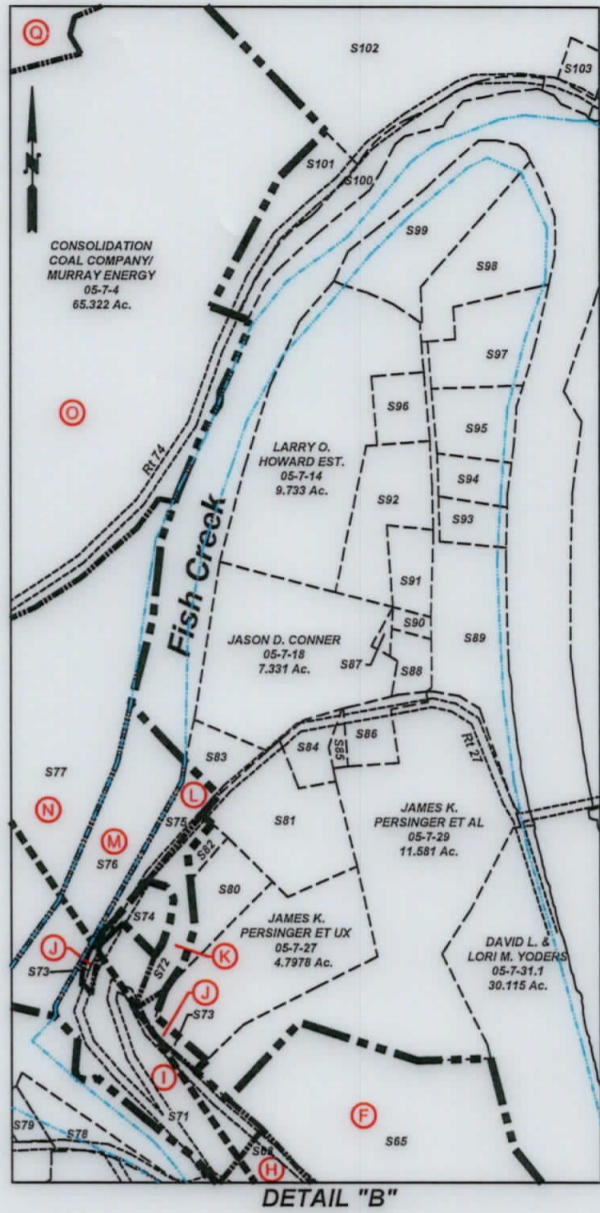
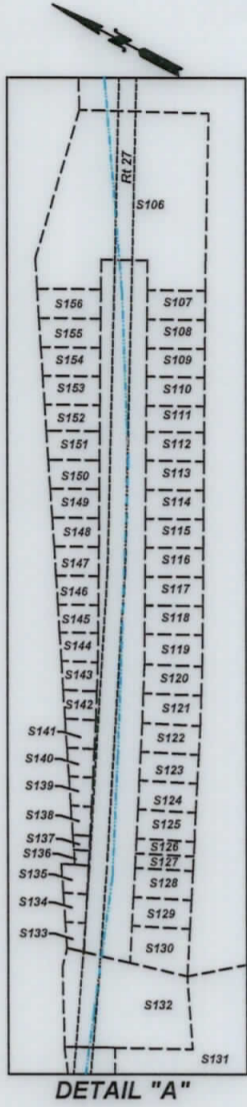
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107 ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

08/27/2021

COUNTY NAME
PERMIT

form ww6

PG 2 OF 3 MICTHER LEASE
WELL N-4HM
1196.8618± ACRES



P.S.
708

David L Jackson

SURFACE HOLE UTM. NAD83, ZONE 17 IN METERS N) 4,405,904.95 E) 517,346.42
LANDING POINT 1 UTM. NAD83, ZONE 17 IN METERS N) 4,406,005.97 E) 517,757.20
BOTTOM HOLE UTM. NAD83, ZONE 17 IN METERS N) 4,408,560.19 E) 515,970.62

08/27/2021



TUG HILL
OPERATING

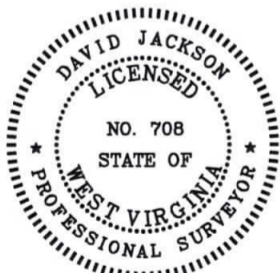
OPERATOR'S
WELL #: Michter N-4HM
DISTRICT: Franklin
COUNTY: Marshall
STATE: WV
API #: 47-051-02247

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

PG 3 OF 3 **MICHTER LEASE**
WELL N-4HM
1196.8618± ACRES

Number	TAX MAP -PARCEL	ADJOINER OWNER	ACRES
S1	05-12-11	Wesley Bryan & Wesley Bryan II	52.478
S2	05-12-10	Consolidation Coal Company/ Murray Energy c/o Land Dept	13.76
S3	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	05-07-42.5	Matthew V. Conner, et al	3.791
S10	05-07-41	James A. Wade	1.00
S11	05-12-09	Lionel & Mary Lee Persinger	10.15
S12	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	WV DOH	1.48
S22		State Road Commission	17.62 Calc.
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	05-07-3.5	Wheeling Power Company	1.5004
S27 C	05-11-1.4	Larry Dunlap, et al	32.493
S28	05-06-3.1	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	CII Carbon, LLC	1.408
S32	05-06-13	CII Carbon, LLC	0.318
S33	05-06-09	CII Carbon, LLC	1.15
S34	05-06-12	CII Carbon, LLC	0.43458
S35	05-06-18	CII Carbon, LLC	0.2754
S36	05-06-1.2	Ohio Power Co.	0.693
S37	05-06-1.1	CII 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 & Charles Leroy Dunlap	34.405
S63 D	05-07-33	William N. Roupe	24.60
S64 E	05-07-32	William N. & Virginia A. Roupe	4.2

Number	TAX MAP -PARCEL	ADJOINER OWNER	ACRES
S65 F	05-07-31	William N. Roupe, et ux	43.147
S66	05-07-31.4	Grandview-Doolen PSD	0.23
S67 G	05-07-31.2	William N. Roupe, et ux	3.304
S68 H	05-07-34	WV 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 I	05-07-26	James A. Wade	7.80
S72 K	05-07-23.1	WV DOH	2.37
S73 J	05-07-25	WV DOH	0.50
S74	05-07-24	James A. Wade	0.578
S75 L	05-07-45	Robert L. Henry (Life) & Jeffrey S. Henry	0.65
S76 M	Fish Creek	State of WV	4.92 Calc.
S77 N	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	Arle L. Powell	1.435
S81	05-07-27.1	Mark L. Ritter, 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. Eyles, 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 P	05-07-02	Consolidation Coal Company/ Murray Energy	46.46
S105 R	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	CNX Land Resources, Inc.	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



P.S. 708 *David L Jackson*

08/27/2021



TUG HILL
OPERATING

OPERATOR'S
 WELL #: Michter N-4HM
 DISTRICT: Franklin
 COUNTY: Marshall
 STATE: WV
 API #: 47-051-02247

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