

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 - 02207 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-7HU
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 4,405,909.78 Easting 517,325.01
Landing Point of Curve Northing 4,406,119.71 Easting 517,619.92
Bottom Hole Northing 4,408,271.59 Easting 516,087.83

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 8/6/2019 Date drilling commenced 10/23/2019 Date drilling ceased 9/22/2020
Date completion activities began 12/27/2020 Date completion activities ceased 1/7/2021
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.
8-10-21
08/27/2021

API 47-051 - 02207

Farm name Larry W. Dunlap, et al

Well number Michter N-7HU

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	26"	20"	835'	NEW	106.5#	N/A	Y
Coal							
Intermediate 1	17 1/2"	13 3/8"	2,651'	NEW	54.5#	N/A	Y
Intermediate 2	12 1/4"	9 5/8"	9,987'	NEW	36#	N/A	Y
Intermediate 3							
Production	8 1/2"	5 1/2"	20,191'	NEW	23#	N/A	Y
Tubing		2 7/8"	10,096'	NEW	4.7#	N/A	
Packer type and depth set							

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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	1474	15.6	1.19	1760	0	8
Coal							
Intermediate 1	A	2,058	15.6	1.19	2,710	0	8
Intermediate 2	A	4,147	15.6	1.19	4831	0	8
Intermediate 3							
Production	A	3,927	14.5	1.17	4,396	0	8
Tubing							

Drillers TD (ft) 20,235'

Loggers TD (ft) n/a

Deepest formation penetrated Marcellus

Plug back to (ft) n/a

Plug back procedure n/a

Kick off depth (ft) 10,075'

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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Michter N-7HU
PEFORATION RECORD

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Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD. Ft.	Number of Perforations	WV Department of Environmental Protection Formation(s)
1	12/27/2020	20001	20050	48	Utica
2	12/28/2020	19776	19949	48	Utica
3	12/28/2020	19578	19751	48	Utica
4	12/28/2020	19380	19553	48	Utica
5	12/28/2020	19182	19355	48	Utica
6	12/28/2020	18985	19158	48	Utica
7	12/29/2020	18787	18960	48	Utica
8	12/29/2020	18589	18762	48	Utica
9	12/29/2020	18391	18564	48	Utica
10	12/29/2020	18194	18367	48	Utica
11	12/30/2020	17996	18169	48	Utica
12	12/30/2020	17798	17971	48	Utica
13	12/30/2020	17600	17773	48	Utica
14	12/30/2020	17403	17576	48	Utica
15	12/31/2020	17205	17378	48	Utica
16	12/31/2020	17007	17180	48	Utica
17	12/31/2020	16809	16982	48	Utica
18	12/31/2020	16612	16785	48	Utica
19	1/1/2021	16414	16587	48	Utica
20	1/1/2021	16216	16389	48	Utica
21	1/1/2021	16018	16191	48	Utica
22	1/1/2021	15821	15994	48	Utica
23	1/2/2021	15623	15796	48	Utica
24	1/2/2021	15425	15598	48	Utica
25	1/2/2021	15227	15400	48	Utica
26	1/2/2021	15030	15203	48	Utica
27	1/3/2021	14832	15005	48	Utica
28	1/3/2021	14634	14807	48	Utica
29	1/3/2021	14436	14609	48	Utica
30	1/3/2021	14239	14412	48	Utica
31	1/4/2021	14041	14214	48	Utica
32	1/4/2021	13843	14016	48	Utica
33	1/4/2021	13645	13818	48	Utica
34	1/5/2021	13448	13621	48	Utica
35	1/5/2021	13250	13423	48	Utica
36	1/5/2021	13052	13225	48	Utica
37	1/5/2021	12854	13027	48	Utica
38	1/6/2021	12657	12830	48	Utica
39	1/6/2021	12459	12632	48	Utica
40	1/6/2021	12261	12434	48	Utica
41	1/6/2021	12063	12236	48	Utica

08/27/2021

42	1/7/2021	11866	12039	48	Utica
43	1/7/2021	11668	11841	48	Utica
44	1/7/2021	11470	11643	48	Utica

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Michter N-7HU
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	88	10411	358	6715	248300	6621	0
2	90	10396	7964	8470	505320	7999	0
3	89	10499	8312	8403	507520	8021	0
4	89	10479	8013	8046	504040	7930	0
5	90	10429	7983	7834	507780	8025	0
6	90	10585	8535	8202	505580	8011	0
7	90	10404	8430	8011	508740	7922	0
8	90	10544	8403	8884	495560	7824	0
9	89	10418	8156	7989	492070	7773	0
10	90	10520	8301	7930	502610	7856	0
11	90	10491	8510	8254	508880	7947	0
12	89	10451	8394	8729	508200	7914	0
13	90	10384	8169	8364	493820	9060	0
14	90	10332	8074	8088	501960	7838	0
15	90	10200	8074	8224	499880	7777	0
16	90	10297	8309	8359	499500	7782	0
17	90	10172	7855	7381	493200	7815	0
18	90	10457	8200	8405	500490	7763	0
19	90	10281	8182	7822	503180	7846	0
20	90	10220	7756	8130	497360	7702	0
21	89	10427	7852	8167	501640	7751	0
22	90	10334	7861	7324	498940	7843	0
23	90	10438	7815	7516	499700	7870	0
24	90	10367	7929	7733	499300	7743	0
25	90	10241	7906	7968	494900	7675	0
26	90	10259	8236	7629	505300	7868	0
27	90	10306	8140	7882	497360	7742	0
28	90	10359	8138	8013	508160	8912	0
29	90	10259	7987	7583	506680	9016	0
30	90	10071	7676	7613	505860	7934	0
31	90	10070	7765	8685	502440	7764	0
32	90	10069	7652	8376	504060	7798	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	90	10152	7597	8195	507280	7829	0
34	90	10127	7865	8137	501800	7755	0
35	90	10191	8142	8736	500560	7734	0
36	90	10129	7808	7884	501700	7661	0
37	90	9943	8133	7680	495580	7576	0
38	90	10155	8767	9119	504600	7681	0
39	90	10070	8033	8208	506860	7652	0
40	90	9986	8041	7061	506620	7743	0
41	90	10035	8453	7602	501680	7549	0
42	90	10204	8443	8110	474620	7294	0
43	90	10078	8078	9152	499480	7543	0
44	90	9953	8452	9447	496230	7544	0

MICHTER N-7HU

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	1946	2034	1947	2035	Sandstone
Big Lime	2034	2076	2035	2077	Limestone
Big Injun	2076	2422	2077	2423	Sandstone
Weir	2422	2548	2423	2550	Sandstone
Berea	2548	2771	2550	2773	Sandstone
Gordon	2771	2818	2773	2820	Sandstone
Fifty Foot	2818	3378	2820	3382	Sandstone
Speechley	3378	4750	3382	4759	Sandstone
Benson	4750	5119	4759	5129	Sandstone
Alexander	5119	5740	5129	5753	Siltstone
Rhinestreet	5740	6097	5753	6111	Black shale
Middlesex	6097	6121	6111	6135	Black shale
Geneseo/Burkett	6121	6206	6135	6220	Black shale
Tully	6206	6231	6220	6246	Limestone
Hamilton	6231	6281	6246	6296	Grey shale
Marcellus	6281	6336	6296	6351	Black shale
Onondaga	6336	6556	6351	6572	Limestone
Oriskany	6556	6655	6572	6672	Sandstone
Helderberg	6655	7017	6672	7044	Limestone
Salina	7017	8025	7044	8092	Salt/Anhydrite/LS
Lockport	8025	8388	8092	8467	Dolomite
Rose Hill	8388	8650	8467	8738	Shale
Packer Shell	8650	8853	8738	8949	Limestone
Clinton/Tuscarora	8853	8941	8949	9040	Sandstone
Juniata/Queenston	8941	9701	9040	9836	Red Shale
Reedsville	9701	10663	9836	10891	Grey Shale
Utica	10663	10906	10891	11324	Black Shale
Point Pleasant	10906	-	11324	-	Shale/Limestone

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	12/27/2020
Job End Date:	1/7/2021
State:	West Virginia
County:	Marshall
API Number:	47-051-02207-00-00
Operator Name:	Tug Hill Operating, LLC
Well Name and Number:	Michter N 7HU
Latitude:	39.80297960
Longitude:	-80.79761552
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	10,873
Total Base Water Volume (gal):	14,485,926
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	84.36940	None
Sand (40/70 White Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	11.99700	None
Sand (100 Mesh Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	3.22161	None
Hydrochloric Acid (7.5%)	PVS	Acidizing	Water	7732-18-5	85.00000	0.24210	None
			Hydrochloric Acid (Hydrogen Chloride)	7647-01-0	37.00000	0.10538	None
StimStream FR 9800	Chemstream	Friction Reducer	Alkanes, C16-20-iso-	90622-59-6	25.00000	0.02040	None
			Butene, homopolymer	9003-29-6	25.00000	0.02040	None
			Ethoxylated alcohols (C12-18)	68213-23-0	3.00000	0.00245	None
MC MX 9-4743	Multi-Chem	Biocide	Sodium Nitrate	7631-99-4	60.00000	0.02107	None
LD-7750W	Multi-Chem	Scale Inhibitor					

			Methanol	67-56-1	60.00000	0.00514	None
			Phosphonic Acid Salt	Proprietary	5.00000	0.00043	None
ProFE 105	ProFrac	Iron Control					
			Citric Acid	77-92-9	100.00000	0.00103	None
ProHib 100	ProFrac	Acid Inhibitor					
			2-Propyn-1-ol compound w/ methyloxirane	38172-91-7	15.00000	0.00013	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	0.24210	
			Butene, homopolymer	9003-29-6	25.00000	0.02040	
			Ethoxylated alcohols (C12-18)	68213-23-0	3.00000	0.00245	
			Phosphonic Acid Salt	Proprietary	5.00000	0.00043	

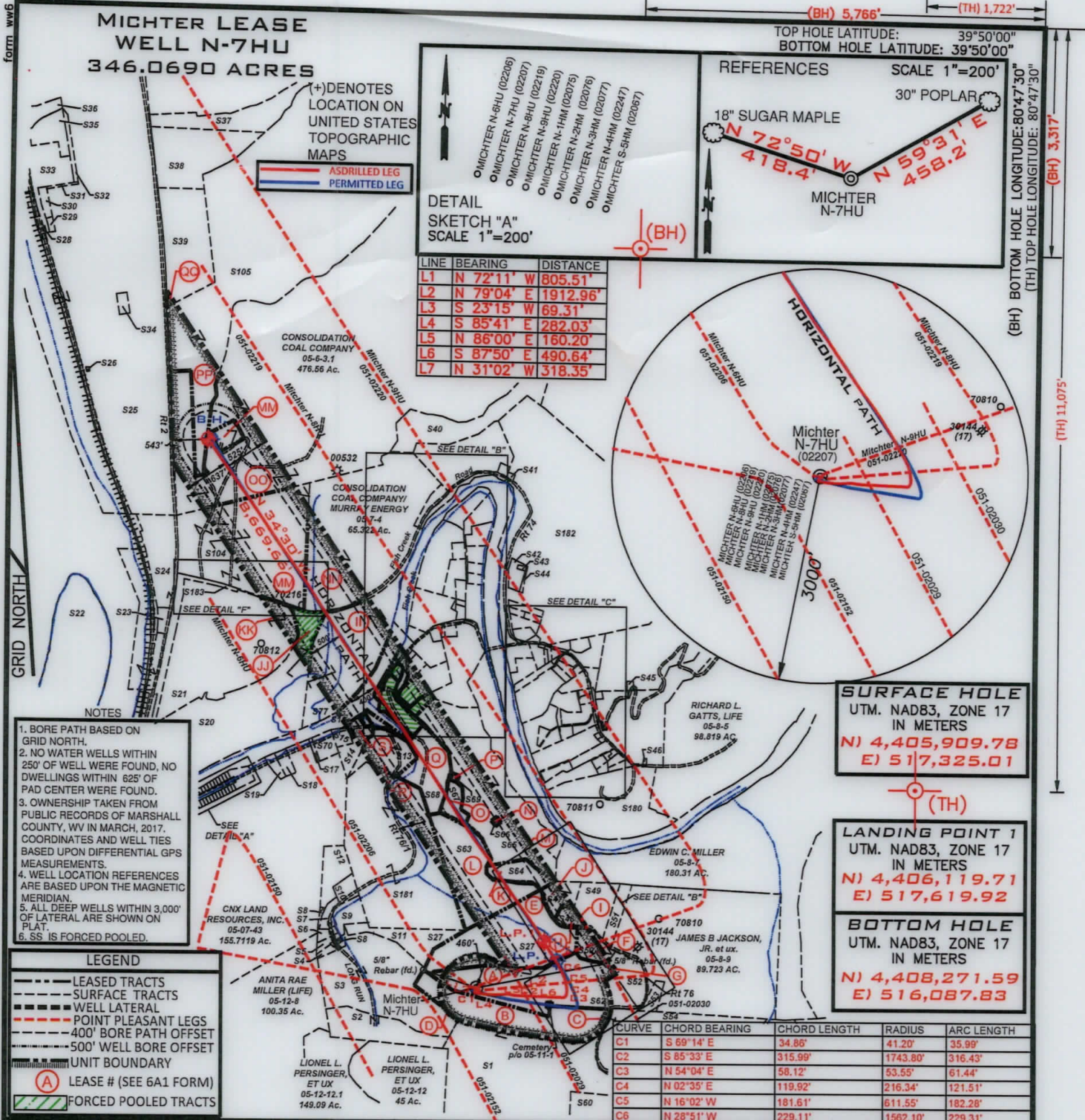
* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

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

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

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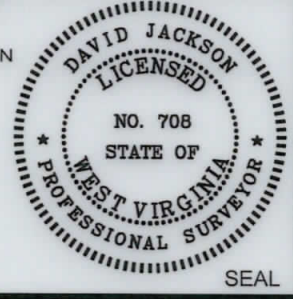
- NOTES
1. BORE PATH BASED ON GRID NORTH.
 2. NO WATER WELLS WITHIN 250' OF WELL WERE FOUND, NO DWELLINGS WITHIN 625' OF PAD CENTER WERE FOUND.
 3. OWNERSHIP TAKEN FROM PUBLIC RECORDS OF MARSHALL COUNTY, WV IN MARCH, 2017. COORDINATES AND WELL TIES BASED UPON DIFFERENTIAL GPS MEASUREMENTS.
 4. WELL LOCATION REFERENCES ARE BASED UPON THE MAGNETIC MERIDIAN.
 5. ALL DEEP WELLS WITHIN 3,000' OF LATERAL ARE SHOWN ON PLAT.
 6. SS IS FORCED POOLED.

LEGEND

- LEASED TRACTS
- SURFACE TRACTS
- WELL LATERAL
- POINT PLEASANT LEGS
- 400' BORE PATH OFFSET
- 500' WELL BORE OFFSET
- UNIT BOUNDARY
- (A) LEASE # (SEE 6A1 FORM)
- FORCED POOLED TRACTS

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

FILE NUMBER _____
DRAWING NUMBER MICHTER_N-7HU_REV1
SCALE 1" = 2000'
MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEVATION SUBMETER MAPPING
GRADE GPS

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 X SHALLOW ___
LOCATION ELEVATION 1126.1' WATERSHED (HUC 10) FISH CREEK
DISTRICT FRANKLIN COUNTY MARSHALL
QUADRANGLE POWHATAN POINT 7.5' LEASE NUMBER _____ SEE WW-6A1 FORM

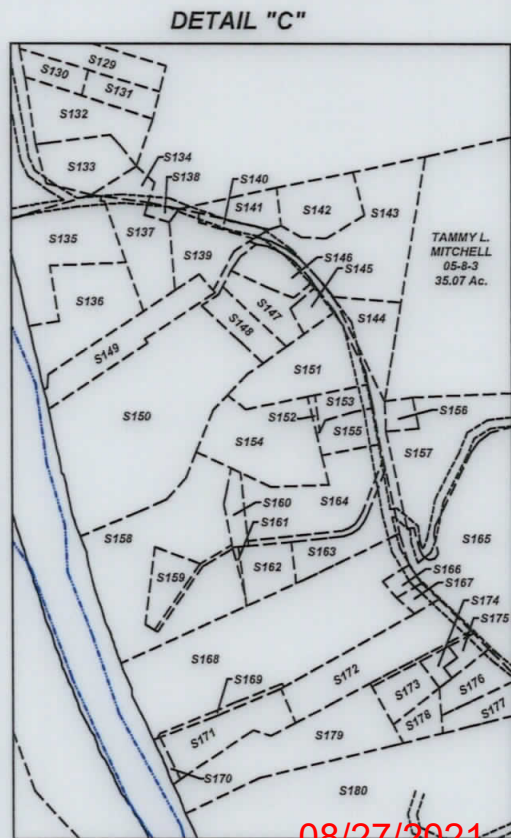
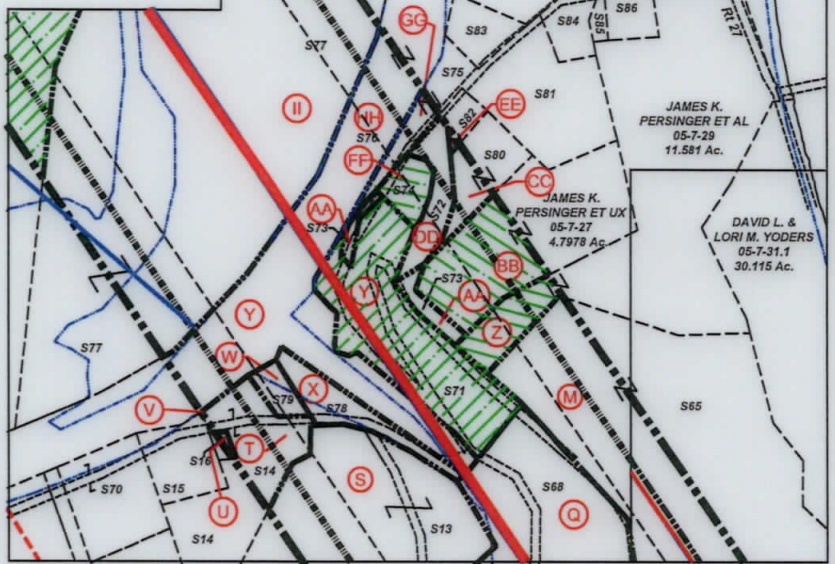
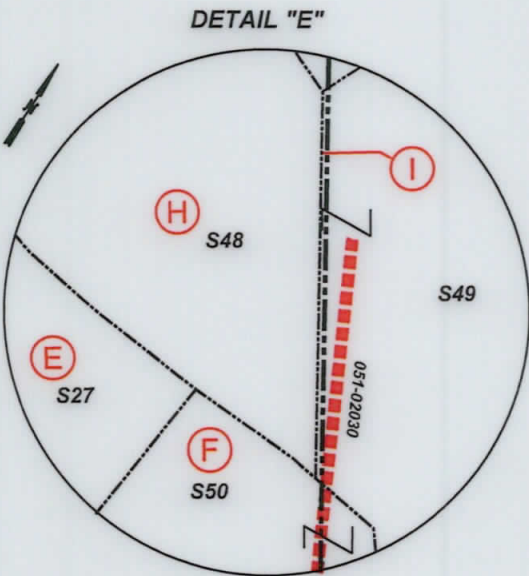
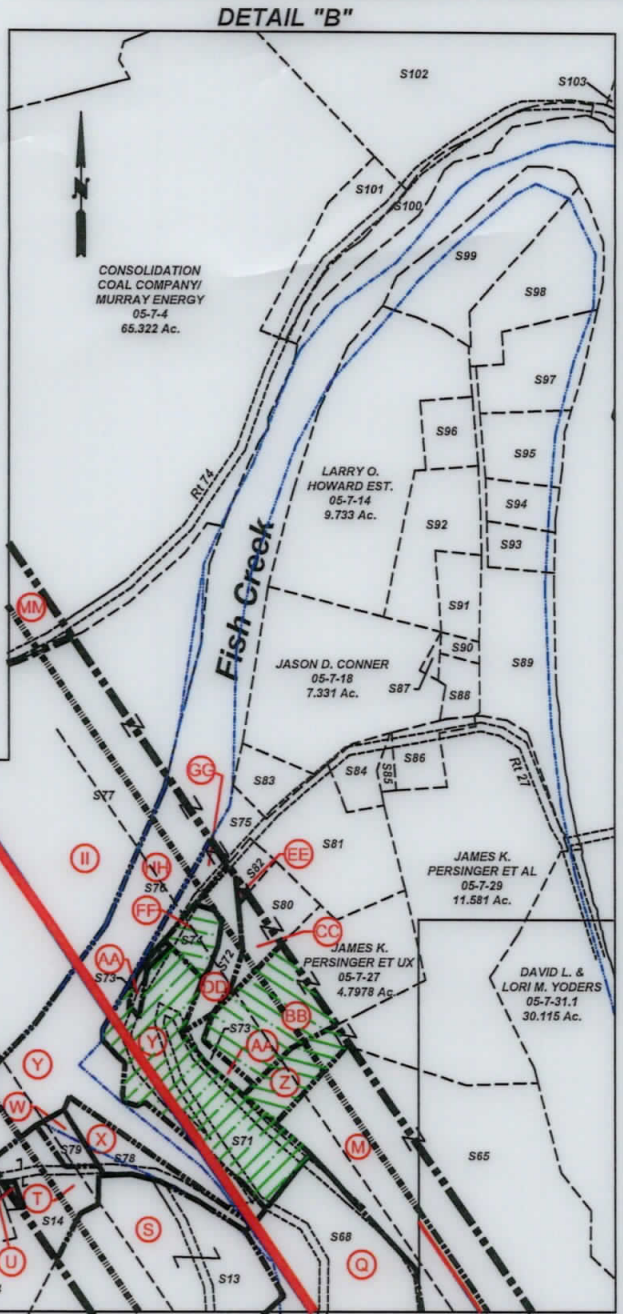
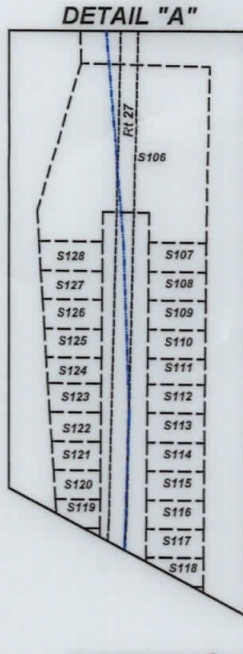
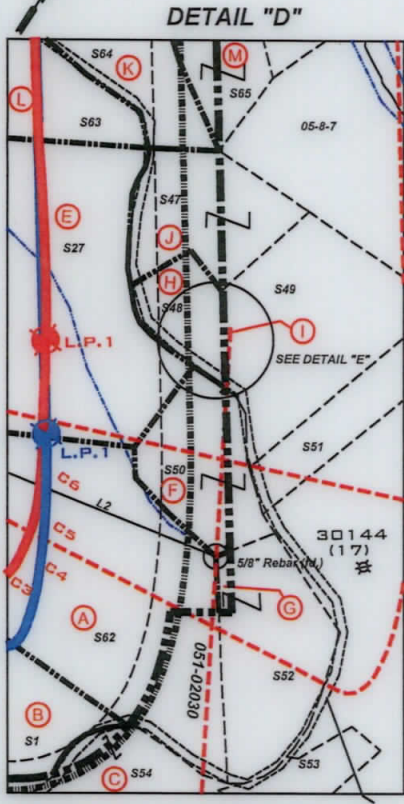
DATE: APRIL 22, 2021
OPERATORS WELL NO. MICHTER N-7HU
API WELL NO. 47-051-02207
STATE COUNTY PERMIT

SURFACE OWNER LARRY W. DUNLAP, ET AL ACREAGE 34.405
OIL & GAS ROYALTY OWNER LARRY W. DUNLAP, ET AL LEASE ACREAGE 555.9436
PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___
PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE (SPECIFY) ASDRILLED
PLUG & ABANDON ___ CLEAN OUT & REPLUG ___
TARGET FORMATION POINT PLEASANT ESTIMATED DEPTH TVD: 10,790' TMD: 20,235'
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5400 D BIG TYLER ROAD
FORT WORTH, TX 76107 CHARLESTON, WV 25313

08/27/2021

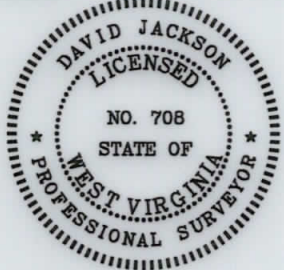
COUNTY NAME
PERMIT

PG 2 OF 6 MICTHER LEASE
WELL N-7HU
346.0690± ACRES



SURFACE HOLE
UTM. NAD83, ZONE 17 IN METERS
N) 4,405,909.84
E) 517,325.03
LANDING POINT 1
UTM. NAD83, ZONE 17 IN METERS
N) 4,406,037.73
E) 517,675.40
BOTTOM HOLE
UTM. NAD83, ZONE 17 IN METERS
N) 4,408,272.76
E) 516,100.29

FORCED POOLED TRACTS



P.S. 708 *David L Jackson*

08/27/2021



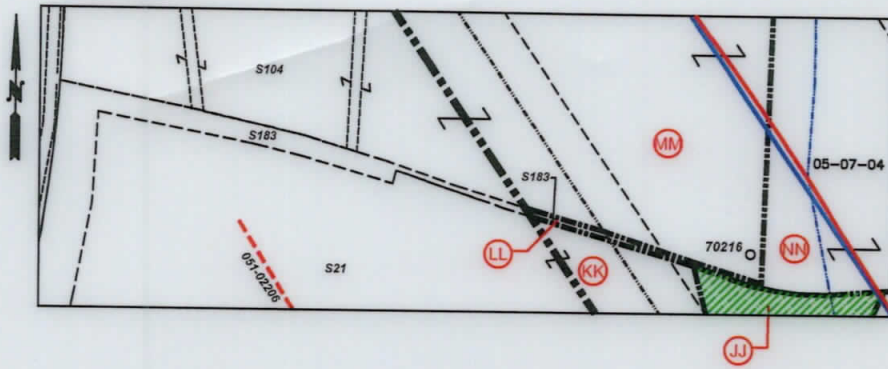
TUG HILL
OPERATING

OPERATOR'S
WELL #: Michter N-7HU
DISTRICT: Franklin
COUNTY: Marshall
STATE: WV
API#: 47-051-02207

WELL PLAT
PAGE 2 OF 6
DATE: 04/22/2021

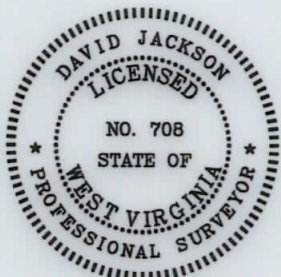
PG 3 OF 6
MICHTER LEASE
WELL N-7HU
346.0690± ACRES

DETAIL "F"



Number	TAX MAP -PARCEL	SURFACE OWNER	ACRES
S1	B 05-11-21	Karen Reed, et al	112.67
S2	05-12-10	Consolidation Coal Company/ Murray Energy c/o Land Dept	13.76
S3	D 05-12-10.1	Consolidation Coal Company/ Murray Energy	38.48
S4	05-07-42.4	Lionel & Mary Lee Persinger	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	S 05-07-35	Samuel L. Persinger	10.708
S14	T 05-07-36	John Persinger	4.329
S15	V 05-07-38	John K. Persinger, et ux	2.65
S16	U 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	JJ 05-07-3.3	WV Economic Development Authority	65.2077
S21	KK 05-07-3.4	WV Economic Development Authority	56.3496
S22	05-07-01	U.S. of America	50.0
S23	05-07-3.5	Wheeling Power Company	1.5004
S24	05-07-3.1	Ohio Power Company	28.9966
S25	05-06-10	Ohio Power Company	241.858
S26	05-06-16	Appalacian Power CP	0.061
S27	E 05-11-1.4	Larry Dunlap, et al	32.493
S28	05-06-18	CII Carbon, LLC	0.2754
S29	05-06-12	CII Carbon, LLC	0.43458
S30	05-06-09	CII Carbon, LLC	1.15
S31	05-06-13	CII Carbon, LLC	0.318
S32	05-06-14	CII Carbon, LLC	1.408
S33	05-06-7	CII Carbon, LLC	12.454
S34	05-06-11	Consolidation Coal Company/ Murray Energy	1.05
S35	05-06-08	CII Carbon, LLC	2.727
S36	05-06-15	CII Carbon, LLC	2.522
S37	05-06-01	Consolidation Coal Company/ Murray Energy	7.99
S38	05-06-06	Consolidation Coal Company/ Murray Energy	18.50
S39	QQ 05-06-05	Consolidation Coal Company/ Murray Energy	17.159
S40	05-06-04	Consolidation Coal Company/ Murray Energy	5.47
S41	05-07-09	Norman Thomas Jackson et al	0.25
S42	05-8A-02	Graysville Cemetery Association	1.76
S43	05-8A-01	Calvary M.E. Church	2.0
S44	05-8A-03	Calvary M.E. Church	0.259
S45	05-08-23	Robert L. Shields & Donald L. Shields	0.3
S46	P/O 05-08-4	Cemetery	
S47	J 05-11-01	William N. & Virginia A. Roupe	4.527
S48	H 05-11-1.6	Debra Morris	2.093
S49	I 05-11-1.7	William S. & Mary K. Adams	8.00
S50	F 05-11-1.3	Jay A. Conner, et ux	4.256
S51	05-11-1.5	Paul & Sandy Witt	3.507
S52	G 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	C 05-11-02	Walter C. & Cheryl A. Rine	42.36
S55	05-11-2.2	Joshua Myers	2.193
S56	05-11-2.1	Walter C. & Cheryl A. Rine	1.19
S57	05-11-20	David E. Gray	0.69
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	L 05-07-33	William N. Roupe	24.60
S64	K 05-07-32	William N. & Virginia A. Roupe	2.3

08/27/2021



P.S. 708 *David L Jackson*



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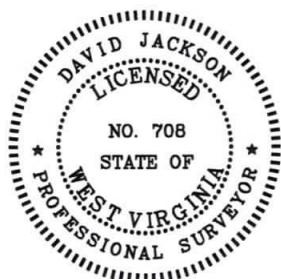
OPERATOR'S
 WELL #: Michter N-7HU
 DISTRICT: Franklin
 COUNTY: Marshall
 STATE: WV
 API#: 47-051-02207

WELL PLAT
 PAGE 3 OF 6
 DATE: 04/22/2021

PG 4 OF 6 **MICHTER LEASE**
WELL N-7HU
346.0690± ACRES

Number	TAX MAP -PARCEL	SURFACE OWNER	ACRES
S65	M 05-07-31	William N. Roupe, et ux	43.147
S66	N 05-07-31.4	Grandview-Doolen PSD	0.23
S67	Q 05-07-31.2	William N. Roupe, et ux	3.304
S68	Q 05-07-34	WV DOH	10.88
S69	P 05-07-31.3	William N. & Virginia A. Roupe	0.230
S70	05-07-43.2	M. Frank Mason	1.36
S71	Y 05-07-26	James A. Wade	7.80
S72	DD 05-07-23.1	WV DOH	2.37
S73	AA 05-07-25	WV DOH	0.50
S74	FF 05-07-24	James A. Wade	0.578
S75	GG 05-07-45	Robert L. Henry (Life) & Jeffrey S. Henry	0.65
S76	HH Fish Creek	State of WV	8.97 Calc.
S77	II 05-07-3.2	Ohio Power Company	45.5348
S78	X 05-07-35.1	Lionel L. & Mary Lee Persinger	0.812
S79	W 05-07-36.1	Lionel L. & Mary Lee Persinger	0.5579
S80	CC 05-07-23	Arle E. Powell	1.435
S81	05-07-27.1	Mark L. Riter, et ux	3.427
S82	EE 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	MM 05-07-02	Consolidation Coal Company/ Murray Energy	46.46
S105	PP 05-06-03	Ohio Power Co.	281.046

Number	TAX MAP -PARCEL	SURFACE OWNER	ACRES
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-11	Teresa & Thomas Gouldsberry	0.1159
S120	05-7B-10	Teresa & Thomas Gouldsberry	0.1199
S121	05-7B-09	Teresa & Thomas Gouldsberry	0.1240
S122	05-7B-08	Teresa & Thomas Gouldsberry	0.1286
S123	05-7B-07	Teresa & Thomas Gouldsberry	0.1331
S124	05-7B-06	Teresa & Thomas Gouldsberry	0.1377
S125	05-7B-05	Daniel D. & Mary E. Robinson	0.1418
S126	05-7B-04	Daniel D. & Mary E. Robinson	0.1458
S127	05-7B-03	Daniel D. Robinson, et ux	0.1504
S128	05-7B-02	Daniel D. Robinson, et ux	0.1550
S129	05-8A-04	Cheryl A. & Tammie D. Persinger	1.07
S130	05-8A-05	Cheryl A. & Tammie D. Persinger	0.50
S131	05-8A-06	Cheryl A. & Tammie D. Persinger	0.48
S132	05-8A-07	Anne C. Klem	1.40
S133	05-8A-08	John Joseph Goudy	1.0
S134	05-8A-09	Kevin W. Wallace	0.323
S135	05-8A-15	Kevin R. Morris	2.06
S136	05-8A-16	John David Fromhart	2.0
S137	05-8A-17	Isaac Luke Vanscyoc	1.44
S138	05-8A-55	H. G. Energy II Appalachia, LLC	0.10
S139	05-8A-19	Mary Catherine Brooks	1.0
S140	05-8A-20	Milton Christopher White	0.19
S141	05-8A-11	Gloria Jean White & Milton Christopher White	0.19
S142	05-8A-12	Mary D. Ruckman	1.137
S143	05-8A-13	Matthew Ruckman	2.993
S144	05-8A-14	Board of Education	0.86
S145	05-8A-25	Whitney Woods	0.29
S146	05-8A-22	Whitney Woods	0.715
S147	05-8A-23	Danny Lee & Leona May Darrah	0.738
S148	05-8A-24	Clarence Paul Siburt, Hrs	0.653
S149	05-8A-26	Albert James Anderson, Jr.	1.605
S150	05-8A-27	Mary J. Siburt	8.296
S151	05-8A-28	Norman G. Johnson-Life	2.0
S152	05-8A-30	Randall Keith Keener, et ux	0.059
S153	05-8A-29	Catherine P. Rine	0.394
S154	05-8A-31	Randall K. Keener, et ux	2.346
S155	05-8A-32	Jonathan David Bopp	0.580
S156	05-8A-34	Norman G. Johnson, et ux	0.255
S157	05-8A-35	Jared C. Sills	2.780
S158	05-8A-39	Barbara L. Daniels & Elaine Wills	3.223
S159	05-8A-40	Barbara L. Daniels & Elaine Wills	0.627
S160	05-8A-38	William J. Gamble, et ux	0.35
S161	05-8A-41	William J. Gamble, et ux	0.046
S162	05-8A-37	William J. Gamble, et ux	0.706
S163	05-8A-36	William J. Gamble, et ux	1.031
S164	05-8A-33	Elaine Wills & Jeffrey D. Brooks	2.517
S165	05-8-04	C. Wayne Berisford	23.355
S166	05-8A-43	Charles G. Stein & Eva A. Wade	0.17
S167	05-8A-44	Charles G. Stein & Eva A. Wade	0.18
S168	05-8A-42	Robert M. White	7.23
S169	05-8A-49	Raymond A. Jr. & Larriette Scott	0.159
S170	05-8A-45	Raymond A. Jr. & Larriette Scott	0.305
S171	05-8A-46	Barbara L. Rose & Mary L. Rose	1.5
S172	05-8A-48	Raymond A. Jr. & Larriette Scott	2.12
S173	05-8A-52	Barbara L. Rose & Mary L. Rose	0.59
S174	05-8A-51	Lucretia M. Harrison	0.210
S175	05-8A-50	Lucretia M. Harrison	0.277
S176	05-8A-54	David D. & Christine S. Daniels	0.68
S177	05-8A-54.1	David D. & Christine S. Daniels	0.69
S178	05-8A-53	Frances E. Nieman	0.422
S179	05-8A-47	Barbara L. Rose & Mary L. Rose	3.0
S180	05-8A-4.1	Frances E. Nieman	33.461
S181	R 05-07-39	Lionel L. Persinger, et ux	57.00
S182	05-08-02	Consolidation Coal Company/ Murray Energy	136.587
S183	LL 05-07-03	Consolidation Coal Company/ Murray Energy	12.2641



P.S. 708

David L Jackson

08/27/2021



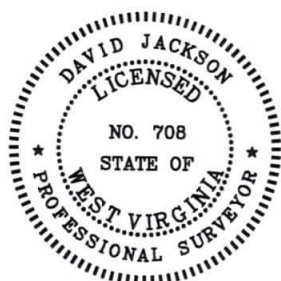
TUG HILL
OPERATING

OPERATOR'S
WELL #: Michter N-7HU
DISTRICT: Franklin
COUNTY: Marshall
STATE: WV
API#: 47-051-02207

WELL PLAT
PAGE 4 OF 6
DATE: 04/22/2021

PG 6 OF 6
**MICHTER LEASE
 WELL N-7HU
 346.0690± ACRES**

Lease ID	Tag	Parcel	Grantor, Lessor, Etc.	Deed Book/Page	
10*23941	X	5-7-35.1	MARY BETH PERSINGER CHAPLIN	1019	475
10*23946	X	5-7-35.1	SAMUEL PERSINGER	1020	355
N/A	Y	5-7-26	JAMES A WADE SR	707	371
N/A	Z	5-7-29	JAMES K PERSINGER AND TONDA J PERSINGER	711	359
Q091664000	AA	5-7-25	JOSEPH H JACKSON JR AND CAROLYN JACKSON	860	526
N/A	BB	5-7-27	JAMES K PERSINGER AND TONDA J PERSINGER	711	359
Q096159000	CC	5-7-23	MARTHA F POWELL	881	21
Q091953000	DD	5-7-23.1	PATRICIA Y DARRAH	860	552
Q097423000	EE	5-7-23.2	ROBERT L HENRY JR AND GEORGEANNA HENRY ET AL	890	613
N/A	FF	5-7-24	JAMES A WADE SR	707	371
Q097423000	GG	5-7-45	ROBERT L HENRY JR AND GEORGEANNA HENRY ET AL	890	613
Q091960000	HH	FISH CREEK - ST OF WV	WEST VIRGINIA DIVISION OF NATURAL RESOURCES	865	558
Q083442000	II	5-7-3.2	AEP GENERATION RESOURCES INC ET AL	829	157
N/A	JJ	5-7-3.3	WEST VIRGINIA ECONOMIC DEVELOPMENT AUTHORITY	656	423
N/A	JJ	5-7-3.3	CERTAINTED GYPSUM WEST VIRGINIA, INC.	660	140
624061	KK	5-7-3.4	LOUCKS, CHARLES H; KEISTER, FENTON O, JR, ET AL	273	326
624074	LL	5-7-2	GATTS, ALICE	282	394
624083	MM	5-7-4	GATTS, LLOYD Q & MARY WOLFE	290	94
Q074011007	NN	5-6-3.1	SUSAN WITTEN NEAL MYERS ET AL	815	375
Q074011008	NN	5-6-3.1	JANE WITTEN VOTH	853	306
Q074011003	NN	5-6-3.1	JOSEPH MOORE NEAL	859	512
Q074011006	NN	5-6-3.1	FRANCES GALE NEAL	851	218
Q074011005	NN	5-6-3.1	ANN ALEXANDER	853	310
Q074011013	NN	5-6-3.1	MARY WITTEN NEAL WISEMAN	851	216
624074	NN	5-6-3.1	GATTS, ALICE	282	394
624080	NN	5-6-3.1	GATTS, ELIZABETH RJ & HARLEY	290	97
624083	NN	5-6-3.1	GATTS, LLOYD Q & MARY WOLFE	290	94
624150	NN	5-6-3.1	RINE, G W & BESSIE J	313	200
Q074011002	NN	5-6-3.1	DOROTHY ANN NEAL	851	396
Q074011004	NN	5-6-3.1	MARGERY J. WITTEN	851	398
624074	OO	5-6-3	GATTS, ALICE	282	394
624080	OO	5-6-3	GATTS, ELIZABETH RJ & HARLEY	290	97
624083	OO	5-6-3	GATTS, LLOYD Q & MARY WOLFE	290	94
624150	OO	5-6-3	RINE, G W & BESSIE J	313	200
Q074011007	OO	5-6-3	SUSAN WITTEN NEAL MYERS ET AL	815	375
Q074011008	OO	5-6-3	JANE WITTEN VOTH	853	306
Q074011003	OO	5-6-3	JOSEPH MOORE NEAL	859	512
Q074011006	OO	5-6-3	FRANCES GALE NEAL	851	218
Q074011005	OO	5-6-3	ANN ALEXANDER	853	310
Q074011013	OO	5-6-3	MARY WITTEN NEAL WISEMAN	851	216
Q074011002	OO	5-6-3	DOROTHY ANN NEAL	851	396
Q074011004	OO	5-6-3	MARGERY J. WITTEN	851	398
624080	PP	5-6-5	GATTS, ELIZABETH RJ & HARLEY	290	97



P.S.
708

David L Jackson

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OPERATOR'S
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 STATE: WV
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WELL PLAT
PAGE 6 OF 6
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