

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

API 47-051-02206 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-6HU
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 4,405,910.67 Easting 517,321.47
Landing Point of Curve Northing 4,406,230.46 Easting 516,976.93
Bottom Hole Northing 4,407,576.16 Easting 516,115.86

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 10/22/2019 Date drilling ceased 9/8/2020
Date completion activities began 12/4/2020 Date completion activities ceased 12/10/2020
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 - 02206 Farm name Larry W. Dunlap, et al Well number Michter N-6HU

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"	833'	NEW	106.5#	N/A	Y
Coal							
Intermediate 1	17 1/2"	13 3/8"	2,617'	NEW	54.5#	N/A	Y
Intermediate 2	12 1/4"	9 5/8"	9,850'	NEW	36#	N/A	Y
Intermediate 3							
Production	8 1/2"	5 1/2"	16,678'	NEW	23#	N/A	Y
Tubing		2 7/8"	8,339'	NEW	4.7#	N/A	Y
Packer type and depth set							

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	A		15.6	1.19		0	8
Surface	A	1474	15.6	1.19	1760	0	8
Coal							
Intermediate 1	A	2031	15.6	1.19	2675	0	8
Intermediate 2	A	3904	15.6	1.19	4548	0	8
Intermediate 3							
Production	A	3,930	14.5	1.17	4,400	0	8
Tubing							

Drillers TD (ft) 16,723' 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) 9,913'

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

**Michter N-6HU
PEFORATION RECORD**

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD. Ft.	Number of Perforations	Formation(s)
1	12/4/2020	17855	18030	48	Utica
2	12/5/2020	17656	17831	48	Utica
3	12/5/2020	17457	17631	48	Utica
4	12/5/2020	15856	16031	48	Utica
5	12/5/2020	15655	15830	48	Utica
6	12/5/2020	15454	15629	48	Utica
7	12/6/2020	15253	15428	48	Utica
8	12/6/2020	15052	15227	48	Utica
9	12/6/2020	14851	15026	48	Utica
10	12/6/2020	14650	14825	48	Utica
11	12/7/2020	14449	14624	48	Utica
12	12/7/2020	14248	14423	48	Utica
13	12/7/2020	14047	14222	48	Utica
14	12/7/2020	13846	14021	48	Utica
15	12/8/2020	13645	13820	48	Utica
16	12/8/2020	13444	13619	48	Utica
17	12/8/2020	13243	13418	48	Utica
18	12/8/2020	13042	13217	48	Utica
19	12/9/2020	12841	13016	48	Utica
20	12/9/2020	12640	12815	48	Utica
21	12/9/2020	12439	12614	48	Utica
22	12/9/2020	12238	12413	48	Utica
23	12/10/2020	12037	12212	48	Utica
24	12/10/2020	11836	12011	48	Utica
25	12/10/2020	11635	11810	48	Utica
26	12/10/2020	11434	11609	48	Utica

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Michter N-6HU
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	10149	0	6841	251440	6466	0
2	90	10006	7677	7364	503600	9116	0
3	89	9990	8333	8507	502860	9125	0
4	90	9703	7959	7767	509460	9128	0
5	90	9866	7419	7866	502660	8895	0
6	90	9920	7443	7920	502320	8928	0
7	90	9581	7173	7748	500500	8930	0
8	88	9561	7381	8567	503460	8965	0
9	89	9624	7858	7641	502160	8954	0
10	90	9914	7909	8159	502700	8791	0
11	91	9674	7402	8774	500780	8967	0
12	90	9558	7649	8441	507840	9093	0
13	91	9672	8046	8544	497820	8751	0
14	90	9885	7784	9261	506120	8801	0
15	90	9798	8554	8766	502060	8806	0
16	90	9953	8254	8881	500080	8775	0
17	90	10024	8119	8975	501820	8826	0
18	91	9858	8046	8124	504900	8776	0
19	91	9798	7487	8556	493620	8726	0
20	91	9778	7543	8427	498980	8787	0
21	90	9553	7474	9236	505640	8926	0
22	90	9338	7348	8047	500260	8765	0
23	90	9320	7221	8357	493960	8723	0
24	90	9467	8130	7569	496400	8660	0
25	90	9580	7872	7766	505080	8822	0
26	90	9443	7911	8734	505080	8737	0

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MICHTER N-6HU

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	1906	1994	1907	1995	Sandstone
Big Lime	1994	2036	1995	2037	Limestone
Big Injun	2036	2382	2037	2384	Sandstone
Weir	2382	2508	2384	2510	Sandstone
Berea	2508	2731	2510	2734	Sandstone
Gordon	2731	2778	2734	2781	Sandstone
Fifty Foot	2778	3338	2781	3341	Sandstone
Speechley	3338	4768	3341	4771	Sandstone
Benson	4768	5079	4771	5082	Sandstone
Alexander	5079	5752	5082	5755	Siltstone
Rhinestreet	5752	6113	5755	6116	Black shale
Middlesex	6113	6200	6116	6203	Black shale
Geneseo/Burkett	6200	6225	6203	6228	Black shale
Tully	6225	6242	6228	6245	Limestone
Hamilton	6242	6280	6245	6283	Grey shale
Marcellus	6280	6335	6283	6338	Black shale
Onondaga	6335	6560	6338	6563	Limestone
Oriskany	6560	6667	6563	6670	Sandstone
Helderberg	6667	7009	6670	7012	Limestone
Salina	7009	8003	7012	8020	Salt/Anhydrite/LS
Lockport	8003	8364	8020	8388	Dolomite
Rose Hill	8364	8629	8388	8661	Shale
Packer Shell	8629	8831	8661	8869	Limestone
Clinton/Tuscarora	8831	8919	8869	8961	Sandstone
Juniata/Queenston	8919	9672	8961	9738	Red Shale
Reedsville	9672	10624	9738	10757	Grey Shale
Utica	10624	10869	10757	11238	Black Shale
Point Pleasant	10869	-	11238	-	Shale/Limestone

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	12/4/2020
Job End Date:	12/10/2020
State:	West Virginia
County:	Marshall
API Number:	47-051-02206-00-00
Operator Name:	Tug Hill Operating, LLC
Well Name and Number:	Michter N 6HU
Latitude:	39.80298702
Longitude:	-80.79765714
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	10,879
Total Base Water Volume (gal):	9,586,038
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	85.78265	None
Sand (40/70 White Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	10.68691	None
Sand (100 Mesh Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	3.04080	None
Hydrochloric Acid (7.5%)	PVS	Acidizing	Water	7732-18-5	85.00000	0.30887	None
			Hydrochloric Acid (Hydrogen Chloride)	7647-01-0	37.00000	0.13445	None
StimStream FR 9800	Chemstream	Friction Reducer	Butene, homopolymer	9003-29-6	25.00000	0.01977	None
			Alkanes, C16-20-iso-	90622-59-6	25.00000	0.01977	None
			Ethoxylated alcohols (C12-18)	68213-23-0	3.00000	0.00237	None
MC MX 9-4743	Multi-Chem	Biocide	Sodium Nitrate	7631-99-4	60.00000	0.02187	None
LD-7750W	Multi-Chem	Scale Inhibitor					

			Methanol	67-56-1	60.00000	0.00499	None
			Phosphonic Acid Salt	Proprietary	5.00000	0.00042	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	0.30887	
			Butene, homopolymer	9003-29-6	25.00000	0.01977	
			Ethoxylated alcohols (C12-18)	68213-23-0	3.00000	0.00237	
			Phosphonic Acid Salt	Proprietary	5.00000	0.00042	

* 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)

PG 2 OF 5 MICTER LEASE
WELL N-6HU
224.1945± ACRES

SURFACE HOLE
UTM. NAD83, ZONE 17
IN METERS

N) 4,405,910.66
E) 517,321.47

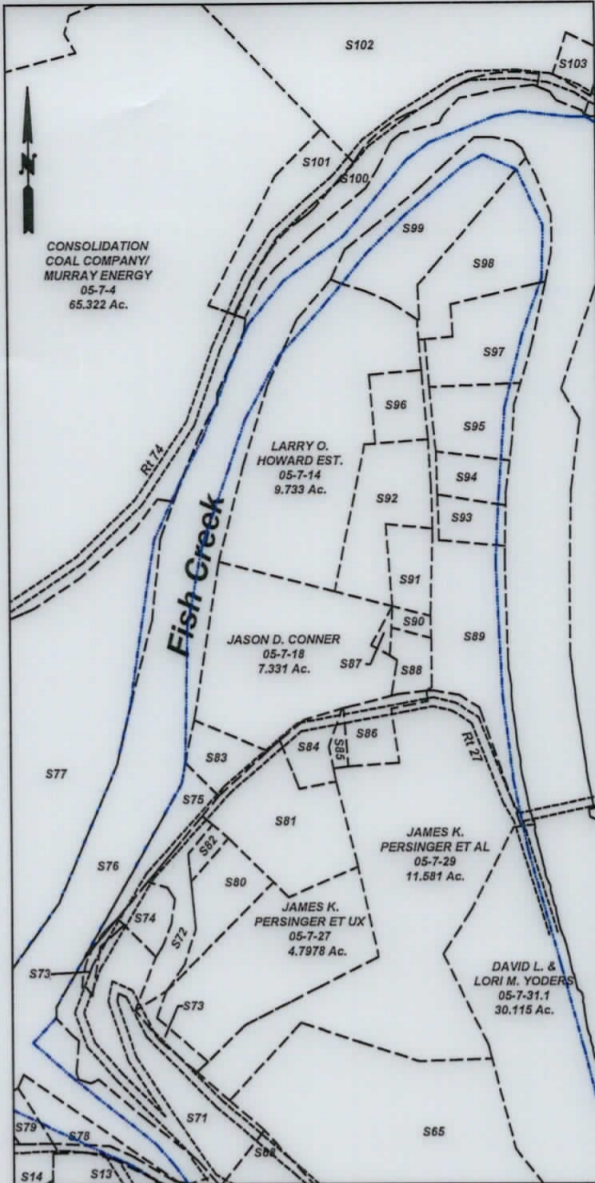
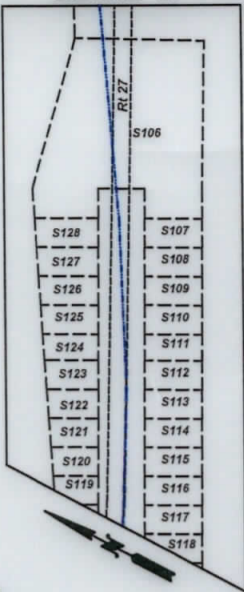
LANDING POINT 1
UTM. NAD83, ZONE 17
IN METERS

N) 4,406,212.34
E) 516,991.46

BOTTOM HOLE
UTM. NAD83, ZONE 17
IN METERS

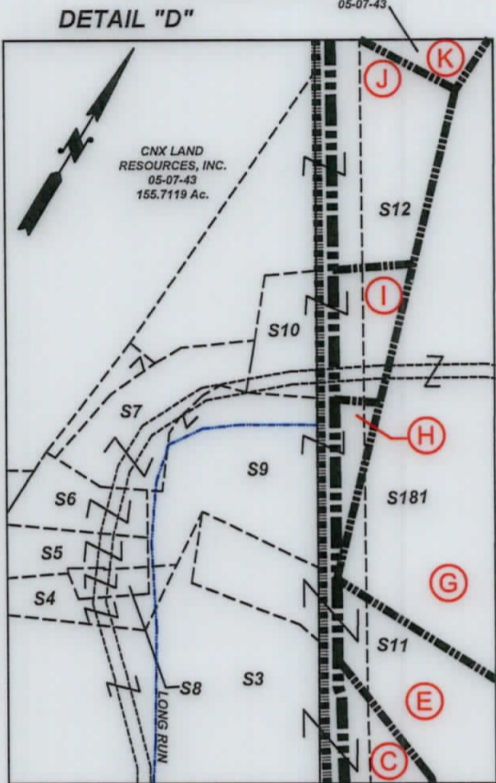
N) 4,407,577.76
E) 516,114.73

DETAIL "A"

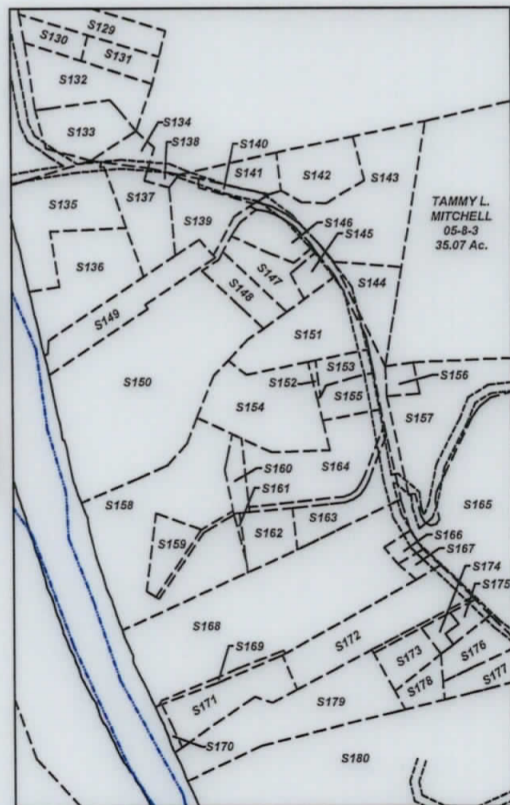
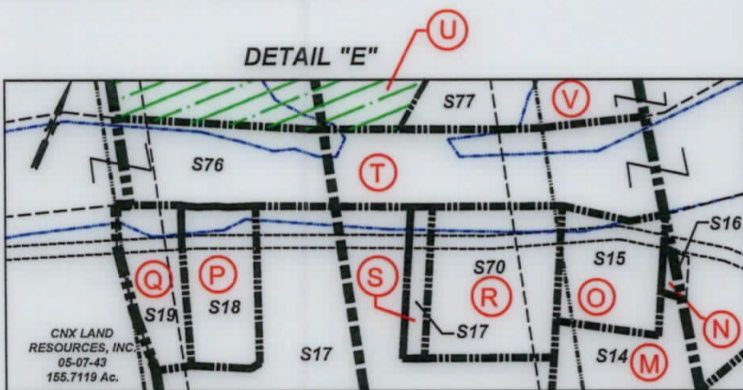


DETAIL "B"

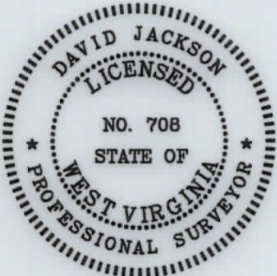
DETAIL "D"



DETAIL "E"



DETAIL "C"



P.S. 708

David L Jackson

08/27/2021



TUG HILL
OPERATING

OPERATOR'S
WELL #: Michter N-6HU
DISTRICT: Franklin
COUNTY: Marshall
STATE: WV
API#: 47-051-02206

WELL PLAT
PAGE 2 OF 5
DATE: 04/22/2021

PG 3 OF 5 **MICHTER LEASE**
WELL N-6HU
224.1945± ACRES

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 C	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 H	05-07-42.5	Matthew V. Conner, et al	3.791
S10 I	05-07-41	James A. Wade	1.00
S11 E	05-12-09	Lionel & Mary Lee Persinger	10.15
S12 J	05-07-42.1	Lionel L. & Mary Lee Persinger	5.99
S13 L	05-07-35	Samuel L. Persinger	10.708
S14 M	05-07-36	John Persinger	4.329
S15 O	05-07-38	John K. Persinger, et ux	2.65
S16 N	05-07-37	John K. Persinger, et ux	0.133
S17 S	05-07-43.3	M. Frank Mason	0.327
S18 P	05-7B-48	Cassidy Rain Carpenter	1.325
S19 Q	05-7B-49	Cassidy Rain Carpenter	1.1441
S20 U	05-07-3.3	WV Economic Development Authority	65.2077
S21 W	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 D	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	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	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 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 & Charles Leroy Dunlap	34.405
S63 F	05-07-33	William N. Roupe	24.60
S64	05-07-32	William N. & Virginia A. Roupe	4.2

Number	TAX MAP -PARCEL	SURFACE 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	WV DOH	10.88
S69	05-07-31.3	William N. & Virginia A. Roupe	0.230
S70 R	05-07-43.2	M. Frank Mason	1.36
S71	05-07-26	James A. Wade	7.80
S72	05-07-23.1	WV DOH	2.37
S73	05-07-25	WV 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 T	Fish Creek	State of WV	5.33(CALC.)
S77 V	05-07-3.2	Ohio Power Company	45.5348
S78	05-07-35.1	Lionel L. & Mary Lee Persinger	0.812
S79	05-07-36.1	Lionel L. & Mary Lee Persinger	0.5579
S80	05-07-23	Arlie E. 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. 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 X	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-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 Z	05-07-03	Consolidation Coal Company/ Murray Energy	12.2641



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TUG HILL
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OPERATOR'S
 WELL #: Michter N-6HU
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 COUNTY: Marshall
 STATE: WV
 API#: 47-051-02206

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PG 4 OF 5 **MICHTER LEASE**
WELL N-6HU
224.1945± ACRES

Number	TAX MAP -PARCEL	SURFACE OWNER	ACRES
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	Raymand A. Jr. & Larriette Scott	0.159
S170	05-8A-45	Raymand 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-52	Barbara L. Rose & Mary L. Rose	0.59
S180	05-8A-4.1	Frances E. Nieman	33.461
S181 G	05-07-39	Lionel L. Persinger, et ux	57.00
S182	05-08-02	Consolidation Coal Company/ Murray Energy	136.587

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PG 5 OF 5 MICTHER LEASE
WELL N-6HU
224.1945± ACRES

Lease ID	Tag	Parcel	Grantor, Lessor, Etc.	Deed Book/Page	
10*47051.089.0	A	5-11-1.1	LARRY W DUNLAP AND BARBARA E DUNLAP	864	148
10*22667	B	5-11-21	REBEKAH DRAYER ELDRIDGE AND CHRISTOPHER ELDRIDGE	850	157
10*22773	B	5-11-21	CHRISTA DRAYER STALEY AND JOSHUA STALEY	851	3
10*22777	B	5-11-21	BOYD BUESKING	850	159
10*22780	B	5-11-21	BRENDA FAYE THOMAS PETRACK	850	161
10*22786	B	5-11-21	GUY YATES	848	206
10*22787	B	5-11-21	GAIL ANN YATES WOOD AND WESLEY J WOOD	848	208
10*22788	B	5-11-21	GENIE SUE THOMAS HOLMES AND JOHN L HOLMES	848	204
10*22801	B	5-11-21	BOYD DAIL YATES JR AND MARLA YATES	848	210
10*22808	B	5-11-21	SHIRLEY YATES HARTSELL AND FREDDIE LEE HARTSELL	848	212
10*22810	B	5-11-21	CLYDE V. & KAREN S REED	864	190
10*19751	C	5-12-10.1	THOMAS L ROBINSON	944	426
10*19752	C	5-12-10.1	PATRICIA ANKROM	944	447
10*19841	C	5-12-10.1	CAROLYN JEAN FERGUSON	945	641
10*19842	C	5-12-10.1	JAMES E ROBINSON AND CAMILLA L ROBINSON	945	643
10*19843	C	5-12-10.1	JOHN S ROBINSON AND SHERRIE J ROBINSON	945	646
10*19975	C	5-12-10.1	CHARLES F STEWART	948	270
10*47051.089.0	D	5-11-1.4	LARRY W DUNLAP AND BARBARA E DUNLAP	864	148
10*19154	E	5-12-9	ROBERT H FISH PATSY C FISH	706	631
10*22751	F	5-7-33	WILLIAM N ROUPE AND VIRGINIA A ROUPE	977	367
Q074678004	F	5-7-33	PEGGIANN E. MOSHER F/K/A PEGGY ANN GRANT AND ROWAN MOSHER	842	508
Q074648013	F	5-7-33	NICHOLAS A. OLIVER AND STEPHANIE OLIVER	850	153
Q074648002	F	5-7-33	LOIS J. LAND AND CECIL H. LAND	842	500
Q074648011	F	5-7-33	LAWRENCE K. OLIVER, II AND PHYLLIS K. OLIVER	849	645
Q074648009	F	5-7-33	KENNETH E. OLIVER AND RHONDA OLIVER	846	323
Q074648005	F	5-7-33	JOHN E. OLIVER AND GAIL S. OLIVER	842	498
Q074648008	F	5-7-33	JOAN KIDD AND ROBERT KIDD	846	329
Q074648007	F	5-7-33	JANET MILLER AND JAMES A. MILLER, JR.	846	325
Q074648003	F	5-7-33	JAMES N. OLIVER	842	502
Q074648015	F	5-7-33	DEVIN J. OLIVER	851	426
Q074648006	F	5-7-33	CRISTI LANAGHAN AND MARTIN LANAGHAN	846	327
Q074648010	F	5-7-33	CHAD L. OLIVER	849	649
Q074348012				850	155
Q074648014	F	5-7-33	WILLIAM N. KIDD, SINGLE; JARED K. KIDD, SINGLE	851	424
10*16914	G	5-7-39	LIONEL L AND MARY LEE PERSINGER	976	620
10*21132	H	5-7-42.5	GREGORY E RICE AND LORI MARIE RICE	951	212
10*18454	I	5-7-41	IVALEE D LLOYD AND GARY R LLOYD	933	186
10*18403	I	5-7-41	ANGELA B CRAWFORD AND DANA ALAN CRAWFORD	932	536
10*18455	I	5-7-41	DEBRA HARTLEY AND RICHARD HARTLEY	933	183
10*18724	I	5-7-41	TRACY M KESTERSON	938	521
10*21133	I	5-7-41	MATTHEW V AND CINDY L CONNER	951	602
10*24586	J	5-7-42.1	STONE HILL MINERALS HOLDINGS LLC	1025	629
041112	K	5-7-43	COLUMBIAN CHEMICALS COMPANY	691	363
10*26036	L	5-7-35	PERSINGER SAMUEL L ET UX	707	626
10*26009	M	5-7-36	PERSINGER JOHN K ET AL	711	304
10*26007	N	5-7-37	PERSINGER JOHN K ET AL	711	300
10*26007	O	5-7-38	PERSINGER JOHN K ET AL	711	300
Q091288001	P	5-7B-48	PATRICIA Y DARRAH	860	549
Q091288002	P	5-7B-48	DAVID A TAKACH AND DEBORAH TAKACH	860	507
Q091288003	P	5-7B-48	RICHARD MORGAN	860	565
Q091288004	P	5-7B-48	STANLEY DARRAH AND JOANN DARRAH	860	571
Q091288005	P	5-7B-48	DONNA L SIDIROPOLIS AND GEORGE SIDIROPOLIS	860	510
Q091288006	P	5-7B-48	RICHARD DARRAH	860	562
Q091288001	Q	5-7B-49	PATRICIA Y DARRAH	860	549
Q091288002	Q	5-7B-49	DAVID A TAKACH AND DEBORAH TAKACH	860	507
Q091288003	Q	5-7B-49	RICHARD MORGAN	860	565
Q091288004	Q	5-7B-49	STANLEY DARRAH AND JOANN DARRAH	860	571
Q091288005	Q	5-7B-49	DONNA L SIDIROPOLIS AND GEORGE SIDIROPOLIS	860	510
Q091288006	Q	5-7B-49	RICHARD DARRAH	860	562
Q075237000	R	5-7-43.2	MALISSA A MASON	787	59
Q075237000	S	5-7-43.3	MALISSA A MASON	787	59
Q091960000	T	FISH CREEK - ST OF WV	WEST VIRGINIA DIVISION OF NATURAL RESOURCES	865	558
N/A	U	5-7-3.3	WEST VIRGINIA ECONOMIC DEVELOPMENT AUTHORITY	656	423
N/A	U	5-7-3.3	CERTAINTED GYPSUM WEST VIRGINIA, INC.	660	140
Q083442000	V	5-7-3.2	AEP GENERATION RESOURCES INC ET AL	829	157
624061	W	5-7-3.4	LOUCKS, CHARLES H; KEISTER, FENTON O, JR, ET AL	273	326
624074	X	5-7-2	GATTS, ALICE	282	394
Q074011007	Y	5-6-3.1	SUSAN WITTEN NEAL MYERS ET AL	815	375
Q074011008	Y	5-6-3.1	JANE WITTEN VOTH	853	306
Q074011003	Y	5-6-3.1	JOSEPH MOORE NEAL	859	512
Q074011006	Y	5-6-3.1	FRANCES GALE NEAL	851	218
Q074011005	Y	5-6-3.1	ANN ALEXANDER	853	310
Q074011013	Y	5-6-3.1	MARY WITTEN NEAL WISEMAN	851	216
624074	Y	5-6-3.1	GATTS, ALICE	282	394
624080	Y	5-6-3.1	GATTS, ELIZABETH RJ & HARLEY	290	97
624083	Y	5-6-3.1	GATTS, LLOYD Q & MARY WOLFE	290	94
624150	Y	5-6-3.1	RINE, G W & BESSIE J	313	200
Q074011002	Y	5-6-3.1	DOROTHY ANN NEAL	851	396
Q074011004	Y	5-6-3.1	MARGERY J. WITTEN	851	398



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