

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Tuesday, September 24, 2019 WELL WORK PERMIT Horizontal 6A / New Drill

TUG HILL OPERATING, LLC 380 SOUTHPOINTE BLVD

CANONSBURG, PA 15317

Re: Permit approval for MICHTER N-8HU

47-051-02219-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin

Chief

Operator's Well Number: MICHTER N-8HU

Farm Name: LARRY W. DUNLAP, ET AL

U.S. WELL NUMBER: 47-051-02219-00-00

Horizontal 6A New Drill Date Issued: 9/24/2019

Promoting a healthy environment.

API Number: 51-02219

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

API Number: 51-02219

PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.



west virginia department of environmental protection

Oil and Gas Conservation Commission 601 57th Street SE, Charleston, WV 25304 304-926-0499 Ext 1274

Barry K. Lay, Chairman dep.wv.gov

September 12, 2019

Department of Environmental Protection Office of Oil and Gas Charleston, WV 25304

RE: Application for Deep Well Permit – API #47-051-02219

COMPANY: Tug Hill Operating, LLC

FARM: Larry W. Dunlap, et ux

Michter N-8HU

COUNTY: Marshall

DISTRICT: Franklin

QUAD: Powhatan Point

The deep well review of the application for the above company is **Approved to drill to the Trenton for Point Pleasant completion. Pooling Docket No. 284-280**

The applicant has complied with the provision of Chapter 22C-9, of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

- 1. Comments to Notice of Deviation filed? Yes; withdrawn prior to hearing being set
- 2. Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owners? yes
- 3. Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of all deep wells: **yes, Docket 284-280
- 4. Provided a plat showing that the proposed location is a distance of 400+ feet from the nearest lease line or unit boundary and showing the following wells drilled to or capable of producing from the objective formation within 3,000 feet of the proposed location.

^{**} Michter N-6HU 47-051-02206; Michter N-7HU 47-051-02207, Michter N-9HU 47-051-02220, MND 6 HHS 47-051-01732; MND20AU 47-051-02011; MND20BU 47-051-02012, MND20CU 47-051-02013, Old Crow N-19HU 47-051-02190; Old Crow N-20HU 47-051-02191, Old Crow N-18HU 47-051-02123; Old Crow N-17HU 47-051-02122; Bryan N-14HU 47-051-02031; Bryan N-13HU 47-051-02030; Bryan N-12HU 47-051-02029; Woodford -10HU 47-051-02152; Woodford-9HU 47-051-02150; Woodford-8HU 47-051-02149; Woodford-7HU 47-051-02147; Woodford-6HU 47-051-02143

Sincerely,
Susan Rose Administrator

API NO. 47-0-5 102219

OPERATOR WELL NO. Michter N-8HU
Well Pad Name: Michter

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

1) Well Operator: Tug Hill C	Operating, LLC	494510851	Marshall	Franklin	Powhatan Point 7
		Operator ID	County	District	Quadrangle
2) Operator's Well Number:	Michter N-8HU	Well Pa	ad Name: Mich	iter	
3) Farm Name/Surface Owner	r: Larry W. Dunlap	et ux Public Ro	oad Access: Rir	es Ridge Ro	oad (County Route 76)
4) Elevation, current ground:	1136.00' E	levation, proposed	d post-construct	tion: 1127.	11'
5) Well Type (a) Gas \underline{X}	Oil	Une	derground Stora	age	
Other					
(b)If Gas S	hallow	Deep	X		
H	Iorizontal X			Dn.	19
6) Existing Pad: Yes or No No	lo			9	2/22/19
7) Proposed Target Formation	n(s), Depth(s), Antic	ipated Thickness	and Expected I	Pressure(s):	
Point Pleasant is the target form	ation at a depth of 10,9	18' - 11,039', thicknes	ss of 121' and antio	cipated pressur	re of approx. 9,500 psi
8) Proposed Total Vertical De	epth: 11,189'				
9) Formation at Total Vertical	Depth: Trenton				
10) Proposed Total Measured	Depth: 23,181'				
11) Proposed Horizontal Leg	Length: 11,308.03	3'			
12) Approximate Fresh Water	Strata Depths:	718'			
13) Method to Determine Fres	sh Water Depths:	Offset well reports or r	noticeable flow at th	ne flowline or w	hen need to start soaping
14) Approximate Saltwater D	epths: 1740'				
15) Approximate Coal Seam I	Depths: Sewickly (Coal - 614' and F	Pittsburgh Coa	I - 712'	
16) Approximate Depth to Po	ssible Void (coal m	ine, karst, other):	None anticipa		
17) Does Proposed well locati directly overlying or adjacent		ms Yes	No.	o X	Office of Oil and Gas
(a) If Yes, provide Mine Info	o: Name:			Envi	W Department of rotection
	Depth:				nental Protection
	Seam:				
	Owner:				

WW-6B (04/15)

4705 102219

OPERATOR WELL NO. Michter N-8HU Well Pad Name: Michter

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	<u>Grade</u>	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30"	NEW	BW	BW	120'	120'	259FT^3(CTS)
Fresh Water	20"	NEW	J55	94#	810'	810'	1,327ft^3(CTS)
Coal	13 3/8"	NEW	J55	54.5#	2,600'	2,600'	1,835ft^3(CTS)
Intermediate	9 5/8"	NEW	HPP110	47#	10,238'	10,238'	3,335ft^3(CTS)
Production	5 1/2"	NEW	P110	23#	23,181'	23,181'	5,484ft^3(CTS)
Tubing	2 7/8"	NEW	P110	6.5#		11,118'	
Liners							

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	36"	1.0	2,333	1,866	CLASS A	1.2
Fresh Water	20"	26"	.5	2,410	1,928	SEE #24	1.2
Coal	13 3/8"	17 1/2"	.38	2,740	2,192	SEE#24	1.2
Intermediate	9 5/8"	12 1/4"	.472	10,730	6,968	SEE#24	1.99
Production	5 1/2"	8 1/2"	.415	13,580	10,864	SEE#24	1.17/1.19
Tubing	2 7/8"			14,530	11,624		
Liners							

		PACKERS	Office of Oil and Gas
Kind:	N/A		17 2010
Sizes:	N/A		Environmental Protection
Depths Set:	N/A		3.017

47 05 1022 19

API NO. 47- 051 OPERATOR WELL NO. Michter N-8HU

Well Pad Name: Michter

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill through the Point Pleasant and TD Pilot Hole 150' into the Trenton. Log vertical section and run a solid cement plug back to proposed KOP. Drill curve and lateral per proposed well plan, run and cement production casing. Perform CBL from 60 deg to surface, make cleanout run, and stimulate.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Well to be completed with approximately 28,264,775 lb proppant and 436,994 bbl of water. Max rate = 80 bpm; max psi = 9,000#.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 21.11 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 6.49 acres
- 23) Describe centralizer placement for each casing string:

Will run 3 centralizers on surface casing at equal distance. Intermediate strings will have 1 centralizer every other joint. Production casing will have one centralizer every other joint in lateral, one centralizer every joint through curve, one centralizer every other joint to surface.

24) Describe all cement additives associated with each cement type:

*See Attached

25) Proposed borehole conditioning procedures:

25) Proposed borehole conditioning procedures:

Will circulate a minimum of 3 hours at TD, short trip to curve, circulate bottoms up, check for flow; Protection of the curve is a superior of the curve in the curve is a superior of the curve in the curve in the curve is a superior of the curve in the curve is a superior of the curve in the curve is a superior of the curve in the curve is a superior of the curve in the curve is a superior of the curve in the curve in the curve is a superior of the curve in the curve is a superior of the curve in t POOH

*Note: Attach additional sheets as needed.

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		Top of Cemer	Surface	Surface	Surface	Surface			Sei		al distance	other jt	other jt	r joint in curve;	ایر				23,181'	10//01
		Grade	BW	155	J55 HPP110	HCP110		DETAILS	Centralizer Notes	None	3 Centralizers at equal distance	1 Centralizer every other jt	1 Centralizer every other jt	t in lateral; 1 pe	1 every other it to sfc	0	of the second second second	the second section of the second	Lateral TD @	
		Weight (lb/ft)	BW	106.5	54.5	23		DRILLING DETAILS			3 Cer	10	10	1 every other joint in lateral; 1 per joint in curve;	1 ev	61/m/1		and the second second		
	ARY	QA	120'	810'	2,600 9,819'	10,770'			Fluid Type	Air	Air	Air	Air	Air / SOBM 1		5,				
	CASING SUMMARY	Depth (MD)	120.	3 600'	10,238'	23,181'			Density	15.6	15.6	15	14.5	15			· · · · · · · · · · · · · · · · · · ·			
		Csg Size (in)	OS 6	12.276	95/8	5 1/2		ARY	Class	4	Ą	A	A	A						
		Hole Size (in)	36	17.173	12 1/4	8 1/2		CEMENT SUMMARY	Sacks	338	1,430	1,989	2,747	4,862						
		Туре	Conductor	Surrace Intermediate 1	Intermediate 2	Production				Conductor	Surface	Intermediate 1	Intermediate 2	Production				to an the former of the state of the second state of the		
Marshall 1,130'	L																g. 4	1. Acc 8) write a con-		
GL Elev:	100	Depth TVD	614	712	2,048'	2,562'	6,220′	6,281'	6,335'	7,027'	8,039	10,667'	10,918'	10,968'	650,41			Control of the Prince of		
Michter N-8HU WV Franklin 1,130' 23,181' 39,80297218 -80,79757391 39,83107996 80,81160077	FORMATION TOPS	Formation	Sewickley Coal	Sewickiey Coal	Big Lime	Berea	Tuily	Marcellus	Onondaga	Salina	Lockport	Utica	Point Pleasant	Landing Depth Trenton				18		
WELL NAME: STATE: DISTRICT: DF Elev: TTD: TH Lattude: BH Lattude: BH Lattude:	L	For	Conti	Dittel	ja	60	-	Ma	O	š	Γο	ם	Point	Landi			5 or		ΔΛΙ	Office of Oil an
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30" Csg @	1 15 15 15 15 15 15 15 15 15 15 15 15 15	20" Csg @ 810' MD /		1 E 3	1	7.	- Abrilla		13 3/8" Csg @ 2.600' MD /		41.5					9 5/8" Cg @ 10,238 'MD			Landing	MAY 17 20 word of the street o
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Tug Hill Operating, LLC Casing and Cement Program

Michter N-8HU

		C	Casing		
	String	Grade	Bit Size	Depth (Measured)	Cement Fill Up
Conductor	30"	BW	36"	120'	CTS
Surface	20"	J55	26"	810'	CTS
Intermediate 1	13 3/8"	J55	17 1/2"	2,600'	CTS
Intermediate 2	9 5/8"	HPP110	12 1/4"	10,238'	CTS
Production	5 1/2"	HCP110	8 1/2"	23,181'	CTS

Cement

Surface: Premium NE-1 + 2% bwoc CaC12 + 46.5% Fresh Water – Surface Cement mixed at 15.6 ppg, Y=1.2

Intermediate 1: Premium NE-1 + 1% bwoc CaC12 + 46.5% Fresh Water – Intermediate Cement mixed at 15.6 ppg, Y=1.2

Intermediate 2: Premium NE-1 + 1% bwoc CaC12 + 46.5% Fresh Water – Intermediate Cement mixed at 15.6 ppg, Y=1.99

Production:

50:50 Poz: Premium NE-1 + .1% bwoc ASA-301 + 60lb/sk ASCA-1 + .35% bwoc BA-10A + .25% bwoc MPA-170, 44 lb sack + .5% bwoc R-3 + .75 gals/100sk FP-13L - Production Cement mixed at 15.2ppg, Y = 1.18

Office of Oil and Gas
MAY 17 2019

WW Department of Environmental Protection



Well Site Safety Plan

Tug Hill Operating, LLC

Well Name: Michter N-8HU

Pad Location: Michter

Marshall County, West Virginia

UTM (meters), NAD83, Zone 17:

NORTHING - 4,405,909.03

EASTING - 517,328.60

February 2019

Operator's Well No. Michter N-8HU

Area of Review

Sources of information to Support 35CSR8 - 5.11: 9.3 et seq.

Description of process to identify potential pathways for well communication during hydraulic fracturing activities.

Data Sources Reviewed:

- 1. IHS Well Data service: Public nationwide data service that pulls directly from State agency Oil and Gas databases
- 2. Farm Maps
- 3. Topo Maps: Recent and older (contact WVGES)
- 4. Check with DPS

Contacted Devin Ducoeur 724-705-0444, <u>dducoeur@dpslandservices.com</u> DPS GIS (07/02/2018) to have him make maps of the wellbores with his information. DPS utilizes WVGES maps for their mapping seems it as the best publicly available. See attached map he provided.

Request maps for:

- 1. Wellbore with IHS All Wells Layer
- 2. Map with Farm lines overlain and any well spots identified on Farm Maps
- 3. More recent (1970s vintage) topos and older topos

Discussion with Phil Dinterman WVGES GIS Department (7/15/2016)

- WVGES has plotted every well spot they have access to and are aware of with that contains a
 coordinate. 30000, 70000, and 90000 series wells are available via the WVGES online map. Some
 locations aren't great due to vintage and manipulation of maps through time
- 30000 series any well drilled prior to 1929 APIs were not assigned to original wells
- 70000 series Well spots pulled from old Farm line maps that the WVGES has access to
- 90000 series Any sources that the WVGES has access that shows a well spot but has no additional supporting information. DEP does not have 90000 series on their maps.
- There can be duplication between wells in the 3 series
- Phil indicated that other Operators are providing a screenshot of the WVGES map with their planned well and using that for permits

Office of Oil and Gas

MAY 17 2019

WV Department Page 1 of 4
Environmental Protection

Permit well - Michter N-8HU

Wells within 500' Buffer

Note: Well spots depicted on Area of Review map (page 3) are derived from State held coordinates. The spots may differ from those depicted on the Well Plat because the Plat locations represent actual field surveyed locations. Please refer to the Plat for surveyed well spots

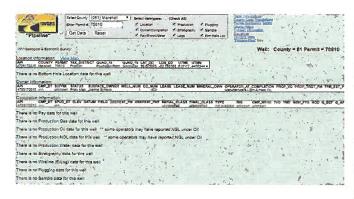
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API Number	Operator Name	Total Depth	Perforated Fms	Producing zones not perforated	Is this well "known or reasonably expected to penetrate a depth that could be within the range of Fracture propagation"? 1000' is max limit I would assign to wells that might be within in range of fracture propagation	Comments
	Manufacturers Light and Heat	Unknown	Unknown	Unknown	Uknown but unlikley. The well likley represents an old shallow well that is too shallow to be effected by fracturing in the planned Point Pleasant well.	State records are incomplete
	Manufacturers Light and Heat	1835'	Salt Sands (U		No, the well is not deep enough to be within the expected fracture propagation from a Point Pleasant stimulation.	Plugged: 11/25/1940
4705100532	Allied Chemical	1943'	Salina	Unknown	No, the well is not deep enough to be within the expected fracture propagation from a Point Pleasant stimulation.	Plugged : 12/20/1997
	HG Energy II, Appalachia, LLC	5,837' TVD, 13,752' TMD	Marcellus	None	No, the well is not deep enough to be within the expected fracture propagation from a Point Pleasant stimulation.	Producing Marcellus well
	HG Energy II, Appalachia, LLC	5,940' TVD, 14,650' TMD	Marcellus	None	No, the well is not deep enough to be within the expected fracture propagation from a Point Pleasant stimulation.	Producing Marcellus well

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RECEIVED
Office of Oil and Gas

MAY 17 2019

WV Department of Environmental Protection





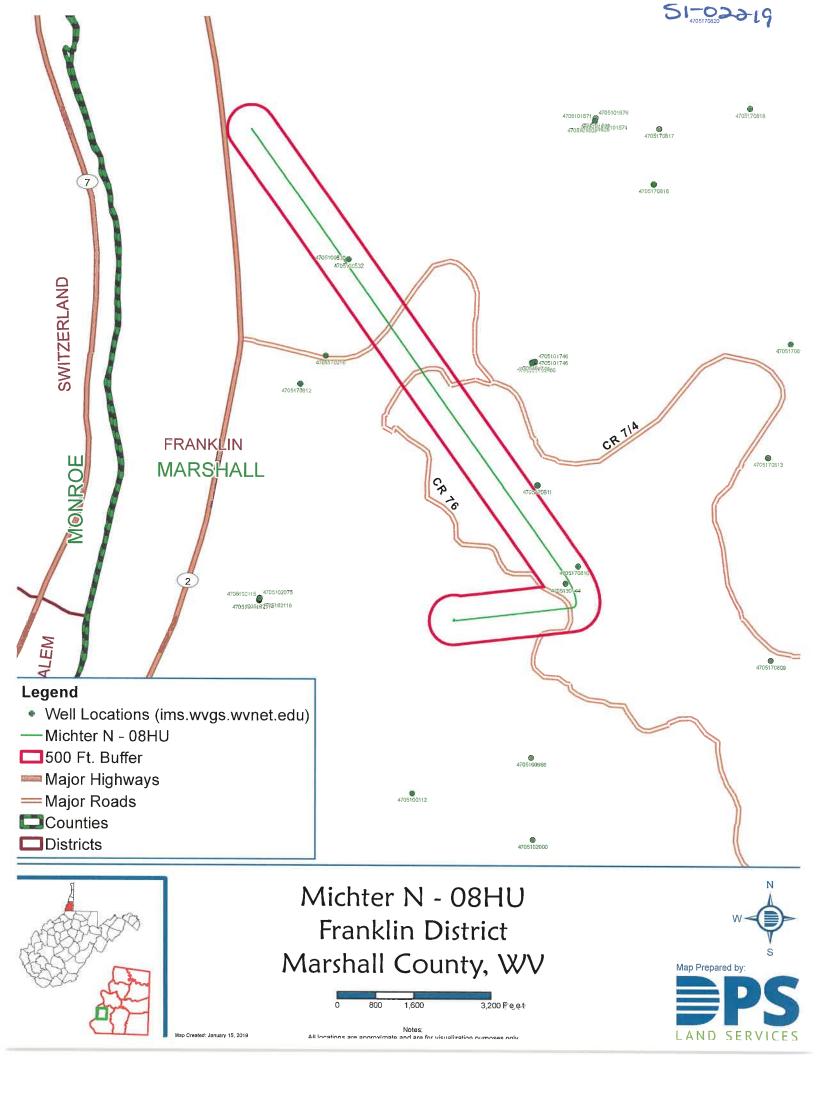
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TOTAL	Pay Qui S Que Qui S Que Pay Qui S Que Qui S Que Pay Qui S Que Que Qui S Que Que Que Qui S Que Que Que Qui S Que Que Qui S Que Que Que Qui S Que Qui S Que Qui S Que Que Que Qui S Que Que Que Que Qui S Que Que Que Qui S Que Que Que Que Qui S Que	Devented Clevinities Devinit	The minded from 51-17-22 UTI BETT STATES AND STATES AN	Name of the Control o			
TOTAL	Pay 018 018 018 018 018 018 018 018 018 018	Cented	10390 Marcelus Fm 10890 Marcelus Fm				
TORINTY SE	Pay 01 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0	Cented	10390 Marcelus Fm 10890 Marcelus Fm				
120917734 - Wil- 120917735 - Wil- 120917	Priy	Certated Certated Deviated Deviated Certated	10390 Marcelus Fm 10890 Marcelus Fm	10507 Marcelus Fre 10740 Marcelus Fre 10509 Marcelus Fre 10094 Marcelus Fre 11101 Marcelus Fre			
100001700	Priy O15 On Priy O	Certated Certated Deviated Deviated Certated	10390 Marcelus Fm 10890 Marcelus Fm	10507 Marcelus Fre 10740 Marcelus Fre 10509 Marcelus Fre 10094 Marcelus Fre 11101 Marcelus Fre			
100001700	Pay - 0.1 Gas -	Centaled Severed Cevaried Deviated Deviated Cevaried Cevaried Deviated	10390 Marcelus Fm 10890 Marcelus Fm	10507 Marcelus Fre 10740 Marcelus Fre 10509 Marcelus Fre 10094 Marcelus Fre 11101 Marcelus Fre			
170591783 ### 170591783 ### 170591783 ### 170590783 ### 170590783 ### 170590783 ### 170590783 ### 170590783 ### 170590783 ### 170590783 ### 170590783 ### 170590783 ###	### (0.1 day 1.2 day 1	Gerated Deviated Deviated Deviated Deviated Ceristed Deviated	FORMS Minnelskie Fri 100800 Minnelskie Fri 100800 Minnelskie Fri 100800 Minnelskie Fri 11216 Minnelskie Fri 11216 Minnelskie Fri 11475 Minnelskie Fri 11977 Minnelskie Fri 12074 Minnelskie Fr	10507 Marcelus Fre 10740 Marcelus Fre 10509 Marcelus Fre 10094 Marcelus Fre 11101 Marcelus Fre			
170591783 ### 170591783 ### 170591783 ### 170590783 ### 170590783 ### 170590783 ### 170590783 ### 170590783 ### 170590783 ### 170590783 ### 170590783 ### 170590783 ###	### (0.1 days) ### (0	Gerated Deviated Deviated Deviated Deviated Ceristed Deviated	FORMS Minnelskie Fri 100800 Minnelskie Fri 100800 Minnelskie Fri 100800 Minnelskie Fri 11216 Minnelskie Fri 11216 Minnelskie Fri 11475 Minnelskie Fri 11977 Minnelskie Fri 12074 Minnelskie Fr	10507 Marcelus Fre 10740 Marcelus Fre 10509 Marcelus Fre 10094 Marcelus Fre 11101 Marcelus Fre			
178891788 44-17889188 44-178891788 44-178891788 44-178891788 44-178891788 44-178891	Pay 03 5 03 5 03 5 03 5 03 5 03 5 03 5 03	Gelichted Service (Deviated Deviated	1925 Manadas Pri 1986 Manadas Pri 1986 Manadas Pri 1986 Manadas Pri 1994 Manadas Pri 1994 Manadas Pri 1995 Manadas Pri 1997 Manadas Pri 1997 Manadas Pri 1997 Manadas Pri 1998 Manadas Pri	1008T Marchina Prin 1008T Marchina Prin 1008B Statembur Prin 1008B State			
170591783 ### 170591783 ### 170591783 ### 170590783 ### 170590783 ### 170590783 ### 170590783 ### 170590783 ### 170590783 ### 170590783 ### 170590783 ### 170590783 ###	Pay Ol 6 Gas Pay Ol 6 Gas	Gerated Deviated Deviated Deviated Deviated Ceristed Deviated	FORMS Minnelskie Fri 100800 Minnelskie Fri 100800 Minnelskie Fri 100800 Minnelskie Fri 11216 Minnelskie Fri 11216 Minnelskie Fri 11475 Minnelskie Fri 11977 Minnelskie Fri 12074 Minnelskie Fr	10507 Marcelus Fre 10740 Marcelus Fre 10509 Marcelus Fre 10094 Marcelus Fre 11101 Marcelus Fre			

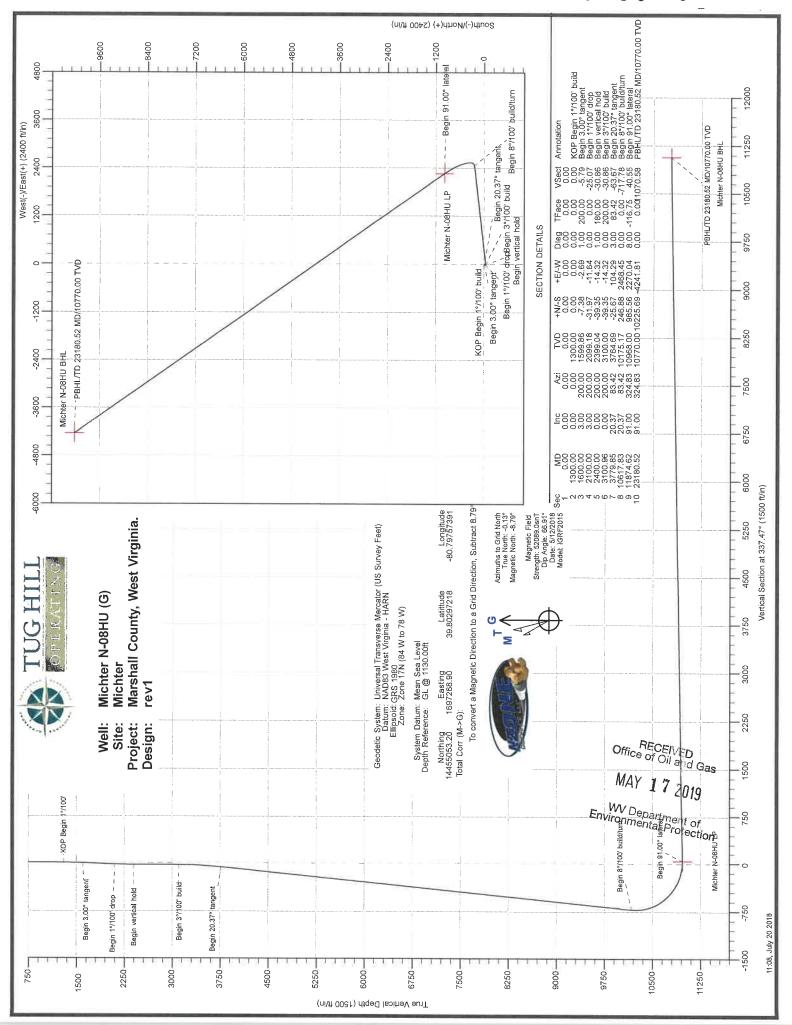


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Office of Oil and Gas

MAY 17 2019

WV Department ofage 3 of 4 Environmental Protection







Database: Company: DB_Jul2216dt_v14

Tug Hill Operating LLC Marshall County, West Virginia.

Project: Site:

Michter

Well:

Wellbore:

Design:

Michter N-08HU (G)

Original Hole

rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Michter N-08HU (G)

GL @ 1130.00ft GL @ 1130.00ft

Grid

Minimum Curvature

Project

Site

From:

Marshall County, West Virginia.

Map System: Geo Datum:

Universal Transverse Mercator (US Survey Feet)

NAD83 West Virginia - HARN

Map Zone:

Zone 17N (84 W to 78 W)

System Datum:

Mean Sea Level

Michter

Site Position:

Lat/Long

Michter N-08HU (G)

0.00 ft Slot Radius:

14,454,962.42 usft 1,697,325.45 usft

Latitude:

Longitude: **Grid Convergence:**

39.80272253 -80.79737330

0.13°

Well Position

Wellbore

+N/-S +E/-W 0.00 ft 0.00 ft 0.00 ft

Northing: Easting:

Wellhead Elevation:

Northing:

Easting:

14,455,053.20 usft 1,697,268.90 usft

13-3/16 "

Latitude: Longitude:

Ground Level:

39.80297218 -80,79757391

1,130.00 ft

Position Uncertainty

Position Uncertainty:

Original Hole

Magnetics **Model Name**

rev1

Sample Date IGRF2015

Declination (°) 5/12/2018

-8.66

Tie On Depth:

Remarks

Dip Angle 66.91 Field Strength (nT) 52,088.97774828

Design Audit Notes:

Version:

Phase: Depth From (TVD) **Vertical Section:**

(ft) 0.00 +N/-S (ft) 0.00

PLAN

+E/-W (ft) 0.00

Direction (°)

337.47

0.00

Plan Survey Tool Program

0.00

Date 7/20/2018

Depth From (ft)

Depth To (ft) Survey (Wellbore)

23,180.52 rev1 (Original Hole)

Tool Name MWD

MWD - Standard





Database: Company:

Project:

DB_Jul2216dt_v14
Tug Hill Operating LLC
Marshall County, West Virginia.

Site: Well: Michter

Wellbore:

Michter N-08HU (G) Original Hole

Design: rev1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well Michter N-08HU (G)

GL @ 1130.00ft GL @ 1130.00ft

Grid

Minimum Curvature

n Sections										
Measured Depth (ft)	Inclination (°)	Azimuth	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0,00	0.00	0.00	0.00	
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,600.00	3.00	200.00	1,599.86	-7.38	-2.69	1.00	1.00	0.00	200.00	
2,100.00	3.00	200.00	2,099.18	-31.97	-11.64	0.00	0.00	0.00	0.00	
2,400.00	0.00	200.00	2,399.04	-39.35	-14.32	1.00	-1.00	0.00	180.00	
3,100.96	0.00	200.00	3,100.00	-39.35	-14.32	0.00	0.00	0.00	200.00	
3,779.86	20.37	83.42	3,764.69	-25.67	104.29	3.00	3.00	-17.17	83.42	
10,617.83	20.37	83.42	10,175.17	246.88	2,468.45	0.00	0.00	0.00	0.00	
11,874.62	91.00	324.83	10,968.00	985.56	2,270.04	8.00	5.62	-9,44	-116.75	Michter N-08HU L
23,180.52	91.00	324.83	10,770.00	10,225,69	-4.241.81	0.00	0.00	0.00	0.00	Michter N-08HU B





Database: Company:

DB_Jul2216dt_v14
Tug Hill Operating LLC

Project:

Marshall County, West Virginia.

Site:

Well: Wellbore: Design:

Michter Michter N-08HU (G)

Original Hole rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: **Survey Calculation Method:** Well Michter N-08HU (G)

GL @ 1130.00ft GL @ 1130.00ft

Grid

Minimum Curvature

Office of Oil and Gas MAY 17 2019

Environmental Protection

	sign:	revi						A CONTRACTOR OF THE PARTY OF TH	ar difference of the second contract of the s	Environmepartme
Pla	nned Survey									Environmental Prot
	Measured Depth (ft)	Inclination	Azimuth	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)		Market 1
									Latitude	Longitude
	0.00 100.00	0.00	0.00	0.00	0.00	0.00	14,455,053.20	1,697,268.90	39.80297218	-80.79757391
	200.00	0.00	0.00 0.00	100.00 200.00	0.00 0.00	0.00	14,455,053.20	1,697,268.90	39.80297218	-80.79757391
	300.00	0.00	0.00	300.00	0.00	0.00	14,455,053.20	1,697,268.90	39.80297218	-80.79757391
	400.00	0.00	0.00	400.00	0.00	0.00 0.00	14,455,053.20	1,697,268.90	39.80297218	-80.79757391
	500.00	0.00	0.00	500.00	0.00	0.00	14,455,053.20 14,455,053.20	1,697,268.90 1,697,268.90	39.80297218	-80.79757391
	600.00	0.00	0.00	600.00	0.00	0.00	14,455,053.20	1,697,268.90	39.80297218 39.80297218	-80.79757391
	700.00	0.00	0.00	700.00	0.00	0.00	14,455,053.20	1,697,268.90	39.80297218	-80.79757391 -80.79757391
	800.00	0.00	0.00	800.00	0.00	0.00	14,455,053.20	1,697,268.90	39.80297218	-80.79757391
	900.00	0.00	0.00	900.00	0.00	0.00	14,455,053.20	1,697,268.90	39.80297218	-80.79757391
	1,000.00	0.00	0.00	1,000.00	0.00	0.00	14,455,053.20	1,697,268.90	39.80297218	-80.79757391
	1,100.00	0.00	0.00	1,100.00	0.00	0.00	14,455,053.20	1,697,268.90	39.80297218	-80.79757391
	1,200.00	0.00	0.00	1,200.00	0.00	0.00	14,455,053.20	1,697,268.90	39.80297218	-80.79757391
	1,300.00	0.00	0.00	1,300.00	0.00	0.00	14,455,053,20	1,697,268.90	39.80297218	-80.79757391
	KOP Beg	gin 1°/100' bui	ld							
	1,400.00	1.00	200.00	1,399.99	-0.82	-0.30	14,455,052.38	1,697,268.60	39.80296993	-80.79757498
	1,500.00	2.00	200.00	1,499.96	-3.28	-1.19	14,455,049.92	1,697,267.71	39,80296318	-80.79757819
	1,600.00	3.00	200.00	1,599.86	-7.38	-2.69	14,455,045.82	1,697,266.21	39.80295193	-80.79758353
	Begin 3.	00° tangent								
	1,700.00	3.00	200.00	1,699.73	-12.30	-4.48	14,455,040.90	1,697,264.42	39.80293844	-80.79758995
	1,800.00	3.00	200.00	1,799.59	-17.21	-6.27	14,455,035.99	1,697,262.63	39.80292495	-80.79759636
	1,900.00	3.00	200.00	1,899.45	-22.13	-8.06	14,455,031.07	1,697,260.84	39.80291145	-80.79760277
	2,000.00	3.00	200.00	1,999.31	-27.05	-9.85	14,455,026.15	1,697,259.05	39.80289796	-80.79760918
	2,100.00	3.00	200.00	2,099.18	-31.97	-11.64	14,455,021.23	1,697,257.26	39.80288446	-80.79761560
	_	/100' drop								
	2,200.00	2.00	200.00	2,199.08	-36.07	-13.13	14,455,017.13	1,697,255.77	39.80287321	-80.79762094
	2,300.00	1.00	200.00	2,299.05	-38.53	-14.02	14,455,014.67	1,697,254.88	39.80286646	-80.79762415
١.	2,400.00	0.00	200.00	2,399.04	-39.35	-14.32	14,455,013.85	1,697,254.58	39.80286421	-80.79762522
		rtical hold								
	2,500.00	0.00	0.00	2,499.04	-39.35	-14.32	14,455,013.85	1,697,254.58	39.80286421	-80.79762522
	2,600.00	0.00	0.00	2,599.04	-39.35	-14.32	14,455,013.85	1,697,254.58	39.80286421	-80.79762522
	2,700.00	0.00	0.00	2,699.04	-39,35	-14.32	14,455,013.85	1,697,254.58	39.80286421	-80.79762522
	2,800.00	0.00	200.00	2,799.04	-39,35	-14.32	14,455,013.85	1,697,254.58	39.80286421	-80.79762522
	2,900.00	0.00	0.00	2,899.04	-39.35	-14.32	14,455,013.85	1,697,254.58	39.80286421	-80.79762522
	3,000.00 3,100.00	0.00	200.00 0.00	2,999.04	-39.35	-14.32	14,455,013.85	1,697,254.58	39.80286421	-80.79762522
	3,100.00	0.00	0.00	3,099.04 3,100.00	-39.35 -39.35	-14.32 -14.32	14,455,013.85	1,697,254.58	39.80286421	-80.79762522
	·	/100' build	0.00	3,100.00	-59.55	-14,32	14,455,013.85	1,697,254.58	39.80286421	-80.79762522
	3,200.00	2.97	83.42	3 100 00	30.05	11 77	14 455 014 45	1 607 057 40	00 00000500	00 70704044
	3,300.00	5.97	83.42	3,199.00 3,298.68	-39.05	-11.77	14,455,014.15	1,697,257.13	39.80286500	-80.79761614
	3,400.00	8.97	83.42	3,397.82	-38.16 -36.67	-4.03 8.89	14,455,015.04	1,697,264.87	39.80286741	-80.79758856
	3,500.00	11.97	83.42	3,496.14	-34.59	26.94	14,455,016.53 14,455,018.61	1,697,277.79 1,697,295.84	39.80287142	-80.79754256
	3,600.00	14.97	83.42	3,593.38	-31.92	50.08	14,455,021.28	1,697,318.98	39.80287702 39.80288420	-80.79747826
	3,700.00	17.97	83.42	3,689.27	-28.68	78.24	14,455,024.52	1,697,347.14	39.80289294	-80.79739585 -80.79729555
	3,779.86	20.37	83,42	3,764.69	-25.67	104.29	14,455,027.53	1,697,373,19	39.80290103	-80.79720279
		.37° tangent		-,,, -		-	,,	1,001,010.10	00.00200100	-00,73720273
	3,800.00	20.37	83.42	3,783.57	-24.87	111.26	14,455,028.33	1,697,380.16	39.80290319	-80.79717798
	3,900.00	20.37	83.42	3,877.32	-20.88	145.83	14,455,032.32	1,697,414.73	39.80291392	-80.79705485
	4,000.00	20.37	83.42	3,971.07	-16.90	180.40	14,455,036.30	1,697,449.30	39.80292465	-80.79693171
	4,100.00	20.37	83.42	4,064.82	-12.91	214.98	14,455,040.29	1,697,483.88	39.80293538	-80.79680858
	4,200.00	20.37	83.42	4,158.57	-8.93	249.55	14,455,044.27	1,697,518.45	39.80294611	-80.79668544
	4,300.00	20.37	83.42	4,252.32	-4.94	284.13	14,455,048.26	1,697,553.03	39.80295684	-80.79656231
	4,400.00	20.37	83.42	4,346.06	-0.96	318.70	14,455,052.24	1,697,587.60	39.80296757	-80.79643918
	4,500.00	20.37	83,42	4,439.81	3.03	353.27	14,455,056.23	1,697,622.17	39.80297830	-80.79631604





Database: Company: Project:

Site:

DB_Jul2216dt_v14 Tug Hill Operating LLC Marshall County, West Virginia.

Michter

Well: Wellbore: Design: Michter N-08HU (G) Original Hole

Origina rev1 Local Co-ordinate Reference:

TVD Reference:
MD Reference:

North Reference: Survey Calculation Method: Well Michter N-08HU (G)

GL @ 1130.00ft GL @ 1130.00ft Grid

Minimum Curvature



									Onmental Proj
easured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,600.00	20,37	83.42	4,533.56	7.02	387.85	14,455,060.22	1,697,656,75	39.80298903	-80.796
4,700.00	20.37	83.42	4,627.31	11.00	422.42	14,455,064.20	1,697,691.32	39.80299976	-80.796
4,800.00	20.37	83.42	4,721.06	14.99	457.00	14,455,068.19	1,697,725.90	39.80301049	-80.795
4,900.00	20.37	83.42	4,814.81	18.97	491.57	14,455,072.17	1,697,760.47	39.80302122	-80.795
5,000.00	20.37	83.42	4,908.55	22.96	526.14	14,455,076.16	1,697,795.04	39.80303195	-80.795
5,100.00	20.37	83.42	5,002,30	26.95	560.72	14,455,080.15	1,697,829.62	39.80304268	-80.795
5,200.00	20.37	83.42	5,096.05	30.93	595.29	14,455,084.13	1,697,864.19	39.80305341	-80.795
5,300.00	20.37	83.42	5,189.80	34.92	629.87	14,455,088.12	1,697,898.76	39.80306414	-80.795
5,400.00	20.37	83.42	5,283.55	38.90	664.44	14,455,092.10	1,697,933.34	39.80307487	-80.795
5,500.00	20.37	83.42	5,377.30	42.89	699.01	14,455,096.09	1,697,967.91	39.80308560	-80.795
5,600.00	20.37	83.42	5,471.04	46.87	733.59	14,455,100.07	1,698,002.49	39.80309633	
5,700.00	20.37	83.42	5,564.79	50.86	768.16	14,455,104.06	1,698,037.06	39.80310706	-80.794
5,800.00	20.37	83.42	5,658.54	54.85	802.74	14,455,108.05	1,698,071.63		-80.794
5,900.00	20.37	83.42	5,752.29	58.83	837.31	14,455,112.03	1,698,106.21	39.80311778	-80.794 -80.794
6,000.00	20.37	83.42	5,846.04	62.82	871.88	14,455,116.02	1,698,140.78	39.80312851	
6,100.00	20.37	83.42	5,939.79	66.80	906.46	14,455,120.00	1,698,175.36	39.80313924	-80.794
6,200.00	20.37	83.42	6,033.53	70.79	941.03	14,455,123.99		39.80314997	-80.794
6,300.00	20.37	83,42	6,127.28	74.78	975.61	14,455,127.98	1,698,209,93 1,698,244,50	39.80316070	-80.794
6,400.00	20.37	83.42	6,221.03	78.76	1,010.18			39.80317142	-80.794
6,500.00	20.37	83.42	6,314.78	82.75	•	14,455,131.96	1,698,279.08	39.80318215	-80.793
6,600.00	20.37	83.42	6,408.53		1,044.75	14,455,135.95	1,698,313.65	39.80319288	-80.793
6,700.00	20.37	83,42		86.73	1,079.33	14,455,139.93	1,698,348.23	39.80320361	-80.793
6,800.00	20.37		6,502.28	90.72	1,113.90	14,455,143.92	1,698,382.80	39.80321433	-80.793
•		83.42	6,596.02	94.70	1,148.48	14,455,147.90	1,698,417.37	39.80322506	-80.793
6,900.00	20.37	83.42	6,689.77	98.69	1,183.05	14,455,151.89	1,698,451.95	39.80323579	-80.793
7,000.00	20.37	83.42	6,783.52	102.68	1,217.62	14,455,155.88	1,698,486.52	39.80324651	-80.793
7,100.00	20.37	83.42	6,877.27	106.66	1,252.20	14,455,159.86	1,698,521.10	39.80325724	-80.793
7,200.00	20.37	83.42	6,971.02	110.65	1,286.77	14,455,163.85	1,698,555.67	39.80326797	-80.792
7,300.00	20.37	83.42	7,064.77	114.63	1,321.35	14,455,167.83	1,698,590.24	39.80327869	-80.792
7,400.00	20.37	83.42	7,158.51	118.62	1,355.92	14,455,171.82	1,698,624.82	39.80328942	-80.792
7,500.00	20.37	83.42	7,252.26	122.61	1,390.49	14,455,175.80	1,698,659.39	39.80330015	-80.792
7,600.00	20.37	83.42	7,346.01	126.59	1,425.07	14,455,179.79	1,698,693.97	39.80331087	-80.792
7,700.00	20.37	83.42	7,439.76	130.58	1,459.64	14,455,183.78	1,698,728.54	39.80332160	-80.792
7,800.00	20.37	83.42	7,533.51	134.56	1,494.22	14,455,187.76	1,698,763.11	39.80333232	-80.792
7,900.00	20.37	83.42	7,627.26	138.55	1,528.79	14,455,191.75	1,698,797.69	39.80334305	-80.792
8,000.00	20.37	83.42	7,721.00	142.53	1,563.36	14,455,195.73	1,698,832.26	39.80335378	-80.792
8,100.00	20.37	83.42	7,814.75	146.52	1,597.94	14,455,199.72	1,698,866.84	39.80336450	-80.791
8,200.00	20.37	83.42	7,908.50	150.51	1,632.51	14,455,203.71	1,698,901.41	39.80337523	-80.791
8,300.00	20.37	83.42	8,002.25	154.49	1,667.09	14,455,207.69	1,698,935.98	39.80338595	-80.791
8,400.00	20.37	83.42	8,096.00	158.48	1,701.66	14,455,211.68	1,698,970.56	39.80339668	-80.791
8,500.00	20.37	83.42	8,189.75	162.46	1,736.23	14,455,215.66	1,699,005.13	39.80340740	-80.791
8,600.00	20,37	83,42	8,283.49	166.45	1,770.81	14,455,219.65	1,699,039.70	39.80341813	-80,791
8,700.00	20.37	83.42	8,377.24	170.44	1,805.38	14,455,223.63	1,699,074.28	39.80342885	-80.791
8,800.00	20.37	83.42	8,470.99	174.42	1,839.96	14,455,227.62	1,699,108.85	39.80343958	-80.791
8,900.00	20.37	83.42	8,564.74	178.41	1,874.53	14,455,231.61	1,699,143.43	39.80345030	-80.790
9,000.00	20.37	83.42	8,658.49	182.39	1,909.10	14,455,235.59	1,699,178.00	39.80346102	-80.790
9,100.00	20.37	83.42	8,752.24	186,38	1,943.68	14,455,239.58	1,699,212.57	39.80347175	-80.790
9,200.00	20.37	83.42	8,845.98	190.36	1,978.25	14,455,243.56	1,699,247.15	39.80348247	-80.790
9,300.00	20.37	83.42	8,939.73	194.35	2,012.83	14,455,247.55	1,699,281.72	39.80349320	-80.790
9,400.00	20.37	83.42	9,033.48	198.34	2,047.40	14,455,251.54	1,699,316.30	39.80350392	-80.790
9,500.00	20.37	83.42	9,127.23	202.32	2,081.97	14,455,255.52	1,699,350.87	39.80351464	-80.790
9,600.00	20.37	83.42	9,220.98	206.31	2,116.55	14,455,259.51	1,699,385.44	39.80352537	-80.790
9,700.00	20.37	83.42	9,314.73	210.29	2,151.12	14,455,263.49	1,699,420.02	39.80353609	-80.789
9,800.00	20.37	83,42	9,408.47	214.28	2,185.70	14,455,267.48	1,699,454.59	39.80354681	-80.789
9,900.00	20.37	83,42	9,502.22	218.27	2,220.27	14,455,271.46	1,699,489.17	39.80355754	-80.789
10,000.00	20.37	83.42	9,595.97	222.25	2,254.84	14,455,275.45	1,699,523.74	39.80356826	-80.789



51-02219

Database:

Company: Project:

DB_Jul2216dt_v14
Tug Hill Operating LLC
Marshall County, West Virginia.

Site:

Michter

Well: Wellbore: Michter N-08HU (G)

Original Hole Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Well Michter N-08HU (G)

GL @ 1130.00ft GL @ 1130.00ft

Grid Minimum Curvature Office of Oil and Gas MAY 17 2019

ed Survey								Envir	W Department onmental Prote
leasured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,100.00	20.37	83.42	9,689.72	226.24	2,289.42	14,455,279.44	1,699,558.31	39.80357898	-80.78942
10,200.00	20.37	83.42	9,783.47	230.22	2,323.99	14,455,283.42	1,699,592.89	39.80358970	-80.78929
10,300.00	20.37	83.42	9,877.22	234.21	2,358.57	14,455,287.41	1,699,627.46	39.80360043	-80.7891
10,400.00	20.37	83.42	9,970.96	238.19	2,393.14	14,455,291.39	1,699,662.04	39.80361115	-80.7890
10,500.00	20.37	83.42	10,064.71	242.18	2,427.71	14,455,295.38	1,699,696.61	39.80362187	-80.7889
10,600.00	20.37	83.42	10,158.46	246.17	2,462.29	14,455,299.37	1,699,731.18	39.80363259	-80.7888
10,617.83	20.37	83.42	10,175.17	246.88	2,468.45	14,455,300.08	1,699,737.35	39.80363451	-80.7887
Begin 8°/	/100' build/tur	'n							
10,700.00	18.33	64.46	10,252.78	254.09	2,494.34	14,455,307.29	1,699,763.24	39.80365416	-80.7886
10,800.00	18.78	39.17	10,347.73	273.39	2,518.74	14,455,326.59	1,699,787.64	39.80370699	-80.7886
10,900.00	22.21	18.36	10,441.51	303.86	2,534.89	14,455,357.06	1,699,803.79	39.80379056	-80.7885
11,000.00	27.52	4.02	10,532.29	344.91	2,542.48	14,455,398.11	1,699,811.37	39.80390325	-80.7885
11,100.00	33.84	354.34	10,618.30	395.75	2,541.35	14,455,448.94	1,699,810.25	39.80404287	-80.7885
11,200.00	40.69	347.50	10,697.88	455.38	2,531.54	14,455,508.58	1,699,800.43	39.80420669	-80.7885
11,300.00	47.85	342.37	10,769.46	522.64	2,513.23	14,455,575.84	1,699,782.12	39.80439154	-80.7886
11,400.00	55.19	338.29	10,831.66	596.23	2,486.77	14,455,649.43	1,699,755.67	39.80459380	-80.7887
11,500.00	62.64	334.89	10,883.26	674.71	2,452.69	14,455,727.91	1,699,721.59	39.80480955	-80.7888
11,600.00	70.17	331.93	10,923.27	756.56	2,411.65	14,455,809.76	1,699,680.55	39.80503459	-80.7889
11,700.00	77.74	329.23	10,950.90	840.17	2,364.44	14,455,893.37	1,699,633.34	39.80526453	-80.7891
11,800.00	85.33	326.68	10,965.61	923.94	2,311.99	14,455,977.13	1,699,580.89	39.80549490	-80.7893
11,874.62	91,00	324.83	10,968.00	985,56	2,270.04	14,456,038.76	1,699,538.94	39.80566440	-80.7894
Begin 91.	.00° lateral					,,	1,000,000,0	55.56560-7-76	-00.7034
11,900.00	91.00	324.83	10,967.56	1,006.30	2,255.42	14,456,059.50	1,699,524.32	39.80572147	90 7905
12,000.00	91.00	324.83	10,965.80	1,088.03	2,197.83	14,456,141.23	1,699,466.72	39.80594628	-80.7895
12,100.00	91.00	324.83	10,964.05	1,169.76	2,140.23	14,456,222.96	1,699,409.12	39.80617110	-80.7897 -80.7899
12,200.00	91.00	324.83	10,962.30	1,251.49	2,082.63	14,456,304.68	1,699,351.53	39.80639592	
12,300.00	91.00	324.83	10,960.55	1,333.22	2,025.04	14,456,386.41	1,699,293.93	39.80662074	-80.7901 -80.7903
12,400.00	91.00	324.83	10,958.80	1,414.94	1,967.44	14,456,468.14	1,699,236.33	39.80684556	-80.7905
12,500.00	91.00	324,83	10,957.05	1,496.67	1,909.84	14,456,549.87	1,699,178.74	39.80707038	
12,600.00	91.00	324.83	10,955.30	1,578.40	1,852.24	14,456,631.60	1,699,121.14	39.80729519	-80.79076
12,700.00	91.00	324.83	10,953.55	1,660.13	1,794.65	14,456,713.33	1,699,063.54	39.80752001	-80.7909
12,800.00	91.00	324.83	10,951.79	1,741.86	1,737.05	14,456,795.05	1,699,005.95		-80.7911
12,900.00	91.00	324.83	10,950.04	1,823.59	1,679.45	14,456,876.78	1,698,948.35	39.80774483 39.80796964	-80.7913
13,000.00	91.00	324.83	10,948,29	1,905.31	1,621.86	14.456.958.51	1,698,890.75		-80.79157
13,100.00	91.00	324.83	10,946.54	1,987.04	1,564.26	14,457,040.24	1,698,833.16	39.80819446	-80.79178
13,200.00	91.00	324.83	10,944.79	2,068.77	1,506.66	14,457,121.97	1,698,775.56	39.80841927	-80.79198
13,300.00	91.00	324.83	10,943.04	2,150.50	1,449.07	14,457,203.70	1,698,717.96	39.80864409 39.80886890	-80.79219 -80.79239
13,400.00	91.00	324.83	10,941.29	2,232,23	1,391.47	14,457,285.42	1,698,660.37	39.80909372	
13,500.00	91.00	324.83	10,939.53	2,232.23	1,331.47	14,457,367.15	1,698,602.77		-80.7926
13,600.00	91.00	324.83	10,937.78	2,395.69	1,276.28	14,457,448.88		39.80931853	-80.79280
13,700.00	91.00	324.83	10,936.03	2,477.41	1,218.68	14,457,530.61	1,698,545.17 1,698,487.58	39.80954335	-80.79300
13,800.00	91.00	324.83	10,934.28	2,559,14	1,161.08	14,457,612.34		39.80976816	-80.79321
13,900.00	91.00	324.83	10,932.53	2,640.87	1,103.49	14,457,694.07	1,698,429.98	39.80999297	-80.79341
14,000.00	91.00	324.83	10,932.33	2,722.60	1,045.89	14,457,775.79	1,698,372.38	39.81021778	-80.79362
14,100.00	91.00	324.83	10,929.03	2,804.33	988.29	14,457,857.52	1,698,314.79 1,698,257.19	39.81044260	-80.79382
14,200.00	91.00	324,83	10,927.28	2,886.06	930.69	14,457,939.25	1,698,199.59	39.81066741	-80.79403
14,300.00	91.00	324.83	10,925.52	2,967.78	873.10	14,458,020.98	1,698,142.00	39.81089222	-80.79423
14,400.00	91.00	324.83	10,923.77	3,049.51	815.50	14,458,102.71	1,698,084.40	39.81111703	-80.79444
14,500.00	91.00	324.83	10,923.77	3,131.24	757.90	14,458,184.43		39.81134184	-80.79464
14,600.00	91.00	324.83	10,922.02	3,131.24	700.31		1,698,026.80	39.81156665	-80.79484
14,700.00	91.00	324.83	10,920.27	3,212.97	642.71	14,458,266.16	1,697,969.21	39.81179146	-80.79505
14,700.00	91.00	324.83	10,916.52			14,458,347.89	1,697,911.61	39.81201627	-80.79525
14,800.00	91.00	324.83		3,376.43	585.11	14,458,429.62	1,697,854.01	39.81224108	-80.79546
			10,915.02	3,458.15	527.52	14,458,511.35	1,697,796.42	39.81246589	-80.79566
15,000.00	91.00	324.83	10,913.27	3,458.15	469.92	14,458,511.35 14,458,593.08	1,697,796.42 1,697,738.82	39.81246589 39.81269070	-80.79 -80.79





Database: Company: Project:

DB_Jul2216dt_v14
Tug Hill Operating LLC

Marshall County, West Virginia.

Michter Site:

Well: Michter N-08HU (G) Wellbore: Original Hole Design: rev1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Michter N-08HU (G) GL @ 1130.00ft GL @ 1130.00ft Grid

Minimum Curvature

Office of Oil and Gas MAY 17 2019

ned Survey								En	W Department ironmental Prote
leasured Depth (ft)	Inclination (°)	Azimuth	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
15,100.00	91.00	324.83	10,911.51	3,621.61	412.32	14,458,674.80	1,697,681.22	39.81291550	-80.796076
15,200.00	91.00	324.83	10,909.76	3,703.34	354.73	14,458,756.53	1,697,623.63	39.81314031	-80.796280
15,300.00	91.00	324.83	10,908.01	3,785.07	297.13	14,458,838.26	1,697,566.03	39.81336512	-80.796485
15,400.00	91.00	324.83	10,906.26	3,866.80	239.53	14,458,919.99	1,697,508.43	39.81358993	-80.796689
15,500.00	91.00	324.83	10,904.51	3,948.53	181.94	14,459,001.72	1,697,450.84	39.81381473	-80.796894
15,600.00	91.00	324.83	10,902.76	4,030.25	124.34	14,459,083.45	1,697,393.24	39.81403954	-80.797098
15,700.00	91.00	324.83	10,901.01	4,111.98	66.74	14,459,165.17	1,697,335.64	39.81426435	-80.79730
15,800.00	91.00	324.83	10,899.26	4,193.71	9.14	14,459,246.90	1,697,278.04	39.81448915	-80.79750
15,900.00	91.00	324.83	10,897.50	4,275.44	-48.45	14,459,328.63	1,697,220.45	39.81471396	-80.797712
16,000.00	91.00	324.83	10,895.75	4,357.17	-106.05	14,459,410.36	1,697,162.85	39.81493876	-80.797916
16,100.00	91.00	324.83	10,894.00	4,438.90	-163.65	14,459,492.09	1,697,105.25	39.81516357	-80.798120
16,200.00	91.00	324.83	10,892.25	4,520.62	-221.24	14,459,573.81	1,697,047.66	39.81538837	-80.798325
16,300.00	91.00	324.83	10,890.50	4,602.35	-278.84	14,459,655.54	1,696,990.06	39.81561317	-80.798529
16,400.00	91.00	324.83	10,888.75	4,684.08	-336.44	14,459,737.27	1,696,932.46	39.81583798	-80.798734
16,500.00	91.00	324.83	10,887.00	4,765.81	-394.03	14,459,819.00	1,696,874.87	39.81606278	-80.798938
16,600.00	91.00	324.83	10,885.24	4,847.54	-451.63	14,459,900.73	1,696,817.27	39.81628758	-80.799143
16,700.00	91.00	324.83	10,883.49	4,929.27	-509.23	14,459,982.46	1,696,759.67	39.81651238	-80.79934
16,800.00	91.00	324.83	10,881.74	5,010.99	-566.82	14,460,064.18	1,696,702.08	39.81673719	-80.799552
16,900.00	91.00	324.83	10,879.99	5,092.72	-624.42	14,460,145.91	1,696,644.48	39.81696199	-80.799756
17,000.00	91.00	324.83	10,878.24	5,174.45	-682.02	14,460,227.64	1,696,586.88	39.81718679	-80.79996 ⁻
17,100.00	91.00	324.83	10,876.49	5,256.18	-739.61	14,460,309.37	1,696,529.29	39.81741159	-80.800168
17,200.00	91.00	324.83	10,874.74	5,337.91	-797.21	14,460,391.10	1,696,471.69	39.81763639	-80.800370
17,300.00	91.00	324.83	10,872.99	5,419.64	-854.81	14,460,472.83	1,696,414.09	39.81786119	-80.800574
17,400.00	91.00	324.83	10,871.23	5,501.37	-912.41	14,460,554.55	1,696,356.50	39.81808599	-80.800778
17,500.00	91.00	324.83	10,869.48	5,583.09	-970.00	14,460,636.28	1,696,298.90	39.81831079	-80.800983
17,600.00	91.00	324.83	10,867.73	5,664.82	-1,027.60	14,460,718.01	1,696,241.30	39.81853559	-80.801187
17,700.00	91.00	324.83	10,865.98	5,746.55	-1,085.20	14,460,799.74	1,696,183.71	39.81876039	-80.801392
17,800.00	91.00	324.83	10,864.23	5,828.28	-1,142.79	14,460,881.47	1,696,126.11	39.81898518	-80.801596
17,900.00	91.00	324.83	10,862.48	5,910.01	-1,200.39	14,460,963.20	1,696,068.51	39.81920998	-80.80180
18,000.00	91.00	324.83	10,860.73	5,991.74	-1,257.99	14,461,044.92	1,696,010.92	39.81943478	-80.802005
18,100.00	91.00	324.83	10,858.98	6,073.46	-1,315.58	14,461,126.65	1,695,953.32	39.81965958	-80.802210
18,200.00	91.00	324.83	10,857.22	6,155.19	-1,373.18	14,461,208.38	1,695,895.72	39.81988437	-80.802414
18,300.00	91.00	324.83	10,855.47	6,236.92	-1,430.78	14,461,290.11	1,695,838.13	39.82010917	-80.802619
18,400.00	91.00	324.83	10,853.72	6,318.65	-1,488.37	14,461,371.84	1,695,780.53	39.82033397	-80.802823
18,500.00	91.00	324.83	10,851.97	6,400.38	-1,545.97	14,461,453.56	1,695,722.93	39.82055876	-80.803028
18,600.00	91.00	324.83	10,850.22	6,482.11	-1,603.57	14,461,535.29	1,695,665.34	39.82078356	-80.803232
18,700.00	91,00	324.83	10,848.47	6,563.83	-1,661.16	14,461,617.02	1,695,607.74	39.82100835	-80.803437
18,800.00	91.00	324.83	10,846.72	6,645.56	-1,718.76	14,461,698.75	1,695,550,14	39.82123315	-80.803641
18,900.00	91.00	324.83	10,844.96	6,727.29	-1,776.36	14,461,780.48	1,695,492.55	39.82145794	-80.803846
19,000.00	91.00	324.83	10,843.21	6,809.02	-1,833.96	14,461,862.21	1,695,434.95	39.82168273	-80.804050
19,100.00	91.00	324.83	10,841.46	6,890.75	-1,891.55	14,461,943.93	1,695,377.35	39.82190753	-80.804255
19,200.00	91.00	324.83	10,839.71	6,972.48	-1,949.15	14,462,025.66	1,695,319.76	39.82213232	-80.804459
19,300.00	91.00	324.83	10,837.96	7,054.20	-2,006.75	14,462,107.39	1,695,262.16	39.82235711	-80.804664
19,400.00	91.00	324.83	10,836.21	7,135.93	-2,064.34	14,462,189.12	1,695,204.56	39.82258191	-80.804868
19,500.00	91.00	324.83	10,834.46	7,217.66	-2,121.94	14,462,270.85	1,695,146.96	39.82280670	-80.805073
19,600.00	91,00	324.83	10,832.71	7,299.39	-2,179.54	14,462,352.58	1,695,089.37	39.82303149	-80.805277
19,700.00	91.00	324.83	10,830.95	7,381.12	-2,237.13	14,462,434.30	1,695,031.77	39.82325628	-80.805482
19,800.00	91.00	324.83	10,829.20	7,462.85	-2,294.73	14,462,516.03	1,694,974.17	39.82348107	-80.805686
19,900.00	91.00	324.83	10,827.45	7,544.58	-2,352.33	14,462,597.76	1,694,916.58	39.82370586	-80.805891
20,000.00	91.00	324.83	10,825.70	7,626.30	-2,409.92	14,462,679.49	1,694,858.98	39.82393065	-80.806095
20,100.00	91.00	324.83	10,823.95	7,708.03	-2,467.52	14,462,761.22	1,694,801.38	39.82415544	-80.806300
20,200.00	91.00	324.83	10,822.20	7,789.76	-2,525.12	14,462,842.94	1,694,743.79	39.82438023	-80.806504
20,300.00	91.00	324.83	10,820.45	7,871.49	-2,582.71	14,462,924,67	1,694,686.19	39.82460502	-80.806709
20,400.00	91,00	324.83	10,818.70	7,953.22	-2,640.31	14,463,006.40	1,694,628.59	39.82482981	-80.806913

51-02219

Database: Company: Project: DB_Jul2216dt_v14
Tug Hill Operating LLC
Marshall County, West Virginia.

Michter

Site: Well: Wellbore:

Michter N-08HU (G) Original Hole

Design: rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well Michter N-08HU (G)

GL @ 1130.00ft GL @ 1130.00ft

Grid Minimum Curvature Office Of Oil and Gas
MAY 17 2019

Environmental Protection

Measured									Protectio
Depth (ft)	Inclination (°)	Azimuth	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
20,600.00	91,00	324.83	10,815.19	8,116.67	-2,755.50	14,463,169.86	1,694,513.40	39.82527939	-80,807322
20,700.00	91.00	324.83	10,813.44	8,198.40	-2,813.10	14,463,251.59	1,694,455.80	39.82550417	-80.807527
20,800.00	91.00	324.83	10,811.69	8,280.13	-2,870.70	14,463,333.31	1,694,398.21	39.82572896	-80.80773
20,900.00	91.00	324.83	10,809.94	8,361.86	-2,928.30	14,463,415.04	1,694,340.61	39.82595375	-80.80793
21,000.00	91.00	324.83	10,808,19	8,443.59	-2,985.89	14,463,496.77	1,694,283.01	39.82617853	-80.80814
21,100.00	91.00	324.83	10,806.44	8,525.32	-3,043.49	14,463,578.50	1,694,225,42	39.82640332	-80.80834
21,200.00	91.00	324.83	10,804.69	8,607.04	-3,101.09	14,463,660.23	1,694,167.82	39.82662811	-80.80854
21,300.00	91.00	324.83	10,802.93	8,688.77	-3,158.68	14,463,741.96	1,694,110.22	39.82685289	-80.80875
21,400.00	91.00	324.83	10,801.18	8,770.50	-3,216.28	14,463,823.68	1,694,052.63	39.82707768	-80,80895
21,500.00	91.00	324.83	10,799.43	8,852.23	-3,273.88	14,463,905.41	1,693,995.03	39.82730246	-80.80916
21,600.00	91.00	324.83	10,797.68	8,933.96	-3,331.47	14,463,987.14	1,693,937.43	39.82752724	-80.80936
21,700.00	91.00	324.83	10,795.93	9,015.69	-3,389.07	14,464,068.87	1,693,879.84	39.82775203	-80.80957
21,800.00	91.00	324.83	10,794.18	9,097.42	-3,446.67	14,464,150.60	1,693,822.24	39.82797681	-80.80977
21,900.00	91.00	324.83	10,792.43	9,179.14	-3,504.26	14,464,232.33	1,693,764.64	39.82820160	-80,80998
22,000.00	91.00	324.83	10,790.67	9,260.87	-3,561.86	14,464,314.05	1,693,707.05	39.82842638	-80.81018
22,100.00	91.00	324.83	10,788.92	9,342.60	-3,619.46	14,464,395.78	1,693,649.45	39.82865116	-80.81039
22,200.00	91.00	324.83	10,787.17	9,424.33	-3,677.05	14,464,477.51	1,693,591.85	39,82887594	-80,81059
22,300.00	91.00	324.83	10,785.42	9,506.06	-3,734.65	14,464,559.24	1,693,534.26	39.82910072	-80.81079
22,400.00	91.00	324.83	10,783.67	9,587.79	-3,792.25	14,464,640.97	1,693,476.66	39.82932551	-80.81100
22,500.00	91.00	324.83	10,781.92	9,669.51	-3,849.85	14,464,722.69	1,693,419.06	39.82955029	-80.81120
22,600.00	91.00	324.83	10,780.17	9,751.24	-3,907.44	14,464,804.42	1,693,361.47	39.82977507	-80.81141
22,700.00	91.00	324.83	10,778.42	9,832.97	-3,965.04	14,464,886.15	1,693,303.87	39.82999985	-80.81161
22,800.00	91.00	324.83	10,776.66	9,914.70	-4,022.64	14,464,967.88	1,693,246.27	39.83022463	-80,81182
22,900.00	91.00	324.83	10,774.91	9,996.43	-4,080.23	14,465,049.61	1,693,188.68	39.83044941	-80.81202
23,000.00	91.00	324.83	10,773.16	10,078.16	-4,137.83	14,465,131.34	1,693,131.08	39.83067419	-80,81223
23,100.00	91.00	324.83	10,771.41	10,159.88	-4,195.43	14,465,213.06	1,693,073.48	39.83089896	-80.81243
23,180.52	91.00	324.83	10,770.00	10,225.69	-4,241.81	14,465,278.87	1,693,027.10	39.83107996	-80.81260

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle	Dip Dir.	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Michter N-08HU BHL - plan hits target cent - Point	0.00 er	0.01	10,770.00	10,225.69	-4,241.81	14,465,278.87	1,693,027.10	39.83107996	-80.8126007
Michter N-08HU LP - plan hits target centored - Point	0.00 er	0.00	10,968.00	985.56	2,270.04	14,456,038.76	1,699,538.94	39.80566440	-80.7894830



51-02219

Database: Company: DB_Jul2216dt_v14 Tug Hill Operating LLC

Marshall County, West Virginia.
Michter

Project: Site: Well:

Michter N-08HU (G)

Wellbore:

Original Hole

Design: rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well Michter N-08HU (G) GL @ 1130.00ft GL @ 1130.00ft

Grid

Minimum Curvature

Measured	Vertical	Local Coor	dinates	
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
1,300.00	1,300.00	0.00	0.00	KOP Begin 1°/100' build
1,600.00	1,599.86	-7.38	-2.69	Begin 3.00° tangent
2,100.00	2,099.18	-31.97	-11.64	Begin 1°/100' drop
2,400.00	2,399.04	-39.35	-14.32	Begin vertical hold
3,100.96	3,100.00	-39.35	-14.32	Begin 3°/100' build
3,779.86	3,764.69	-25.67	104.29	Begin 20.37° tangent
10,617.83	10,175.17	246.88	2,468.45	Begin 8°/100' build/turn
11,874.62	10,968.00	985.56	2,270.04	Begin 91.00° lateral
23,180.52	10,770.00	10,225.69	-4,241.81	PBHL/TD 23180.52 MD/10770.00 TVD

Office of Oil and Gas

MAY 17 2019

WW Department of Environmental Protection

WW-9 (4/16)

API Number 47 - 051

Operator's Well No. Michter N-8HU

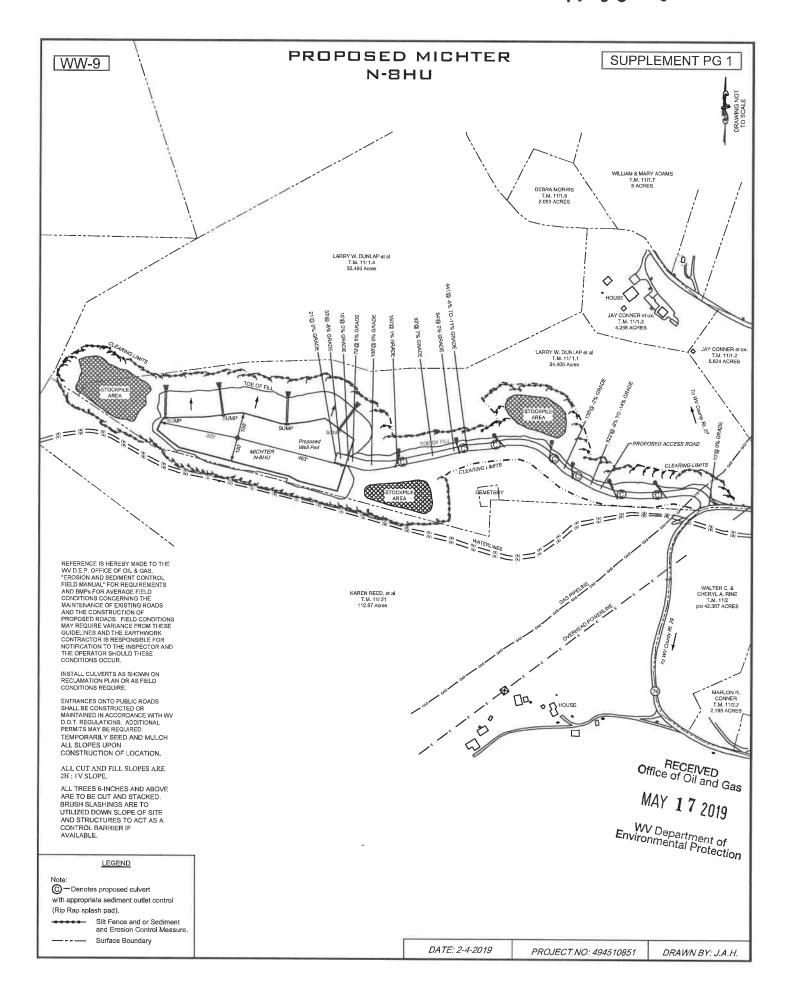
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

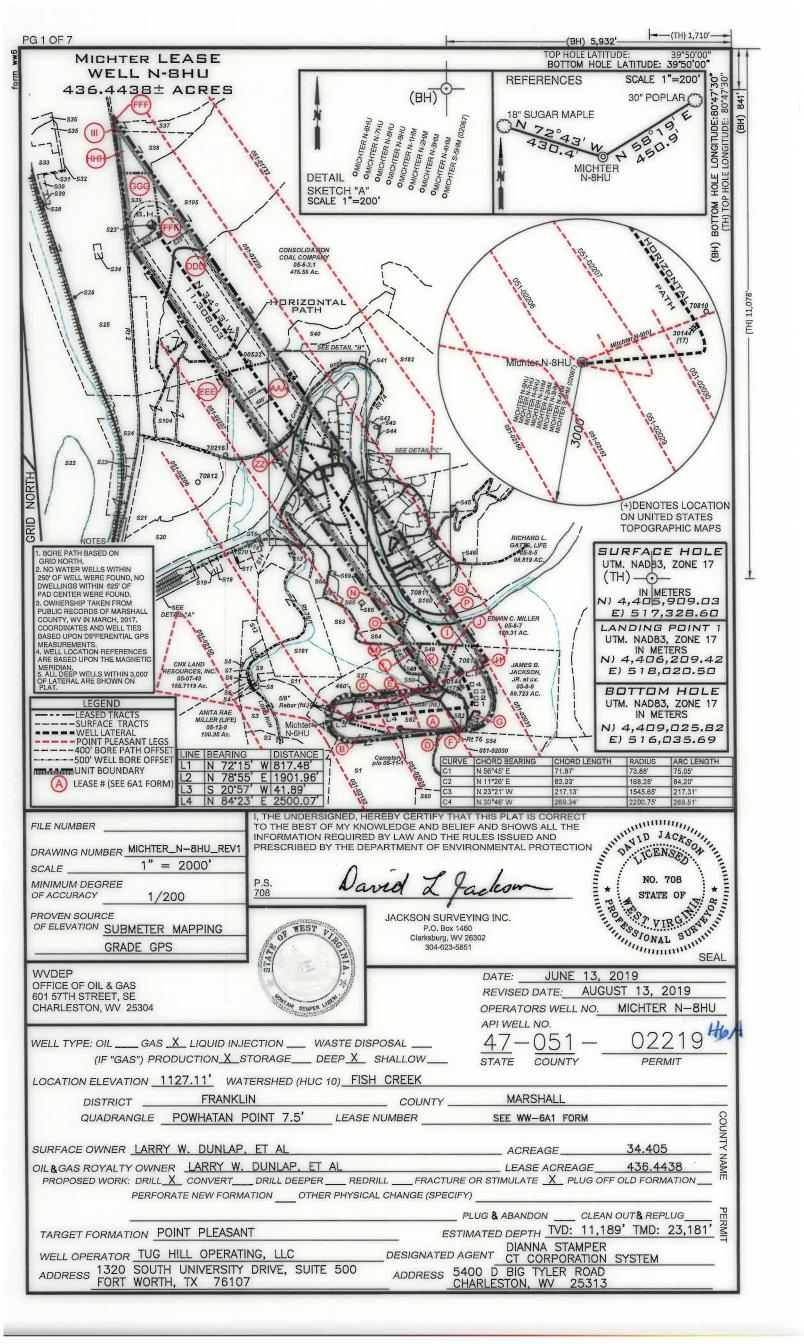
Operator Name Tug Hill Operating, LLC	OP Code 494510851
Watershed (HUC 10)_Fish Creek	Quadrangle New Martinsville 7.5'
Do you anticipate using more than 5,000 bbls of water to comp	plete the proposed well work? Yes No
Will a pit be used? Yes No	
If so, please describe anticipated pit waste:AST Tanks	s with proper containment will be used for staging fresh water for frac and flow back water
Will a synthetic liner be used in the pit? Yes	No If so, what ml.? AST Tanks will be used with proper contains
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
Underground Injection (UIC Permi	it Number_ UIC 2459, UIC 965, UIC 359, UIC 2D0732540, UIC 2D0732523
Off Site Disposal (Supply form WV	W-9 for disposal location)
Other (Explain	
Will closed loop system be used? If so, describe: Yes - For Ve	ertical and Horizontal Drilling
Drilling medium anticipated for this well (vertical and horizon	tal)? Air, freshwater, oil based, etcAir for vertical / Oil for Horizontal
-If oil based, what type? Synthetic, petroleum, etcS	ynthetic Oil Base
Additives to be used in drilling medium? Barite for weight	
Drill cuttings disposal method? Leave in pit, landfill, removed	l offsite, etc. All drill cuttings to be disposed of in a Landfill
-If left in pit and plan to solidify what medium will be	e used? (cement, lime, sawdust)_N/A
-Landfill or offsite name/permit number?	iltary Landfil (SWF-1021 / WV0109185) and Westmoreland Sanitary Landfill, LLC (SAN1405 / PA DEP EC#1386426)
Permittee shall provide written notice to the Office of Oil and Owest Virginia solid waste facility. The notice shall be provided where it was properly disposed.	Gas of any load of drill cuttings or associated waste rejected at any d within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the West V provisions of the permit are enforceable by law. Violations of law or regulation can lead to enforcement action. I certify under penalty of law that I have personally application form and all attachments thereto and that, base	conditions of the GENERAL WATER POLLUTION PERMIT issued irginia Department of Environmental Protection. I understand that the of any term or condition of the general permit and/or other applicable by examined and am familiar with the information submitted on this ed on my inquiry of those individuals immediately responsible for true, accurate, and complete. I am aware that there are significant dility of fine or imprisonment. Office of Oil and Gas MAY 17 2019 Environmental Protection
Subscribed and sworn before me this 5 day of	Commonwealth of Pennsylvania - Notary Seal Notary Public MAUREEN A STEAD - Notary Public Washington County
My commission expires $\frac{1}{2h/2}$	My Commission Expires Jan 28, 2023 Commission Number 1259926

Operator's Well No. Michter N-8HU

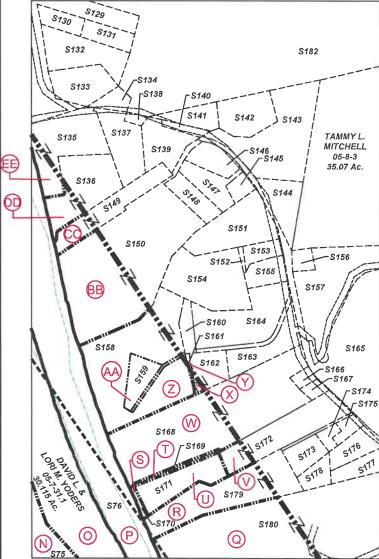
Proposed Revegetation Treatment: Acres Disturbed _	21.11 Prevegetation pH	6.0
Lime 3 Tons/acre or to corr	rect to pH 6.5	
Fertilizer type 10-20-20		
Fertilizer amount 500	lbs/acre	
Mulch 2.5	Tons/acre	
	Seed Mixtures	
Temporary	Perma	nent
Seed Type lbs/acre Annual Ryegrass 40	Seed Type Orchard Grass	lbs/acre 12
Spring Oats 96	Ladino	3
	White Clover	2
Maps(s) of road, location, pit and proposed area for la provided). If water from the pit will be land applied, is acreage, of the land application area.	include dimensions (L x W x D) of the pit, and	ing this info have bee dimensions (L x W),
Maps(s) of road, location, pit and proposed area for la provided). If water from the pit will be land applied, in acreage, of the land application area. Photocopied section of involved 7.5' topographic shee	include dimensions (L x W x D) of the pit, and	ing this info have bee dimensions (L x W),
Maps(s) of road, location, pit and proposed area for la provided). If water from the pit will be land applied, in acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet. Plan Approved by:	include dimensions (L x W x D) of the pit, and	ing this info have bee dimensions (L x W),
Maps(s) of road, location, pit and proposed area for la provided). If water from the pit will be land applied, in acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet. Plan Approved by:	include dimensions (L x W x D) of the pit, and	ing this info have bee dimensions (L x W),
Maps(s) of road, location, pit and proposed area for la provided). If water from the pit will be land applied, in acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet. Plan Approved by:	include dimensions (L x W x D) of the pit, and	dimensions (L x W),
Maps(s) of road, location, pit and proposed area for la provided). If water from the pit will be land applied, in acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet. Plan Approved by:	include dimensions (L x W x D) of the pit, and	Office MAY
Maps(s) of road, location, pit and proposed area for la provided). If water from the pit will be land applied, in acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet. Plan Approved by:	include dimensions (L x W x D) of the pit, and	Office MAY
Attach: Maps(s) of road, location, pit and proposed area for la provided). If water from the pit will be land applied, in acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Comments: Title: Oil and Gas Inspector	include dimensions (L x W x D) of the pit, and	dimensions (L x W),



WW-9 PROPOSED SUPPLEMENT PG 2 MICHTER N-8HU FISH CREEK ROAD Captina Creek Fish ROST LONG RUN Woodlands Lock No.14 MICHTER N-8HU K CPEAL DRIV Franklin 120 NOTE: CLOSEST WATER PURVEYOR GRANDVIEW - DOOLIN PUBLIC SERVICE DISTRICT PROCTOR, WV LAT:39.7136943 LON:-80.8260157 LOCATED S 14-39 W AT 33,488' FROM MICHTER N-8HU SURFACE LOCATION 494510851 OPERATOR TOPO SECTION LEASE NAME TUG HII TUG HILL OPERATING, LLC POWHATAN POINT 7.5' MICHTER 380 SOUTHPOINTE BLVD SUITE 200 SCALE: DATE CANONSBURG,PA 15317 1'' = 2000'DATE: 2-4-2019

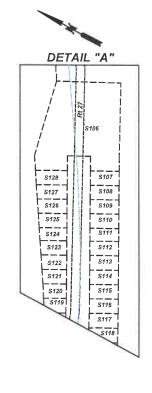


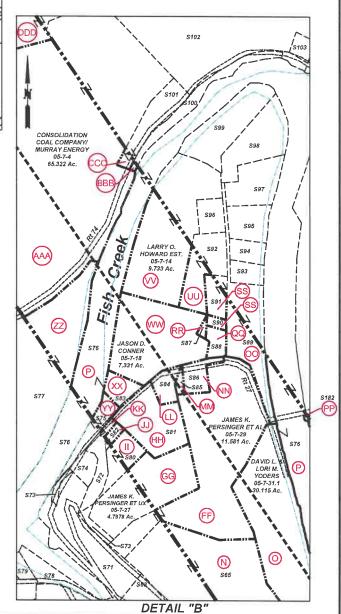




DETAIL "C"

N.T.S.







P.S. David L Jackson



OPERATOR'S

WELL #: Michter N-8HU

DISTRICT: Franklin
COUNTY: Marshall

STATE: WV

API #: 47 - 051- 02219

WELL PLAT

PAGE 2 OF 7

DATE: 06/13/2019

MICHTER LEASE WELL N-8HU 436.4438± ACRES

Number S1				
	2	TAX MAP -PARCEL 05-11-21	SURFACE OWNER Karen Reed, et al	ACRES 112.67
S2	,	05-12-10	Consolidation Coal Company/ Murray	13.76
102		03-12-10	Energy c/o Land Dept	10.70
S3		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		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
\$17		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		05-07-3.3	WW Economic Development Authority	65.2077
S21		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		05-06-3.1	Ohio Power Company	28.9966
S25		05-06-10	Ohio Power Company	241.858
S26		05-06-16	Appalacian Power CP	0.61
S27 (05-11-1.4	Larry Dunlap, et al	32.493
528		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	Cll Carbon, LLC	12.454
S34		05-06-11	Consolidation Coal Company/ Murray Energy	1.05
S35		05-06-08	Cll Carbon, LLC	2.727
S36		05-06-15	Cll Carbon, LLC	2.522
S37	11	05-06-01	Consolidation Coal Company/ Murray Energy	
	HHH	05-06-06	Consolidation Coal Company/ Murray Energy	
	GGG	05-06-05	Consolidation Coal Company/ Murray Energy	
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/0 05-08-4	Cemetery	0.305
	L .	05-11-01	William N. & Virginia A. Roupe	4.527
548		05-11-1.6	Debra Morris	2.093
	K	05-11-1.7	William S. & Mary K. Adams	8.00
	Ę.	05-11-1.3	Jay A. Conner, et ux	4.256
		05-11-1.5	Paul & Sandy Witt	3.507
	F	05-11-1.2	Jay A. Conner, et ux	5.824
	G	05-08-9.1	Scott E. Jackson, Tammy S. South & Marion Jackson	1.957
	D	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
		05-11-17	Kevin R. Corley, et ux	36.13
S60			Hiram's Estate Family, LTD LLP	HEO OF
S61		05-11-14		158.054
S61 S62	A	05-11-1.1	Larry W. Dunlap, et al	34.405
S61 S62 S63	A M			

Number	TAX MAP -PARCEL	SURFACE OWNER	ACRES
S65 N	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	W 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 KK	05-07-23.1	W DOH	2.37
S73	05-07-25		
S74		WV DOH	0.50
	05-07-24	James A. Wade	0.578
S75 YY	05-07-45	Robert L. Henry (Life) & Jeffrey S. Henry	0.65
S76 P	Fish Creek	State of WV	25.55∞
\$77 ZZ	05-07-3.2	Ohio Power Company	45.534
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 II	05-07-23	Arlie E. Powell	1.435
S81 HH	05-07-27.1	Mark L. Riter, et ux	3.427
S82 JJ	05-07-23.2	Robert L. Henry (Life) & Jeffrey S. Henry	0.256
S83 XX	05-07-21	Aaron S. Meyer	1.775
S84 LL	05-07-22	Jesus & Mary Bustamante	0.782
S85 MM	05-07-28.1	Jesus & Mary Bustamante	0.200
S86 NN	05-07-28	Thelma M. Roupe	0.940
S87 RR	05-07-18.1	Debora L. Bennett	0.13
S88 QQ	05-07-17	Debora L. Bennett	0.614
S89 00	05-07-15	William Roupe, et ux	6.631
S90 SS	05-07-16	Debora L. Bennett	0.235
S91 TT	05-07-14.2	Robert L. Eyler, Sr. & Jessica L. Bennett	0.998
S92 UU	05-07-14.3	Steven H, Howard	2.669
S93	05-07-15.1	Woodland Hills Recreation Club	1.016
S94	05-07-13.1	Woodland Hills Recreation Club	1.109
S95	05-07-13	Carol A. & Shelva G. Smith	2.01
S96	05-07-14.1	Larry O. Howard, Est.	
S97	05-07-11	Roy S. & Cynthia M. Meadows	1.00
S98	05-07-10.1		2.90
S99	05-07-10.1	Sandra Kay Beymer & Chad M. Wright	4.237
S100 BBB		Darren Edward Thacker	4.737
	05-07-5.1	George A. Knuth	2.95
S101 CCC	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	
S104 EEE	05-07-02	Consolidation Coal Company/ Murray Energy	
S105 FFF	05-06-03	Ohio Power Co.	281.04
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-03	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	
S132	05-8A-07	Anne C. Klem	0.48
			1.40
S133	05-8A-08	John Joseph Goudy	1.0
S134	05-8A-09	Kevin W. Wallace	0.323
S135 EE	05-8A-15	Kevin R. Morris	2.06
	05-8A-16	John David Fromhart	2.0
S136 DD	05-8A-17	Isaac Luke Vanscyoc	1.44
S137		I U O F	0.10
S137 S138	05-8A-55	H. G. Energy II Appalachia, LLC	0.10
S137 S138 S139	05-8A-55 05-8A-19	Mary Catherine Brooks	1.0
S137 S138	05-8A-55	Mary Catherine Brooks Milton Christopher White	1.0
S137 S138 S139	05-8A-55 05-8A-19	Mary Catherine Brooks Milton Christopher White	1.0
S137 S138 S139 S140 S141 S142	05-8A-55 05-8A-19 05-8A-20	Mary Catherine Brooks	1.0
S137 S138 S139 S140	05-8A-55 05-8A-19 05-8A-20 05-8A-11	Mary Catherine Brooks Milton Christopher White Gloria Jean White & Milton Christopher White	1.0 0.19 0.525



P.S. David L Jackson



OPERATOR'S

WELL#: Michter N-8HU

DISTRICT: Franklin
COUNTY: Marshall

STATE: WV

API #: 47 - 051- 02219

WELL PLAT

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DATE: 06/13/2019

MICHTER LEASE WELL N-8HU 436.4438± 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 CC	05-8A-26	Albert James Anderson, Jr.	1.605
S150 BB	05-8A-27	Mary J. Siburt	8.296
\$151	05-8A-28	Norman G. Johnson-Life	2.0
5152	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 Z	05-8A-39	Barbara L. Daniels & Elaine Wills	3.223
S159 AA	05-8A-40	Barbara L. Daniels & Elaine Wills	0.627
S160	05-8A-38	William J. Gamble, et ux	0.35
S161 Y	05-8A-41	William J. Gamble, et ux	0.046
S162 X	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
5165	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 W	05-8A-42	Robert M. White	7.23
S169 T	05-8A-49	Raymand A. Jr.& Larriette Scott	0.159
S170 S	05-8A-45	Raymand A. Jr.& Larriette Scott	0.305
S171 U	05-8A-46	Barbara L. Rose & Mary L. Rose	1.5
S172 V	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
\$176	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 R	05-8A-47	Barbara L. Rose & Mary L. Rose	3.0
S180 Q	05-08-4.1	Frances E, Nieman	33.461
S181	05-07-39	Lionel L. Persinger, et ux	57.00
S182 PP	05-08-02	Consolidation Coal Company/ Murray Ener	gy 136.58



P.S. David L Jackson



OPERATOR'S

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WELL PLAT

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DATE: 06/13/2019

form

MICHTER LEASE WELL N-8HU

436.4438± ACRES

	Deed Bo	Grantor, Lessor, Etc. LARRY W DUNLAP AND BARBARA E DUNLAP	Tag	Parcel 5-11-1.1	0*47051.089.0
14	864 850	REBEKAH DRAYER ELDRIDGE AND CHRISTOPHER ELDRIDGE	В	5-11-21	10*22667
15	850 851	CHRISTA DRAYER ELDRIDGE AND CHRISTOPHER ELDRIDGE CHRISTA DRAYER STALEY AND JOSHUA STALEY	В	5-11-21 5-11-21	10*22667
15	850	BOYD BUESKING	В	5-11-21	10*22777
16	850	BRENDA FAYE THOMAS PETRACK	В	5-11-21	10*22780
20	848	GUY YATES	В	5-11-21	10*22786
20	848	GAIL ANN YATES WOOD AND WESLEY J WOOD	В	5-11-21	10*22787
20	848	GENIE SUE THOMAS HOLMES AND JOHN L HOLMES	В	5-11-21	10*22788
21	848	BOYD DAIL YATES IR AND MARLA YATES	В	5-11-21	10*22801
21	848	SHIRLEY YATES HARTSELL AND FREDDIE LEE HARTSELL	В	5-11-21	10*22808
19	864	CLYDE V. & KAREN S REED	В	5-11-21	10*22810
14	864	LARRY W DUNLAP AND BARBARA E DUNLAP	C	5-11-1.4	0*47051.089.0
49	956	WALTER C RINE AND CHERYL A RINE	D	5-11-2	10*19127
15	724	JAY A CONNER PATTY LOUISE CONNER	E	5-11-1.3	10*19167
15	724	JAY A CONNER PATTY LOUISE CONNER	F	5-11-1.2	10*19167
10	731	SCOTT E JACKSON	G	5-8-9.1	10*19219
		TAMMIE S JACKSON	G	5-8-9.1	10*19236
21	749	MARION L JACKSON	G	5-8-9.1	10*19237
42	735 859	JAMES BJACKSON JR AND MARION LJACKSON	Н	5-8-9	0*47051.105.0
		EDWIN C MILLER AND KIMBERLY ANN MILLER	i i	5-8-7	10*21546
25 56	957 715	PAUL WHITT AND SANDY WHITT	1	5-11-1.5	10*19168
	711	WILLIAM S ADAMS MARY K ADAMS	K	5-11-1.7	10*19174
31		RANDYLYN MOORE LINDA G MOORE	Ĺ	5-11-1	10*19173
46	717	RANDYLYN MOORE LINDA G MOORE RANDY L PECK	i	5-11-1	10*19184
26	716		M	5-7-32	TH19175
50	711	WILLIAM N. ROUPE AND VIRGINIA A ROUPE WILLIAM N ROUPE AND VIRGINIA A ROUPE	N	5-7-31	10*22751
36	977				Q077562000
30	806	EUZABETH ANNE MOORE	O P	5-7-31.1 Fish Creek - State of WV	Q091960000
551	865	WEST VIRGINIA DIVISION OF NATURAL RESOURCES			
28	685	FRANCES E, NIEMAN	Q R	5-8-4.1 5-8A-47	TH19101 Q097976001
31	890	SARA B ANDERSON AND ARTHUR A ANDERSON	R	5-8A-47 5-8A-47	Q097976001 Q097976004
60	890	LORNA MARIE LEW			Q.097976005
59	890	MARJORIE B KIDD AND ROBERT C KIDD	R	5-8A-47 5-8A-47	Q097976005 Q097976006
59	890	VICTORIA A PAKROVSKY AND STEPHEN W PAKROVSKY	R	5-8A-47 5-8A-47	Q097976006 Q097976007
31	890	CHARLES EDWIN BLUE IV	R	5-8A-47 5-8A-47	Q097976007 Q099899000
58	898	THOMAS DANIEL BLUE AND JOSEPHINE M BLUE (HG Energy - FEE)			4
31	890	SARA B ANDERSON AND ARTHUR A ANDERSON	S	5-8A-45	Q097976001
603	890	LORNA MARIE LEW	S S	5-8A-45 5-8A-45	Q097976004 Q097976005
59	890	MARJORIE B KIDD AND ROBERT C KIDD	S	5-8A-45	Q097976006 Q097976006
59	890	VICTORIA A PAKROVSKY AND STEPHEN W PAKROVSKY	S	5-8A-45	Q097976007
31	890	CHARLES EDWIN BLUE IV	S	5-8A-45	Q099899000
58	898	THOMAS DANIEL BLUE AND JOSEPHINE M BLUE (HG Energy - FEE)		5-8A-49	
30	1054	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY	T	5-8A-49 5-8A-49	10*26619 Q097976007
31	890	CHARLES EDWIN BLUE, IV, DEALING IN HIS SOLE AND SEPARATE PROPERTY	T		
60	890	LORNA MARIE LEW	T	5-8A-49	Q097976004
59	890	MARJORIE B. KIDD AND ROBERT C. KIDD, WIFE AND HUSBAND	T	5-8A-49	Q097976005
31	890	SARA B. ANDERSON AND ARTHUR A. ANDERSON, WIFE AND HUSBAND	T	5-8A-49	Q097976001
59	890	VICTORIA A. PAKROVSKY AND STEPHEN W. PAKROVSKY, WIFE AND HUSBAND	T	5-8A-49	Q097976006
31	890	CHARLES EDWIN BLUE, IV, DEALING IN HIS SOLE AND SEPARATE PROPERTY	T	5-8A-49	Q097976007
46	1046	COURTNEY D HALL	T	5-8A-49	10*26944
34	1050	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY	T	5-8A-49	10*26619
60	890	LORNA MARIE LEW	T	5-8A-49	Q097976004
59	890	MARJORIE B. KIDD AND ROBERT C. KIDD, WIFE AND HUSBAND	T	5-8A-49	Q097976005
31	890	SARA B. ANDERSON AND ARTHUR A. ANDERSON, WIFE AND HUSBAND	T	5-8A-49	Q097976001
DING		SOUTHEASTERN GUIDE DOGS INC.	T	5-8A-49	10*26704
59	890	VICTORIA A. PAKROVSKY AND STEPHEN W. PAKROVSKY, WIFE AND HUSBAND	T	5-8A-49	Q097976006
31	890	SARA B ANDERSON AND ARTHUR A ANDERSON	U	5-8A-46	Q097976001 Q097976004
60.	890	LORNA MARIE LEW		5-8A-46	
59	890	MARJORIE B KIDD AND ROBERT C KIDD	U	5-8A-46	Q097976005
59	890	VICTORIA A PAKROVSKY AND STEPHEN W PAKROVSKY	U	5-8A-46	Q097976006
31	890	CHARLES EDWIN BLUE IV	U	5-8A-46	Q097976007
58	898	THOMAS DANIEL BLUE AND JOSEPHINE M BLUE (HG Energy - FEE)	U	5-8A-46	Q099899000
50	1052	BARBARA LOUELLEN ROSE AND MARY LOU ROSE, JTROS	U	5-8A-46	10*27145
31	890	Charles Edwin Blue, IV, dealing in his sole and separate property	V	5-8A-48	Q097976007
60	890	LORNA MARIE LEW	V	5-8A-48	Q097976004
59	890	Marjorie B. Kidd and Robert C. Kidd, wife and husband	V	5-8A-48	Q097976005
31	89	Sara B. Anderson and Arthur A. Anderson, wife and husband	V	5-8A-48	Q097976001
59	890	Victoria A. Pakrovsky and Stephen W. Pakrovsky, wife and husband	V	5-8A-48	Q097976006
31	890	Charles Edwin Blue, IV, dealing in his sole and separate property	V	5-8A-48	Q097976007
46	1046	COURTNEY D HALL	V	5-8A-48	10*26944
60	890	LORNA MARIE LEW	V	5-8A-48	Q097976004
59	890	Marjorie B. Kidd and Robert C. Kidd, wife and husband	V	5-8A-48	Q097976005
31	890	Sara B. Anderson and Arthur A. Anderson, wife and husband	٧	5-8A-48	Q097976001
31	1050	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY	V	5-8A-48	10*26619
DING		SOUTHEASTERN GUIDE DOGS INC.	v	5-8A-48	10*26704
_				0.04.10	попинист
59	890-599	Victoria A. Pakrovsky and Stephen W. Pakrovsky, wife and husband	V	5-8A-48	Q097976006
	890-599 890	Victoria A. Pakrovsky and Stephen W. Pakrovsky, wife and husband SARA B ANDERSON AND ARTHUR A ANDERSON		5-8A-48 5-8A-42	Q097976001
31			V		
31 17	890	SARA B ANDERSON AND ARTHUR A ANDERSON	v w	5-8A-42	Q097976001
31 1: 60	890 1053	SARA B ANDERSON AND ARTHUR A ANDERSON ROBERT M. WHITE AND DIANE WHITE	w w	5-8A-42 5-8A-42	Q097976001 10*27249
31 17 60 59	890 1053 890	SARA B ANDERSON AND ARTHUR A ANDERSON ROBERT M. WHITE AND DIANE WHITE LORNA MARIE LEW	w w	5-8A-42 5-8A-42 5-8A-42	Q097976001 10*27249 Q097976004
31 1: 60 59	890 1053 890 890	SARA B ANDERSON AND ARTHUR A ANDERSON ROBERT M. WHITE AND DIANE WHITE LORNAN MARIL LEW MARJORIE B KIDA AND ROBERT C KIDD	v w w	5-8A-42 5-8A-42 5-8A-42 5-8A-42	Q097976001 10*27249 Q097976004 Q097976005
31 60 59 31	890 1053 890 890 890	SARA B ANDERSON AND ARTHUR A ANDERSON ROBERT M. WHITE AND DIANE WHITE LORNA MARIE LEW MANJORIE B KIDD AND ROBERT C KIDD VICTORIA A PAKROVSKY AND STEPHEN W PAKROVSKY CHARLES EDWIN BUJE IV	V W W W	5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-42	Q097976001 10*27249 Q097976004 Q097976005 Q097976006
31 1; 60 59 59 31	890 1053 890 890 890 890 898	SARA B ANDERSON AND ARTHUR A ANDERSON ROBERT M. WHITE AND DIAINE WHITE LORNA MARIE LEW MARJORIE B KIDD AND ROBERT C KIDD VICTORIA A PAKROVSKY AND STEPHEN W PAKROVSKY	V W W W W	5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-42	Q097976001 10*27249 Q097976004 Q097976005 Q097976006 Q097976007
31 13 60 59 59 31 58	890 1053 890 890 890 890 898 1033	SARA B ANDERSON AND ARTHUR A ANDERSON ROBERT M. WHITE AND DIANE WHITE LORINA MARIE LEW MARJORIE B KIDD AND ROBERT C KIDD VICTORIA PARKOVSKY AND STEPHEN W PAKROVSKY CHARLES EDWIN BLUE IV THOMAS DANIEL BLUE AND JOSEPHINE ME BLUE (MG Energy - FEE) KENNETH AND DAWN E MORRIS	V W W W W W W	5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-42	Q097976001 10*27249 Q097976004 Q097976005 Q097976006 Q097976007 Q099899000
31 17 60 59 59 31 58 12	890 1053 890 890 890 890 890 898 1033	SARA B ANDERSON AND ARTHUR A ANDERSON ROBERT M. WHITE AND DIANE WHITE LORNA MARIE LEW MANJORIE B KIDD AND ROBERT C KIDD VICTORIA A PAKROVSKY AND STEPHEN W PAKROVSKY CHARLES EDWIN BLUE IV THOMAS DANIEL BLUE AND JOSEPHINE M BLUE (HG Energy - FEE) KENNETH AND DAWN E MORRIS DEBRA ANN AND EARL V BUTCHER	V W W W W W W X X	5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-37 5-8A-37	Q097976001 10*27249 Q097976004 Q097976005 Q097976006 Q097976007 Q099899000 10*25698
31 17 60 59 31 58 12 31	890 1053 890 890 890 890 898 1033 1033	SARA B ANDERSON AND ARTHUR A ANDERSON ROBERT M. WHITE AND DAINE WHITE LORNA MARIE LEW MARJORIE B KIDD AND ROBERT C KIDD VICTORIA A PARROVSKY AND STEPHEN W PARROVSKY CHARLES EDWIN BLUE (W THOMAS DANIEL BLUE AND JOSEPHINE M BLUE (HG Energy - FEE) KENNETH AND DAWN E WORRIS DEBRA ANN AND BARL V BUTCHER LANICE AND DONALD CHOOK	V W W W W W W W X X X X	5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-37 5-8A-37	Q097976001 10°27249 Q097976004 Q097976005 Q097976006 Q097976007 Q099899000 10°25698 10°25752 10°26438
31 13 60 59 59 31 58 12 31 58	890 1053 890 890 890 890 898 1033 1093 1034	SARA B ANDERSON AND ARTHUR A ANDERSON ROBERT M. WHITE AND DIANE WHITE LÜRINA MARIE LEW MARJORIE B KIDD AND ROBERT C KIDD VICTORIA PARROVSKY AND STEPHEN W PAKROVSKY CHARLES EDWIN BLUE IV THOMAS DANIEL BLUE AND JOSEPHINE M BLUE (HG Energy - FEE) KENNETH AND DAWN E MORRIS DEBRA ANN AND EARL V BUTCHER JANICE AND DONALD CROOK NARCY LOUISE SNYDER	V W W W W W X X X X	5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-37 5-8A-37 5-8A-37	Q097976001 10°27249 Q097976004 Q097976005 Q097976006 Q097976007 Q099899000 10°25698 10°25752 10°26438 10°26439
31 1 60 55 59 31 58 12 31 58 58	890 1053 890 890 890 890 898 1033 1033 1034 1034	SARA B ANDERSON AND ARTHUR A ANDERSON ROBERT M. WHITE AND DIANE WHITE LORNA MARIE LEW MARJORIE B KIDD AND ROBERT C KIDD VICTORIA A PAKROVSKY AND STEPHEN W PAKROVSKY CHARLES EDWIN BLUE IV THOMAS DANIEL BLUE AND JOSEPHINE M BLUE (MG Energy - FEE) KENNETH AND DAWN E MORRIS DEBRA ANN AND EARL V BUTCHER JANIEL BAND CONALD CHOCK NANCY LOUISE SNYDER LUCILLE E WINGROVE	V W W W W W X X X X X	5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37	Q097976001 10°27249 Q097976004 Q097976005 Q097976005 Q097976007 Q09989000 10°25698 10°25752 10°26438 10°26439 Q078626001
31 1 60 55 59 31 58 31 58 58 31 31 58 58	890 1053 890 890 890 890 898 1033 1034 1034 810 808	SARA B ANDERSON AND ARTHUR A ANDERSON ROBERT M. WHITE AND DIANE WHITE LORINA MARIE LEW MARJORIE B KIDD AND ROBERT C KIDD VICTORIA PARROVSKY AND STEPHEN W PAKROVSKY CHARLES EDWIN BLUE IV THOMAS DANIEL BLUE AND JOSEPHINE M BLUE (MS Energy - FEE) KENNETH AND DAWN E MORRIS DEBRA ANN AND EARL W BUTCHER JANICE AND DONALD CHOCKS NANCY LOUISE SNYDER LUCILE E WINGROVE JUNE MORRIS	V W W W W W X X X X X X X X	5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-47 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37	Q097976001 10°27249 Q097976004 Q097976005 Q097976007 Q097976007 Q099899000 10°25698 10°25752 10°26438 10°26439 Q078626001 Q078626001
31 60 55 55 31 11 33 54 54 8 90	890 1053 890 890 890 890 898 1033 1034 1034 1034 810 808	SARA B ANDERSON AND ARTHUR A ANDERSON ROBERT M. WHITE AND DIANE WHITE LORINA MARIE LEW MARJORIE B KIDD AND ROBERT C KIDD VICTORIA A PAKROVSKY AND STEPHEN W PAKROVSKY CHARLES EDWIN BUJE IV THOMAS DANIEL BLUE AND JOSEPHINE M BLUE (HG Energy - FEE) KENNETH AND DAWN E MORRIS DEBRA ANN AND EARL V BUTCHER JANIEL AND DONALD CHICOK NANCY LOUISE SNYDER LUCILLE E WIN GROVE JUNE MORRIS H JAY ULBRICH	V W W W W W X X X X X X X X X	5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37	Q097976001 10*27249 Q097976004 Q097976004 Q097976006 Q097976007 Q0999899000 10*25698 10*25752 10*26438 10*26439 Q078626003 Q078626003
31 60 59 59 31 58 58 31 58 58 30 30 30	890 1053 890 890 890 890 898 1033 1034 1034 810 808 819	SARA B ANDERSON AND ARTHUR A ANDERSON ROBERT M. WHITE AND DIANE WHITE LORNA MARIE LEW MARJORIE B KIDD AND ROBERT C KIDD VICTORIA PARROVSKY AND STEPHEN W PARROVSKY CHARLES EDWIN BUILD IV THOMAS DANIEL, BULE AND JOSEPHEN ME MULE (HIS Energy - FEE) KENNETH AND DAWN E MORRIS DEBRA ANN AND EARL V BUTCHER JANICE AND DORNALD CHIDOR NANCY LOUISE SNYDER LUCILLE E WIN GROVE JUNE MORRIS HAY ULBRICH CHAUMERS AND ROD IN CHAMBERS	V W W W W W X X X X X X X X X X X X X X	5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37	Q097976001 10*72749 Q097976004 Q097976005 Q097976006 Q097976007 Q097976007 Q09898000 10*25688 10*25752 10*26438 10*26438 Q0786256001 Q0786256001 Q0786256009 Q0786256000
31 11 60 55 59 31 58 12 31 58 8 90 30 50	890 1053 890 890 890 890 890 893 1033 1034 1034 810 808 819	SARA B ANDERSON AND ARTHUR A ANDERSON ROBERT M. WHITE AND DIANE WHITE LORINA MARIE LEW MARJORIE B KIDD AND ROBERT C KIDD VICTORIA PARROVSKY AND STEPHEN W PAKROVSKY CHARLES EDWIN BUJE IV THOMAS DANIEL BLUE AND JOSEPHINE ME BUJE (HE BENETRY - FEE) KENNETH AND DAWN E MORRIS DEBRA ANN AND EARL V BUTCHER JANICE AND DONALD CHOOK NANCY LOUISE SNYDER LUCILLE E WINGROVE JUNE MORRIS HAY ULBRICH MARILYN ULBRICH MARILYN ULBRICH CHALMERS AND ROD N CHAMBERS BLYE ULBRICH PENSCHER AND JIM JENSCHERE	V W W W W W X X X X X X X X X X X X X X	5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37	Q097976001 10*27249 Q097976004 Q097976005 Q097976006 Q097976007 Q097976007 Q197976007 Q1979760007 Q19797600007 Q197976000007 Q19797600000007 Q1979760000000000000000000000000000000000
31 11 59 59 31 12 31 58 88 30 30 30 30 30	890 1053 890 890 890 890 898 1033 1033 1034 1034 810 808 819 820 819	SARA B ANDERSON AND ARTHUR A ANDERSON ROBERT M. WHITE AND DIANE WHITE LORINA MARIE LEW MARJORIE B KIDD AND ROBERT C KIDD VICTORIA A PARKOVSKY AND STEPHEN W PARKOVSKY CHARLES EDWIN BUJE IV THOMAS DANIEL BLUE AND JOSEPHINE M BLUE (HG ÉNETEY - FÉÉ) KENNETH AND DAWN E MORRIS DEBRA ANN AND EARL V BUTCHER JANICE AND DONALD CHICOK NANCY LOUISE SNYDER LUCILLE E WIN GROVE JUNE MORRIS H JAY ULBRICH MARJUY BULBRICH CHALMERS AND ROD N CHAMBERS BLYE ULBRICH JENSCHKE AND JIM JENSCHKE JUSTIN SMITH	V W W W W W W X X X X X X X X X X X X X	5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37	0.097976001 10*27249 0.097976005 0.097976005 0.097976006 0.097976007 0.0979776007 0.0979776007 0.0979776007 0.0979776007 0.0979776007 0.0979776007 0.0979776007 0.
31 11 59 59 31 12 31 58 88 30 30 30 30 30	890 1053 890 890 890 890 890 893 1033 1034 1034 810 808 819	SARA B ANDERSON AND ARTHUR A ANDERSON ROBERT M. WHITE AND DIANE WHITE LORINA MARIE LEW MARIORIE B KIDD AND ROBERT C KIDD VICTORIA PARROVSKY AND STEPHEN W PAKROVSKY CHARLES EDWIN BLUE IV THOMAS DANIEL BLUE AND JOSEPHINE ME BLUE (MS Energy - FEE) KENNETH AND DAWN E MORRIS DEBRA ANN AND EARL W BUTCHER JANICE AND DORALD CHIDOLS NANCY LOUISE SNYDER LUCILE E WINGROVE JUNE MORRIS HAY ULBRICH MARILYN LUBRICH MARILYN LUBRICH HERS AND ROD IN CHAMBERS BLYE LUBRICH JENSCHKE AND JIM JENSCHKE JUSTIN SMITH ROBERT LEE SMITH AND BETSY K SMITH	V W W W W W X X X X X X X X X X X X X X	5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37	Q097976001 10°27249 Q097976004 Q097976005 Q097976006 Q097976007 10°25698 10°25752 10°25618 10°25618 10°25618 10°2563001 Q078626001 Q078626001 Q078626010 Q078626010 Q078626012 Q078626012 Q078626012
31 17 60 59 59 31 58 31 58 80 30 30 30 30 30 30 30	890 1053 890 890 890 890 898 1033 1094 1034 810 810 819 820 819 822 819	SARA B ANDERSON AND ARTHUR A ANDERSON ROBERT M. WHITE AND DIANE WHITE LÜRINA MARIE LEW MARJORIE B KIDD AND ROBERT C KIDD VICTORIA PARROVSKY AND STEPHEN W PAKROVSKY CHARLES EDWIN BLUE IV THOMAS DANIEL BLUE AND JOSEPHINE M BLUE. [HG Energy - FEE] KENNETH AND DAWN E MORRIS DEBRA ANN AND EARL V BUTCHER JANICE AND DOINALD CROOK NANCY LOUISE SINVER LUCILLE E WINGROVE JUNE MORRIS H JAY ULBRICH MARILYN ULBRICH CHALMERS AND ROD N CHAMBERS BLYE ULBRICH JENDERS AND BOD N CHAMBERS BLYE ULBRICH JENDERS AND BOT N CHAMBERS BLYE ULBRICH JENDERS AND BOT N CHAMBERS UJSTIN SMATH ROBERT LEE SMITH AND BETSY K SMITH SOUTHEASTERN GUIDE DOSS INC	V W W W W W X X X X X X X X X X X X X X	5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37	Q097976001 10*27249 Q097976004 Q097976005 Q097976006 Q097976007 Q099899000 10*25752 10*25698 10*25752 10*25698 10*25752 Q078625001 Q078625001 Q078625001 Q078625001 Q078625001 Q078625001 Q078625001 Q078625001 Q078625001
311 127 599 311 311 311 311 588 80 300 300 300 300 300 300 300 300 30	890 1058 890 890 890 890 895 1033 1034 1034 819 820 819 820 819 820 819 820 820 820 820 820 820 820 830 840 850 850 850 850 850 850 850 850 850 85	SARA B ANDERSON AND ARTHUR A ANDERSON ROBERT M. WHITE AND DIANE WHITE LORIAN BARRIL LEW MARIORIE B KIDD AND ROBERT C KIDD VICTORIA PARROVSKY AND STEPHEN WE PARROVSKY CHARLES EDWIN BUILD IV THOMAS DANLEL BLUE AND JOSEPHEN ME BULL (MS Genergy - FEE) KENNETH AND DAWN E MORRIS DEBRA ANN AND EARL V BUTCHER JANICE AND DORNALD CHIDOX NANCY LOUISE SNYDER LUCILLE E WIN GROVE JUNE MORRIS HAY ULBRICH CHANDERS AND ROD IN CHAMBERS BLYE LUBRICH HERS AND ROD IN CHAMBERS BLYE LUBRICH HENSCHKE AND JIM JENSCHKE JUSTIN SMITH ROBERT LEE SMITH AND BETSY K SMITH ROBERT LEE SMITH AND BETSY K SMITH SOUTHEASTERN GUILD EDGS INC	V W W W W W X X X X X X X X X X X X X X	5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-37	Q097976001 10°27249 Q097976004 Q097976005 Q097976006 Q097976007 10°25698 10°25752 10°26438 10°25752 10°26438 10°26438 10°266301 Q078626001 Q078626001 Q078626012 Q078626012 Q078626012 Q078626013 Q078626013
31111111111111111111111111111111111111	890 1053 890 890 890 890 898 1033 1094 1034 810 810 819 820 819 822 819	SARA B ANDERSON AND ARTHUR A ANDERSON ROBERT M. WHITE AND DIANE WHITE LORINA MARIE LEW MARJORIE B KIDD AND ROBERT C KIDD VICTORIA PARROVSKY AND STEPHEN W PAKROVSKY CHARLES EDWIN BLUE IV THOMAS DANIEL BLUE AND JOSEPHINE ME BLUE (HE BENETRY - FEE) KENNETH AND DAWN E MORRIS DEBRA ANN AND EARL V BUTCHER JANICE AND DOLALD CHOOK NANCY LOUISE SNYDER LUCILLE E WINGROVE JUNE MORRIS HAY ULBRICH MARILYN ULBRICH MARILYN ULBRICH HALMERS AND ROD N CHAMBERS BLYE ULBRICH JENSCHKE AND JIM JENSCHKE JENTEN SMITH ROBERT LEE SMITH AND BETSY K SMITH SOUTHEASTERN GUIDE DOGS INC BRYCE EL LIGHT AND LENG HALL COUNTRY OF HALL	V W W W W W X X X X X X X X X X X X X X	5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37 5-8A-37	Q097976001 10*27249 Q097976004 Q097976005 Q097976006 Q097976007 Q079676001
599 311 17 600 600 600 311 17 599 311 12 12 12 12 12 12 12 12 12 12 12 12 1	890 1058 890 890 890 890 895 1033 1034 1034 819 820 819 820 819 820 819 820 820 820 820 820 820 820 830 840 850 850 850 850 850 850 850 850 850 85	SARA B ANDERSON AND ARTHUR A ANDERSON ROBERT M. WHITE AND DIANE WHITE LORIAN BARRIL LEW MARIORIE B KIDD AND ROBERT C KIDD VICTORIA PARROVSKY AND STEPHEN WE PARROVSKY CHARLES EDWIN BUILD IV THOMAS DANLEL BLUE AND JOSEPHEN ME BULL (MS Genergy - FEE) KENNETH AND DAWN E MORRIS DEBRA ANN AND EARL V BUTCHER JANICE AND DORNALD CHIDOX NANCY LOUISE SNYDER LUCILLE E WIN GROVE JUNE MORRIS HAY ULBRICH CHANDERS AND ROD IN CHAMBERS BLYE LUBRICH HERS AND ROD IN CHAMBERS BLYE LUBRICH HENSCHKE AND JIM JENSCHKE JUSTIN SMITH ROBERT LEE SMITH AND BETSY K SMITH ROBERT LEE SMITH AND BETSY K SMITH SOUTHEASTERN GUILD EDGS INC	V W W W W W X X X X X X X X X X X X X X	5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-42 5-8A-37	Q097976001 10°27249 Q097976004 Q097976005 Q097976006 Q097976007 10°25698 10°25752 10°26438 10°25752 10°26438 10°26438 10°266301 Q078626001 Q078626001 Q078626012 Q078626012 Q078626012 Q078626013 Q078626013



P.S. David L Jackson



OPERATOR'S

WELL #: Michter N-8HU

DISTRICT: Franklin

COUNTY: Marshall

STATE: WV

API #: 47 - 051- 02219

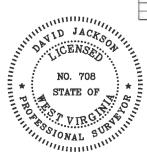
WELL PLAT

PAGE 5 OF 7

DATE: 06/13/2019

MICHTER LEASE WELL N-8HU 436.4438± ACRES

10*25698	Parcel	Tag	Grantor, Lessor, Etc.	Deed Bo	
	5-8A-41	Y	KENNETH AND DAWN E MORRIS	1033	129
10*25752	5-8A-41	Y	DEBRA ANN AND EARL V BUTCHER	1033	315
10*26438	5-8A-41	Y	JANICE AND DONALD CROOK	1034	583
10*26439	5-8A-41	Y	NANCY LOUISE SNYDER	1034	588
Q078626001	5-8A-41	Y	LUCILLE E WINGROVE	810	80
Q078626003	5-8A-41	Y	JUNE MORRIS	808	301
Q078626006	5-8A-41	Y	BARBARA F DANIELS	813	246
Q078626009	5-8A-41	Y	H JAY ULBRICH	819	309
Q078626010	5-8A-41	Y	MARILYN ULBRICH CHALMERS AND ROD N CHAMBERS	820	506
Q078626011	5-8A-41	Y	BLYE ULBRICH JENSCHKE AND JIM JENSCHKE	819	305
Q078626012	5-8A-41	Y	JUSTIN SMITH	819	307
Q078626013	5-8A-41	Y	ROBERT LEE SMITH AND BETSY K SMITH	819	303
Q078626017	5-8A-41	y	SOUTHEASTERN GUIDE DOGS INC	820	516
Q078626023 Q078626025	5-8A-41	Y	BRYCE E ULBRICH AND EDNA M ULBRICH	825	298
	5-8A-41	Y	COURTNEY D HALL	829	147
Q078626026 Q078626036	5-8A-41	Y	BLASE JOSEPH ULCAK JR	829	127
	5-8A-41 5-8A-41	_	MARTHA FRANCES ULCAK	832	588
10*26619		Y	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY	1050	30
10*25698	5-8A-39	Z	KENNETH AND DAWN E MORRIS	1033	129
10*25752 10*26438	5-8A-39 5-8A-39	Z	DEBRA ANN AND EARL V BUTCHER	1033	315
		2	JANICE AND DONALD CROOK	1034	583
10*26439	5-8A-39	Z	NANCY LOUISE SNYDER	1034	588
Q078626001	5-8A-39	Z	LUCILLE E WINGROVE	810	80
Q078626003	5-8A-39	Z	JUNE MORRIS	808	301
Q078626006	5-8A-39	Z	BARBARA F DANIELS	813	246
Q078626007	5-8A-39	Z	JEFFREY BROOKS	813	540
Q078626008	5-8A-39	Z	ELAINE WILLIS	813	542
Q078626009	5-8A-39	Z	H JAY ULBRICH	819	309
Q078626010 Q078626011	5-8A-39	Z	MARILYN ULBRICH CHALMERS AND ROD N CHAMBERS	820	506
Q078626011	5-8A-39	2	BLYE ULBRICH JENSCHKE AND JIM JENSCHKE	819	305
Q078626012	5-8A-39	Z 2	JUSTIN SMITH	819	307
Q078626013	5-8A-39 5-8A-39	2	ROBERT LEE SMITH AND BETSY K SMITH	819	303
Q078626017		2	SOUTHEASTERN GUIDE DOGS INC	820	516
Q078626023	5-8A-39	2	BRYCE E ULBRICH AND EDNA M ULBRICH	825	298
Q078626025	5-8A-39	2	COURTNEY D HALL	829	147
Q078626026	5-8A-39	2	BLASE JOSEPH ULCAK JR	829	127
Q078626036 10*26619	5-8A-39 5-8A-39	Z	MARTHA FRANCES ULCAK	832	588
10*25698		-	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY	1050	30
10*25752	5-8A-40	AA	KENNETH AND DAWN E MORRIS	1033	129
10*26438	5-8A-40 5-8A-40	AA AA	DEBRA ANN AND EARL V BUTCHER	1033	315
10*26439	5-8A-40	AA	JANICE AND DONALD CROOK	1034	583
Q078626001	5-8A-40		NANCY LOUISE SNYDER	1034	588
Q078626003	5-8A-40	AA	LUCILLE E WINGROVE	810	80
Q078626006		AA	JUNE MORRIS	808	301
Q078626007	5-8A-40 5-8A-40	AA AA	BARBARA F DANIELS	813	246
Q078626008	5-8A-40	AA	JEFFREY BROOKS	813	540
Q078626009	5-8A-40	AA	ELAINE WILLIS	813	542
Q078626010	5-8A-40	AA	H JAY ULBRICH MARILYN ULBRICH CHALMERS AND ROD N CHAMBERS	819	309
Q078626010 Q078626011	5-8A-40	AA		820	506
Q078626012	5-8A-40	AA	BLYE ULBRICH JENSCHKE AND JIM JENSCHKE JUSTIN SMITH	819	305
Q078626013	5-8A-40	AA	ROBERT LEE SMITH AND BETSY K SMITH	819 819	307
Q078626017	5-8A-40	AA	SOUTHEASTERN GUIDE DOGS INC		
Q078626023	5-8A-40	AA	BRYCE E ULBRICH AND EDNA M ULBRICH	820	516
Q078626025	5-8A-40	AA	COURTNEY D HALL	825 829	298 147
Q078626026	5-8A-40	AA	BLASE JOSEPH ULCAK JR	829	127
Q078626036	5-8A-40	AA	MARTHA FRANCES ULCAK	832	588
10*26619	5-8A-40	AA	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY	1050	30
867770	5-8A-27	BB	CLARENCE S SIBURT AND MARY J SIBURT	715	195
Q076869000	5-8A-26	cc	EDWARD DAVID KNUTH AND KATHY JO KNUTH	803	598
Q078626027	5-8A-16	DD	BETTY JANE PARRIOTT, WIDOW	828	265
Q078626026	5-8A-16	OD	BLASÉ JOSEPH ULCAK JR., A SINGLE MAN	829	127
Q078626011	5-8A-16	DD	BLYE ULBRICH JENSCHKE AND JIM JENSCHKE	819	305
Q078626016	5-8A-16	DD	BRIAN EDWIN LEMASTERS AND BEVERLY J. LEMASTERS, HUSBAND AND WIFE	821	24
Q078626023	5-8A-16	DD	BRYCE E ULBRICH AND EDNA M ULBRICH	825	298
Q078626025	5-8A-16	DD	COURTNEY D HALL	829	147
Q078626015	5-8A-16	DD	DEBORAH D MERCER AND CLAVIN P MERCER	821	22
Q078626019	5-8A-16	DD	FRANCIS O. HALL A/K/A ORNETTA PARRIOTT, WIDOW	825	258
Q078626009	5-8A-16	DD	H. JAY ULBRICH, A SINGLE MAN	819	309
		DD	HARRY LEROY PARRIOTT AND NANCY S, PARRIOTT, HUSBAND AND WIFE		508
Q078626014	5-8A-16			820	
	5-8A-16 5-8A-16	DD	JANICE R. CROOK, A/K/A JANICE WINGROVE CROOK AND DONALD P. CROOK, A WFIE AND HUSBAND	820 808	305
Q078626014			JANICE R. CROOK, A/K/A JANICE WINGROVE CROOK AND DONALD P. CROOK, A WFIE AND HUSBAND JON DAVID FROMHART, SINGLE	820 808 805	305 580
Q078626014 Q078626005	5-8A-16 5-8A-16 5-8A-16	DD	THE MEDITAL TO THE ME	808	305 580 307
Q078626014 Q078626005 Q077358001	5-8A-16 5-8A-16	DD DD	JON DAVID FROMHART, SINGLE	808 805	
Q078626014 Q078626005 Q077358001 Q078626012 Q077358002 Q078626002	5-8A-16 5-8A-16 5-8A-16	DD DD DD	JON DAVID FROMHART, SINGE JUSTIN SMITH, A/K/A JUSTINE SMITH, A WIDOW	808 805 819	307
Q078626014 Q078626005 Q077358001 Q078626012 Q077358002	5-8A-16 5-8A-16 5-8A-16 5-8A-16	DD DD DD	JON DAVID FROMHART, SINGLE JUSTIN SMITH, A/K/A JUSTINE SMITH, A WIDOW JUNE MORRIS, A WIDOW KENNETH R. MORRIS AND DAWN E. MORRIS, HUSBAND AND WIFE KIMBERLY D. LAKE, A SINGLE WOMAN	808 805 819 829	307 26
Q078626014 Q078626005 Q077358001 Q078626012 Q077358002 Q078626012 Q078626018 Q078626010	5-8A-16 5-8A-16 5-8A-16 5-8A-16 5-8A-16	DD DD DD DD	JON DAVID FROMHART, SINGLE JUSTIN SMITH, A/K/A JUSTINE SMITH, A WIDOW JUNE MORRIS, A WIDOW KENNETH R. MORRIS DAWN E. MORRIS, HUSBAND AND WIFE	808 805 819 829 808	307 26 303 272
Q078626014 Q078626005 Q077358001 Q077358001 Q078626012 Q078626012 Q078626018 Q078626010 Q078626010	5-8A-16 5-8A-16 5-8A-16 5-8A-16 5-8A-16 5-8A-16	DD DD DD DD DD	JON DAVID FROMHART, SINGLE JUSTIN SMITH, A/K/A JUSTINE SMITH, A WIDOW JUNE MORRIS, A WIDOW KENNETH R. MORRIS AND DAWN E. MORRIS, HUSBAND AND WIFE KIMBERLY D. LAKE, A SINGLE WOMAN	808 805 819 829 808 825	307 26 303 272 506
Q078626014 Q078626005 Q077358001 Q077358002 Q078626012 Q078626002 Q078626002 Q078626010 Q078626010 Q078626016 Q078626016	5-8A-16 5-8A-16 5-8A-16 5-8A-16 5-8A-16 5-8A-16 5-8A-16	DD DD DD DD DD DD DD	JON DAVID FROMHART, SINGLE JUSTIN SMITH, A/K/A JUSTINE SMITH, A WIDOW JUNE MORRIS, A WIDOW KENNETH R. MORRIS AND DAWN E. MORRIS, HUSBAND AND WIFE KIMBERLY D. LAKE, A SINGLE WOMAN MARILYN ULBRICH CHALMERS AND ROD N. CHALMERS, WIFE AND HUSBAND	808 805 819 829 808 825 820	307 26 303 272 506 588
Q078626014 Q078626005 Q077358001 Q078626012 Q077358002 Q078626002 Q078626018 Q078626010 Q078626036	5-8A-16 5-8A-16 5-8A-16 5-8A-16 5-8A-16 5-8A-16 5-8A-16 5-8A-16	DD	JON DAVID FROMHART, SINGLE JUSTIN SMITH, A/K/A JUSTINE SMITH, A WIDOW JUNE MORRIS, A WIDOW KENNETH R. MORRIS AND DAWN E. MORRIS, HUSBAND AND WIFE KIMBERLY D. LAKE, A SINGLE WOMAN MARILYN ULBRICH CHALMERS AND ROD N. CHALMERS, WIFE AND HUSBAND MARTHAT PRANCES LICAK, A SINGLE WOMAN	808 805 819 829 808 825 820 832	307 26 303 272 506 588 164
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QU78626014 QU79826005 QU77388001 QU77388001 QU77388001 QU77388002 QU77388002 QU77388002 QU798626010	S-8A-16	DD	JON DAVID FROMHART, SINGLE JUSTIN SMITH, A/K/A JUSTINE SMITH, A WIDDOW JUNE MORRIS, A WIDDOW KENNETH R. MORRIS AND DAWN E. MORRIS, HUSBAND AND WIFE KIMBERLY D. LAKE, A SINGLE WOMAN MARILYA LUBRICH CHALMERS AND ROD N. CHALMERS, WIFE AND HUSBAND MARTHA FRANCES LUCAK, A SINGLE WOMAN MARYL PARRIOTT, A WIDDOW NANCY L SNYDER, A/K/A NANCY WINGROVE SNYDER, A WIDDOW PATICILA PARRIOTT, A WIDDOW ROBERT LEE SMITH AND BETSY K. SMITH, HUSBAND AND WIFE SOUTHEASTERN GUIDE DOGS INC., ITIUS HERMAN CEO TIMOTHY SCOTT LEMASTERS AND ANY C. LEMASTERS, HUSBAND AND WIFE TRUDY B. SAMPSON AND DANNY SAMPSON, WIFE AND HUSBAND BETTY JAIR PARRIOTT, A WIDDOW BLASE JOSEPH JUCAK JR., A SINGLE MAN BIYE UBBRICH JENSCHIE AND JIMJENSCHKE BRIAN EDWIN LEMASTERS AND BEVERLY J. LEMASTERS, HUSBAND AND WIFE BRYCE GUISHICH AND EDWA M ULBRICH COURTNEY O HALL DEBORAH D MERCER AND CLAVIN P MERCER FRANCIS O. HALL A/K/A ORNETIA PARRIOTT, WIDOW H. JAY LUBRICH, A SINGLE MAN	808 805 819 829 808 825 827 802 827 802 829 819 829 829 821 829 821 829 821 829 821 821 823 824 825 826 827 827 828 829 829 820 821 821 822 823 824 825 826 826 826 827 827 827 828 828 828 828 828 828 828	307 26 303 272 556 588 164 309 270 303 516 260 265 24 298 147 258 309
QU78626014 QU78626005 QU77586001 QU77586001 QU77586001 QU77586002 QU77586002 QU77586002 QU77686010	5-8A-16	DD	JON DAVID FROMHART, SINGLE JUSTIN SMITH, A/K/A JUSTINE SMITH, A WIDOW JUNE MORRIS, A WIDOW KENNETH R. MORRIS AND DAWN E. MORRIS, HUSBAND AND WIFE KIRLERY D. LAKE, A SINGLE WOMAN MARILYA LUBRICH CHALMERS AND ROD N. CHALMERS, WIFE AND HUSBAND MARTHA FRANCES U.C.AK, A SINGLE WOMAN MARYL PARRIOTT, A WIDOW NANCY L. SNYDER, A/KA NANCY WINGROVE SNYDER, A WIDOW PATRICIA PARRIOTT, A WIDOW ROBERT LEE SMITH AND BEFSY K. SMITH, HUSBAND AND WIFE SOUTHEASTERN GUIDE DOGS INC., TITUS HERMAN CEO TIMOTHY SCOTT LEMASTERS AND ARV C. LEMASTERS, HUSBAND AND WIFE TRUDY B. SAMPSON AND DANNY SAMPSON, WIFE AND HUSBAND BETTY JANE PARRIOTT, WIDOW BLASÉ JOSEPH ULCAK JR., A SINGLE MAN BIYE UBRICH JENSCHIER AND HUSBAND BRIAN EDWIN LEMASTERS AND BEVERLY J. LEMASTERS, HUSBAND AND WIFE BRIAN EDWIN LEMASTERS AND BEVERLY J. LEMASTERS, HUSBAND AND WIFE BRIAN EDWIN LEMASTERS AND BEVERLY J. LEMASTERS, HUSBAND AND WIFE BRIAN EDWIN LEMASTERS AND BEVERLY J. LEMASTERS, HUSBAND AND WIFE BRIAN EDWIN LEMASTERS AND BEVERLY J. LEMASTERS, HUSBAND AND WIFE BRIAN EDWIN LEMASTERS AND BEVERLY J. LEMASTERS, HUSBAND AND WIFE BRIAN EDWIN LEMASTERS AND BEVERLY J. LEMASTERS, HUSBAND AND WIFE BRIAN EDWIN LEMASTERS AND BEVERLY J. LEMASTERS, HUSBAND AND WIFE BRIAN EDWIN LEMASTERS AND BEVERLY J. LEMASTERS, HUSBAND AND WIFE FRANCIS O. HALL A/KA, ORNETIA PARRIOTT, WIDOW H. JAY UBRICH, A SINGLE MAN HARRY LEROY PARRIOTT AND NANCY S. PARRIOTT, HUSBAND AND WIFE JANICE R. CROOK, A/K/A JANICE WINGROW CROOK AND DOWALD P. CROOK, A WHE AND HUSBAND	808 805 819 829 808 825 820 827 832 827 828 828 829 821 820 827 825 825 826 827 827 827 828 829 829 829 829 829 829 829 829 829	307 26 303 272 506 588 164 309 309 303 516 162 265 265 225 305 24 298 147 22 28 309 309 309 309 309 309 309 309 309 309
QU78626014 QU78626015 QU7758601 QU7758601 QU77586010 QU77586012 QU77666012 QU77666010	S-8A-16	SD	JON DAVID FROMMART, SINGLE JUSTIN SMITH, A/K/A JUSTINE SMITH, A WIDOW JUNE MORRIS, A WIDOW KENNETH R. MORRIS AND DAWN E. MORRIS, HUSBAND AND WIFE KIMBERLY D. LAKE, A SINGLE WOMAN MARILYA ULBRICH CHALMERS AND ROD N. CHALMERS, WIFE AND HUSBAND MARTHA FRANCES UC.CA, A SINGLE WOMAN MARYL PARRIOTT, A WIDOW NANCY L. SNYDER, A/K/A NANCY WINGROVE SNYDER, A WIDOW PATRICIA PARRIOTT, A WIDOW ROBERT LEE SMITH AND BEFY K. SMITH, HUSBAND AND WIFE SOUTHEASTERN GUDE DOGS INC., TITUS HERNAN CEO TIMOTHY SCOTT LEMASTERS AND AMY C. LEMASTERS, HUSBAND AND WIFE TRUDY B. SAMPSON AND DANNY SAMPSON, WIFE AND HUSBAND BETTY JANE PARRIOTT, WIDOW BLASÉ JOSEPH LICKAN, R.A, SINGLE MAN BUYE UBRICH JENSCHKE AND JIMJENSCHKE BRIAN EDWIN LEMASTERS AND BEVERLY J. LEMASTERS, HUSBAND AND WIFE COURTINEY D HALL DEBORAH D MERCER AND DEDNAM M ULBRICH COURTINEY D HALL DEBORAH D MERCER AND DEDNAM M ULBRICH FRANCIS O. HALL A/K/A ORNETTA PARRIOTT, WIDOW H. JAY ULBRICH, JE SINGLE MAN HARRY LERGY PARRIOTT AND MANCY S. PARRIOTT, HUSBAND AND WIFE	808 805 819 829 808 825 827 808 822 827 808 828 829 820 827 828 829 820 827 825 828 829 820 827 825 829 820 827 828 829 820 821 822 823 824 825 826 827 827 828 829 820 820 820 820 820 820 820 820 820 820	3077 26 3033 3033 2722 5566 5888 1646 1622 2702 3033 3033 1662 2605 2605 2702 248 222 248 2505 2605 2702 2702 2702 2702 2702 2702 2702 27



P.S. David L Jackson



OPERATOR'S

WELL#: Michter N-8HU

DISTRICT: Franklin
COUNTY: Marshall

STATE: WV

API #: 47 - 051- 02219

WELL PLAT

PAGE 6 OF 7

DATE: 06/13/2019

MICHTER LEASE WELL N-8HU 436.4438± ACRES

61-02219

Lease ID	Parcel	Tag	Grantor, Lessor, Etc.	Deed Bo	
Q078626018	5-8A-16	DD	KIMBERLY D. LAKE, A SINGLE WOMAN	825	272
Q078626010	5-8A-16	DD	MARILYN ULBRICH CHALMERS AND ROD N. CHALMERS, WIFE AND HUSBAND	820 832	506 588
Q078626036 Q078626021	5-8A-16 5-8A-16	DD	MARTHA FRANCES ULCAK, A SINGLE WOMAN MARY L PARRIOTT, A WIDOW	832	164
Q078626004	5-8A-16	DD	NANCY L. SNYDER, A/K/A NANCY WINGROVE SNYDER, A WIDOW	808	309
Q078626028	5-8A-16	DD	PATRICIA PARRIOTT, A WIDOW	828	270
Q078626013	5-8A-16	DD	ROBERT LEE SMITH AND BETSYK, SMITH, HUSBAND AND WIFE	819	303
10*26619	5-8A-16	DD	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY	1050	30
Q078626017	5-8A-16	DD	SOUTHEASTERN GUIDE DOGS INC., TITUS HERMAN CEO	820	516
Q078626022	5-8A-16	DD	TIMOTHY SCOTT LEMASTERS AND AMY C. LEMASTERS, HUSBAND AND WIFE	827	162
Q078626020	5-8A-16	DD	TRUDY B. SAMPSON AND DANNY SAMPSON, WIFE AND HUSBAND	825	260
Q076469000	5-8A-15	EE	JUNE MORRIS	802	275
Q078626009	5-8A-15	EE	H JAY ULBRICH	819	309
Q078626010	5-8A-15	EE	MARILYN ULBRICH CHALMERS AND ROD N CHAMBERS	820	506
Q078626011	5-8A-15	EE	BLYE ULBRICH JENSCHKE AND JIM JENSCHKE	819	305
Q078626012	5-8A-15	EE	JUSTIN SMITH	819	307
Q078626013	5-8A-15	EE	ROBERT LEE SMITH AND BETSY K SMITH	819	303
Q078626014	5-8A-15	EE	HARRY LEROY PARRIOTT AND NANCY'S PARRIOTT	820	508
Q078626015	5-8A-15	EE	DEBORAH D MERCER AND CLAVIN P MERCER BRIAN EDWIN LEMASTERS ET UX	821 821	22
Q078626016	5-8A-15 5-8A-15	EE	KIMBERLY D LAKE	825	272
Q078626018 Q078626020	5-8A-15	EE	TRUDY B SAMPSON ET VIR	825	260
Q078626021	5-8A-15	EE	MARYLPARRIOTT	827	164
Q078626022	5-8A-15	EE	TIMOTHY SCOTT LEMASTERS AND AMY C LEMASTERS	827	162
Q078626023	5-8A-15	EE	BRYCE E ULBRICH AND EDNA M ULBRICH	825	298
10*26619	5-8A-15	EE	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY	1050	30
Q078626025	5-8A-15	EE	COURTNEY D HALL	829	147
Q078626026	5-8A-15	EE	BLASE JOSEPH ULCAK JR	829	127
Q078626027	5-8A-15	EE	BETTY JANE PARRIOTT	828	265
Q078626028	5-8A-15	EE	PATRICIA PARRIOTT	828	270
Q078626029	5-8A-15	EE	SOUTHEASTERN GUIDE DOGS INC	828	305
Q078626030	5-8A-15	EE	FRANCES O HALLAKA ORNETTA PARRIOTT	839	133
Q078626032	5-8A-15	EE	KENNETH MORRIS AND DAWN E MORRIS	829	43
Q078626033	5-8A-15	EE	LUCILLE E WINGROVE	829	45
Q078626034	5-8A-15	EE	JANICE R CROOK AKA JANICE WINGROVE CROOK AND DONALD P CROOK	831	60
Q078626035	5-8A-15	EE	NANCY LSNYDER AKA NANCY WINGROVE SNYDER	831	56
Q0/8626036	5-8A-15	EE	MARTHA FRANCES ULCAK	832	588
Q078626037	5-8A-15	EE	DEBRA ANN AND EARL V BUTCHER	839	215
Q083831000	5-7-29	FF	JAMES K PERSINGER AND TONDA J PERSINGER	836	460
Q08383100	5-7-27	GG	JAMES K PERSINGER AND TONDA J PERSINGER	836	460
Q082348000	5-7-27.1	HH	MARK L RITER AND MICHELLE A RITER	821	26
Q096159000	5-7-23	11	MARTHA F POWELL	881	21
Q097423000	5-7-23.2	11	ROBERT L HENRY JR AND GEORGEANNA HENRY ET AL	890	613
Q091953000	5-7-23.1	KK	PATRICIA Y DARRAH	860	552
10*26015	5-7-22	ш	BUSTAMANTE JESUS ET UX	734	263
10*26015	5-7-28,1	MM	BUSTAMANTE JESUS ET UX	734	263
Q097973000	5-7-28	NN	THELMA M. ROUPE	890	313
624124	5-7-15	00	KIRKMAN, CASPER SANFORD; KIRKMAN, LILLIAN E	311	390
PENDING	5-8-2 5-7-17	QQ.	CNX GAS COMPANY LLC DEBORA L. BENNETT	1039 546	58
Q097217000 Q097217000	5-7-18.1	RR	MILLER, ADAM & MARY	311	333
Q097217000 Q097217000	5-7-16	SS	MILLER, ADAM & MARY	311	333
Q097218000	5-7-14.2	π	LACY MIDCAP ET AL	311	324
Q097218000	5-7-14.3	UU	LACY MIDCAP ET AL	311	324
LEASE SHOWN IN GIS	5-7-14	VV	LACY MIDCAP ET AL	311	324
Q097217000	5-7-18	ww	MILLER, ADAM & MARY	311	333
Q097216000	5-7-21	XX	WOLFE, BLAINE & VIVIAN ET AL	312	100
0.097220000	5-7-21	xx	WILLIS RINE ET UX	311	344
Q097423000	5-7-45	YY	ROBERT L HENRY JR AND GEORGEANNA HENRY ET AL	890	61:
Pending	5-7-3.2	72	WHEELING POWER COMPANY & KENTUCKY POWER COMPANY	1040	10
624083	5-7-4	AAA	LLOYD Q & MARY WOLFE GATTS	290	94
Q076636002	5-7-5.1	888	BRUCE SCOTT SCHMITT & JERRI MARIE BLANEY	813	24
Q076636003	5-7-5.1	BBB	ALAN GREGORY SCHMITT & LINDA LEE SCHMITT	813	531
	5-7-5.1	BBB	GEORGE A. KNUTH	819	291
Q076636004	5-7-5.1	BBB	CYNTHIA JEAN WARD & DALE P. WARD	816	26
Q076636005	5-7-5.1	BBB	SAMUELO. COEN JR.	816	25
Q076636006	5-7-5.1	888	MARK ALAN DELBRUGGE & PATRICIA A. DELBRUGGE	820	51.
Q076636007	5-7-5.1	888	WALTER L. DELBRUGGE JR & NORA L. DELBRUGGE	820	51
Q076636008	5-7-5.1	888	WILLIAM D. MARTIN & ANDREA R. MARTIN	819	29
Q076636009	5-7-5.1	BBB	KIMBERLY ANN DELBRUGGE DECREASE & VINCENT J. DECREASE	825	34
Q076636010	5-7-5.1	BB8	SUZANNE Q. PAVUC AKA SUZANNE DELBRUGGE PAVUC	825	26.
Q076636011	5-7-5.1	888	MARGARET LYNN DELBRUGGE WATSON & JAMES W. WATSON	825	26
Q076636012	5-7-5.1	BBB	JANE LOU WILLIAMS AKA JANE LOU DELBRUGGE WILLIAMS & LAURENCE P, WILLIAMS	825	28
Q076636013	5-7-5.1	BBB	BEATRICE J. SCHMITT	828	29
Q090257000	5-7-5	CCC	KNUTH, GEORGE A & KELLY A	671	38
Q074011007	5-6-3.1	000	SUSAN WITTEN NEAL MYERS ET AL	815	37
Q074011008 Q074011003	5-6-3.1	DDD	JANE WITTEN VOTH JOSEPH MOORE NEAL	853 859	30 51
Q074011003 Q074011006	5-6-3.1 5-6-3.1	DDD	FRANCES GALE NEAL	851	21
Q074011006 Q074011005	5-6-3.1	DDD	ANN ALEXANDER	853	31
Q074011005 Q074011013	5-6-3.1 5-6-3.1	DDD	MARY WITTEN NEAL WISEMAN	851	21
624074	5-6-3.1	DDD	GATTS, AUCE	282	39
624080	5-6-3.1	DDD	GATTS, ELIZABETH R J & HARLEY	290	97
624074	5-7-2	EEE	GATTS, ALICE	282	39
624074	5-6-3	FFF	GATTS ALICE	282	39
624080	5-6-3	FFF	GATTS, ELIZABETH RJ & HARLEY	290	9
624083	5-6-3	FFF	GATTS, LLOYD Q & MARY WOLFE	290	94
624150	5-6-3	FFF	RINE, G W & BESSIE J	313	20
Q074011007	5-6-3	FFF	SUSAN WITTEN NEAL MYERS ET AL	815	37
Q074011008	5-6-3	FFF	JANE WITTEN VOTH	853	30
Q074011003	5-6-3	FFF	JOSEPH MOORE NEAL	859	51
Q074011006	5-6-3	FFF	FRANCES GALE NEAL	851	21
Q074011005	5-6-3	FFF	ANN ALEXANDER	853	31
Q074011013	5-6-3	FFF	MARY WITTEN NEAL WISEMAN	851	21
Q074011002	5-6-3	FFF	DOROTHY ANN NEAL	851	39
Q074011004	5-6-3	FFF	MARGERY J. WITTEN	851	39
624080	5-6-5	GGG	GATTS, ELIZABETH R J & HARLEY	290	9
624073	5-6-6	ннн	STEIGNER, FREDERICK J; STEIGNER, ANNA KATHERYNE	282	6:
				322	
Q090311000	5-6-6	ННН	ASHLAND OIL & REFINING CO.	277	-
	5-6-6 5-6-1	HHH Ill	ASHLAND OIL & REFINING CO. ASHLAND OIL & REFINING CO.	277	49





OPERATOR'S

WELL#: Michter N-8HU

DISTRICT: Franklin COUNTY: Marshall

STATE: WV

API#: 47 - 051- 02219

WELL PLAT

PAGE 7 OF 7

DATE: 06/13/2019

Operator's Well No. Michter N-8HU

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or	94			
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page

*See attached pages

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator:	Tug Hill Operating, LLC
By:	Amy L. Miller Mysblulle
Its:	Permitting Specialist - Appalachia Region

Page 1 of ____

Operator'
s Well No
. Michter
N-8HU

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10*21546	10*47051.105.0	10*19237	10*19236	10*19219	10*19167	10*19167	10*19127	10*47051.089.0	10*22810	10*22808	10*22801	10*22788	10*22787	10*22786	10*22780	10*22777	10*22773	10*22667	Lease ID 10*47051.089.0
5-8-7	5-8-9	5-8-9.1	5-8-9.1	5-8-9.1	5-11-1.2	5-11-1.3	5-11-2	5-11-1.4	5-11-21	5-11-21	5-11-21	5-11-21	5-11-21	5-11-21	5-11-21	5-11-21	5-11-21	5-11-21	Parcel 5-11-1.1
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EDWIN C MILLER AND KIMBERLY ANN MILLER	JAMES B JACKSON JR AND MARION L JACKSON	MARION L JACKSON	TAMMIE S JACKSON	SCOTT E JACKSON	JAY A CONNER PATTY LOUISE CONNER	JAY A CONNER PATTY LOUISE CONNER	WALTER C RINE AND CHERYL A RINE	LARRY W DUNLAP AND BARBARA E DUNLAP	CLYDE V. & KAREN S REED	SHIRLEY YATES HARTSELL AND FREDDIE LEE HARTSELL	BOYD DAIL YATES JR AND MARLA YATES	GENIE SUE THOMAS HOLMES AND JOHN L HOLMES	GAIL ANN YATES WOOD AND WESLEY J WOOD	GUY YATES	BRENDA FAVE THOMAS PETRACK	BOYD BUESKING	CHRISTA DRAYER STALEY AND JOSHUA STALEY	REBEKAH DRAYER ELDRIDGE AND CHRISTOPHER ELDRIDGE	Grantor, Lessor, Etc. LARRY W DUNLAP AND BARBARA E DUNLAP
TH EXPLORATION LLC	TH EXPLORATION LLC	TRIENERGY HOLDINGS LLC	TRIENERGY HOLDINGS LLC	TRIENERGY HOLDINGS LLC	CHESAPEAKE APPALACHIA LLC	CHESAPEAKE APPALACHIA LLC	CHEVRON USA INC	TH EXPLORATION LLC	NOBLE ENERGY INC	TH EXPLORATION LLC									
1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+
957	859	735	749	731	724	724	956	864	864	848	848	848	848	848	850	850	851	850	864
257	478	427	213	102	156	156	49	148	190	212	210	204	208	206	161	159	ω	157	864 148
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Assignment N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Assignment N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	TriEnergy Holdings LLC to NPAR LLC: 25/449	TriEnergy Holdings LLC to NPAR LLC: 25/449	TriEnergy Holdings LLC to NPAR LLC: 25/449	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	NPAR LLC to Chevron USA Inc: 756/332	NPAR LLC to Chevron USA Inc: 756/332	NPAR LLC to Chevron USA Inc: 756/332	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Assignment N/A
N/A	N/A	LLC & TriEnergy Holdings LLC & TriEnergy Inc to Chevron USA Inc: 28/348	TriEnergy Holdings LLC & TriEnergy Inc to Chevron USA Inc: 28/348		Chesapeake Appalachia LLC to Chevron USA Inc: 30/392	Chesapeake Appalachia LLC to Chevron USA Inc: 30/392	N/A	N/A	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	N/A
N/A	N/A	Chevron Exploration 40/127	Chevron USA Inc to TH Exploration LLC: 40/127	TriEnergy Holdings LLC & TriEnergy Inc to Chevron USA Inc to TH Chevron USA Inc: Exploration LLC: 28/348 40/127	Chevron USA Inc to TH Exploration LLC: 40/127	Chevron USA Inc to TH Exploration LLC: 40/127	Chevron USA Inc to TH Exploration LLC: 40/127	N/A	HG Energy II Appalachia LLC to TH Exploration LLC: 41/398			HG Energy II Appalachia LLC to TH Exploration LLC: 41/398	HG Energy II Appalachia LLC to TH Exploration LLC: L 41/398	-	HG Energy II Appalachia LLC to TH Exploration LLC: 41/398	_			N/A

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LORNA MARIE LEW	SARA B ANDERSON AND ARTHUR A ANDERSON	FRANCES E. NIEMAN	WEST VIRGINIA DIVISION OF NATURAL RESOURCES	EUZABETH ANNE MOORE	WILLIAM N ROUPE AND VIRGINIA A ROUPE	WILLIAM N. ROUPE AND VIRGINIA A ROUPE	RANDI L PECK	RANDYLYN MOORE LINDA G MOORE	WILLIAM S ADAMS MARY K ADAMS	PAUL WHITT AND SANDY WHITT	Grantor, Lessor, Etc.
NOBLE ENERGY INC	NOBLE ENERGY INC	AB RESOURCES LLC	NOBLE ENERGY INC	NOBLE ENERGY INC	TH EXPLORATION LLC	TRIENERGY HOLDINGS LLC	СНЕЅАРБАКЕ АРРАГАСНІА ЦС	СНЕЅАРБАКЕ АРРАЈАСНІА ЦС	TRIENERGY HOLDINGS LLC	CHESAPEAKE APPALACHIA LLC	Grantee, Lessee, Etc.
1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	Royalty
890	890	685	865	806	977	711	716	717	711	715	Deed Bo
602	310	288	558	302	367	503	26	46	318	565	Deed Book/Page
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/N	N/A	Assignment
A/N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Assignment
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Assignment
N/A	N/A	N/A	N/A	N/A	N/A	TriEnergy Holdings LLC to NPAR LLC: 24/430	N/A	N/A	N/A	N/A	Assignment
Noble Energy Inc to CNX Gas Company LL CNX Gas Company LLC: to Noble Energy Inc: 36/409	Noble Energy Inc to CNX Gas Company LLC 36/409	N/A	N/A	N/A	N/A	AB Resources LLC & NPAR LLC to Chief Exploration & Development LLC & Radler 2000 LP:	N/A	N/A	AB Resources LLC & NPAR LLC to Chief Exploration & Exploration & Chief Exploration & C	N/A	Assignment
CIXX Gas Company LLC Noble Energy Inc to Noble Energy Inc: HG Energy II	Noble Energy Inc to CNX Gas Company LLC Noble Energy Inc to CNX Gas Company LLC: Noble Energy Inc: HG Energy II GENERGY I GENERAL GENERGY I GENERGY I GENERGY I GENERAL GENERGY I GENERAL GENERGY I GENERAL GENERGY I GENERAL GENERAL GENERGY I GENERGY I GENERAL GE	AB Resources LLC & NPAR LLC to Chief Exploration & Development LLC & Radler 2000 LP: 24/466	N/A	N/A	N/A	Chief Exploration, Chief O&G LLC, Radler 2000 LP & Enerplus Resources Corp. to Chevron USA Inc: 25/1 & 25/105	Chesapeake Chesap Appalachia LLC to Appala Statoil USA Onshore Chevro Properties Inc: 25/582 30/392	Chesapeake Appalachia LLC to Appalachia LLC to Statoii USA Onshore Chevron USA Inc: 24/204 30/392	Chief Exploration AB Resources LLC & Chief O&G LLC, NPAR LLC to Chief Exploration & Resources Corp Development LLC & Chevron USA In Radier 2000 IP 24/466 25/1 & 25/105	N/A	Assignment
C Noble Energy Inc to HG Energy II	H-	Chief Exploration, Chief O&G LLC, Radler 2000 LP & Enerplus Resources Corp. to Chevron USA Inc: 25/105		Noble Energy Inc to HG Energy II	N/A	NPAR LLC to Chevron USA Inc: 756/332	Chesapeake Appalachia LLC to Chevron USA Inc: 2 30/392	Chesapeake Appalachia LLC to Chevron USA Inc: 430/392	Chief Exploration & Development LLC, Chief O&G LLC, Radler 2000 LP, & Enerplus Resources Corp to Chevron USA Inc:	N/A	Assignment
Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	AB Resources LLC to Chevron USA Inc: 756/397	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB	N/A		Statoil USA Onshore Properties Inc to Chevron USA Inc: 30/404	Statoil USA Onshore Properties Inc to Chevron USA Inc: 30/404	Pr NPAR LLC to Chevron USA Inc. 756/332	Chesapeake Appalachia LLC to Chevron USA Inc: 30/392	Assignment
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Chevron USA Inc to TH Exploration LLC: 40/127	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memocrandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	N/A	TriEnergy Holdings LLC & TriEnergy Inc to Chevron USA Inc to TH Exploration LLC: 28/356 40/127	Chevron USA Inc to TH Exploration LLC: 40/127	Chevron USA Inc to TH Exploration LLC: 40/127	Chevron USA Inc to TH Exploration LLC: 40/127	Chevron USA Inc to TH Exploration LLC: 40/127	Assignment

Operator's
Well No.
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5-80-45	5-8A-45	5-8A-45	5-8A-45	5-8A-45	5-8A-47	5-8A-47	5-8A-47	5-8A-47	Parcel
ω	s	v	s	v	R	Z.	R	20	Tag
CHARLES EDWIN BLUE IV	VICTORIA A PAKROVSKY AND STEPHEN W PAKROVSKY	MARJORIE B KIDD AND ROBERT C KIDD	LORNA MARIE LEW	SARA B ANDERSON AND ARTHUR A ANDERSON	THOMAS DANIEL BLUE AND JOSEPHINE M BLUE (HG Energy - FEE)	CHARLES EDWIN BLUE IV	VICTORIA A PAKROVSKY AND STEPHEN W PAKROVSKY	MARJORIE B KIDD AND ROBERT C KIDD	Grantor, Lessor, Etc.
NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	Grantee, Lessee, Etc.
1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	Royalty
890	890	890	890	890	898	890	890	890	Deed Bo
316	599	596	602	310	584	316	599	596	Deed Book/Page
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Assignment
A/N	N/A	N/A	N/A	N/N	N/A	N/A	N/A	N/A	Assignment
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Assignment
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Assignment
Noble Energy Inc to CNX Gas Company LLC 36/409	Noble Energy inc to CNX Gas Company LLC	Noble Energy Inc to CNX Gas Company LLO	Noble Energy Inc to CNX Gas Company LIA	Noble Energy Inc to CNX Gas Company Ltd 36/409	Noble Energy Inc to CNX Gas Company Ltd 36/409	Noble Energy Inc to CNX Gas Company Ltd 36/409	Noble Energy Inc to CNX Gas Company LU 36/409	Noble Energy Inc to CNX Gas Company LU 36/409	Assignment
Noble Energy Inc to CNX Gas Company LLC Noble Energy Inc to CNX Gas Company LLC: HG Energy II GN409 37/169 Appalachia LLC: 39/	Noble Energy Inc to CNX Gas Company LLC Noble Energy Inc to CNX Gas Company LLC: to Noble Energy Inc: HG Energy II 36/409 37/169 Appalachia LLC: 39/	Noble Energy Inc to CNX Gas Company LLC Noble Energy Inc to CNX Gas Company LLC: to Noble Energy Inc: HG Energy II 46G Papalachia LLC: 39/	Noble Energy Inc to CNX Gas Company LLC Noble Energy Inc to CNX Gas Company LLC: to Noble Energy Inc: HG Energy II 36/409 37/169 Appalachia LLC: 39/	Noble Energy Inc to CNX Gas Company LLC Noble Energy Inc to CNX Gas Company LLC: to Noble Energy Inc: HG Energy II 46 Energy II 47/169 Appalachia LLC: 39/	Noble Energy Inc to CNX Gas Company LLC Noble Energy Inc to CNX Gas Company LLC: to Noble Energy Inc: HG Energy II 36/409 37/169 Appalachia LLC: 39/	Noble Energy Inc to CNX Gas Company LLC Noble Energy Inc to CNX Gas Company LLC: to Noble Energy Inc: HG Energy II GR GA409 37/169 Appalachia LLC: 39/	Noble Energy Inc to CNX Gas Company LLC Noble Energy Inc to CNX Gas Company LLC: to Noble Energy Inc: HG Energy II 36/409 37/169 Appalachia LLC: 39/	Noble Energy Inc to CNX Gas Company LLC Noble Energy Inc to CNX Gas Company LLC: to Noble Energy Inc: HG Energy II 35/409 37/169 Appalachia LLC: 39/	Assignment
1	C Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	12	 	12	H-1	C Noble Energy Inc to HG Energy II	H ₁		Assignment
	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Manighten
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of

Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286		Noble Energy Inc to HG Energy II	N/A	N/A	N/A	N/A	N/A	N/A	596	890	1/8+	NOBLE ENERGY INC	T MARJORIE B. KIDD AND ROBERT C. KIDD, WIFE AND HUSBAND	5-8A-49	Q097976005
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Noble Energy Inc to EH GEnergy II HA Appalachia LLC: MB A 34/392	Noble Energy Inc to HG Energy II	N/A	N/A	N/A	N/A	N/A	N/A	602	890	1/8+	NOBLE ENERGY INC	T LORNA MARIE LEW	5-8A-49	Q097976004
				FORCE POOL					N/A	N/A	1/8+	UNLEASED	T SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY	5-8A-49	N/A
	1			*FORCE POOL*					N/A	+	1/8+	UNLEASED		5-8A-49	N/A
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286			N/A	N/A	N/A	N/A	N/A	A/N	316		1/8+	NOBLE ENERGY INC		5-8A-49	0.097975007
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286		Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	N/A	N/A	N/A	N/A	N/A	Ν/Α	599		1/8+	NOBLE ENERGY INC		5-8A-49	Q097976006
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Noble Energy Inc to HG Energy II HA Energy II Appalachia LLC: MB // 34/392		N/A	N/A	N/A	N/A	N/A	N/A	310	890	1/8+	NOBLE ENERGY INC	T SARA B. ANDERSON AND ARTHUR A. ANDERSON, WIFE AND HUSBAND	5-8A-49	Q097976001
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Noble Energy Inc to HG Energy II Appalachia LLC: MB / 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	N/A	N/A	N/A	N/A	N/A	N/A	596	890	1/8+	NOBLE ENERGY INC	MARJORIE B. KIDD AND ROBERT C. KIDD, WIFE AND HUSBAND	5-8A-49	Q097976005
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	y Inc to		N/A	N/A	N/A	N/A	N/A	N/A			1/8+	NOBLE ENERGY INC		5-8A-49	Q097976004
Memorandum of Operating Agreement between TH Exploration ILC and HG Energy II Appalachia, ILC: 988/286	Noble Energy Inc to HG Energy II Appalachia LLC: MB //	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	N/A	N/A	N/A	N/A	N/A	N/A			1/8+	NOBLE ENERGY INC		5.8A.49	0.097976007
				FORCE POOL					N/A	+ N/A	1/8+	TH EXPLORATION LLC	T SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY	5-8A-49	N/A
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	7B '0	C Noble Energy Inc to HG Energy II		Noble Energy Inc to CNX Gas Company LLC: 36/409	N/A	N/A	N/A	N/A	584		1/8+	MOBIE ENERGY INC		5-8A-45	Q099899000
Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Deed Book/Page	П	Royalty	Grantee, Lessee, Etc.	Tag Grantor, Lessor, Etc.	Parcel	Lease ID

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	c	C	C	С	C	C	C	7	T	Ţ	Tag
Charles Edwin Blue, IV, dealing in his sole and separate property	BARBARA LOUELLEN ROSE AND MARY LOU ROSE, JTROS	THOMAS DANIEL BLUE AND JOSEPHINE M BLUE (HG Energy-FEE)	CHARLES EDWIN BLUE IV	VICTORIA A PAKROVSKY AND STEPHEN W PAKROVSKY	MARJORIE B KIDD AND ROBERT C KIDD	LORNA MARIE LEW	SARA B ANDERSON AND ARTHUR A ANDERSON	VICTORIA A. PAKROVSKY AND STEPHEN W. PAKROVSKY, WIFE AND HUSBAND	SOUTHEASTERN GUIDE DOGS INC.	SARA B. ANDERSON AND ARTHUR A. ANDERSON, WIFE AND HUSBAND	Grantor, Lessor, Etc.
NOBLE ENERGY INC	UNLEASED	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	TH EXPLORATION LLC	NOBLE ENERGY INC	Grantee, Lessee, Etc.
1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	Royalty
890	N/A	898	890	890	890	890	890	890	PEN	890	Deed Bo
316	N/A	584	316	599	596	602	310	599	PENDING	310	Deed Book/Page
N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Assignment
N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Assignment
N/A		N/A	N/A	N/A	N//A	N/A	N/A	N/A	N/A	N/N	Assignment
N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Assignment
Noble Energy Inc to CNX Gas Company LLC: 36/409	*FORCE POOL*	Noble Energy Inc to CNX Gas Company LU 36/409	Noble Energy inc to CNX Gas Company Lu 36/409	Noble Energy Inc to CNX Gas Company LLC: 36/409	Noble Energy Inc to CNX Gas Company LLC: 36/409	Noble Energy Inc to CNX Gas Company LL 36/409	Noble Energy Inc to CNX Gas Company LL 36/409	N/A	N/A	N/A	Assignment
		Noble Energy Inc to CNX Gas Company LL CNX Gas Company LLC: to Noble Energy Inc: 36/409 37/169	Noble Energy Inc to CNX Gas Company LL CNX Gas Company LLC: to Noble Energy Inc: 36/409 37/169			Noble Energy Inc to CNX Gas Company LL CNX Gas Company LLC: to Noble Energy Inc: 35/169	CNX Gas Company L C: to Noble Energy Inc:	N/A	N/A	N/A	Assignment
CNX Gas Company LLC Noble Energy Inc to to Noble Energy Inc: HG Energy II 37/1.69 Appalachia LLC: 39/1		CNX Gas Company LLC Noble Energy Inc to to Noble Energy Inc: HG Energy II Appalachia LLC: 39/1	CAX Gas Company LLC Noble Energy Inc to to Noble Energy Inc: HG Energy II 37/169 Appalachia LLC: 39/1	CNX Gas Company LLC Noble Energy Inc to to Noble Energy Inc: HG Energy II Appalachia LLC: 39/1	CNX Gas Company LLC Noble Energy Inc to to Noble Energy Inc: HG Energy II 37/169 Appalachia LLC: 39/1	CNX Gas Company LLC Noble Energy Inc to to Noble Energy Inc. HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to CNX Gas Company LLC Noble Energy Inc to CNX Gas Company LLC: to Moble Energy Inc: HG Energy II 36/409 37/169 Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia I.LC: 39/1	N/A	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Assignment
Noble Energy Inc to HG Energy II Appalachia LLC: MB		Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB	112	Noble Energy Inc to HG Energy II Appalachia LLC: MB 1 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB	<u></u>	Noble Energy Inc to HG Energy II Appalachia LLC: MB 134/392	N/A	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Assignment
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286		Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286		Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286					N/A	Memoral Operatin between Explorati HG Energ Appalach 988/286	Assignment

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Well No	
o. Michter	
N-8HU	

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5-80-48	5-8A-48	5-8A-48	5-8A-48	5-8A-48	5-8A-48	5-8A-48	5-8A-48	5-8A-48	5-8A-48	5-8A-48	5-8A-48	Parcel
<	<	<	<	<	<	<	<	<	<	<	<	Tag
Virtoria A. Pakrovsky and Stenhen W. Pakrovsky, wife and hishand	SOUTHEASTERN GUIDE DOGS INC.	SHRINER'S CHILDREN'S HOSPITAL OF ST PETERSBURG FLORIDA	Sara B. Anderson and Arthur A. Anderson, wife and husband	Marjorie B. Kidd and Robert C. Kidd, wife and husband	LORNA MARIE LEW	COURTNEY D HALL	Charles Edwin Blue, IV, dealing in his sole and separate property	Victoria A. Pakrovsky and Stephen W. Pakrovsky, wife and husband	Sara B. Anderson and Arthur A. Anderson, wife and husband	Marjorie B. Kidd and Robert C. Kidd, wife and husband	LORNA MARIE LEW	Grantor, Lessor, Etc.
NOBLE ENERGY INC	TH EXPLORATION LLC	UNLEASED	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	UNLEASED	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	Grantee, Lessee, Etc.
1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	Royalty
890-599	PENDING	N/A	890	890	890	N/A	890	890	89	890	890	
500	JING	N/A	310	596	602	N/A	316	599	310	596	602	Deed Book/Page
N/A	N/A		N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	Assignment
N/A	N/A		N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	Assignment
N/A	N/A		N/N	N/N	N/A		N/A	N/A	N/A	N/A	N/A	Assignment
N/A	N/A		N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	Assignment
Noble Energy Inc to CNX Gas Company LLC: 36/409	N/A	*FORCE POOL*	Noble Energy Inc to CNX Gas Company LLO	Noble Energy Inc to CNX Gas Company Ltd 36/409	Noble Energy Inc to CNX Gas Company LLO	*FORCE POOL*	Noble Energy Inc to CNX Gas Company LLC: 36/409	Noble Energy Inc to CNX Gas Company Lt	Noble Energy Inc to CNX Gas Company LL 36/409	Noble Energy Inc to CNX Gas Company LL	Noble Energy Inc to CNX Gas Company LL 36/409	Assignment
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Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	N/A		Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286		Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum or Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Assignment

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NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	TH EXPLORATION LLC	TH EXPLORATION LLC	TH EXPLORATION LLC	NOBLE ENERGY INC		NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	UNLEASED	NOBLE ENERGY INC	Grantee, Lessee, Etc.
1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+		1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	Royalty
819	808	810	1034	1034	1033	898		890	890	890	890	N/A	890	Deed Bo
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Memorandum of Operating Agreement between TH Exploration LIC and HG Energy II Appalachia, LIC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	N/A	N/A	N/A	988/286 N/A	Memorandum or Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC:	Memocandum of Operating Agreement between TH Exploration LLC and HG Energy I! Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286		Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286		Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Assignment

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N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	588	1034	1/8+	TH EXPLORATION LLC	Y NANCY LOUISE SNYDER	5-8A-41	10*26439
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	583	1034	1/8+	TH EXPLORATION LLC		5-8A-41	10*26438
N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	315	1033	1/8+	TH EXPLORATION LLC		5-84-41	10*25752
N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	129	1033	1/8+	TH EXPLORATION ILC	Y KENNETH AND DAWN E MORRIS	5-8A-41	10*25698
Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	N/A	N/A	N/A	N/N	N/A	N/A	588	832	1/8+	NOBLE ENERGY INC	X MARTHA FRANCES ULCAK	5-8A-37	Q078626036
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	N/A	N/A	N/A	N/A	N/A	N/A	127	829	1/8+	NOBLE ENERGY INC	X BLASE JOSEPH ULCAK JR	5-8A-37	Q078626026
Memorandum of Operating Agreement between TH Exploration I.I.C and HG Energy II HG Energy II Appalachia, I.I.C:	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	N/A	N/A	N/A	N/A	N/A	N/A	147	829	1/8+	NOBLE ENERGY INC	X COURTNEY D HALL	5-8A-37	Q078626025
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	N/A	N/A	N/A	N/A	N/A	N/A	298	825	1/8+	NOBLE ENERGY INC	X BRYCE E ULBRICH AND EDNA M ULBRICH	5-8A-37	Q078626023
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	N/A	N/A	N/A	N/A	N/A	N/A	516	820	1/8+	NOBLE ENERGY INC	X SOUTHEASTERN GUIDE DOGS INC	5-8A-37	Q078626017
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	N/A	N/A	N/A	N/A	N/A	N/A	303	819	1/8+	NOBLE ENERGY INC	X ROBERT LEE SMITH AND BETSY K SMITH	5-8A-37	0.078626013
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	N/A	N/A	N/A	N/A	N/A	N/A	307	819	1/8+	NOBLE ENERGY INC	X HTIMS NITSUL X	5-8A-37	Q078626012
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	N/A	N/A	N/A	N/A	N/A	N/A	305	819	1/8+	NOBLE ENERGY INC		5-8A-37	Q078626011
Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	N/A	N/A	N/A	N/A	N/A	N/A	506	820	1/8+	MOBLE ENERGY INC	X MARILYN ULBRICH CHALMERS AND ROD N CHAMBERS	5-8A-37	Q078626010
Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Deed Book/Page	11	Royalty	Grantee, Lessee, Etc.	Tag Grantor, Lessor, Etc.	Parcei	Lease ID

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SOUTHEASTERN GUIDE DOGS INC	ROBERT LEE SMITH AND BETSY K SMITH	HIMS NITSUL	BLYE ULBRICH JENSCHKE AND JIM JENSCHKE	MARILYN ULBRICH CHALMERS AND ROD N CHAMBERS	H JAY ULBRICH	BARBARA F DANIELS	JUNE MORRIS	LUCILLE E WINGROVE	Grantor, Lessor, Etc.
NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	Grantee, Lessee, Etc.				
1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	Royalty
820	819	819	819	820	819	85	80	810	Deed Book/Page
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N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Assignment
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Noble Energy Inc to HG Energy II		Noble Energy Inc to HG Energy II	Noble Energy Inc to HG Energy II Appalachia ILC: 39/1	Noble Energy Inc to HG Energy II	Assignment				
Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy inc to HG Energy II Appalachia LLC: MB	Assignment
Menorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LIC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Mennorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorardum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memocandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Assignment

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ELAINE WILLIS	JEFFREY BROOKS	BARBARA F DANIELS	JUNE MORRIS	LUCILLE E WINGROVE	NANCY LOUISE SNYDER	JANICE AND DONALD CROOK	DEBRA ANN AND EARL V BUTCHER	KENNETH AND DAWN E MORRIS	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY	MARTHA FRANCES (H.CAK	BLASE JOSEPH UICAK JR	COURTNEY D HALL	BRYCE E ULBRICH AND EDNA M ULBRICH	Grantor, Lessor, Etc.
NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	TH EXPLORATION LLC:	TH EXPLORATION LLC	TH EXPLORATION LLC	TH EXPLORATION LLC	TH EXPLORATION LLC	NOBLE FINERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	Grantee, Lessee, Etc.
1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	Royalty
813	813	813	808	810	1034	1034	1033	1033	N/A	832	829	829	825	Н
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N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	14/22	N/A	N/A	N/A	N/A	Assignment
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N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	. Arthur	N/A	A/N	N/A	N/A	Assignment
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Noble Energy Inc to HG Energy II	Noble Energy Inc to HG Energy II	Noble Energy inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	N/A	N/A	N/A	N/A	the second second	Noble Energy Inc to HG Energy II	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Assignment
Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB	N/A	N/A	N/A	N/A			Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Assignment
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286				Wiemorandum or Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	N/A	N/A	N/A	N/A	200/ 200	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286		Assignment

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BLASE JOSEPH ULCAK JR	COURTNEY D HALL	BRYCE E ULBRICH AND EDNA M ULBRICH	SOUTHEASTERN GUIDE DOGS INC	ROBERT LEE SMITH AND BETSY K SMITH	IUSINI SMITH	BLYE ULBRICH JENSCHKE AND JIM JENSCHKE	MARILYN ULBRICH CHALMERS AND ROD N CHAMBERS	H JAY ULBRICH	Grantor, Lessor, Etc.
NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	Grantee, Lessee, Etc.						
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	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Assignment
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BLYE ULBRICH JENSCHKE AND JIM JENSCHKE	MARILYN ULBRICH CHALMERS AND ROD N CHAMBERS	н ложил лег	ELAINE WILLIS	JEFFREY BROOKS	BARBARA F DANIELS	JUNE MORRIS	LUCILLE E WINGROVE	NANCY LOUISE SNYDER	JANICE AND DONALD CROOK	DEBRA ANN AND EARLY BUTCHER	KENNETH AND DAWN E MORRIS	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY	AND THE PRANCES HEAVY	Grantor, Lessor, Etc.
NOBLE ENERGY INC	TH EXPLORATION LLC	TH EXPLORATION LLC	TH EXPLORATION LLC	TH EXPLORATION LLC	TH EXPLORATION LLC	MADERE BEFORE	Grantee, Lessee, Etc.							
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	Noble Energy Inc to HG Energy II	Noble Energy Inc to HG Energy II	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II			Noble Energy Inc to HG Energy II	N/A	N/A	N/A	N/A	Obbaldenia reco cel-	Noble Energy Inc to HG Energy II	Assignment
Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB	N/A	N/A	N/A	N/A	- 4-1	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Assignment
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	N/A	N/A	N/A	N/A	and the	Memorandum or Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Assignment

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5-8A-16	5-8A-26	5-8A-27	5-8A-40	5-8A-40	5-8A-40	5-8A-40	5-8A-40	5-8A-40	5-8A-40	5-8A-40	Parcel
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BETY JANE PARIJOTT, WIDOW	EDWARD DAVID KNUTH AND KATHY JO KNUTH	CLARENCE S SIBURT AND MARY I SIBURT	SHRINERS HOSPITALS FOR CHILDREN	MARTHA FRANCES ULCAK	BIASE JOSEPH ULCAK JR	COURTNEY D HALL	BRYCE E ULBRICH AND EDNA M ULBRICH	SOUTHEASTERN GUIDE DOGS INC	ROBERT LEE SMITH AND BETSY K SMITH	JUSZIN SMITH	Grantor, Lessor, Etc.
NOBLE ENERGY INC	NOBLE ENERGY INC	TRIENERGY HOLDINGS LLC	UNLEASED	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NODLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	Grantee, Lessee, Etc.
1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	Royalty
828	803	715	N/A	832	829	829	825	820	819	819	П
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N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Assignment
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N/A	Noble Energy Inc to CNX Gas Company LL 33/28	TriEnergy Holdings LL to NPAR LLC: 25/463	*FORCE POOL*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Assignment
N/A	Noble Energy Inc to CNX Gas Company LLC Noble Energy Inc to CDX Gas Company LLC: to Noble Energy Inc: HG Energy II HG Energy II Appalachia LLC: 39/	TriEnergy Holdings LLC NPAR LLC to Chevron to NPAR LLC: 25/463 USA Inc: 26/269		N/A	N/A	N/A	N/A	N/A	N/A	N/A	Assignment
	LC Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	NPAR LLC to Chevron USA Inc: 756/307		Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II	Noble Energy Inc to HG Energy II	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Assignment
	Noble Energy Inc to HG Energy II Appalachia LLC: MB	TriEnergy Holdings Inc & TriEnergy Inc to Chevron USA Inc: 28/356		Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Assignment
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286			Memocandum or Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286				Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286		Assignment Memorandum of

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5-8A-16	5-8A-16	5-8A-16	5-8A-16	5-8A-16	5-8A-16	5-8A-16	5-8A-16	5-8A-16	Parcel
Do	Do	DD	DD	DD	DD	DD	DD	DD	Tag
HARRY LEROY PARRIOTT AND NANCY S. PARRIOTT, HUSBAND AND WIFE	H. JAY ULBRICH, A SINGLE MAN	FRANCIS O. HALL A/K/A ORNETTA PARRIOTT, WIDOW	DEBORAH D MERCER AND CLAVIN P MERCER	COURTNEY D HALL	BRYCE E ULBRICH AND EDNA M ULBRICH	BRIAN EDWIN LEMASTERS AND BEVERLY J. LEMASTERS, HUSBAND AND WIFE	BLYE ULBRICH JENSCHKE AND JIM JENSCHKE	BLASÉ JOSEPH ULCAK JR., A SINGLE MAN	Grantor, Lessor, Etc.
NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	Grantee, Lessee, Etc.
1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	Royalty
820	819	825	821	829	825	821	819	829	П
508	309	258	22	147	298	24	305	127	Deed Book/Page
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	Noble Energy Inc to HG Energy II	Noble Energy Inc to HG Energy II	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Assignment
Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB		Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Assignment
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		DD		DD	Do	DD	DD	DD	Tag
MARY L PARRIOTT, A WIDOW	MARTHA FRANCES ULCAK, A SINGLE WOMAN	MARILYN ULBRICH CHALMERS AND ROD N. CHALMERS, WIFE AND HUSBAND	KIMBERLY D. LAKE, A SINGLE WOMAN	KENNETH R. MORRIS AND DAWN E. MORRIS, HUSBAND AND WIFE	JUNE MORRIS, A WIDOW	JUSTIN SMITH, A/K/A JUSTINE SMITH, A WIDOW	ION DAVID FROMHART, SINGLE	JANICE R. CROOK, A/K/A JANICE WINGROVE CROOK AND DONALD P. CROOK, A WFIE AND I NOBLE ENERGY INC	Grantor, Lessor, Etc.
NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	D NOBLE ENERGY INC	Grantee, Lessee, Etc.
1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	Royalty
827	832	820	825	808	829	819	805	808	Deed Book/Page
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Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286									Assignment Memorandum of

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Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	N/A	N/A	N/A	N/A	N/A	N/A			1/8+	NOBLE ENERGY INC			5-8A-16	Q078626011
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appelachia LLC: 39/1	N/A	N/A	N/A	N/A	N/A	N/A	127	829	1/8+	NOBLE ENERGY INC			5-8A-16	Q078626026
	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	N/A	N/A	N/A	N/A	N/A	N/A	265	828	1/8+	NOBLE ENERGY INC			5-8A-16	Q078626027
	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	N/A	N/A	N/A	N/A	N/A	N/A		825	1/8+	NOBLE ENERGY INC			5-84-16	Q078626020
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392		N/A	N/A	N/A	N/A	N/A	N/A	162	827	1/8+	NOBLE ENERGY INC			5-8A-16	Q078626022
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	N/A	N/A	N/A	N/A	N/A	N/A			1/8+	NOBLE ENERGY INC			5-8A-16	Q078626017
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	N/A	N/A	N/A	N/A	N/N	N/A			1/8+	NOBLE ENERGY INC			5-8A-16	Q078626013
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392		N/A	N/A	N/A	N/A	N/A	N/A			1/8+	NOBLE ENERGY INC			5-8A-16	Q078626028
Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	N/A	N/A	N/A	N/A	N/A	N/A	309	808	1/8+	NOBLE ENERGY INC	NANCY L SNYDER, A/K/A NANCY WINGROVE SNYDER, A WIDOW	16 DD	5-8A-16	Q078626004
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DB	DD	DD	DD	Db	DD	Do	DD	DD	a
JON DAVID FROMHART, SINGLE	JANICE R. CROOK, A/K/A JANICE WINGROVE CROOK AND DONALD P. CROOK, A WHE AND I NOBLE ENERGY INC	HARRY LEROY PARRIOTT AND NANCY 5. PARRIOTT, HUSBAND AND WIFE	H. JAY ULBRICH, A SINGLE MAN	FRANCIS O. HALL A/K/A ORNETTA PARRIOTT, WIDOW	DEBORAH D MERCER AND CLAVIN P MERCER	COURTNEY D HALL	BRYCE E ULBRICH AND EDNA M ULBRICH	BRIAN EDWIN LEMASTERS AND BEVERLY J. LEMASTERS, HUSBAND AND WIFE	diantol, tessol, etc.
NOBITE ENERGA INC	ND I NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	Grantee, Lessee, etc.
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Noble Energy Inc to HG Energy II	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II	Noble Energy Inc to HG Energy II	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy It Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Assignment
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DD	DD	DO	.DD	DD	DD	DD	DD	DD	Tag
PATRICIA PARRIOTT, A WIDOW	NANCY L. SNYDER, A/K/A NANCY WINGROVE SNYDER, A WIDOW	MARY L PARRIOTT, A WIDOW	MARTHA FRANCES ULCAK, A SINGLE WOMAN	MARILYN ULBRICH CHALMERS AND ROD N. CHALMERS, WIFE AND HUSBAND	KIMBERLY D. LAKE, A SINGLE WOMAN	KENNETH R. MORRIS AND DAWN E. MORRIS, HUSBAND AND WIFE	JUNE MORRIS, A WIDOW	JUSTIN SMITH, A/K/A JUSTINE SMITH, A WIDOW	Grantor, Lessor, Etc.
NOBLE ENERGY INC	Grantee, Lessee, Etc.								
1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	Royalty
828	808	827	832	820	825	808	829	819	Deed Bo
270	309	164	5 88	506	272	303	26	307	Deed Book/Page
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		Noble Energy Inc to HG Energy II				Noble Energy Inc to HG Energy II	Noble Energy Inc to HG Energy II	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Assignment
Noble Energy Inc to II HG Energy II Appalachia LLC: MB //	Noble Energy Inc to HG Energy II HACE Appalachia LLC: MB // 34/392	Noble Energy Inc to II HG Energy II IIA Appalachia LLC: MB /	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Assignment
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	wemorandum or Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Assignment

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HIJMS NILSNI	BLYE ULBRICH JENSCHKE AND JIM JENSCHKE	MARILYN ULBRICH CHALMERS AND ROD N CHAMBERS	H JAY ULBRICH	JUNE MORRIS	TRUDY B. SAMPSON AND DANNY SAMPSON, WIFE AND HUSBAND	TIMOTHY SCOTT LEMASTERS AND AMY C. LEMASTERS, HUSBAND AND WIFE	SOUTHEASTERN GUIDE DOGS INC., TITUS HERMAN CEO	SHRINERS HOSPITALS FOR CHILDREN	ROBERT LEE SMITH AND BETSY K. SMITH, HUSBAND AND WIFE	Grantor, Lessor, Etc.
NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	UNLEASED	NOBLE ENERGY INC	Grantee, Lessee, Etc.
1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	Royalty
819	819	820	819	802	825	827	820	N/A	819	Deed B
307	305	506	309	275	260	162	516	N/A	303	Deed Book/Page
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	Assignment
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	Assignment
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	Assignment
N/A	N/A	N/A	N/A	N/A	N/A	N/N	N/A		N/A	Assignment
Noble Energy Inc to CNX Gas Company LL0 34/189	Noble Energy Inc to CNX Gas Company LLO 34/189	Noble Energy inc to CNX Gas Company LLO 34/189	Noble Energy Inc to CNX Gas Company LLC 34/189	Noble Energy Inc to CNX Gas Company LLO	N/A	N/A	N/A	*FORCE POOL*	N/A	Assignment
Noble Energy Inc to CNX Gas Company LLC: to Noble Energy Inc: 34/189 37/169	Noble Energy Inc to CNX Gas Company LLC CNX Gas Company LLC to Noble Energy Inc: 34/189 37/169	Noble Energy Inc to CNX Gas Company LL CNX Gas Company LLC: to Noble Energy Inc: 34/189	CNX Gas Company Li	Noble Energy Inc to CNX Gas Company LLC: to Noble Energy Inc: 33/28	N/A	N/A	N/A		N/A	Assignment
	CNX Gas Company LLC Noble Energy Inc to Noble Energy Inc. HG Energy II 37/169 Appalachia LLC: 39/1	CNX Gas Company LLC Noble Energy Inc to to Noble Energy Inc.: HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to CNX Gas Company LLC Noble Energy Inc to CNX Gas Company LLC Noble Energy II 34/189 37/169 37/169 Appalachia LLC: 39/1	Ω	Noble Energy Inc to HG Energy II	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1		Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Assignment
Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392		Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB	100	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Assignment
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286		Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Assignment Memorandum of

	Q078626023	Q078626022	Q078626021	Q078626020	Q078626018	Q078626016	Q078626015	Q0786260 1 4	Q078626013	Lease ID
5-8A-15	5-8A-15	5-8A-15	5-8A-15	5-8A-15	5-8A-15	5-8A-15	5-8A-15	5-8A-15	5-8A-15	Parcel
	E	m	H	M	m	Ш	Ħ	m	m	Tag
SHRINERS HOSPITALS FOR CHILDREN	BRYCE E ULBRICH AND EDNA M ULBRICH	TIMOTHY SCOTT LEMASTERS AND AMY C LEMASTERS	MARY L PARRIOTT	TRUDY B SAMPSON ET VIR	KIMBERLY D LAKE	BRIAN EDWIN LEWASTERS ET UX	DEBORAH D MERCER AND CLAVIN P MERCER	HARRY LEROY PARRIOTT AND NANCY S PARRIOTT	ROBERT LEE SMITH AND BETSY K SMITH	Grantor, Lessor, Etc.
UNLEASED	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	Grantee, Lessee, Etc.
1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	Royalty
N/A	825	827	827	825	825	821	821	820	819	Deed Book/Page
N/A	298	162	164	260	2772	24	22	508	303	(/Page
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Assignment
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Assignment
	N/A	N/A	N/A	N/N	N/A	N/A	N/A	N/A	N/A	Assignment
	N/A	N/A	N/A	N/N	N/A	N/A	N/A	N/A	N/A	Assignment
FORCE POOL	Noble Energy Inc to CNX Gas Company LLC	Noble Energy Inc to CNX Gas Company LLC	Noble Energy Inc to CNX Gas Company LL0 33/574	Noble Energy Inc to CNX Gas Company LLC: 33/574	Noble Energy Inc to CNX Gas Company LLI	Noble Energy Inc to CNX Gas Company LU	Noble Energy Inc to CNX Gas Company LLC: 34/189	Noble Energy Inc to CNX Gas Company LL 34/189	Noble Energy Inc to CNX Gas Company LL 34/189	Assignment
	Noble Energy Inc to CNX Gas Company LLC Noble Energy Inc to CNX Gas Company LLC: No Noble Energy Inc: HG Energy II HG Energy II HG Energy II Appalachia LLC: 39/	Noble Energy Inc to CNX Gas Company LLC Noble Energy Inc to CNX Gas Company LLC: to Noble Energy Inc: HG Energy II G3/574 37/159 Appalachia LLC: 39/	Noble Energy Inc to CNX Gas Company LLC Noble Energy Inc to CNX Gas Company LLC: to Noble Energy Inc: HG Energy II HG Energy II HG Energy II 33/574	CNX Gas Company LLC Noble Energy Inc to Noble Energy Inc: 37/169 HG Energy II Appalachia LLC: 39/	Noble Energy Inc to CNX Gas Company LLC Noble Energy Inc to CNX Gas Company LLC: to Noble Energy Inc: HG Energy II GAJ Appalachia LLC: 39/	Noble Energy Inc to CNX Gas Company LLC Noble Energy Inc to CNX Gas Company LLC: to Noble Energy Inc: HG Energy II 34/189 37/169 Appalachia LLC: 39/	CIX Gas Company LLC Noble Energy Inc to C: to Noble Energy Inc: 37/169 Appalachia LLC: 39/	Noble Energy Inc to CNX Gas Company LLC CNX Gas Company LLC: to Noble Energy Inc: 34/189 37/169	Noble Energy Inc to CNX Gas Company LLC Noble Energy Inc to CNX Gas Company LLC: to Noble Energy Inc: HG Energy II 34/189 37/169 Appalachia LLC: 39/	Assignment
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	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Assignment
	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Assignment Memorandum of

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JANICE R CROOK AKA JANICE WINGROVE CROOK AND DONALD P CROOK	LUCILLE E WINGROVE	KENNETH MORRIS AND DAWN E MORRIS	FRANCES O HALL AKA ORNETTA PARRIOTT	SOUTHEASTERN GUIDE DOGS INC	PATRICIA PARRIOTT	BETTY JANE PARRIOTT	BLASE JOSEPH ULCAK JR	COURTNEY D HALL	Grantor, Lessor, Etc.
OOK NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	Grantee, Lessee, Etc.
1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	Royalty
831	829	829	839	828	828	828	829	829	
60	45	43	133	305	270	265	127	147	Deed Book/Page
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Assignment
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Assignment
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Assignment
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Assignment
Noble Energy Inc to CNX Gas Company LU	Noble Energy Inc to CNX Gas Company Ltd 33/574	Noble Energy Inc to CNX Gas Company LU	Noble Energy Inc to CNX Gas Company LLC: 33/574	Noble Energy Inc to CNX Gas Company LL 33/574	Noble Energy Inc to CNX Gas Company LL 33/574	Noble Energy Inc to CNX Gas Company LL 33/574	Noble Energy Inc to CNX Gas Company LL 33/574	Noble Energy Inc to CNX Gas Company LL 33/574	Assignment
Noble Energy Inc to CNX Gas Company LLC. Noble Energy Inc to CNX Gas Company LLC: to Noble Energy Inc: HG Energy II 33/574 37/189 Appalachia LLC: 39/	Noble Energy Inc to CNX Gas Company LLC Noble Energy Inc to CNX Gas Company LLC: No Noble Energy Inc: HG Energy II 33/574 37/159 Appalachia LLC: 39/	Noble Energy Inc to CNX Gas Company LLC Noble Energy Inc to CNX Gas Company LLC: to Noble Energy Inc: HG Energy II 43/574 37/169 Appalachia LLC: 39/		Noble Energy Inc to CNX Gas Company LL CIX Gas Company LLC: to Noble Energy Inc: 33/574	Noble Energy Inc to CNX Gas Company LLC Noble Energy Inc to CNX Gas Company LLC: to Noble Energy Inc: HG Energy II 33/574 37/169 Appalachia LLC: 39/	Noble Energy Inc to CNX Gas Company LLC CNX Gas Company LLC to Noble Energy Inc: 33/574 37/169	Noble Energy Inc. to CNX Gas Company LLC: to Noble Energy Inc: 33/5/7.4	Noble Energy Inc to CNX Gas Company LL CNX Gas Company LLC: to Noble Energy Inc: 33/574	Assignment
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Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Assignment
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Assignment Memorandum of

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Chevron USA Inc to TH Exploration LLC: 43/164	y Holdings Energy Inc to USA Inc:	ron		n	N/A	N/A	N/A	N/A				TRIENERGY HOLDINGS LLC	BUSTAMANTE JESUS ET UX		5-7-28.1	10*26015
Chevron USA Inc to TH Exploration LLC: 43/164	Ů			TriEnergy Holdings LLC NPAR LLC to Chevron to NPAR LLC: 25/463 USA Inc: 26/269	N/A	N/A	N/A	N/A				TRIENERGY HOLDINGS LLC	BUSTAMANTE JESUS ET UX		5-7-22	10*26015
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	nc to	par .	CNX Gas Company LLC Noble Energy Inc to to Noble Energy Inc: HG Energy II 37/169 Appalachia LLC: 39/	Noble Energy Inc to CNX Gas Company LLC: to Noble Energy Inc: 35/313 37/169	N/A	N/A	N/A	N/A	0 552	1/8+ 860	1/	NOBLE ENERGY INC	PATRICIA Y DARRAH	KK PATRIC	5-7-23.1	Q09.1953000
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	<u> </u>	CNX Gas Company LLC Noble Energy Inc to to Noble Energy Inc: HG Energy II 37/169 Appalachia LLC: 39/	Noble Energy Inc to CNX Gas Company LLC: 36/409	N/A	N/A	A/N	N/A	0 613	1/8+ 890	1/	NOBLE ENERGY INC	ROBERT L HENRY JR AND GEORGEANNA HENRY ET AL	JJ ROBER	5-7-23.2	Q0974Z3000
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	10	CNX Gas Company LLC Noble Energy Inc to to Noble Energy Inc: HG Energy II 137/169 Appalachia LLC: 39/	nergy Inc to s Company LtC:	N/A	N/A	N/A	N/A	21	1/8+ 881	1/	NOBLE ENERGY INC	MARTHA F POWELL		5-7-23	Q096159000
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	تـــــــــــــــــــــــــــــــــــــ	CNX Gas Company LLC Noble Energy Inc to to Noble Energy Inc: HG Energy II 37/169 Appalachia LLC: 39/	Noble Energy Inc to CNX Gas Company LLC: 34/189	N/A	N/A	N/A	N/A	11 26	1/8+ 821		MOBLE ENERGY INC	MARK L RITER AND MICHELLE A RITER		5-7-27.1	Q082348000
TriEnergy Holdings Inc & TriEnergy Inc to Chevron USA Inc: 28/356	NPAR LLC to Chevron USA Inc: 756/307	NPAR LLC to Chevron USA Inc: 26/269	TriEnergy Holdings LLC to NPAR LLC: 25/463			*FORCE POOL*			36 460	1/8+ 836		TRIENERGY HOLDINGS LLC	JAMES K PERSINGER AND TONDA J PERSINGER	GG JAMES	5-7-27	Q08383100
TriEnergy Holdings Inc & TriEnergy Inc to Chevron USA Inc: 28/356	NPAR LLC to Chevron USA Inc: 756/307		TriEnergy Holdings LLC to NPAR LLC: 25/463			*FORCE POOL*	2		36 460		1/8	TRIENERGY HOLDINGS LLC	JAMES K PERSINGER AND TONDA J PERSINGER		5-7-29	Q083831000
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	pa'	CNX Gas Company LLC Noble Energy Inc to Noble Energy Inc: 10 Noble Energy Inc: 137/169 Appalachia LLC: 39/	Noble Energy Inc to CNX Gas Company LLC: to Noble Energy Inc: 34/309	N/A	N/A	N/A	N/A	99 215	1/8+ 839	Ţ	NOBLE ENERGY INC	DEBRA ANN AND EARL V BUTCHER	EE DEBRA	5-8A-15	Q078626037
Memorandum of Operating Agreement between TH Exploration LIC and HG Energy II Appalachia, LIC: 988/286	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	<u></u>	CNX Gas Company LLC Noble Energy Inc to Noble Energy Inc: No Noble Energy Inc: HG Energy II Mppalachia LLC: 39/	Noble Energy Inc to CNX Gas Company LLC: 34/309	N/A	N/A	N/A	N/A	588	1/8+ 832	T	NOBLE ENERGY INC	MARTHA FRANCES UICAK		5-8A-15	Q078626036
Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	100	CNX Gas Company LLC to Noble Energy Inc:	Noble Energy Inc to CNX Gas Company LLC Noble Energy Inc to CNX Gas Company LLC: to Noble Energy Inc: HG Energy I 33/574 Appalachia LLC: 39/	N/A	N/A	N/A	N/A	56	1/8+ 831		NOBLE ENERGY INC	NANCY I SNYDER AKA NANCY WINGROVE SNYDER	EE NANC	5-8A-15	Q078626035
Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Deed Book/Page	Royalty Dec		Grantee, Lessee, Etc.	Grantor, Lessor, Etc.	Tag	Parcel	Lease ID

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MILLER, ADAM & MARY	LACY MIDCAP ET AL	LACY MIDCAP ET AL	LACY MIDCAP ET AL	MILLER, ADAM & MARY	MILLER, ADAM & MARY	DEBORA L. BENNETT	CNX GAS COMPANY LLC	KIRKMAN, CASPER SANFORD; KIRKMAN, LILLIAN E	THELMA M. ROUPE	Grantor, Lessor, Etc.
CONSOLIDATION COAL COMPANY	THE M A HANNA COMPANY	THE M A HANNA COMPANY	THE M A HANNA COMPANY	THE M A HANNA COMPANY	THE M A HANNA COMPANY	CONSOLIDATION COAL COMPANY	TH EXPLORATION LLC	CONSOLIDATION COAL COMPANY	NOBLE ENERGY INC	Grantee, Lessee, Etc.
1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	Royalty
311	311	311	311	311	311	546	1039	311	890	Deed Book/Page
3 3 3	324	324	324	33	333	58	1	390	313	ok/Page
The M.A. Hanna Company to Pittsburgh Consolidation Coal Company: 315/417	The M.A. Hanna Company to Pittsburgh Consolidation Coal Company: 315/417	The M.A. Hanna Company to Pittsburgh Consolidation Coal Company: 315/417	The M.A. Hanna Company to Pittsburgh Consolidation Coal Company: 315/417	N/A	N/A	N/A	N/A	N/A	N/A	Assignment
Pittsburgh Consolidation Coal Company changes name to Consolidation Coal Company: CB 6/203	Pittsburgh Consolidation Coal Company changes name to Consolidation Coal Company: CB 6/203	Pittsburgh Consolidation Coal Company changes name to Consolidation Coal Company: CB 6/203	Pittsburgh Consolidation Coal Company changes name to Consolidation Coal Company: CB 6/203	N/A	The M. A. Hanna Company to Pittsburgh Consolidation Coal Company: 315/417	Consolidation Coal Company, CNX Land Resources Inc, Et Al to CNX Gas Company LLC: 646/493	N/A	The M. A. Hanna Company to Pittsburgh Consolidation Coal Company: 315/417	N/A	Assignment
Consolidation Coal Company, a PA corp to Consolidation Coal Company, a Delaware Corp: 387/300	Consolidation Coal Company, a PA corp to Consolidation Coal Company, a Delaware Corp: 387/300	Consolidation Coal Company, a PA corp to Consolidation Coal Company, a Delaware Corp: 387/300	Consolidation Coal Company, a PA corp to Consolidation Coal Company, a Delaware Corp: 387/300	CNX Gas Company LLC to Noble Energy Inc: 851/220	Name Change: Pittsburgh Consolidation Coal Company to Consolidation Coal Company: 6/203	CNX Gas Company LLC to Noble Energy Inc:	N/A	Name Change: Pittsburgh Consolidation Coal Company to Consolidation Coal Company: 6/203	N/A	Assignment
Consolidation Coal Company, CNX Land Resources Inc, Etc to CNX Gas Company LLC: 646/493	Consolidation Coal Company, CNX Land Resources Inc, Etc to CNX Gas Company LLC: 646/493	Consolidation Coal Company, CNX Land Resources Inc, Etc to CNX Gas Company LLC: 646/493	Consolidation Coal Company, CNX Land Resources Inc, Etc to CNX Gas Company LLC: 646/493	CNX Gas Company LLC to Noble Energy Inc: 37/169	Pittsburgh Consolidation Coal Company to Consolidation Coal Company: 387/363	CNX Gas Company LLC to Noble Energy Inc: 37/169	N/A	Pittsburgh Consolidation Coal Company to Consolidation Coal Consolidation 387/363	N/A	Assignment
Noble Energy CNX Gas Company LLC HG Energy Into Noble Energy Inc. Appalachia L 851/220 & 909/94 931/43	CNX Gas Company LLC to Noble Energy Inc: 851/220 & 909/94	CNX Gas Company LLC to Noble Energy Inc: 851/220 & 909/94	CNX Gas Company LLC to Noble Energy Inc: 851/220 & 909/94	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Consolidation Coal Company, CNX Land Resources Inc, Et Al to CNX Gas Company LLC: 646/493	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	N/A	Consolidation Coal Company, CNX Land Resources Inc, Et Al to CNX Gas Company LLC: 646/493	Noble Energy Inc to CNX Gas Company LLC 36/409	Assignment
Noble Energy Inc to HG Energy II Appalachia LLC:	Noble Energy Inc to HG Energy II Appalachia LLC: 931/43	Noble Energy Inc to HG Energy II Appalachia LLC:	Noble Energy Inc to HG Energy II Appalachia LLC:	Noble Energy CNX Gas Company LLC HG Energy II to Noble Energy Inc: Appalachia L 909/94		Noble Energy CNX Gas Company LLC HG Energy II to Noble Energy Inc: Appalachia L	N/A	CNX Gas Company LLC C: to Nuble Energy Inc: 752/66	Noble Energy Inc to CNX Gas Company LLC CNX Gas Company LLC: to Noble Energy Inc: 36/409 37/169	Assignment
	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II	LC:	CNX Gas Company LLC CNX Gas Company LLC to Noble Energy Inc: to Noble Energy Inc: 909/94	/ Inc to	N/A	CNX Gas Company LLC to Noble Energy Inc: 909/94	C Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Assignment
Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: 931/43	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	N/A	Noble Energy Inc to I HG Energy II Appalachia LLC: 931/43	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Assignment
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	N/A	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of

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CYNTHIA JEAN WARD & DALE P. WARD	GEORGE A. KNUTH	ALAN GREGORY SCHMITT & LINDA LEE SCHMITT	BRUCE SCOTT SCHMITT & JERRI MARIE BLANEY	ILOYD Q.& MARY WOLFE GATTS	WHEELING POWER COMPANY & KENTUCKY POWER COMPANY	ROBERT L HENRY JR AND GEORGEANNA HENRY ET AL	WILLIS RINE ET UX	WOLFE, BLAINE & VIVIAN ET AL	Grantor, Lessor, Etc.
NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	CONSOLIDATION COAL COMPANY	NOBLE ENERGY INC	NOBLE ENERGY INC	THE M A HANNA COMPANY	THE M A HANNA COMPANY	Grantee, Lessee, Etc.
1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	Royalty
816	819	813	813	290	1040	890	311	312	Deed Book/Page
261	298	538	244	94	103	613	344	100	ok/Page
N/A	N/A	N/A	N/A		N/A	N/A	The M.A. Hanna Company to Pittsburgh Consolidation Coal Company: 315/417	The M.A. Hanna Company to Pittsburgh Consolidation Coal Company: 315/417	Assignment
N/A	N/A	N/A	N/A	The M. A. Hanna Company to Pittsburgh Consolidation Coal Company: 315/417	N/A	N/A	Pittsburgh Consolidation Coal Company changes name to Consolidation Coal Company: CB 6/203	Pittsburgh Consolidation Coal Company changes name to Consolidation Coal Company: CB 6/203	Assignment
N/A	N/A	N/A	N/A	Name Change: Pittsburgh Consolidation Consolidation Coal Coal Company to Consolidation Coal Consolidation Coal Company: 6/203 Company: 387/363	N/A	N/A	Consolidation Coal Company, a PA corp to Consolidation Coal Company, a Delaware Corp: 387/300	Consolidation Coal Company, a PA corp to Consolidation Coal Company, a Delaware Corp: 387/300	Assignment
N/A	N/A	N/A	N/A	Pittsburgh n Consolidation Coal Company to Consolidation Coal Company: 387/363	N/A	N/A	Consolidation Coal Company, CNX Land Resources Inc, Etc to CNX Gas Company LLC: 646/493	Consolidation Coal Company, CNX Land Resources Inc, Etc to CNX Gas Company LLC: 646/493	Assignment
Noble Energy Inc to CNX Gas Company LLC: 34/189	Noble Energy Inc to CNX Gas Company LLC 34/177	Noble Energy Inc to CNX Gas Company LLC: 34/177	Noble Energy Inc to CNX Gas Company LLC: 34/177	Consolidation Coal Company, CNX Land Resources Inc, Et Al to CNX Gas Company LLC 646/493	Noble Energy Inc to CNX Gas Company LLC: 33/574	Noble Energy Inc to CNX Gas Company LLO	CNX Gas Company LLC to Noble Energy Inc: 851/220 & 909/94	CNX Gas Company LLC to Noble Energy Inc: 851/220 & 909/94	Assignment
CNX Gas Company LLC Noble Energy Inc to Noble Energy Inc: HG Energy II	Noble Energy Inc to CNX Gas Company LLC Noble Energy Inc to CNX Gas Company LLC: to Noble Energy Inc: HG Energy II 34/177 37/169 Appalachia LLC: 39/	CNX Gas Company LLC Noble Energy Inc to Noble Energy Inc: HG Energy II 37/169 Appalachia LLC: 39/	CNX Gas Company LLC Noble Energy Inc to Noble Energy Inc: HG Energy II 37/169 Appalachia LLC: 39/	**	CNX Gas Company LLC Noble Energy Inc to Noble Energy Inc: 137/169	Noble Energy Inc to CNX Gas Company LLC CNX Gas Company LLC; to Noble Energy Inc: 36/409 37/169	Noble Energy Inc to C HG Energy II Appalachia LLC: 931/43	Noble Energy Inc to C HG Energy II Appalachia LLC: 931/43	Assignment
LT		12	les.	CNX Gas Company LLC CNX Gas Company LLC to Noble Energy Inc: to Noble Energy Inc: 752/66 909/94	H	C Noble Energy Inc to HG Energy II	Noble Energy Inc to HG Energy II	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Assignment
	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: 931/43	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Assignment
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum or Operating Agreement between TH Exploration LIC and HG Energy II Appalachia, LIC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Assignment Memorandum of

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BBB	888	888	888	B B B	BB	888	B B B	B88	Tag
BEATRICE J. SCHMITT	JANE IOU WILLIAMS AKA JANE IOU DEIBRUGGE WILLIAMS & LAURENCE P. WILLIAMS	MARGARET LYNN DELBRUGGE WATSON & JAMES W. WATSON	SUZANNE Q. PAVLIC AKA SUZANNE DELBRUGGE PAVLIC	KIMBERLY ANN DELBRUGGE DECREASE & VINCENT J. DECREASE	WILLIAM D. MARTIN & ANDREA R. MARTIN	WALTER L. DELBRUGGE JR & NORA L. DELBRUGGE	MARK ALAN DELBRUGGE & PATRICIA A. DELBRUGGE	SAMUEL O. COEN JR.	Grantor, Lessor, Etc.
NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	Grantee, Lessee, Etc.
1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	Royalty
828	825	825	825	825	819	820	820	816	Deed Bo
292	289	264	262	349	298	510	512	259	Deed Book/Page
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Assignment
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Assignment
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/N	Assignment
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Assignment
Noble Energy Inc to CNX Gas Company LLC: 33/574	Noble Energy Inc to CNX Gas Company LLC: to Noble Energy Inc: 33/574	Noble Energy Inc to CNX Gas Company LLC: to Noble Energy Inc: 33/574	Noble Energy Inc to CNX Gas Company LLC 34/189	Noble Energy Inc to CNX Gas Company LLC	Noble Energy inc to CNX Gas Company LLC	Noble Energy Inc to CNX Gas Company LLC	Noble Energy Inc to CNX Gas Company LLC 34/189	Noble Energy Inc to CNX Gas Company LLC	Assignment
CNX Gas Company LLC Noble Energy Inc to 15 Noble Energy Inc: HG Energy II	CNX Gas Company LLC Noble Energy Inc to Noble Energy Inc: HG Energy II 37/169 Appalachia LLC: 39/	CNX Gas Company LLC Noble Energy Inc to Noble Energy Inc: HG Energy II	Noble Energy Inc to CNX Gas Company ILC Noble Energy Inc to CNX Gas Company ILC Noble Energy Inc: HG Energy II 34/189 37/169 Appalachia ILC: 39/	Noble Energy Inc to CNX Gas Company LLC Noble Energy Inc to CNX Gas Company LLC: to Noble Energy Inc: HG Energy II 34/189 37/169 Appalachia LLC: 39/	Noble Energy Inc to CNX Gas Company LLC Noble Energy Inc to CNX Gas Company LLC: to Noble Energy Inc: HG Energy II 34/189 37/169 Appalachia LLC: 39/	Noble Energy Inc to CNX Gas Company LLC Noble Energy Inc to CNX Gas Company LLC: No Noble Energy Inc: HG Energy II 34/189 37/169 Appalachia LLC: 39/	Noble Energy Inc to CNX Gas Company LLC Noble Energy Inc to CNX Gas Company LLC: to Noble Energy Inc: HG Energy II 34/189 37/159 Appalachia LLC: 39/	Noble Energy Inc to CNX Gas Company LLC Noble Energy Inc to CIX Gas Company LLC: to Noble Energy Inc: HG Energy II 34/189 37/169 Appalachia LLC: 39/	Assignment
	H-	H-	H	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	12	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Assignment
Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Nobie Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Assignment
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286		Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Metrorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286		Memorandum of

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DDD	DDD	DDD	DDD	DDD	DDD	DDD	DDD .	CCC	Tag
							SUSAN WITTEN NEAL MYERS ET AL	KNUTH, GEORGE A & KELLY A	Grantor, Lessor, Etc.
THE M A HANNA COMPANY	THE M A HANNA COMPANY	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	MCELROY COAL COMPANY	Grantee, Lessee, Etc.
1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	Royalty
290	282	851	853	851	859	85	815	671	Deed Book/Page
97	394	216	310	218	512	306	375	385	ok/Page
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Assignment
The M. A. Hanna Company to Pittsburgh Consolidation Coal Company: 315/417	The M. A. Hanna Company to Pittsburgh Consolidation Coal Company: 315/417	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Assignment
Name Change: Pittsburgh Pittsburgh Consolidation Coal Coal Company to Company to Consolidation Coal Consolidation Coal Consolidation Coal Company: 387/363	Name Change: Pittsburgh Pittsburgh Consolidation Consolidation Coal Coal Company to Company to Consolidation Coal Consolidation Coal Company: 6/203 Company: 387/365	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Assignment
Pittsburgh Consolidation Coal Company to Consolidation Coal Company: 387/363	Pittsburgh Consolidation Coal Company to Consolidation Coal Consolidation Coal	N/A	N/A	N/A	N/A	N/A	N/A	Company, Consolidation Coal Company, etc to Consol Mining Compmany LLC: 811/1	Assignment McFirov Coal
Consolidation Coal Company, CIXI. and Resources Inc, Et Al to CIXI Gas Company LL CIXI Gas Company LLC; to Noble Energy Inc: 646/493	Consolidation Coal Company, CNX Land Resources Inc, Et Al to CNX Gas Company LL CNX Gas Company LLC: to Nable Energy Inc: 646/493 752/66	N/A	N/A	N/A	N/A	N/A	N/A	Consol Mining Company LLC to CNX Gas Company LLC: 839/286	Assignment
CNX Gas Company LLC to Noble Energy Inc: 752/66	CNX Gas Company LLC to Noble Energy Inc: 752/66	N/A	N/A	N/A	N/A	N/A	N/A	Noble Energy Inc to CNX Gas Company LLC HG Energy II to Noble Energy Inc: Appalachia LLC: 909/94 931/43	Assignment
CNX Gas Company LLC CNX Gas Company LLC HG Energy I to Noble Energy Inc: Appalachia L 752/66 909/94 931/43	CNX Gas Company LLC CNX Gas Company LLC HG Energy Ito Noble Energy Inc: to Noble Energy Inc: Appalacha L	N/A	N/A	N/A	N/A	N/A	N/A	Noble Energy Inc to C HG Energy II Appalachia LLC: 931/43	Assignment
Noble Energy Inc to E HG Energy II Appalachia LLC:	Noble Energy Inc to HG Energy II Appalachia LLC: 931/43	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II	Noble Energy Inc to HG Energy II	Noble Energy Inc to HG Energy II	Noble Energy inc to HG Energy II Appalachia LLC: MB	Assignment
Mennorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286					Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC:	Assignment Memorandum of

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FRANCES GALE NEAL	JOSEPH MOORE NEAL	JANE WITTEN VOTH	SUSAN WITTEN NEAL MYERS ET AL	RINE, G W & BESSIE J	GATTS, LLOYD Q & MARY WOLFE	GATTS, EUZABETH R J & HARLEY	GATTS, ALICE	GATTS, ALICE	Grantor, Lessor, Etc.
NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	PITTSBURGH CONSOLIDATION COAL	THE M A HANNA COMPANY	THE M A HANNA COMPANY	THE M A HANNA COMPANY	CONSOLIDATION COAL COMPANY	Grantee, Lessee, Etc.
1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	Royalty
851	859	853	815	3 13	290	290	282	282	Deed Bo
218	512	306	375	200	94	97	394	394	Deed Book/Page
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Assignment
N/A	N/A	N/A	N/A	N/A	The M. A. Hanna Company to Pittsburgh Consolidation Coal Company: 315/417	The M. A. Hanna Company to Pittsburgh Consolidation Coal Company: 315/417	The M. A. Hanna Company to Pittsburgh Consolidation Coal Company: 315/417	N/A	Assignment
N/A	N/A	N/A	N/A	Name Change: Pittsburgh Consolidation Consolidation Coal Coal Company to Consolidation Coal Consolidation Coal Company to Consolidation Coal Company: 6/203 Company: 387/363	Name Change: Pittsburgh Consolidation Consolidation Coal Coal Company to Consolidation Coal Company to Consolidation Coal Company: 6/203 Company: 387/365	Name Change: Pittsburgh Consolidation Coal Company to Consolidation Coal Company: 6/203	Name Change: Pittsburgh Consolidation Coal Company to Consolidation Coal Company: 6/203	N/A	Assignment
N/A	N/A	N/A	N/A	Pittsburgh Consolidation Coal Company to Consolidation Coal Company: 387/363	Pittsburgh Consolidation Coal Company to Consolidation Coal Consolidation Coal Company: 387/363	Pittsburgh Consolidation Coal Company to Consolidation Coal Company: 387/363	Pittsburgh Consolidation Coal Company to Consolidation Coal Company: 387/363	N/A	Assignment
N/A	N/A	N/A	N/N	Consolidation Coal Company, CNX Land Resources Inc, Et Al to CNX Gas Company LL CNX Gas Company LLC: to Noble Energy Inc: 646/493 752/66	Consolidation Coal Company, CNX Land Resources Inc, Et Al to CNX Gas Company LLC 645/493	Consolidation Coal Company, CNX Land Resources Inc, Et Al to CNX Gas Company LLC: 646/493	Consolidation Coal Company, CNX Land Resources Inc, Et Al to CNX Gas Company LLC: 646/493	Consolidation Coal Company et al to CNX Gas Company LLC: 645/493	Assignment
N/A	N/A	N/A	N/A	CNX Gas Company LLC to Noble Energy Inc: 752/66	CNX Gas Company LLC to Noble Energy Inc: 752/66				Assignment
N/A	N/A	N/A	N/A	CNX Gas Company LLC CNX Gas Company LLC HG Energy II to Noble Energy Inc.: to Noble Energy Inc.: Appalacha LL 752/66	Consolidation Coal Company, CNX Land Company, CNX Land CNX Gas Company LLC SNOBle Energy Inc. To Noble Energy Inc. SNOBle E	CNX Gas Company LLC CNX Gas Company LLC HG Energy II to Noble Energy Inc: to Noble Energy Inc: Appalachia LI 752/66 909/94 931/43	Noble Energy Inc to CNX Gas Company LLC CNX Gas Company LLC HG Energy II to Noble Energy Inc: Appalachia LLC: 752/66 909/94 931/43	ONX Gas Company LLC CNX Gas Company LLC HG Energy II to Noble Energy Inc. to Noble Energy Inc. Appalactia LI 752/66	Assignment
	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to C HG Energy II Appalachia LLC: 931/43	Noble Energy Inc to C HG Energy II Appalachia LLC: 931/43	Noble Energy Inc to C HG Energy II Appalachia LLC: 931/43	Noble Energy Inc to C HG Energy II Appalachia LLC: 931/43	Noble Energy Inc to C HG Energy II Appalachia LLC: 931/43	Assignment
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 39/1 988/286	Memorandum of Operating Agreement between TH Exploration LLC and to HG Energy II Appalachia, LLC: 39/1 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Menorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memocrandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum or Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Assignment

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ASHLAND OIL & REFINING CO.	ASHLAND OIL & REFINING CO.	STEIGNER, FREDERICK J; STEIGNER, ANNA KATHERYNE	GATTS, ELIZABETH R J & HARLEY	MARGERY J. WITTEN	DOROTHY ANN NEAL	MARY WITTEN NEAL WISEMAN	ANN ALEXANDER	Grantor, Lessor, Etc.
CONSOLIDATION COAL COMPANY	CONSOLIDATION COAL COMPANY	CONSOLIDATION COAL COMPANY	CONSOLIDATION COAL COMPANY	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	Grantee, Lessee, Etc.
1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	Koyaity
277	277	282	290	851	851	851	853	Τ,
490	490	61	97	398	396	216	310	eed Book/Page
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Assignment
The M. A. Hanna Company to Pittsburgh Consolidation Coal Company: 315/417	The M. A. Hanna Company to Pittsburgh Consolidation Coal Company: 315/417	The M. A. Hanna Company to Pittsburgh Consolidation Coal Company: 315/417	The M. A. Hanna Company to Pittsburgh Consolidation Coal Company: 315/417	N/A	N/A	N/A	N/A	Assignment
Name Change: Pittsburgh Consolidation Consolidation Coal Company to Consolidation Coal Company 5/203 Company, 58/203 Company, 58/203 Company, 38/205 Company,	Name Change: Pittsburgh Consolidation Coal Company to Consolidation Coal Company: 6/203	Name Change: Pittsburgh Consolidation Coal Company to Consolidation Coal Company: 6/203	Name Change: Pittsburgh Consolidation Consolidation Coal Coal Company to Consolidation Coal Conspany 6/203 Company: 6/203 Company: 6/203	N/A	N/A	N/A	N/A	Assignment
Pittsburgh n Consolidation Coal Company to Consolidation Coal Company: 387/363	Pittsburgh n Consolidation Coal Company to Consolidation Coal Company: 387/363	Pittsburgh n Consolidation Coal Company to Consolidation Coal Company: 387/363	Pittsburgh n Consolidation Coal Company to Consolidation Coal Company: 387/363	N/A	N/N	N/A	N/A	Assignment
Consolidation Coal Company, CNX Land Resources Inc, Et Al to CNX Gas Company LL CNX Gas Company LLC: to Noble Energy Inc: 646/493 752/66	Consolidation Coal Company, CIXL land Resources Inc, Et Al to CIX Gas Company LL CIX Gas Company LLC: to Noble Energy Inc: 646/493	Consolidation Coal Company, CMX land Resources Inc, Et Al to CNX Gas Company LI CNX Gas Company LIC: to Noble Energy Inc: 646/493	Consolidation Coal Company, CMX Land Resources Inc, Et Al to CNX Gas Company LL CNX Gas Company LLC: to Noble Energy Inc: 646/493 752/66	N/A	N/A	N/A	N/A	Assignment
CNX Gas Company LLC to Noble Energy Inc: 752/66	CNX Gas Company LLC to Noble Energy Inc: 752/66	CNX Gas Company I.I.C to Noble Energy Inc: 752/66	CNX Gas Company LLC to Noble Energy Inc: 752/66	N/A	N/A	N/A	N/A	Assignment
Noble Energy CNX Gas Company LLC CNX Gas Company LLC HG Energy It to Noble Energy Inc: to Noble Energy Inc: Appalachia LI 752,/66 999/94 931,/43	Consolidation Coal Company, CNX Land COX Gas Company LLC CIX Gas Company LLC to Noble Energy Inc. CIX Gas Company LLC to Noble Energy Inc. To Noble E	ONX Gas Company LLC ONX Gas Company LLC HG Energy II to Noble Energy Inc. to Noble Energy Inc. Appalacha LL 752/66 905/94 931/43	CNX Gas Company LLC CNX Gas Company LLC HG Energy I to Noble Energy Inc. to Noble Energy Inc. Appalachia LI 752/66 909/94 931/43	N/A	N/A	N/A	N/A	Assignment
Inc to	Inc to	.C.	Noble Energy Inc to HG Energy II Appalachia LLC: 931/43	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Assignment
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286		Assignment Memorandum of

STATE OF WEST VIRGINIA §
COUNTY OF MARSHALL §

ASSIGNMENT AND CONVEYANCE

THIS ASSIGNMENT AND CONVEYANCE (the "Assignment") is made and entered into this 29th day of March, 2018 (the "Effective Date"), by and between HG ENERGY II APPALACHIA, LLC, (hereinafter "Assignor") and TH EXPLORATION, LLC (hereinafter "Assignee") pursuant to the terms of that certain Exchange Agreement between the Assignor and the Assignee dated November 1st, 2017 (the "Exchange Agreement"). Capitalized terms used but not defined herein and defined in the Exchange Agreement shall have the meanings given to such terms in the Exchange Agreement.

WITNESSETH:

WHEREAS, Assignor desires to assign, set over, and transfer to Assignee all of Assignor's right, title, and interest in and to those certain Oil and Gas Leases situated in Marshall County, West Virginia, as described in Exhibit "A", attached hereto and made a part hereof (hereinafter the "Leases"); and

WHEREAS, Assignor desires to assign, set over, and transfer to Assignee all of Assignor's right, title, and interest in and to the Leases as described below.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and subject to the limited warranties, restrictions and conditions hereinafter mentioned, the parties hereto, intending to be legally bound, do covenant and agree as follows:

1. <u>Assignment</u>. Assignor does hereby grant, bargain, sell, convey, deliver, assign, set over and transfer, as of the Effective Date, to Assignee, its respective successors and assigns, forever, all of Assignor's right, title and interest in and to the Leases, and the lands covered thereby, together with all rights incident thereto and appurtenances thereon.

TO HAVE AND TO HOLD such right, title and interest in and to the Leases unto Assignee or its designee, and their respective successors and assigns, forever, in accordance with the provisions of this Assignment.

2. <u>Special Warranty.</u> Assignor represents and warrants that Assignor has not conveyed or otherwise encumbered (other than Permitted Encumbrances) its interest in the Leases since the time that Assignor obtained its interests in the Leases. Assignor does

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51-02219

STATE OF WEST VIRGINIA
COUNTY OF MARSHALL

Marshall County
Jan Pest, Clerk
Instrument 1428356
08/16/2017 @ 12:08:49 PM
ASSIGNMENTS
Book 40 @ Page 127
Pages Recorded 25
Recording Cost \$ 33.00

ASSIGNMENT AND CONVEYANCE

THIS ASSIGNMENT AND CONVEYANCE (the "Assignment") is made and entered into this day of AUQUSY 2017 (the "Effective Date"), by and between CHEVRON U.S.A. INC. (hereinafter "Assignor") and TH EXPLORATION, LLC (hereinafter "Assignee") pursuant to the terms of that certain Acreage Trade Agreement between the Assignor and the Assignee dated the 1st day of August, 2017 (the "Acreage Trade Agreement"). Capitalized terms used but not defined herein and defined in the Acreage Trade Agreement shall have the meanings given to such terms in the Acreage Trade Agreement.

WITNESSETH:

WHEREAS, Assignor desires to assign, set over, and transfer to Assignee all of Assignor's right, title, and interest in and to those certain Oil and Gas Leases situated in Marshall County, West Virginia, as described in Exhibit "A", attached hereto and made a part hereof (hereinafter the "Leases"), less and except certain overriding royalty interests and exclusions; and

WHEREAS, Assignor desires to assign, set over, and transfer to Assignee all of Assignor's right, title, and interest in and to the Leases as described below, subject to certain overriding royalty interests and less and except certain exclusions.

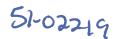
NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and subject to the limited warranties, restrictions and conditions hereinafter mentioned, the parties hereto, intending to be legally bound, do covenant and agree as follows:

- I. <u>Assignment</u>. Assignor does hereby grant, bargain, sell, convey, deliver, assign, set over and transfer, as of the Effective Date, to Assignee, its respective successors and assigns, forever, all of Assignor's right, title and interest in and to the Leases, and the lands covered thereby, together with all rights incident thereto and appurtenances thereon, except that Assignor excepts and reserves from this Assignment the following:
 - A. The Chevron ORRI previously conveyed to Assignor and as described in that certain Memorandum of Assignment of Oil and Gas Lease Interests dated November 6, 2012 by and between Cornell Holdings Incorporated and Chevron U.S.A. Inc., which is recorded at Book 0028, Page 0239 in the Office of the County Clerk of Marshall County, West Virginia, and
 - B. As to each of the Leases and all oil, gas, and associated hydrocarbons produced, saved and sold thereunder, an overriding royalty interest equal to the difference between 82% and the

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MIK 0988 PAGE 0286



MEMORANDUM OF OPERATING AGREEMENT AND FINANCING STATEMENT

This Memorandum of Operating Agreement and Financing Statement (hereinafter referred to as "Memorandum") is executed to be effective concurrently with that certain Operating Agreement (the "Operating Agreement") by and between TH Exploration, LLC, as Operator, and HG Energy II Appalachia, LLC and TH Exploration II, LLC, as Non-Operators, covering, among other things, the development and production of crude oil, natural gas and associated substances from the leases (hereinafter called the "Contract Area") described on Exhibit "A-1" and Exhibit "A-2" attached hereto and owned by Operator and Non-Operator in the respective percentages of shares indicated on Exhibit "A" to the Operating Agreement.

The Operating Agreement contains an Accounting Procedure, along with provisions giving the parties hereto mutual liens and security interests where one or more parties hereto are or may become Debtors to one or more other parties hereto. This Memorandum incorporates by reference all of the terms and conditions of the Operating Agreement, including but not limited to the lien and security interest provisions.

The purpose of this Memorandum is to place third parties on notice of the Operating Agreement, and to secure and perfect the mutual liens and security interests of the parties hereto.

The Operating Agreement specifically provides and the parties do hereby confirm and agree that:

- The Operator shall conduct and direct and have full control of all operations on the Contract Area as permitted and required by, and within the limits of, the Operating Agreement.
- The liability of the parties under the Operating Agreement shall be several, not
 joint or collective. Each party shall be responsible only for its obligations and
 shall be liable only for its proportionate share of costs.
- Each Non-Operator grants to Operator a lien upon its oil and gas rights, oil and 3. gas leases and mineral interests in the Contract Area, and a security interest in its share of oil and/or gas when extracted and its interest in all fixtures, inventory, personal property and equipment located on or used on the Contract Area and in all its contract rights and receivables related thereto and arising therefrom to secure payment of its present and future share of costs and expenses, together with interest thereon at the rate provided in the Accounting Procedure referred to above. To the extent that Operator has a security interest under the Uniform Commercial Code ("Code") of the state or states in which the Contract Area is located, Operator without prejudice and in addition to all other legal, equitable and contractual remedies which are expressly reserved, shall be entitled to exercise the rights and remedies of a secured party under the Code. The bringing of a suit and the obtaining of judgment by Operator for the secured indebtedness shall not be deemed an election of remedies or otherwise affect the rights or security interests for the payment thereof.
- 4. The Operator grants to Non-Operator a lien and security interest equivalent to that granted to Operator as described in Paragraph 3 above, to secure payment by Operator of its own share of costs and expenses when due.

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BOOK 0 0 4 3 PAGE 0 1 6 4

51-02219

STATE OF WEST VIRGINIA
COUNTY OF MARSHALL

ASSIGNMENT AND CONVEYANCE

THIS ASSIGNMENT AND CONVEYANCE (the "Assignment") is made and entered into this day of CHEVRON U.S.A. INC. (hereinafter "Assignor") and TH EXPLORATION, LLC (hereinafter "Assignee") pursuant to the terms of that certain Acreage Trade Agreement between the Assignor and the Assignee dated the 1st day of February, 2019 (the "Acreage Trade Agreement"). Capitalized terms used but not defined herein and defined in the Acreage Trade Agreement shall have the meanings given to such terms in the Acreage Trade Agreement.

WITNESSETH:

WHEREAS, Assignor desires to assign, set over, and transfer to Assignee all of Assignor's right, title, and interest in and to those certain Oil and Gas Leases situated in Marshall County, West Virginia, as described in Exhibit "A", attached hereto and made a part hereof (hereinafter the "Leases"), less and except certain overriding royalty interests and exclusions; and

WHEREAS, Assignor desires to assign, set over, and transfer to Assignee all of Assignor's right, title, and interest in and to the Leases as described below, subject to certain overriding royalty interests and less and except certain exclusions.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and subject to the limited warranties, restrictions and conditions hereinafter mentioned, the parties hereto, intending to be legally bound, do covenant and agree as follows:

- 1. Assignment. Assignor does hereby grant, bargain, sell, convey, deliver, assign, set over and transfer, as of the Effective Date, to Assignee, its respective successors and assigns, forever, all of Assignor's right, title and interest in and to the Leases, and the lands covered thereby, together with all rights incident thereto and appurtenances thereon, except that Assignor excepts and reserves from this Assignment the following:
 - A. The Chevron ORRI previously conveyed to Assignor and as described in that certain Memorandum of Assignment of Oil and Gas Lease Interests dated November 6, 2012 by and between Cornell Holdings Incorporated and Chevron U.S.A. Inc., which is recorded at Book 0028, Page 0239 in the Office of the County Clerk of Marshall County, West Virginia, and
 - B. Any portion of the Leases set forth in the column entitled "Less and Except" on Exhibit A.

TO HAVE AND TO HOLD such right, title and interest in and to the Leases unto Assignee or its designee, and their respective successors and assigns, forever, in accordance with the provisions of this Assignment.

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May 9, 2019

WV Department of Environmental Protection Office of Oil & Gas 601 57th Street, SE Charleston, WV 25304 Attention: Laura Adkins

RE: Michter N-8HU

Subject: Marshall County Route 74 Road Crossing Letter

Dear Laura:

Tug Hill Operating, LLC (THO) hereby submits this letter as confirmation that THO has obtained the right to drill, extract and produce the minerals under Marshall County Route 74 in the area reflected on the Michter N-8HU well plat. THO has conducted a full title search in the relevant Court House to confirm its ownership under said County Routes and is not currently aware of any recorded document that would suggest an ownership other than THO.

If your office has any questions or concerns regarding the contents of this letter, please do not hesitate to contact me directly at 304-376-0111, or by email at amiller@tug-hillop.com.

Sincerely,

Amy Miller

Permit Specialist – Appalachia Region

Cell 304-376-0111

anyttelle

Email: amiller@tug-hillop.com

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WV Department of Environmental Protection

380 SOUTHPOINTE BLVD • SUITE 200 • CANONSBURG, PA 15317 • T 724.485-2000 • F

724.338.2030

Date of Notice Certification: 05/09/2019

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE CERTIFICATION

API No. 47- 051

Operator's Well No. Michter N-8HU

		,	Well Pad N	ame: Michter		
Notice has h						
Pursuant to th	e provisions in West Virginia Code §	22-6A, the Operator has provi	ided the req	uired parties w	rith the Notice Forms listed	
below for the	tract of land as follows:					
State:	West Virginia		Easting:	517,328.60		
County:	Marshall	UIM NAD 83	Northing:	4,405,909.03		
District:	Franklin	Public Road Acce	ss:	Rines Ridge Road (County Route 76)		
Quadrangle:	Powhatan Point 7.5'	Generally used far	rm name:	Larry W. Dunlap and Charles Leroy Dunlap		
Watershed:	Fish Creek (HUC 10)			-		
prescribed by it has provide information re of giving the requirements Virginia Code	West Virginia Code § 22-6A-7(b), of the secretary, shall be verified and shed the owners of the surface described equired by subsections (b) and (c), see surface owner notice of entry to surface owner notice of entry to surface of subsection (b), section sixteen of a § 22-6A-11(b), the applicant shall to have been completed by the applicant	nall contain the following informed in subdivisions (1), (2) are ction sixteen of this article; (ii) rivey pursuant to subsection (as f this article were waived in render proof of and certify to the	rmation: (14 and (4), substitute the recall that the recall), section to the writing by	A certification ection (b), secquirement was en of this articular the surface ow	on from the operator that (i) tion ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice ther; and Pursuant to West	
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the required	erator has attached proof to the diparties with the following:	is Notice C	ertification	OOG OFFICE USE	
*PLEASE CHE	ECK ALL THAT APPLY				ONLY	
☐ 1. NOT	TICE OF SEISMIC ACTIVITY or	NOTICE NOT REQUIR SEISMIC ACTIVITY WAS		1	☐ RECEIVED/ NOT REQUIRED	
■ 2. NO	ΓΙCE OF ENTRY FOR PLAT SURV	EY or \square NO PLAT SURVE	EY WAS CO	ONDUCTED	☐ RECEIVED	
☐ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIR NOTICE OF ENTRY FOR PWAS CONDUCTED or			☐ RECEIVED/ NOT REQUIRED	
		☐ WRITTEN WAIVER B (PLEASE ATTACH)	BY SURFA	CE OWNER		
■ 4. NO	TICE OF PLANNED OPERATION				☐ RECEIVED	
■ 5. PUE	BLIC NOTICE				☐ RECEIVED	
■ 6. NO	TICE OF APPLICATION				RECEIVED	

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

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WW-6AC (1/12)

51-02219

Certification of Notice is hereby given:

THEREFORE, I Amy L. Miller , have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator:Tug Hill Operating, LLCAddress:380 Southpointe Boulevard, Plaza II, Suite 200By:Amy L. MillerCanonsburg, PA 15317Its:Permitting SpecialistFacsimile:412-338-2030Telephone:724-749-8388Email:amiller@tug-hillop.com

COMMONWEIGHT OF EMENNSYLVANIA

NOTARIAL SEAL
Matthew W. Reese, Notary Public
Cranberry Twp., Butler County
My Commission Expires June 30, 2019
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Subscribed and sworn before me this 9 day of May, 2019

My Commission Expires 6-30-2019

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at deprivacyofficer@wv.gov.

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WW-6A (9-13)

API NO. 47- 051 OPERATOR WELL NO. Michter N-8HU
Well Pad Name: Michter

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 3/23/2019 Date Permit Application Filed: 3/29/2019 Notice of: ✓ PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) PERSONAL ☐ REGISTERED ✓ METHOD OF DELIVERY THAT REQUIRES A **SERVICE** MAIL RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. ☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice ☐ Well Plat Notice is hereby provided to: ☑ COAL OWNER OR LESSEE ☑ SURFACE OWNER(s) Name: CNX Resources, LLC - Attn: Casey Saunders Name: Larry W. and Barbara E. Dunlap (Pad and Access Road) Address: 1000 CONSOL Energy Drive Address: 1549 Irish Ridge Road Cameron, WV 26033 Canonsburg, PA 15318 Name: Karen Sue Reed and Clyde Reed (Well Pad) ☐ COAL OPERATOR Address: 100 Orchard Lane Name: Moundsville, WV 26041 Address: ☑ SURFACE OWNER(s) (Road and/or Other Disturbance) RECEIVED
Office of Oil and Gas Name: Charles Leroy Dunlap (Pad and Acdess Road) ☐ SURFACE OWNER OF WATER WELL Address: 21 Gypsy Drive AND/OR WATER PURVEYOR(s) Moundsville, WV 26041 Name: MAY 17 2019 Name: Address: Address: OPERATOR OF ANY NATURAL GAS STOR ANY PROPERTY OF ANY NATURAL GAS STOR AND PROPERTY OF ☐ SURFACE OWNER(s) (Impoundments or Pits) Name: Name: Address: Address: *Please attach additional forms if necessary

API NO. 47- 051 - 0 2219
OPERATOR WELL NO. Michter N-8HU
Well Pad Name: Michter

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <a href="https://www.dep.www.dep

Well Location Restrictions

MAY 17 2019

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be for human or domestic animal consumption. The center of well pads may not be for human or domestic animal consumption. hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

API NO. 47-051 - O 22-L9
OPERATOR WELL NO. Michter N-8HU
Well Pad Name: Michter

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as the experiment of the application of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304 (304) 926-0450 MAY 17 2019

WV Department of Environmental Protection

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

API NO. 47-051 - 02219 OPERATOR WELL NO. Michter N-8HU Well Pad Name: Michter

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY** (30) **DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Office of Oil and Gas
MAY 1 7 2019

WV Department of Environmental Protection WW-6A (8-13)

API NO. 47- 051 OPERATOR WELL NO. Michter N-8HU Well Pad Name: Michter

Notice is hereby given by:

Well Operator: Tug Hill Operating, LLC

Telephone: 724-749-8388

Email: amiller@tug-hillop.com any thele Address: 380 Southpointe Boulevard, Plaza II, Suite 200

Canonsburg, PA 15317

Facsimile: 724-338-2030

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

COMMONWEALTH OF PENNSYLVANIA

NOTARIAL SEAL Chester Arthur West IV, Notary Public Pine Twp., Allegheny County
My Commission Expires Feb. 10, 2020
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES Subscribed and sworn before me this 26 day of March, 2019

Notary Public

My Commission Expires____

RECEIVED
Office of Oil and Gas MAY 17 2019

WV Department of Environmental Protection

WW-6A

Supplement Pg. 1A

Tug Hill Operating, LLC 380 Southpointe BLVD, Suite 200 Canonsburg, PA 15317

WATER WELL REPORT

Well: MICHTER N-8HU

District: Franklin County: Marshall State: WV

There appears to be Five (5) possible water sources within 2,000 feet of the above referenced well location.

Topo Spot # 1 TM 11 Par. 1.6 Debra Morris 304-810-0813 1082 Rines Ridge Rd. Proctor, WV 26055	Topo Spot # 2 TM 11 Par. 1.6 Debra Morris 304-810-0813 1082 Rines Ridge Rd. Proctor, WV 26055	Topo Spot # 3 TM 11 Par. 1.7 William S. & Mary K. Adams 330-7\8-0404 P.O. Box 303 Canfield, OH 44406
Topo Spot # 4 TM 11 Par. 1.3 Jay A. Conner, et ux 304-845-0641 1117 Rine Ridge Rd. Proctor, WV 26055	Topo Spot # 5 TM 11 Par. 21 Karen Reed, et al 304-845-7536 100 Orchard Ln. Moundsville, WV 26041	

RECEIVED
Office of Oil and Gas

MAY 1 7 2019

WV Department of Environmental Protection

Rose, Susan W

From:

Slagel, Luke < Luke. Slagel@chevron.com>

Sent:

Wednesday, July 3, 2019 11:31 AM

To:

Rose, Susan W

Cc:

Stockman, David; Coleman, Kevin; Laird, Susan; Martz, Kenneth

Subject:

RE: Chevron Objection - Tug Hill Michter N-8HU and N-9HU

Hi Susan,

Chevron is hereby removing our objection to the Tug Hill Michter N-8HU and N-9HU. Please let me know if you need any other information.

Thank you,

Luke Slagel

Land Representative Luke.Slagel@chevron.com

Appalachian Mountain Business Unit

Chevron North America Exploration and Production Company a division of Chevron U.S.A. Inc. 700 Cherrington Parkway Coraopolis, PA 15108 Office (412)-865-1426 Cell (412) 667-2722

From: Slagel, Luke

Sent: Monday, June 3, 2019 10:36 AM **To:** Rose, Susan W <Susan.W.Rose@wv.gov>

Cc: Stockman, David <dstockman@chevron.com>; Coleman, Kevin <kcoleman@chevron.com>; Laird, Susan

<SLaird@chevron.com>; Martz, Kenneth <kmartz@chevron.com>
Subject: Chevron Objection - Tug Hill Michter N-8HU and N-9HU

Good morning Susan.

Chevron is hereby objecting to Tug Hill's application for the Michter N-8HU and Michter N-9HU. Chevron currently owns multiple leasehold interests within the planned operations. We are working to come to an agreement with Tug Hill in regards to these interests, but as of today, we have not executed a deal. I foresee us coming to an agreement with Tug Hill in the coming weeks and will notify you when that happens. However, until subject deal is closed, we are objecting to these wells.

Please let me know if you have any questions or need any additional information.

Regards,

Luke Slagel

Land Representative Luke.Slagel@chevron.com

51-02219

Rose, Susan W

From:

Slagel, Luke < Luke. Slagel@chevron.com>

Sent:

Monday, June 3, 2019 10:36 AM

To:

Rose, Susan W

Cc:

Stockman, David; Coleman, Kevin; Laird, Susan; Martz, Kenneth

Subject:

Chevron Objection - Tug Hill Michter N-8HU and N-9HU

Attachments:

Tug Hill_Michter N-9HU_Notice of Deviation.pdf; Tug Hill_Michter N-8HU_Notice of

Deviation.pdf

Good morning Susan.

Chevron is hereby objecting to Tug Hill's application for the Michter N-8HU and Michter N-9HU. Chevron currently owns multiple leasehold interests within the planned operations. We are working to come to an agreement with Tug Hill in regards to these interests, but as of today, we have not executed a deal. I foresee us coming to an agreement with Tug Hill in the coming weeks and will notify you when that happens. However, until subject deal is closed, we are objecting to these wells.

Please let me know if you have any questions or need any additional information.

Regards,

Luke Slagel

Land Representative Luke.Slagel@chevron.com

Appalachian Mountain Business Unit

Chevron North America Exploration and Production Company a division of Chevron U.S.A. Inc. 700 Cherrington Parkway Coraopolis, PA 15108 Office (412)-865-1426



Oil and Gas Conservation Commission 601 57th Street SE, Charleston, WV 25304 304-926-0499 Ext 1274

Barry K. Lay, Chairman dep.wv.gov

May 22, 2019

Barbara Louellen Rose Mary Lou Rose 2027 Fish Creek Rd Proctor WV 26055

91 7199 9991 7039 1715 2120

RE

Intentional Deviation of New Deep Well Tug Hill Operating, LLC – Michter N-8HU

Dear Ma'am:

Please be advised that Tug Hill Operating, LLC, has applied to the Oil and Gas Conservation Commission for approval to intentionally deviate a new deep well. The Code of State Regulations Title 39 Section 1.4.10 requires that the Commission notify the offset operators of the applicants' intent to deviate the proposed well. You are receiving this notice because you are listed as an offset operator (unleased mineral owner is also an "offset operator") to the proposed well. Any offset operator has ten days to object to the Commissions' granting approval to the proposed deviation. If you file an objection, the Commission will schedule a hearing and you will be notified of the date and time to attend.

A copy of the location plat is enclosed for your review. If no objection(s) are received within ten 10 days from the date of delivery, the application will be processed in the normal manner.

If you have any questions please call me at (304) 926-0499, extension 1274.

Sincerely,

Susan Rose Administrator



June 26, 2019

Dear Susan Rose:

The following is in response to your request for proof of delivery on your item with the tracking number: 9171 9999 9170 3917 1521 20.

Item Details

Status: Delivered, Left with Individual

Status Date / Time: May 29, 2019, 12:35 pm

Location: PROCTOR, WV 26055

Postal Product: First-Class Mail®
Extra Services: Certified Mail™

Return Receipt Electronic

Shipment Details

Weight: 5lb, 14.3oz

Recipient Signature

Signature of Recipient:

Address of Recipient:

Signature of Rose
Private MATELL L. ROSE

District
Assissa JOAN PSH CAR RD PORTAL IN

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assistance, please contact your local Post Office™ or a Postal representative at 1-800-222-1811.

Sincerely, United States Postal Service® 475 L'Enfant Plaza SW Washington, D.C. 20260-0004



Oil and Gas Conservation Commission 601 57th Street SE, Charleston, WV 25304 304-926-0499 Ext 1274

Barry K. Lay, Chairman dep.wv.gov

May 22, 2019

Robert M. White Diane White 1951 Fish Creek Rd Proctor WV 26055

47 5742 6602 T666 6672 T6

RE:

Intentional Deviation of New Deep Well Tug Hill Operating, LLC – Michter N-8HU

Dear Sir and Ma'am:

Please be advised that Tug Hill Operating, LLC, has applied to the Oil and Gas Conservation Commission for approval to intentionally deviate a new deep well. The Code of State Regulations Title 39 Section 1.4.10 requires that the Commission notify the offset operators of the applicants' intent to deviate the proposed well. You are receiving this notice because you are listed as an offset operator (unleased mineral owner is also an "offset operator") to the proposed well. Any offset operator has ten days to object to the Commissions' granting approval to the proposed deviation. If you file an objection, the Commission will schedule a hearing and you will be notified of the date and time to attend.

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Sincerely,

Susan Rose Administrator

veu lose



June 26, 2019

Dear Susan Rose:

The following is in response to your request for proof of delivery on your item with the tracking number: 9171 9999 9170 3917 1521 13.

Item Details

Status:

Delivered

Status Date / Time:

May 28, 2019, 8:29 am

Location:

PROCTOR, WV 26055

Postal Product:

First-Class Mail®

Extra Services:

Certified Mail™

Return Receipt Electronic

Shipment Details

Recipient Signature

Weight:

5lb, 14.1oz

Signature of Recipient:

Deani Whis

ASI PISPURSITED

Address of Recipient:

UK KAU M YIK

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Sincerely, United States Postal Service® 475 L'Enfant Plaza SW Washington, D.C. 20260-0004



Oil and Gas Conservation Commission 601 57th Street SE, Charleston, WV 25304 304-926-0499 Ext 1274

Barry K. Lay, Chairman dep.wv.gov

May 22, 2019

Shriners Hospitals For Children c/o The Northern Trust Company 2900 Rocky Point Drive Tampa FL 33607

91 7199 9991 7039 1715 2106

RE:

Intentional Deviation of New Deep Well Tug Hill Operating, LLC – Michter N-8HU

Dear Sir:

Please be advised that Tug Hill Operating, LLC, has applied to the Oil and Gas Conservation Commission for approval to intentionally deviate a new deep well. The Code of State Regulations Title 39 Section 1.4.10 requires that the Commission notify the offset operators of the applicants' intent to deviate the proposed well. You are receiving this notice because you are listed as an offset operator (unleased mineral owner is also an "offset operator") to the proposed well. Any offset operator has ten days to object to the Commissions' granting approval to the proposed deviation. If you file an objection, the Commission will schedule a hearing and you will be notified of the date and time to attend.

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Sincerely,

Susan Rose Administrator



June 26, 2019

Dear Susan Rose:

The following is in response to your request for proof of delivery on your item with the tracking number: 9171 9999 9170 3917 1521 06.

Item Details

Status:

Delivered, Front Desk/Reception/Mail Room

Status Date / Time:

May 28, 2019, 2:44 pm

Location:

TAMPA, FL 33607

Postal Product:

First-Class Mail®

Futus Comitosos

Certified Mail™

Extra Services:

Certified Mail

Return Receipt Electronic

Shipment Details

Weight:

5lb, 13.5oz

Recipient Signature

Signature of Recipient:

Address of Recipient:

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Oil and Gas Conservation Commission 601 57th Street SE, Charleston, WV 25304 304-926-0499 Ext 1274

Barry K. Lay, Chairman dep.wv.gov

May 22, 2019

Chevron Appalachia LLC 700 Cherrington Pkwy 04108C Coraopolis PA 15108

91 7199 9991 7039 1715 2090

RE:

Intentional Deviation of New Deep Well

Tug Hill Operating, LLC - Michter N-8HU

Dear Sir:

Please be advised that Tug Hill Operating, LLC, has applied to the Oil and Gas Conservation Commission for approval to intentionally deviate a new deep well. The Code of State Regulations Title 39 Section 1.4.10 requires that the Commission notify the offset operators of the applicants' intent to deviate the proposed well. You are receiving this notice because you are listed as an offset operator (unleased mineral owner is also an "offset operator") to the proposed well. Any offset operator has ten days to object to the Commissions' granting approval to the proposed deviation. If you file an objection, the Commission will schedule a hearing and you will be notified of the date and time to attend.

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Sincerely,

Susan Rose Administrator



June 26, 2019

Dear Susan Rose:

The following is in response to your request for proof of delivery on your item with the tracking number: 9171 9999 9170 3917 1520 90.

Item Details

Status:

Delivered, Left with Individual

Status Date / Time:

May 28, 2019, 2:43 pm

Location:

CORAOPOLIS, PA 15108

Postal Product:

First-Class Mail®

Extra Services:

Certified Mail™

Return Receipt Electronic

Shipment Details

Recipient Signature

Weight:

5lb, 14.3oz

Signature of Recipient:

Dates Maloning Too Charcin (for Mult

Address of Recipient:

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Oil and Gas Conservation Commission 601 57th Street SE, Charleston, WV 25304 304-926-0499 Ext 1274

Barry K. Lay, Chairman dep.wv.gov

May 22, 2019

HG Energy II Appalachia, LLC 5260 Dupont Rd Parkersburg WV 26101

91 7199 9991 7039 1715 2083

RE:

Intentional Deviation of New Deep Well Tug Hill Operating, LLC – Michter N-8HU

Dear Sir:

Please be advised that Tug Hill Operating, LLC, has applied to the Oil and Gas Conservation Commission for approval to intentionally deviate a new deep well. The Code of State Regulations Title 39 Section 1.4.10 requires that the Commission notify the offset operators of the applicants' intent to deviate the proposed well. You are receiving this notice because you are listed as an offset operator (unleased mineral owner is also an "offset operator") to the proposed well. Any offset operator has ten days to object to the Commissions' granting approval to the proposed deviation. If you file an objection, the Commission will schedule a hearing and you will be notified of the date and time to attend.

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Sincerely.

Susan Rose Administrator



June 26, 2019

Dear Susan Rose:

The following is in response to your request for proof of delivery on your item with the tracking number: 9171 9999 9170 3917 1520 83.

Item Details

Status:

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Status Date / Time:

May 28, 2019, 11:26 am

Location:

PARKERSBURG, WV 26101

Postal Product:

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Extra Services:

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Return Receipt Electronic

Shipment Details

Weight:

5lb, 14.6oz

Recipient Signature

Signature of Recipient:

Address of Recipient:

L
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Oil and Gas Conservation Commission 601 57th Street SE, Charleston, WV 25304 304-926-0499 Ext 1274

Barry K. Lay, Chairman dep.wv.gov

May 22, 2019

TH Exploration, LLC 1320 S. University Dr Ste 500 Ft Worth TX 76107

91 7199 9991 7039 1715 2076

RE:

Intentional Deviation of New Deep Well Tug Hill Operating, LLC – Michter N-8HU

Dear Sir:

Please be advised that Tug Hill Operating, LLC, has applied to the Oil and Gas Conservation Commission for approval to intentionally deviate a new deep well. The Code of State Regulations Title 39 Section 1.4.10 requires that the Commission notify the offset operators of the applicants' intent to deviate the proposed well. You are receiving this notice because you are listed as an offset operator (unleased mineral owner is also an "offset operator") to the proposed well. Any offset operator has ten days to object to the Commissions' granting approval to the proposed deviation. If you file an objection, the Commission will schedule a hearing and you will be notified of the date and time to attend.

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Sincerely,

Susan Rose Administrator



June 26, 2019

Dear Susan Rose:

The following is in response to your request for proof of delivery on your item with the tracking number: 9171 9999 9170 3917 1520 76.

Item Details

Status:

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Status Date / Time:

May 28, 2019, 2:43 pm

Location:

FORT WORTH, TX 76107

Postal Product:

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Extra Services:

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Return Receipt Electronic

Shipment Details

Weight:

5lb, 14.4oz

Recipient Signature

Signature of Recipient:

Address of Recipient:

320 5 University

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Oil and Gas Conservation Commission 601 57th Street SE, Charleston, WV 25304 304-926-0499 Ext 1274

Barry K. Lay, Chairman dep.wv.gov

May 22, 2019

Courtney D. Hall PO Box 673 Pine Lake GA 30072

91 7144 4447 460 Thub 6412 Th

RE: Intentional Deviation of New Deep Well

Tug Hill Operating, LLC - Michter N-8HU

Dear Ma'am:

Please be advised that Tug Hill Operating, LLC, has applied to the Oil and Gas Conservation Commission for approval to intentionally deviate a new deep well. The Code of State Regulations Title 39 Section 1.4.10 requires that the Commission notify the offset operators of the applicants' intent to deviate the proposed well. You are receiving this notice because you are listed as an offset operator (unleased mineral owner is also an "offset operator") to the proposed well. Any offset operator has ten days to object to the Commissions' granting approval to the proposed deviation. If you file an objection, the Commission will schedule a hearing and you will be notified of the date and time to attend.

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If you have any questions please call me at (304) 926-0499, extension 1274.

Sincerely,

Susan Rose Administrator

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Tracking Number: 9171999991703917152137

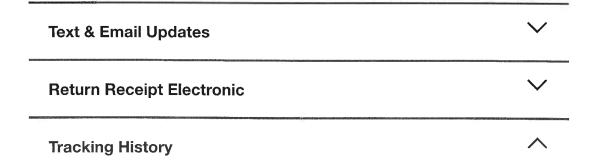
Remove X

Your item was returned to the sender on June 13, 2019 at 9:43 am in CHARLESTON, WV 25301 because the addressee moved and left no forwarding address.

Alert

June 13, 2019 at 9:43 am Moved, Left no Address CHARLESTON, WV 25301

Get Updates ✓



June 13, 2019, 9:43 am Moved, Left no Address CHARLESTON, WV 25301

Your item was returned to the sender on June 13, 2019 at 9:43 am in CHARLESTON, WV 25301 because the addressee moved and left no forwarding address.

Feedback

June 12, 2019 In Transit to Next Facility

June 9, 2019, 5:08 am
Arrived at USPS Regional Facility
GAINESVILLE FL DISTRIBUTION CENTER

May 29, 2019, 11:07 am Moved, Left no Address PINE LAKE, GA 30072

May 29, 2019, 11:03 am Arrived at Unit PINE LAKE, GA 30072

May 26, 2019, 10:44 pm
Departed USPS Regional Destination Facility
ATLANTA NORTH METRO DISTRIBUTION CENTER

May 25, 2019, 7:57 pm Arrived at USPS Regional Destination Facility ATLANTA NORTH METRO DISTRIBUTION CENTER

May 24, 2019, 4:27 am
Departed USPS Regional Facility
CHARLESTON WV PROCESSING CENTER

May 23, 2019, 10:17 pm Arrived at USPS Regional Origin Facility CHARLESTON WV PROCESSING CENTER

May 23, 2019, 9:02 pm Accepted at USPS Origin Facility CHARLESTON, WV 25311

May 23, 2019

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Offset Operators within 1500' Michter N - 8HU

COUNTY	DISTRICT	PARCEL	OWNER	En W Den
COOKIT	DISTRICT	PARCEL	OWNER	ADDRESS ⁿ m _{ent}
				380 Southpointe Blvd., Ste
MARSHALL	FRANKLIN	5-11-1	TH EVELOPATION I.I.C	200
WANSHALL	FRANKLIN	2-11-1	TH EXPLORATION LLC	Canonsburg, PA 15317
				380 Southpointe Blvd., Ste
MARSHALL	ED V VIVI IVI	F 11 1 1	THEY DIG DATION HE	200
IVIANSHALL	FRANKLIN	5-11-1.1	TH EXPLORATION LLC	Canonsburg, PA 15317
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MARSHALL	FRANKLIN	F 11 1 2	THE EVEL OF ATION HE	200
WIANSHALL	FRAINCLIN	5-11-1.2	TH EXPLORATION LLC	Canonsburg, PA 15317
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MARSHALL	FRANKLIN	5-11-1.3	TH EVELOPATION IS C	200
MANSHALL	FRANKLIN	5-11-1.5	TH EXPLORATION LLC	Canonsburg, PA 15317
				380 Southpointe Blvd., Ste
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WANSHALL	FRANKLIN	5-11-1.4	TH EXPLORATION LLC	Canonsburg, PA 15317
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MAKSHALL	FRANKLIN	5-11-1.5	TH EXPLORATION LLC	Canonsburg, PA 15317
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MARSHALL	FRANKLIN	5-11-1.6	TH EXPLORATION LLC	Canonsburg, PA 15317
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MARSHALL	FRANKLIN	5-11-1.7	TH EXPLORATION LLC	Canonsburg, PA 15317
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MARSHALL	FRANKLIN	5-11-2	TH EXPLORATION LLC	Canonsburg, PA 15317
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MARSHALL	FRANKLIN	5-11-2.1	TH EXPLORATION LLC	Canonsburg, PA 15317
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MARSHALL	FRANKLIN	5-11-2.2	TH EXPLORATION LLC	Canonsburg, PA 15317
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MARSHALL	FRANKLIN	5-11-21	TH EXPLORATION LLC	Canonsburg, PA 15317
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MARSHALL	FRANKLIN	5-12-10	TH EXPLORATION LLC	Canonsburg, PA 15317
NAARGUAU	==		HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-12-10	LLC	Parkersburg, WV 26101
				380 Southpointe Blvd., Ste
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MARSHALL	FRANKLIN	5-12-10.1	TH EXPLORATION LLC	Canonsburg, PA 15317
			HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-12-10.1	LLC	Parkersburg, WV 26101
				380 Southpointe Blvd., Ste
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MARSHALL	FRANKLIN	5-12-12	TH EXPLORATION LLC	Canonsburg, PA 15317
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MARSHALL	FRANKLIN	5-12-9	TH EXPLORATION LLC	Canonsburg, PA 15317
			HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-6-10	LLC	Parkersburg, WV 26101
			HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-6-3	LLC	Parkersburg, WV 26101
			HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-6-3.1	LLC	Parkersburg, WV 26101

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MARSHALL	FRANKLIN	5-6-4	LLC	Parkersburg, WV 26101
			HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-6-5	LLC	Parkersburg, WV 26101
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MARSHALL	FRANKLIN	5-6-6	LLC	Parkersburg, WV 26101
			HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-6-11	LLC	Parkersburg, WV 26101
			HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-7-10	LLC	Parkersburg, WV 26101
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MARSHALL	FRANKLIN	5-7-10.1	LLC	1
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MARSHALL	CD A NUZUANA	F 7 44	CHEV/DOM ADDAM AGUILLA	04108C
IVIARSHALL	FRANKLIN	5-7-11	CHEVRON APPALACHIA LLC	Coraopolis, PA 15108
NAADCIJAJI	EB 44400 / 1		HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-7-12	LLC	Parkersburg, WV 26101
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MARSHALL	FRANKLIN	5-7-14.1	LLC	Parkersburg, WV 26101
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MARSHALL	FRANKLIN	5-7-14.2	LLC	Parkersburg, WV 26101
			HG ENERGY II APPALACHIA	5260 Dupont Road
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IVIANSHALL	FRANKLIN	5-7-15	LLC	Parkersburg, WV 26101
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MARSHALL	FRANKLIN	5-7-15.1	LLC	Parkersburg, WV 26101
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			HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-7-17	LLC	Parkersburg, WV 26101
			HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-7-18	LLC	Parkersburg, WV 26101
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MARSHALL	FRANKLIN	5-7-18.1	LLC	Parkersburg, WV 26101
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MARSHALL	FRANKLIN	5-7-2	LLC	Parkersburg, WV 26101
			HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-7-21	LLC	Parkersburg, WV 26101
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MARSHALL	FRANKLIN	5-7-22	TH EXPLORATION LLC	Canonsburg, PA 15317
. TIT WOLLALL	COMMINEN	J-/-ZZ	HG ENERGY II APPALACHIA	
MARSHALL	EDANIZIA	E 7 22		5260 Dupont Road
IVIANSHALL	FRANKLIN	5-7-23	LLC	Parkersburg, WV 26101
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MARSHALL	FRANKLIN	5-7-23.1	LLC	Parkersburg, WV 26101
			HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-7-23.2	LLC	Parkersburg, WV 26101
				700 Cherrington Pkwy,
				04108C
			CHEVRON APPALACHIA LLC	Coraopolis, PA 15108
MARSHALL	FRANKLIN	5-7-24	CHEVITON ALL ACTUALLE	100140pons, 174 15100
MARSHALL	FRANKLIN	5-7-24	HG ENERGY II APPALACHIA	
MARSHALL MARSHALL	FRANKLIN	5-7-24 5-7-25		5260 Dupont Road
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			HG ENERGY II APPALACHIA	5260 Dupont Road

				700 Cherrington Pkwy, 04108C
MARSHALL	FRANKLIN	5-7-27	CHEVRON APPALACHIA LLC	Coraopolis, PA 15108
		3,2,	HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-7-27.1	LLC	Parkersburg, WV 26101
			HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-7-28	LLC	Parkersburg, WV 26101
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MARSHALL	FRANKLIN	5-7-28.1	TH EXPLORATION LLC	Canonsburg, PA 15317
				700 Cherrington Pkwy,
				04108C
MARSHALL	FRANKLIN	5-7-29	CHEVRON APPALACHIA LLC	Coraopolis, PA 15108
A A D C L A L .	ED ANIZUM		HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-7-3.2	LLC	Parkersburg, WV 26101
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WARSHALL	FRANKLIN	5-7-3.3	LLC	Parkersburg, WV 26101
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MARSHALL	FRANKLIN	5-7-31	TH EXPLORATION LLC	200
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MARSHALL	FRANKLIN	5-7-31.2	TH EXPLORATION LLC	Canonsburg, PA 15317
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MARSHALL	FRANKLIN	5-7-31.3	TH EXPLORATION LLC	Canonsburg, PA 15317
			HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-7-31.4	LLC	Parkersburg, WV 26101
				380 Southpointe Blvd., S
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MARSHALL	FRANKLIN	5-7-32	TH EXPLORATION LLC	Canonsburg, PA 15317
			HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-7-33	LLC	Parkersburg, WV 26101
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WANSHALL	FRANKLIN	5-7-33	TH EXPLORATION LLC HG ENERGY II APPALACHIA	Canonsburg, PA 15317 5260 Dupont Road
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THE COUNTY OF TH	TTO GATCETTA	3 7 34		380 Southpointe Blvd., S
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MARSHALL	FRANKLIN	5-7-35	TH EXPLORATION LLC	Canonsburg, PA 15317
			HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-7-35.1	LLC	Parkersburg, WV 26101
				380 Southpointe Blvd., S
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MARSHALL	FRANKLIN	5-7-39	TH EXPLORATION LLC	Canonsburg, PA 15317
			HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-7-4	LLC	Parkersburg, WV 26101
			HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-7-5	LLC	Parkersburg, WV 26101
MADCHALL	ED A NUCLEY		HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-7-5.1	LLC ENERGY II ARRAI AGUIA	Parkersburg, WV 26101
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MARSHALL	FRANKLIN	5_8_2	TH EXPLORATION LLC	Canonchura DA 15317
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	. To dettem	301		380 Southpointe Blvd., Ste
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MARSHALL	FRANKLIN	5-8-4.1	TH EXPLORATION LLC	Canonsburg, PA 15317
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MARSHALL	FRANKLIN	5-8-5	LLC	Parkersburg, WV 26101
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MARSHALL	FRANKLIN	5-8-7	TH EXPLORATION LLC	Canonsburg, PA 15317
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MARSHALL	FRANKLIN	5-8-9	TH EXPLORATION LLC	Canonsburg, PA 15317
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MARSHALL	FRANKLIN	5-8-9.1	TH EXPLORATION LLC	Canonsburg, PA 15317
			HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-8A-1	LLC	Parkersburg, WV 26101
			HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-8A-10	LLC	Parkersburg, WV 26101
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MARSHALL	FRANKLIN	5-8A-11	LLC	Parkersburg, WV 26101
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MARSHALL	FRANKLIN	5-8A-12	LLC	Parkersburg, WV 26101
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MARSHALL	FRANKLIN	5-8A-13	LLC	Parkersburg, WV 26101
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MARSHALL	FRANKLIN	5-8A-14	LLC	Parkersburg, WV 26101
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MARSHALL	FRANKLIN	5-8A-15	LLC	Parkersburg, WV 26101
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MARSHALL	FRANKLIN	5-8A-16	LLC	Parkersburg, WV 26101
			HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-8A-17	LLC	Parkersburg, WV 26101
				380 Southpointe Blvd., Ste
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MARSHALL	FRANKLIN	5-8A-17	TH EXPLORATION LLC	Canonsburg, PA 15317
			SHRINERS HOSPITALS FOR	
			CHILDREN C/O THE	2900 Rocky Point Drive
MARSHALL	FRANKLIN	5-8A-17	NORTHERN TRUST COMPANY	Tampa, FL 33607
			HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-8A-18	LLC	Parkersburg, WV 26101
				380 Southpointe Blvd., Ste
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MARSHALL	FRANKLIN	5-8A-18	TH EXPLORATION LLC	Canonsburg, PA 15317
			SHRINERS HOSPITALS FOR	
			CHILDREN C/O THE	2900 Rocky Point Drive
MARSHALL	FRANKLIN	5-8A-18	NORTHERN TRUST COMPANY	Tampa, FL 33607
			HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-8A-19	LLC	Parkersburg, WV 26101
				380 Southpointe Blvd., Ste
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MARSHALL	FRANKLIN	5-8A-19	TH EXPLORATION LLC	Canonsburg, PA 15317
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			SHRINERS HOSPITALS FOR	
			CHILDREN C/O THE	2900 Rocky Point Drive
MARSHALL	FRANKLIN	5-8A-19	NORTHERN TRUST COMPANY	Tampa, FL 33607
			HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-8A-2	LLC	Parkersburg, WV 26101

			HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-8A-20	LLC	Parkersburg, WV 26101
		3 6/1 20	HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-8A-21	LLC	Parkersburg, WV 26101
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MARSHALL	FRANKLIN	5-8A-22	TH EXPLORATION LLC	Canonsburg, PA 15317
	7,11,11,11,11,11	3 37.22	HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-8A-23	LLC	Parkersburg, WV 26101
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MARSHALL	FRANKLIN	5-8A-24	TH EXPLORATION LLC	Canonsburg, PA 15317
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MARSHALL	FRANKLIN	5-8A-25	TH EXPLORATION LLC	
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MARSHALL	FRANKLIN	5-8A-26	LLC	5260 Dupont Road
WANSHALL	FRANKLIN	3-6A-20	LLC	Parkersburg, WV 26101
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	FRANKLIN	5-8A-28	LLC	Parkersburg, WV 26101
MARSHALL	FRANKLIN	5-8A-29	ROBERT F. RYAN HEIRS	UNKNOWN
NAADCHAH			HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-8A-29	LLC	Parkersburg, WV 26101
			HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-8A-3	LLC	Parkersburg, WV 26101
				380 Southpointe Blvd., St
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MARSHALL	FRANKLIN	5-8A-30	TH EXPLORATION LLC	Canonsburg, PA 15317
MARSHALL	FRANKLIN	5-8A-30	ROBERT F. RYAN HEIRS	UNKNOWN
				380 Southpointe Blvd., St
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MARSHALL	FRANKLIN	5-8A-31	TH EXPLORATION LLC	Canonsburg, PA 15317
			SHRINERS HOSPITALS FOR	
			CHILDREN C/O THE	2900 Rocky Point Drive
MARSHALL	FRANKLIN	5-8A-31	NORTHERN TRUST COMPANY	Tampa, FL 33607
				380 Southpointe Blvd., St
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MARSHALL	FRANKLIN	5-8A-32	TH EXPLORATION LLC	Canonsburg, PA 15317
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MARSHALL	FRANKLIN	5-8A-33	TH EXPLORATION LLC	200 Canonsburg, PA 15317
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MARSHALL MARSHALL	FRANKLIN	5-8A-33 5-8A-33	SHRINERS HOSPITALS FOR	Canonsburg, PA 15317
			SHRINERS HOSPITALS FOR CHILDREN C/O THE	Canonsburg, PA 15317 2900 Rocky Point Drive
			SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY	Canonsburg, PA 15317 2900 Rocky Point Drive Tampa, FL 33607
MARSHALL	FRANKLIN	5-8A-33	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY HG ENERGY II APPALACHIA	Canonsburg, PA 15317 2900 Rocky Point Drive Tampa, FL 33607 5260 Dupont Road Parkersburg, WV 26101
MARSHALL	FRANKLIN	5-8A-33	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY HG ENERGY II APPALACHIA	Canonsburg, PA 15317 2900 Rocky Point Drive Tampa, FL 33607 5260 Dupont Road Parkersburg, WV 26101
MARSHALL	FRANKLIN	5-8A-33	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY HG ENERGY II APPALACHIA	Canonsburg, PA 15317 2900 Rocky Point Drive Tampa, FL 33607 5260 Dupont Road Parkersburg, WV 26101 380 Southpointe Blvd., St
MARSHALL MARSHALL	FRANKLIN	5-8A-33 5-8A-34	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY HG ENERGY II APPALACHIA LLC	Canonsburg, PA 15317 2900 Rocky Point Drive Tampa, FL 33607 5260 Dupont Road Parkersburg, WV 26101 380 Southpointe Blvd., St
MARSHALL MARSHALL	FRANKLIN	5-8A-33 5-8A-34	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY HG ENERGY II APPALACHIA LLC	Canonsburg, PA 15317 2900 Rocky Point Drive Tampa, FL 33607 5260 Dupont Road Parkersburg, WV 26101 380 Southpointe Blvd., St
MARSHALL MARSHALL	FRANKLIN	5-8A-33 5-8A-34	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY HG ENERGY II APPALACHIA LLC TH EXPLORATION LLC	Canonsburg, PA 15317 2900 Rocky Point Drive Tampa, FL 33607 5260 Dupont Road Parkersburg, WV 26101 380 Southpointe Blvd., St
MARSHALL MARSHALL	FRANKLIN	5-8A-33 5-8A-34	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY HG ENERGY II APPALACHIA LLC TH EXPLORATION LLC SHRINERS HOSPITALS FOR	Canonsburg, PA 15317 2900 Rocky Point Drive Tampa, FL 33607 5260 Dupont Road Parkersburg, WV 26101 380 Southpointe Blvd., St 200 Canonsburg, PA 15317
MARSHALL MARSHALL MARSHALL	FRANKLIN FRANKLIN FRANKLIN	5-8A-33 5-8A-34 5-8A-35	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY HG ENERGY II APPALACHIA LLC TH EXPLORATION LLC SHRINERS HOSPITALS FOR CHILDREN C/O THE	Canonsburg, PA 15317 2900 Rocky Point Drive Tampa, FL 33607 5260 Dupont Road Parkersburg, WV 26101 380 Southpointe Blvd., St 200 Canonsburg, PA 15317 2900 Rocky Point Drive Tampa, FL 33607
MARSHALL MARSHALL MARSHALL	FRANKLIN FRANKLIN FRANKLIN	5-8A-33 5-8A-34 5-8A-35	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY HG ENERGY II APPALACHIA LLC TH EXPLORATION LLC SHRINERS HOSPITALS FOR CHILDREN C/O THE	Canonsburg, PA 15317 2900 Rocky Point Drive Tampa, FL 33607 5260 Dupont Road Parkersburg, WV 26101 380 Southpointe Blvd., St 200 Canonsburg, PA 15317 2900 Rocky Point Drive Tampa, FL 33607 380 Southpointe Blvd., St
MARSHALL MARSHALL MARSHALL	FRANKLIN FRANKLIN FRANKLIN	5-8A-33 5-8A-34 5-8A-35	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY HG ENERGY II APPALACHIA LLC TH EXPLORATION LLC SHRINERS HOSPITALS FOR CHILDREN C/O THE	Canonsburg, PA 15317 2900 Rocky Point Drive Tampa, FL 33607 5260 Dupont Road Parkersburg, WV 26101 380 Southpointe Blvd., St 200 Canonsburg, PA 15317 2900 Rocky Point Drive Tampa, FL 33607 380 Southpointe Blvd., St 200
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				380 Southpointe Blvd.,
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MARSHALL	FRANKLIN	5-8A-37	TH EXPLORATION LLC	Canonsburg, PA 15317
				380 Southpointe Blvd.,
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MARSHALL	FRANKLIN	5-8A-38	TH EXPLORATION LLC	Canonsburg, PA 15317
			SHRINERS HOSPITALS FOR	
			CHILDREN C/O THE	2900 Rocky Point Drive
MARSHALL	FRANKLIN	5-8A-38	NORTHERN TRUST COMPANY	Tampa, FL 33607
			HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-8A-39	LLC	Parkersburg, WV 2610:
				380 Southpointe Blvd., 200
MARSHALL	FRANKLIN	5-8A-39	TH EXPLORATION LLC	Canonsburg, PA 15317
TVI TIOTI TEE	TIVATULLIA	J-6A-33	THE EXPEDITATION LEC	700 Cherrington Pkwy,
				04108C
MARSHALL	FRANKLIN	5-8A-4	CHEVRON APPALACHIA LLC	Coraopolis, PA 15108
				12.5.00
			SHRINERS HOSPITALS FOR	
			CHILDREN C/O THE	2900 Rocky Point Drive
MARSHALL	FRANKLIN	5-8A-40		Tampa, FL 33607
			HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-8A-40	LLC	Parkersburg, WV 26101
				380 Southpointe Blvd.,
MARSHALL	FRANKLIN	5-8A-40	TH EXPLORATION LLC	200
WARSHALL	INAMELIN	J-6A-40	TH EXPLORATION LLC	Canonsburg, PA 15317
			SHRINERS HOSPITALS FOR	
			CHILDREN C/O THE	2900 Rocky Point Drive
MARSHALL	FRANKLIN	5-8A-41	NORTHERN TRUST COMPANY	Tampa, FL 33607
			HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-8A-41	LLC	Parkersburg, WV 26101
				380 Southpointe Blvd., S
				200
MARSHALL	FRANKLIN	5-8A-41	TH EXPLORATION LLC	Canonsburg, PA 15317
			ROBERT M. WHITE AND	1951 Fish Creek Road
MARSHALL	FRANKLIN	5-8A-42	DIANE WHITE	Proctor, WV 26055
MARSHALL	EDANIZITA	E 0A 43	HG ENERGY II APPALACHIA	5260 Dupont Road
MANUSTIALL	FRANKLIN	5-8A-42	LLC	Parkersburg, WV 26101
				380 Southpointe Blvd., 9
MARSHALL	FRANKLIN	5-8A-43	TH EXPLORATION LLC	Canonsburg, PA 15317
		2 37, 13	The second secon	carronspurg, IA 1331/
			SHRINERS HOSPITALS FOR	
			CHILDREN C/O THE	2900 Rocky Point Drive
MARSHALL	FRANKLIN	5-8A-43	NORTHERN TRUST COMPANY	Tampa, FL 33607
				380 Southpointe Blvd., S
				200
MARSHALL	FRANKLIN	5-8A-44	TH EXPLORATION LLC	Canonsburg, PA 15317
			SHRINERS HOSPITALS FOR	
			CHILDREN C/O THE	2000 Rocky Point Daint
MARSHALL	FRANKLIN	5-8A-44	NORTHERN TRUST COMPANY	2900 Rocky Point Drive Tampa, FL 33607
	. IV MAINEIN	J 0A-44	HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-8A-45	LLC	Parkersburg, WV 26101
				2010
			BARBARA LOUELLEN ROSE	2027 Fish Creek Road
MARSHALL	FRANKLIN	5-8A-46	AND MARY LOU ROSE, JTROS	Proctor, WV 26055
IVIANSHALL				
IVIANSHALL			HG ENERGY II APPALACHIA	5260 Dupont Road

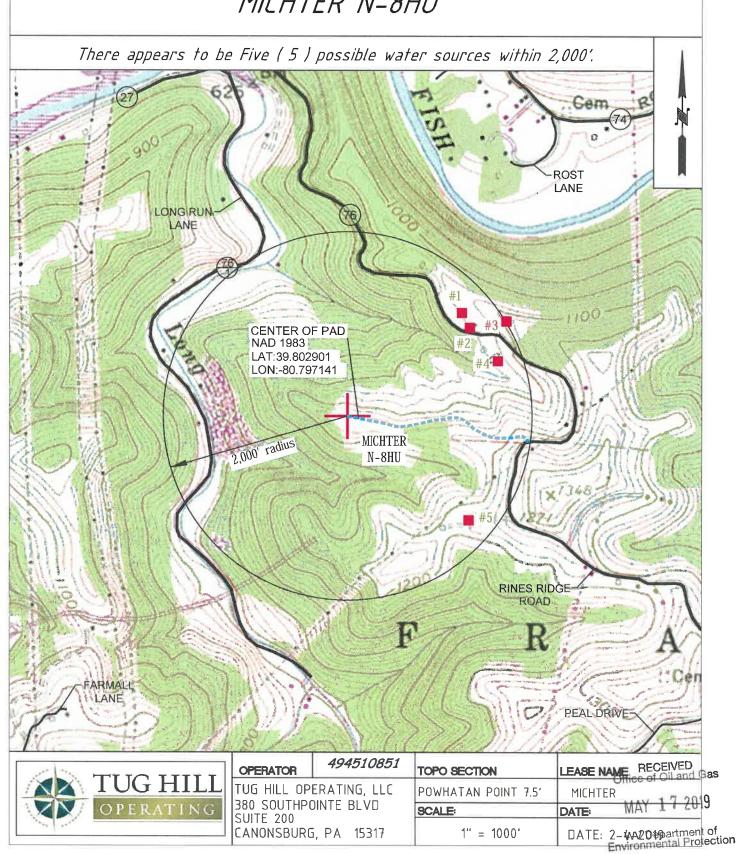
			HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-8A-47	LLC	Parkersburg, WV 26101
				P.O. Box 673
MARSHALL	FRANKLIN	5-8A-48	COURTNEY D HALL	Pine Lake, GA 30072
			SHRINERS HOSPITALS FOR	
			CHILDREN C/O THE	2900 Rocky Point Drive
MARSHALL	FRANKLIN	5-8A-48	NORTHERN TRUST COMPANY	Tampa, FL 33607
			HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-8A-48	LLC	Parkersburg, WV 26101
				380 Southpointe Blvd., St
				200
MARSHALL	FRANKLIN	5-8A-48	TH EXPLORATION LLC	Canonsburg, PA 15317
				P.O. Box 673
MARSHALL	FRANKLIN	5-8A-49	COURTNEY D HALL	Pine Lake, GA 30072
			SHRINERS HOSPITALS FOR	
			CHILDREN C/O THE	2900 Rocky Point Drive
MARSHALL	FRANKLIN	5-8A-49	NORTHERN TRUST COMPANY	Tampa, FL 33607
111111111111111111111111111111111111111	TTO WILLIA	3 0A 43	NORTHERN TROST COMPANY	380 Southpointe Blvd., St
				200
MARSHALL	FRANKLIN	5-8A-49	TH EXPLORATION LLC	Canonsburg, PA 15317
WWW. WOLL	TIVATALLIA	3 64-43	HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-8A-49	LLC	Parkersburg, WV 26101
TVI (TOTI) (EE	TIVATULLIA	J-6A-43		700 Cherrington Pkwy,
				104108C
MARSHALL	FRANKLIN	5-8A-5	CHEVRON APPALACHIA LLC	
TVI (NOTI) (EE	TIVALETT	3 0 1 3	HG ENERGY II APPALACHIA	Coraopolis, PA 15108 5260 Dupont Road
MARSHALL	FRANKLIN	5-8A-50	LLC	Parkersburg, WV 26101
	1100000000	3 6/(30	HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-8A-51	LLC	Parkersburg, WV 26101
		3 0.1.31	HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-8A-52	LLC	Parkersburg, WV 26101
		0 0.1.02	HG ENERGY II APPALACHIA	5260 Dupont Road
MARSHALL	FRANKLIN	5-8A-53	LLC	Parkersburg, WV 26101
			HG ENERGY II APPALACHIA	5261 Dupont Road
MARSHALL	FRANKLIN	5-8A-54	LLC	Parkersburg, WV 26101
		0 0.1.01	HG ENERGY II APPALACHIA	5262 Dupont Road
MARSHALL	FRANKLIN	5-8A-54.1	LLC	Parkersburg, WV 26101
			HG ENERGY II APPALACHIA	5262 Dupont Road
MARSHALL	FRANKLIN	5-8A-55	LLC	Parkersburg, WV 26101
		1		700 Cherrington Pkwy,
				04108C
MARSHALL	FRANKLIN	5-8A-6	CHEVRON APPALACHIA LLC	Coraopolis, PA 15108
				700 Cherrington Pkwy,
				04108C
MARSHALL	FRANKLIN	5-8A-7	CHEVRON APPALACHIA LLC	Coraopolis, PA 15108
			HG ENERGY II APPALACHIA	5262 Dupont Road
MARSHALL	FRANKLIN	5-8A-8	LLC	Parkersburg, WV 26101
				700 Cherrington Pkwy,
		1		04108C
MARSHALL	FRANKLIN	5-8A-9	CHEVRON APPALACHIA LLC	Coraopolis, PA 15108
		WV FISH		5260 Dupont Road
MARSHALL	FRANKLIN	CREEK	HG ENERGY II APPALACIA LLC	Parkersburg, WV 26101

.

WW-6A

PROPOSED MICHTER N-8HU

SUPPLEMENT PG 1



STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

entry	7	Requirement: e: 1/14/2019	Notice shall be provi			s but no more than	1 FORTY-FIVE	(45) days	prior	to	
			to West Virginia Co								
	very mee.			uc 3 2	2 021 104						
	PERSON	\square	REGISTERED	18	METHOD OF DEL	IVERY THAT RE	QUIRES A				
	SERVIC	E	MAIL		RECEIPT OR SIGN	ATURE CONFIR	MATION				
on to but r bene own and t Secr enab	o the surfa- no more the eath such er of mine Sediment etary, whole the sur	ace tract to contain forty-five tract that has ferals underlyin Control Manuich statement of face owner to	ode § 22-6A-10(a), Paduct any plat surveys days prior to such entitled a declaration pursue such tract in the coulail and the statutes and shall include contact is obtain copies from the	requir y to: (uant to inty ta I rules nforma	ed pursuant to this ard 1) The surface owner by section thirty-six, ar ax records. The notice related to oil and gas attion, including the ac-	ticle. Such notice s of such tract; (2) ticle six, chapter to shall include a state exploration and pro-	shall be provided a to any owner or le wenty-two of this attement that copie roduction may be	at least se essee of co code; and es of the s obtained	even da oal sea d (3) au tate Er from t	nys ms ny rosion che	
Noti	ce is her	eby provided	to:								
	SURFAC	CE OWNER(s)) <u>t</u>		COAL	OWNER OR LE	SSEE				
Nam	ie: Larry W.	and Barbara E. Dur	nlap (Pad and Access Road)		Name: CNX	Name: CNX Land Resources, LLC Atttn: Casey Saunders					
Add	ress: 1549	Irish Ridge Road	1			000 CONSOL Energy Dri					
	eron, WV 260		\	N 3	Canonsburg,	Canonsburg, PA 15317					
	-	Leroy Dunlap (Pad a	and Access Road)								
Add	ress: 21 G	ypsy Drive			■ MINE	RAL OWNER(s)					
	ndsville, WV		## LVIII		Name: Larr	y W. and Barbara E. Dunla	ap (see attached list)				
	-	ue Reed and Clyde	Reed (Well Pad)		Address: 1	549 Irish Ridge Road					
	-	Orchard Lane		=		Cameron, WV 26033					
IVIOUTI	dsville, WV 2	20041			*please attach	additional forms if ne	cessary				
Purs	uant to Wat survey of the control of	on the tract of West Virginia Marshall	Code § 22-6A-10(a), no land as follows:	otice is	Approx. Latitu Public Road A	ıde & Longitude:	39.8027785; -80.79733 Rines Ridge Road (Co	528		duct	
		Franklin	51			Watershed: Fish Creek (HUC 10) Generally used farm name: Larry Dunlap, et al					
Qua	drangle:	Powhatan Point 7.	0.		Generally used	u tarm name:	Larry Dunlap, et al				
may Cha	be obtair rleston, W	ned from the S VV 25304 (30-	and Sediment Control ecretary, at the WV D 4-926-0450). Copies by visiting <u>www.dep</u>	epartn of sucl	nent of Environmenta n documents or additi	l Protection headquonal information r	uarters, located at	601 57 th	Street,	SE,	
Not	ica is ha	reby given b	1 7.					RI RI	ECEIVE	ED.	
	l Operato	* •	•		Address:	200 Couther-lists De la	and Diane II Out 000	Office of	of Oil a	nd Gas	
	phone:		ung, LLC		Addicss.	380 Southpointe Boulev		MAN	1.7	2010	
Ema	-	724-749-8388	lon com		Facsimile:	Canosnburg, PA 15317		MAI	14	2019	
בווומ	P11.	amiller@tug-hil	iop.com		racsinine:	724-338-2030		WVD	epartm	ent of	
Oil	and Gas	Privacy No	tice:					Environm	ental P	rotection	

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at deprivacyofficer@wv.gov.

WW-6A3 NOTICE OF ENTRY FOR PLAT SURVEY ATTACHMENT #1

WELL: MICHTER N-8HU

Mineral Owners (Well Pad)
Charles Leroy Dunlap
21 Gypsy Drive
Moundsville, WV 26041

Karen Sue Reed and Clyde Reed 100 Orchard Lane Moundsville, WV 26041

Boyde Buesking 402 Hickory Street Bloomington, IL 61701

Christian Drayer Staley 6725 Minier Road Minier, IL 61759

Rebecca Drayer Eldridge 465 Harts Way Collierville, TN 38017

Gennie Sue Thomas Petrack 704 N. School Street Normal, IL 61761

Brenda Faye Thomas Petrack 998 Willow Drive Pittsburgh, PA 15237

Guy Yates 4102 Blacks Road SW Hebron, OH 43025

Gail Ann Yates Wood 8161 Goldsmith Drive Reynoldsburg, OH 43068

Shirley Yates Hartsell 2150 Yorkdale Lane Reynoldsburg, OH 13068

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS **NOTICE OF PLANNED OPERATION**

Date of Notice	e: 03/27/2019 Date Permit Application	_		application.
Delivery meth	ood pursuant to West Virginia Code § 22-6A-1	6(c)		
	TED MAIL IN RECEIPT REQUESTED IN LECTION DELIVER.			
return receipt rethe planned op required to be drilling of a heddamages to the (d) The notices of notice.	. Va. Code § 22-6A-16(c), no later than the data requested or hand delivery, give the surface owner provided by subsection (b), section ten of this art orizontal well; and (3) A proposed surface use a surface affected by oil and gas operations to the same that the provided to the SURFACE OWNER(s).	er whose land n shall included icle to a surfa and compens extent the da rface owner a	will be used for de: (1) A copy ace owner whos ation agreemen mages are comp	or the drilling of a horizontal well notice of of this code section; (2) The information e land will be used in conjunction with the t containing an offer of compensation for pensable under article six-b of this chapter.
•	listed in the records of the sheriff at the time of r		(aren Sue Ree and Cl	lyde Reed (See attached list)
Address: 4549 li			: 100 Orchard Lane	,
Cameron, WV 260			lle, WV 26041	
	est Virginia Code § 22-6A-16(c), notice is hereby he surface owner's land for the purpose of drillin West Virginia		l well on the tra Easting:	ct of land as follows: 517,328.60
County: District:	Marshall Franklin	Public Road 2	Northing:	4,405,909.03
Quadrangle:			ed farm name:	Rines Ridge Road (County Route 76) Larry W. Dunlap and Charles Leroy Dunlap
	Fish Creek (HUC 10)	denerally use	a farm name.	Larry W. Durliap and Charles Lerby Dunlap
to be provided horizontal wel surface affecte information re	est Virginia Code § 22-6A-16(c), this notice shall by W. Va. Code § 22-6A-10(b) to a surface of and (3) A proposed surface use and compensated by oil and gas operations to the extent the datalated to horizontal drilling may be obtained fro located at 601 57 th Street, SE, Charleston, V	owner whose tion agreement omages are community that the Secret	land will be untraining an ompensable und ary, at the WV	ased in conjunction with the drilling of a offer of compensation for damages to the er article six-b of this chapter. Additional Department of Environmental Protection
Well Operator	Tug Hill Operating, LLV	Address:	380 Southpointe Box	ulevard, Plaza II, Suite 200
Telephone:	724-749-8388		Canonsburg PA 153	317
Email:	amiller@tug-hillop.com	Facsimile:	724-338-2030	
Oil and Gas P	Privacy Notice:			

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov. RECEIVED Office of Oil and Gas

MAY 17 2019

WV Department of Environmental Protection

WW-6A5 Attachment Michter N-8HU

Additional Landowner

Charles Leroy Dunlap 21 Gypsy Drive Moundsville, WV 26041



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

June 19, 2018

Thomas J. Smith, P. E. Secretary of Transportation/Commissioner of Highways

Jill M. Newman Deputy Commissioner

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protection 601 57th Street, SE Charleston, WV 25304

Subject: DOH Permits for the Michter Well Pad, Marshall County

Michter N-8HU

Dear Mr. Martin,

This well site will be accessed from Permit #06-2018-0480 issued to Tug Hill Operating for access to the State Road for a well site located off of Marshall County Route 76 SLS.

The operator has signed a DISTRICT WIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

Gary K. Clayton, P.E.

Yang K. Clayton

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Jonathan White

Tug Hill Operating

CH, OM, D-6

File

RECEIVED
Office of Oil and Gas

MAY 17 2019

WV Department of Environmental Protection

E.E.O./AFFIRMATIVE ACTION EMPLOYER



PLANNED ADDITIVES TO BE USED IN FRACTURING OR STIMULATION

Well No. Michter N-8HU

PRODUCT NAME: CHEMICAL DESCRIPTION: PRODUCT USE: **HAZARDOUS COMPONENT:**

GBW-20C Hemicellulase Breaker Breaker - Water None

ALPHA 1427 Biocide Glutaraldehyde - CAS#000111-30-8

Quatemary ammonium chloride

CAS# 007173-51-5

Alky dimethyl benzyl ammonium Chloride (C12-16) - CAS#068424-85-1

Ethanol - CAS# 000064-17-5 Water - CAS# 007732-18-5

FRAC SAND Silica Sand (various Mesh Crystalline silica (quartz) Proppant CAS# 14808-60-7

sizes)

S-8C, Sand Silica Sand (100 mesh) Sand Silica - CAS# 14808-60-7

GW-3LDF Gellant - Water Petroleum Distillate Blend - Proprietary,

> (Not Associated with Diesel Fuel) Guar gum - CAS# 009000-30-0

FRW-18 Friction Reducer Hydrotreated light distillate

CAS# 064742-47-8

Scaletrol Scale Inhibitor Ethylene glycol – CAS# 000107-21-1

Diethylene glycol – CAS# 000111-46-6

WV Department of Environmental Protection

380 SOUTHPOINTE BLVD • SUITE 200 • CANONSBURG, PA 15317 • T 724.485-2000 • F 724.338.2030

