

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

Permit approval for MICHTER N-9HU

47-051-02220-00-00

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-9HU

Farm Name: LARRY W. DUNLAP, ET AL

Horizontal 6A New Drill

U.S. WELL NUMBER: 47-051-02220-00-00

Date Issued: 9/24/2019

Promoting a healthy environment.

API Number: 47-051-02220

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

- 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.

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 #47-051-02220

COMPANY: Tug Hill Operating, LLC

FARM: Larry W. Dunlap, et ux

Michter N-9HU

COUNTY:

Marshall

DISTRICT: Franklin

QUAD: Powhatan Point

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

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 with the exception of the heel which is _332 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-8HU 47-051-02219, 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. 47-051 - O22 2-C)
OPERATOR WELL NO. Michter N-9HU
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 Op	erating, LLC	494510851	Marshall	Franklin	Powhatan Point 7
		Operator ID	County	District	Quadrangle
2) Operator's Well Number: Mi	chter N-9HU	Well Pa	nd Name: Mich	ter	
3) Farm Name/Surface Owner:	Larry W. Dunlar	o, et ux Public Ro	ad Access: Rin	es Ridge Ro	ad (County Route 76)
4) Elevation, current ground:	1136.00' E	Elevation, proposed	l post-construct	ion: 1127.	11'
5) Well Type (a) Gas X Other	Oil	Uno	derground Stora	ge	
	illow	Deep	X	lo a	5/5/19
6) Existing Pad: Yes or No No		 -		0	5/2/
7) Proposed Target Formation(s Point Pleasant is the target formation		•			e of approx. 9,500 psi
8) Proposed Total Vertical Dept	h: 11,197'				
9) Formation at Total Vertical D	epth: Trenton				
10) Proposed Total Measured D	epth: 25,542'				
11) Proposed Horizontal Leg Le	ngth: 13,275.0)4'			
12) Approximate Fresh Water S	trata Depths:	718'			= = = = = = = = = = = = = = = = = = = =
13) Method to Determine Fresh14) Approximate Saltwater Dep	•	Offset well reports or r	noticeable flow at th	e flowline or w	hen need to start soaping
15) Approximate Coal Seam De	pths: Sewickly	Coal - 614' and F	ittsburgh Coal	- 712'	
16) Approximate Depth to Possi	ble Void (coal m	nine, karst, other):	None anticipa	ted	
17) Does Proposed well location directly overlying or adjacent to			No	, <u>X</u>	
(a) If Yes, provide Mine Info:	Name:				
	Depth:				
	Seam:				
	Owner:				

API NO. 47- 051 51 - 0 2 2 2 0 OPERATOR WELL NO. Michter N-9HU

Well Pad Name: Michter

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	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#	10,539'	10,539'	3,430ft^3(CTS)
Production	5 1/2"	NEW	P110	23#	25,542'	25,542'	6,030ft^3(CTS)
Tubing	2 7/8"	NEW	P110	6.5#		11,550'	
Liners							- He 2-111

Jul 5/19

TYPE	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

Kind:	N/A		
Sizes:	N/A		
Depths Set:	N/A		

WW-68
(10/14)

API NO. 47-051 - 02220
OPERATOR WELL NO. Michter N-9HU

Well Pad Name: Michter

MJ5/19

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 33,181,300 lb proppant and 513,007 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:

Will circulate a minimum of 3 hours at TD, short trip to curve, circulate bottoms up, check for flow, POOH

*Note: Attach additional sheets as needed.

Page 3 of 3

	CASING SUMMARY	e (in) Csg Size (in) Depth (MD) Depth (TVD) Weight (lb/ft) Grade	120' 120' BW BW	20 20 010 010 100.3 171/7 133/8 7,600' 7,600' 57.5	12.1/4 95/8 10,539' 9,827' 47 HPP110	Production 8 1/2 51/2 25,542' 10,745' 23 HCP110 Surface	CEMENT SUMMARY DRILLING DETAILS	Sacks Class Density Fluid Type Centralizer Notes		Surface 1,430 A 15.6 Air 3 Centralizers at equal distance		ntermediate 2 2,806 A 14.5 Air 1 Centralizer every other jt	Production 5,216 A 15 Air / SOBM Levery other joint in lateral; 1 per joint in curve;					D' C A		Company of the Compan	Lateral TD @ 25,542' ft MD	10,745 ft TVD							
WELL NAME: Michter N-9HU STATE: WV DISTRICT: Franklin DE Flev: 1,130' TH Latitude: 99,80296476 TH Longitude: -80.795323 BH Longitude: 90.795323	FORMATION TOPS	Formation Depth TVD Type Hole Size (in) Ceg (in) Depth IMD	810 Mb / 810 TVD Deepest Fresh Water 718' Conductor 36 30 120' Sawirklaw Chal 614' Curface 76 20 910'	DHrethursh (Asi 1717 132/8 2001 1717 132/8 2001 1717 172/8 2001	Big Lime 2,056' Intermediate 2 12.1/4 95/8 10,539'	Berea 2,570' Production 81/2 51/2 25,542'	Marcellus 6,289'	13.3/8" Csg @ Onondaga 6,343" Sacks Class Density	Salina 7,035' Conductor 338 A 15.6	Surface 1,430 A 15.6	Intermediate 1 1,989 A 15	Point Pleasant 10,926' Intermediate 2 2,806 A 14.5	Landing Depth 10,976' Production 5,216 A 15	Trenton 11,047'	Pilot Hole TD 11,197	out to	Mante and State of the State of	KOP @ 11,050' ft MD	The state of the s	The state of the s	Pilot Hole: PH TD @		i Envi,	Offi ML WV I	RI Ce o	ECEING OF ARTMAN	VED and 201	Gas 9	•



Tug Hill Operating, LLC Casing and Cement Program

Michter N-9HU

		C	asing		
	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"	10,539'	CTS
Production	5 1/2"	HCP110	8 1/2"	25,542'	CTS

Cement

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

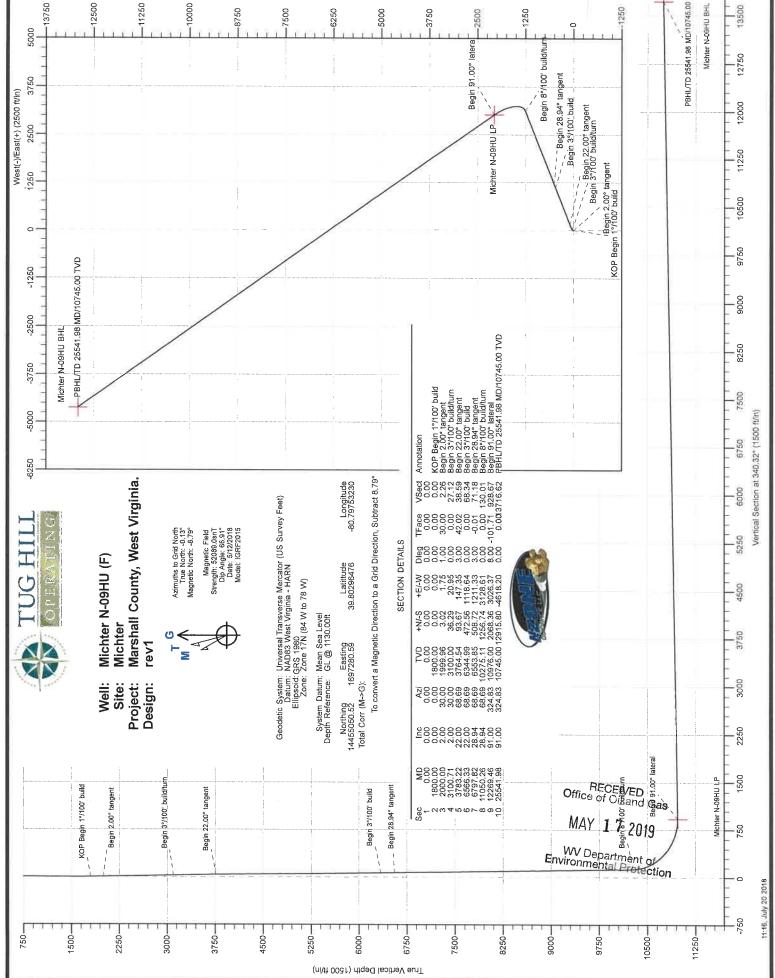
Intermediate 1: Premium NE-1 + 1% bwoc CaC12 + 46.5% Fresh Water – Intermediate Cement mixed at 15.6 ppg, Y=1.2

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

50:50 Poz: Premium NE-1 + .1% bwoc ASA-301 + 60lb/sk ASCA-1 + .35% bwoc BA-10A + .25% bwoc MPA-Production: 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



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





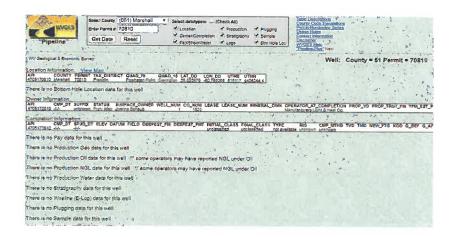
Permit well - Michter N-9HU

Wells within 500' Buffer

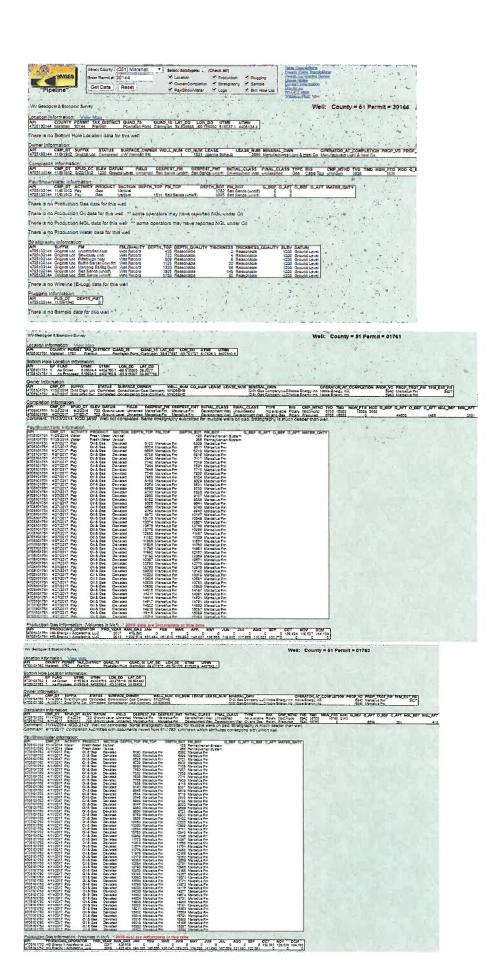
Note: Well spots depicted on Area of Review map (page 3) are derived from State held coordinates. The spots may differ from those depicted on the Well Plat

because the Plat locations represent actual field surveyed locations. Please refer to the Plat for surveyed well spots

ecause the Platic	cations represent ac	tuai field surve	eyed locations	. Please refer to the Plat f	or surveyed well spots	
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
					Uknown but unlikley. The well	
					likley represents an old	
ì					shallow well that is too	
	Manufacturers	1			shallow to be effected by	
4705170810	Light and Heat	Unknown	Unknown	Unknown	fracturing in the planned Point Pleasant well.	
4703170810	Light and Heat	OTIKITOWIT	Olikilowii	Ulikilowii		State records are incomplete
					No, the well is not deep enough to be within the	
					expected fracture propagation	
	Manufacturers				from a Point Pleasant	
4705130144	Light and Heat	1835'	Salt Sands (U	Unknown	stimulation.	Plugged : 11/25/1940
					No, the well is not deep	
					enough to be within the	
	HG Energy II,	E 705170			expected fracture propagation	
4705101761	Appalachia, LLC	5,765' TVD, 15,653' TMD	Marcollus	None	from a Point Pleasant	
4703101701	Apparacina, EEC	15,055 11010	iviaiceilus	none		Producing Marcellus well
					No, the well is not deep enough to be within the	
					expected fracture propagation	
	HG Energy II,	5,940' TVD,			from a Point Pleasant	
4705101762	Appalachia, LLC	16,756' TMD	Marcellus	None	stimulation.	Producing Marcellus well





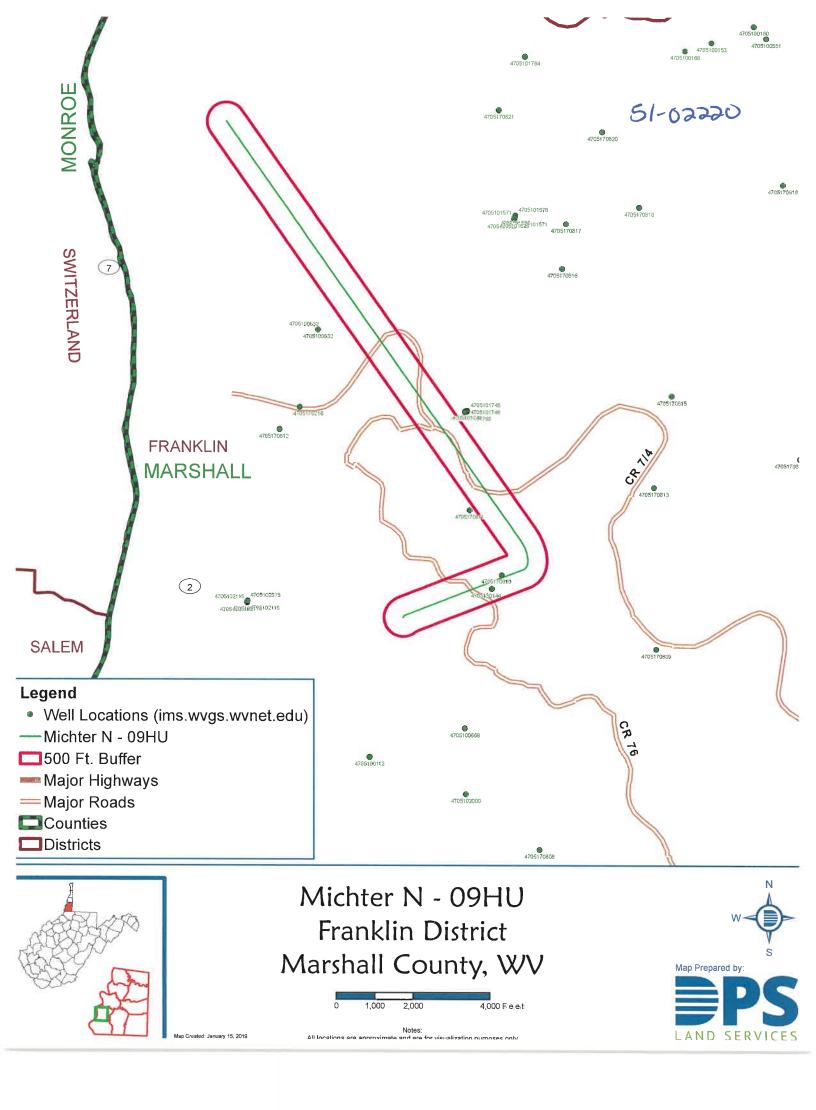


Page 3 of 4

Office of Oil and Gas

MAY 17 2019

Environmental Protection





51-02220

Database: Company:

DB_Jul2216dt_v14 Tug Hill Operating LLC Marshall County, West Virginia.

Project: Site:

Well: Wellbore: Michter Michter N-09HU (F)

Original Hole rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Michter N-09HU (F)

GL @ 1130.00ft GL @ 1130.00ft

Grid

Minimum Curvature

Design: **Project**

Marshall County, West Virginia.

Map System: Geo Datum: Map Zone:

Universal Transverse Mercator (US Survey Feet)

NAD83 West Virginia - HARN

System Datum:

Mean Sea Level

Zone 17N (84 W to 78 W)

Site Michter

Lat/Long

Northing: Easting: Slot Radius: 14,454,962.42 usft 1,697,325.45 usft

Latitude:

Longitude:

Grid Convergence:

39.80272253 -80.79737330

0.13°

Well

Site Position:

From:

Michter N-09HU (F)

Well Position

+N/-S

rev1

0.00 ft

Northing: Easting:

14,455,050.52 usft 1,697,280.59 usft

13-3/16 "

Latitude:

39.80296476

Position Uncertainty

Position Uncertainty:

+E/-W

0.00 ft 0.00 ft

0.00 ft

Wellhead Elevation:

Longitude: **Ground Level:** -80.79753230

1,130.00 ft

Wellbore

Original Hole

Model Name Sample Date Declination Field Strength Magnetics Dip Angle (°) (nT) IGRF2015 5/12/2018 -8.66 66,91 52,088.96938793

Design

Audit Notes:

Version: **Vertical Section:**

1

Phase:

Depth From (TVD)

(ft)

0.00

Date 7/20/2018

PLAN

+N/-S

(ft)

0.00

Tie On Depth: +E/-W (ft)

0.00

0.00

Direction

(°) 340.32

Plan Survey Tool Program

Depth From

0.00

Depth To

(ft) (ft)

Survey (Wellbore) 25,541.98 rev1 (Original Hole) **Tool Name**

Remarks

NWD

MWD - Standard

RECEIVED Office of Oil and Gas

MAY 17 2019

WV Department of Environmental Protection





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

Site: Michter

Well: Wellbore:

Design:

Michter N-09HU (F) Original Hole

rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Michter N-09HU (F)

GL @ 1130.00ft GL @ 1130.00ft

Grid

Minimum Curvature

an 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	
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	2.00	30.00	1,999.96	3.02	1.75	1.00	1.00	0.00	30.00	
3,100.71	2.00	30.00	3,100.00	36.29	20.95	0.00	0.00	0.00	0.00	
3,783.22	22.00	68.69	3,764.54	93.67	147.35	3.00	2.93	5.67	42.02	
6,566.33	22.00	68.69	6,344.99	472.56	1,118.64	0.00	0.00	0.00	0.00	
6,797.82	28.94	68.69	6,553.85	508.72	1,211.33	3.00	3.00	0.00	-0.01	
11,050.26	28.94	68.69	10,275.11	1,256.74	3,128.61	0.00	0.00	0.00	0.00	
12,269.46	91.00	324.83	10,976.00	2,068,36	3,026.37	8.00	5.09	-8.52	-101.71	Michter N-09HU L
25,541.98	91.00	324,83	10,745.00	12,915.80	-4,618.20	0.00	0.00	0.00	0.00	Michter N-09HU E

Office of Oil and Gas
MAY 17 2019

WW Department of Environmental Protection

Database: Company:

DB_Jul2216dt_v14
Tug Hill Operating LLC
Marshall County, West Virginia.

Michter

Michter N-09HU (F)

Project: Site: Well:

Wellbore: Original Hole Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Michter N-09HU (F)

GL @ 1130.00ft GL @ 1130.00ft

Grid

Minimum Curvature



nned Survey									MAY 172
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		Environmental Pro
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,455,050.52	1,697,280.59	39.80296476	-80.79753
100.00	0.00	0.00	100.00	0.00	0.00	14,455,050.52	1,697,280.59	39.80296476	-80.79753
200.00	0.00	0.00	200.00	0.00	0.00	14,455,050.52	1,697,280.59	39.80296476	-80.797532
300.00	0.00	0.00	300.00	0.00	0.00	14,455,050.52	1,697,280.59	39.80296476	-80.79753
400.00	0.00	0.00	400.00	0.00	0.00	14,455,050.52	1,697,280.59	39.80296476	-80.79753
500.00	0.00	0.00	500.00	0.00	0.00	14,455,050.52	1,697,280.59	39.80296476	-80.79753
600.00	0.00	0.00	600.00	0.00	0.00	14,455,050.52	1,697,280.59	39.80296476	-80.79753
700.00	0.00	0.00	700.00	0.00	0.00	14,455,050.52	1,697,280.59	39.80296476	-80.79753
800.00	0.00	0.00	800.00	0.00	0.00	14,455,050.52	1,697,280.59	39.80296476	-80.79753
900.00	0.00	0.00	900.00	0.00	0.00	14,455,050,52	1,697,280.59	39.80296476	-80.797532
1,000.00	0.00	0.00	1,000.00	0.00	0.00	14,455,050.52	1,697,280.59	39.80296476	-80.79753
1,100.00	0.00	0.00	1,100.00	0.00	0.00	14,455,050.52	1,697,280.59	39.80296476	-80.797532
1,200.00	0.00	0.00	1,200.00	0.00	0.00	14,455,050.52	1,697,280.59	39.80296476	-80,797532
1,300.00	0.00	0.00	1,300.00	0.00	0.00	14,455,050.52	1,697,280.59	39.80296476	-80.797532
1,400.00	0.00	0.00	1,400.00	0.00	0.00	14,455,050.52	1,697,280.59	39.80296476	-80.797532
1,500.00	0.00	0.00	1,500.00	0.00	0.00	14,455,050.52	1,697,280.59	39.80296476	-80.79753
1,600.00	0.00	0.00	1,600.00	0.00	0.00	14,455,050.52	1,697,280.59	39.80296476	-80.797532
1,700.00	0.00	0.00	1,700.00	0.00	0.00	14,455,050.52	1,697,280.59	39.80296476	-80.79753
1,800.00	0.00	0.00	1,800.00	0.00	0.00	14,455,050.52	1,697,280.59	39.80296476	-80.79753
	jin 1°/100' buil								
1,900.00	1.00	30.00	1,899.99	0.76	0.44	14,455,051.28	1,697,281.03	39.80296683	-80.797530
2,000.00	2.00	30.00	1,999.96	3.02	1.75	14,455,053.55	1,697,282.34	39.80297305	-80.79752
	00° tangent								
2,100.00	2.00	30.00	2,099.90	6.05	3.49	14,455,056.57	1,697,284.08	39.80298134	-80.797519
2,200.00	2.00	30.00	2,199.84	9.07	5.24	14,455,059.59	1,697,285.83	39.80298963	-80.797513
2,300.00	2.00	30.00	2,299.78	12.09	6.98	14,455,062.61	1,697,287.57	39.80299792	-80.79750
2,400.00	2.00	30.00	2,399.72	15.11	8.73	14,455,065.64	1,697,289.32	39.80300621	-80.79750
2,500.00	2.00	30.00	2,499.65	18.13	10.47	14,455,068.66	1,697,291.06	39.80301450	-80.797494
2,600.00	2.00	30.00	2,599.59	21.16	12.22	14,455,071.68	1,697,292.81	39.80302279	-80.797488
2,700.00	2.00	30.00	2,699.53	24.18	13.96	14,455,074.70	1,697,294.55	39.80303108	-80.797482
2,800.00	2.00	30.00	2,799.47	27.20	15.70	14,455,077.73	1,697,296.30	39.80303937	-80.797476
2,900.00	2.00	30.00	2,899.41	30.22	17.45	14,455,080.75	1,697,298.04	39.80304766	-80.797469
3,000.00	2.00	30.00	2,999.35	33.25	19.19	14,455,083.77	1,697,299.79	39.80305595	-80.797463
3,100.00	2.00	30.00	3,099.29	36.27	20.94	14,455,086.79	1,697,301.53	39.80306424	-80.79745
3,100.71	2.00	30.00	3,100.00	36.29	20.95	14,455,086.81	1,697,301.54	39.80306429	-80.79745
3,200.00	/100' build/tur 4.66	n 55.35	3,199.12	40.00	05.44	44 455 000 04	4 007 007 70		
3,300.00	7.58	61.90	3,298.54	40.09 45.50	25.14	14,455,090.61	1,697,305.73	39.80307469	-80.797442
3,400.00	10.55		•		34.30	14,455,096.03	1,697,314.89	39.80308952	-80.797409
3,500.00		64.80 66.43	3,397.28	52.51	48.41	14,455,103.04	1,697,329.00	39.80310867	-80.797359
3,600.00	13.53	66.43	3,495.07	61.09	67.42	14,455,111.61	1,697,348.01	39.80313211	-80.797291
3,700.00	16.52 19.51	67.49	3,591.64	71.21	91.28	14,455,121.74	1,697,371.87	39.80315976	-80.797206
3,783.22	22.00	68.22 68.69	3,686.73	82.85	119.92	14,455,133.38	1,697,400.51	39.80319155	-80.797104
		00.03	3,764.54	93.67	147.35	14,455,144.20	1,697,427.94	39.80322110	-80.797006
3,800.00	.00° tangent 22.00	68.69	3,780.10	95,96	153,21	14 455 146 40	1 607 422 90	20 202022	00 70000
3,900.00	22.00	68.69	3,872.82	109.57	188.11	14,455,146.48	1,697,433.80	39.80322734	-80,796986
4,000.00	22.00	68.69	3,965.53	123.19	223.01	14,455,160.10 14,455,173.71	1,697,468.70 1,697,503.60	39.80326451	-80.796861
4,100.00	22.00	68.69	4,058.25	136.80	257.91	14,455,173.71		39.80330167	-80.796737
4,200.00	22.00	68.69	4,050.23	150.41	292,80		1,697,538.50	39.80333884	-80.796612
4,300.00	22.00	68.69	4,243.69	164.03	327.70	14,455,200.94 14,455,214.55	1,697,573.40	39.80337601	-80.796488
4,400.00	22.00	68.69	4,336.41	177.64	362.60		1,697,608.30	39.80341318	-80.796364
4,500.00	22.00	68.69	4,429.13	191.25	397.50	14,455,228.16 14,455,241.78	1,697,643.20 1,697,678.09	39.80345035	-80.796239
4,600.00	22.00	68.69	4,521.84	204.87	432.40	14,455,255.39		39.80348752	-80.79611
	44.00	30,03	7,021.04	204.07	702.40	17,400,200.09	1,697,712.99	39.80352469	-80.795991

Database: Company:

DB_Jul2216dt_v14
Tug Hill Operating LLC
Marshall County, West Virginia.

Project: Site:

Well:

Michter Michter N-09HU (F) Original Hole

Wellbore: Design:

rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well Michter N-09HU (F)

GL @ 1130.00ft GL @ 1130.00ft

Grid

Minimum Curvature

Office of Oil and

nned Survey									MAY 17 20
Measured Depth (ft)	Inclination (°)	Azimuth	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	E _n	WV Department of Longitude Protest
4,800.00	22.00	68.69	4,707.28	232.10	502.20	14,455,282.62	1,697,782.79	39.80359902	-80.79574231
4,900.00	22.00	68.69	4,800.00	245.71	537.10	14,455,296.23	1,697,817.69	39.80363619	-80.79561794
5,000.00	22.00	68.69	4,892.72	259.32	572.00	14,455,309.85	1,697,852.59	39.80367336	-80.79549357
5,100.00	22.00	68.69	4,985.44	272.94	606.90	14,455,323.46	1,697,887.49	39.80371053	-80.79536919
5,200.00	22.00	68.69	5,078.16	286.55	641.80	14,455,337.07	1,697,922.39	39.80374770	-80.79524482
5,300.00	22,00	68.69	5,170.87	300.16	676.70	14,455,350.69	1,697,957.29	39.80378486	-80.79512045
5,400.00	22.00	68.69	5,263.59	313.78	711.60	14,455,364.30	1,697,992.19	39.80382203	-80.79499607
5,500.00	22.00	68.69	5,356.31	327.39	746.50	14,455,377.92	1,698,027.09	39.80385920	-80.79487170
5,600.00	22.00	68.69	5,449.03	341.01	781.40	14,455,391.53	1,698,061,99	39.80389636	-80.79474733
5,700.00	22.00	68.69	5,541.75	354.62	816.30	14,455,405.14	1,698,096.89	39.80393353	-80.79462295
5,800.00	22.00	68.69	5,634.47	368.23	851.20	14,455,418.76	1,698,131.79	39.80397070	-80.79449858
5,900.00	22.00	68.69	5,727.18	381.85	886.09	14,455,432.37	1,698,166.69	39.80400787	-80.79437421
6,000.00	22.00	68.69	5,819.90	395.46	920.99	14,455,445.98	1,698,201.58	39.80404503	-80.79424983
6,100.00	22.00	68.69	5,912.62	409.07	955.89	14,455,459.60	1,698,236.48	39.80408220	-80.79412546
6,200.00	22.00	68.69	6,005.34	422.69	990.79	14,455,473.21	1,698,271.38	39.80411936	-80.79400108
6,300.00	22.00	68.69	6,098.06	436.30	1,025.69	14,455,486.82	1,698,306.28	39.80415653	-80.79387671
6,400.00	22.00	68.69	6,190.78	449.92	1,060.59	14,455,500.44	1,698,341.18	39.80419370	-80.79375234
6,500.00	22.00	68.69	6,283.49	463.53	1,095.49	14,455,514.05	1,698,376.08	39.80423086	-80.79362796
6,566.33	22.00	68.69	6,344.99	472.56	1,118.64	14,455,523.08	1,698,399.23	39.80425552	-80.79354546
Begin 3°	100' build								
6,600.00	23.01	68.69	6,376.10	477.24	1,130.65	14,455,527.77	1,698,411.24	39.80426830	-80.79350268
6,700.00	26.01	68.69	6,467.08	492.32	1,169.29	14,455,542.84	1,698,449.88	39.80430946	-80.79336495
6,797.82	28.94	68.69	6,553.85	508.72	1,211.33	14,455,559.24	1,698,491.92	39.80435424	-80.79321513
Begin 28	.94° tangent								
6,800.00	28.94	68.69	6,555.76	509,10	1,212.32	14,455,559.63	1,698,492.91	39.80435528	-80,79321162
6,900.00	28.94	68.69	6,643.27	526.69	1,257.40	14,455,577.22	1,698,537.99	39.80440330	-80.79305094
7,000.00	28.94	68.69	6,730.78	544.28	1,302.49	14,455,594.81	1,698,583.08	39.80445133	-80.79289026
7,100.00	28.94	68.69	6,818.29	561.87	1,347.57	14,455,612.40	1,698,628.16	39.80449935	-80.79272958
7,200.00	28.94	68.69	6,905.80	579.47	1,392.66	14,455,629.99	1,698,673.25	39.80454737	-80.79256890
7,300.00	28.94	68.69	6,993.31	597.06	1,437.75	14,455,647.58	1,698,718.34	39.80459539	-80.79240822
7,400.00	28.94	68.69	7,080.81	614.65	1,482.83	14,455,665.17	1,698,763.42	39.80464341	-80.79224754
7,500.00	28.94	68.69	7,168.32	632.24	1,527.92	14,455,682.76	1,698,808.51	39.80469143	-80.79208686
7,600.00	28.94	68,69	7,255.83	649.83	1,573.01	14,455,700.35	1,698,853.60	39.80473945	-80.79192617
7,700.00	28.94	68.69	7,343.34	667.42	1,618.09	14,455,717.94	1,698,898.68	39.80478747	-80.79176549
7,800.00	28.94	68.69	7,430.85	685.01	1,663.18	14,455,735.53	1,698,943.77	39.80483549	-80.79160481
7,900.00	28.94	68.69	7,518.36	702.60	1,708.27	14,455,753.12	1,698,988.86	39.80488351	-80.79144413
8,000.00	28.94	68.69	7,605.87	720.19	1,753.35	14,455,770.71	1,699,033.94	39.80493153	-80.79128345
8,100.00	28.94	68.69	7,693.38	737.78	1,798.44	14,455,788.30	1,699,079.03	39.80497955	-80.79112276
8,200.00	28.94	68.69	7,780.88	755.37	1,843.53	14,455,805.89	1,699,124.11	39.80502757	-80.79096208
8,300.00	28.94	68.69	7,868.39	772.96	1,888.61	14,455,823.48	1,699,169.20	39.80507558	-80.79080140
8,400.00 8,500.00	28.94 28.94	68.69	7,955.90	790.55	1,933.70	14,455,841.07	1,699,214.29	39.80512360	-80.79064071
8,600.00	28.94	68.69 68.69	8,043.41	808.14	1,978.78	14,455,858.66	1,699,259.37	39.80517162	-80.79048003
8,700.00	28.94	68.69	8,130.92 8,218.43	825.73 843.32	2,023.87	14,455,876.25	1,699,304.46	39.80521964	-80.79031935
8,800.00	28.94	68.69	8,305.94	860.91	2,068.96 2,114.04	14,455,893.84 14,455,911.43	1,699,349.55	39.80526766	-80.79015866
8,900.00	28.94	68.69	8,393.45	878.50	2,114.04	14,455,911.43	1,699,394.63	39.80531567	-80.78999798
9,000.00	28.94	68.69	8,480.96	896.09	2,159.13	14,455,929.02	1,699,439.72	39.80536369	-80.78983729
9,100.00	28.94	68.69	8,568.46	913.68	2,249.30	14,455,964.21	1,699,484.81	39.80541171	-80.78967661 -80.78951503
9,200.00	28.94	68.69	8,655.97	931.27	2,245.30	14,455,981.80	1,699,529.89 1,699,574.98	39.80545973 39.80550774	-80.78951593
9,300.00	28.94	68.69	8,743.48	948.86	2,339.48	14,455,999.39	1,699,620.06	39.80555576	-80.78935524 -80.78919456
9,400.00	28.94	68.69	8,830.99	966.45	2,339.46	14,456,016.98	1,699,665.15	39.80560377	-80.78919456
9,500.00	28.94	68.69	8,918.50	984.04	2,429.65	14,456,034.57	1,699,710.24	39.80565179	-80.78903387 -80.78887316
9,600.00	28.94	68.69	9,006.01	1,001.63	2,474.74	14,456,052.16	1,699,755.32	39.80569981	-80.78887318 -80.78871250
9,700.00	28.94	68.69	9,093.52	1,019.23	2,519.82	14,456,069.75	1,699,800.41	39.80574782	-00.70071200



Database: Company: DB_Jul2216dt_v14 Tug Hill Operating LLC

Michter N-09HU (F)

Original Hole

rev1

Project:

Marshall County, West Virginia.

Site: Michter

Well: Wellbore: Design: Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Michter N-09HU (F)

GL @ 1130.00ft GL @ 1130.00ft

Grid

Minimum Curvature

ned Survey									
feasured Depth (ft)	Inclination (°)	Azimuth	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,800.00	28.94	68.69	9,181.03	1,036.82	2,564.91	14,456,087.34	1,699,845.50	39.80579584	-80.78839
9,900.00	28.94	68.69	9,268.53	1,054.41	2,609.99	14,456,104.93	1,699,890.58	39.80584385	-80.78823
10,000.00	28.94	68.69	9,356.04	1,072.00	2,655.08	14,456,122.52	1,699,935.67	39.80589187	-80.78806
10,100.00	28.94	68.69	9,443.55	1,089.59	2,700.17	14,456,140.11	1,699,980.75	39.80593988	-80.78790
10,200.00	28.94	68.69	9,531.06	1,107.18	2,745.25	14,456,157.70	1,700,025.84	39.80598789	-80.78774
10,300.00	28.94	68.69	9,618.57	1,124.77	2,790.34	14,456,175.29	1,700,070.93	39.80603591	-80,78758
10,400.00	28.94	68.69	9,706.08	1,142.36	2,835.43	14,456,192.88	1,700,116.01	39.80608392	-80.78742
10,500.00	28.94	68.69	9,793.59	1,159.95	2,880.51	14,456,210.47	1,700,161.10	39.80613194	-80.78726
10,600.00	28.94	68.69	9,881.10	1,177.54	2,925.60	14,456,228.06	1,700,206.19	39.80617995	-80.78710
10,700.00	28.94	68.69	9,968.61	1,195.13	2,970.69	14,456,245.65	1,700,251.27	39.80622796	-80.78694
10,800.00	28.94	68.69	10,056,11	1,212.72	3,015.77	14,456,263.24	1,700,296.36	39.80627598	-80.78678
10,900.00	28.94	68.69	10,143.62	1,230.31	3,060.86	14,456,280.83	1,700,341.45	39.80632399	-80.78662
11,000.00	28.94	68.69	10,231.13	1,247.90	3,105.95	14,456,298.42	1,700,386.53	39.80637200	-80.78646
11,050.26	28.94	68.69	10,275.11	1,256.74	3,128.61	14,456,307.26	1,700,409.19	39.80639613	-80.78638
	/100' build/tur		, -, -, -, , ,	.,_55,, 7	5, .20.01	, .00,007.20	1,700,100.10	55,5555515	-50,76636
11,100.00	28.38	60,47	10,318.77	1,266.95	3,150.11	14,456,317.47	1,700,430,70	39.80642402	-80,78630
11,200.00	28.79	43.72	10,406.73	1,296.11	3,187.50	14,456,346.63	1,700,468.08	39.80650386	-80.78617
11,300.00	31,13	28.36	10,493.49	1,336.32	3,216.47	14,456,386.85	1,700,497.05	39.80661411	-80.78606
11,400.00	35.03	15.52	10,577.37	1,386.81	3,236.46	14,456,437.33	1,700,517.04	39.80675261	-80.78599
11,500.00	40.02	5.23	10,656.73	1,446.57	3,247.08	14,456,497.09	1,700,527.67	39.80691668	-80.78595
11,600.00	45.74	356.99	10,730,04	1,514.46	3,248.13	14,456,564.98	1,700,528.72	39.80710311	-80.78595
11,700.00	51.95	350,28	10,795.86	1,589.15	3,239,59	14,456,639.67	1,700,520.18	39.80730828	-80.78598
11,800.00	58.48	344.64	10,852.92	1,669.18	3,221.62	14,456,719.70	1,700,502.21	39.80752820	-80.78604
11,900.00	65.22	339.75	10,900.09	1,753.01	3,194.57	14,456,803.53	1,700,475.16	39.80775858	-80.78614
12,000.00	72.10	335.37	10,936.48	1,838.99	3,158.97	14,456,889.51	1,700,439.56	39.80799494	-80.78626
12,100.00	79.08	331,32	10,961.35	1,925.45	3,115.51	14,456,975.97	1,700,396.10	39.80823268	-80.78642
12,200.00	86.10	327.46	10,974.24	2,010.72	3,065.04	14,457,061.24	1,700,345.63	39.80846717	-80.78660
12,269.46	91.00	324.83	10,976.00	2,068.36	3,026.37	14,457,118.88	1,700,306.96	39.80862572	-80.78673
Begin 91	.00° lateral								_
12,300.00	91.00	324.83	10,975.47	2,093.32	3,008.78	14,457,143.84	1,700,289.37	39.80869438	-80.78680
12,400.00	91.00	324.83	10,973.73	2,175.05	2,951.19	14,457,225.57	1,700,231.77	39.80891921	-80.78700
12,500.00	91.00	324.83	10,971.99	2,256.78	2,893.59	14,457,307.30	1,700,174,17	39.80914403	-80.78721
12,600.00	91.00	324.83	10,970.25	2,338.51	2,835.99	14,457,389.03	1,700,116.58	39.80936885	-80.78741
12,700.00	91.00	324.83	10,968.51	2,420.23	2,778.39	14,457,470.75	1,700,058.98	39.80959368	-80.78761
12,800.00	91.00	324.83	10,966.77	2,501.96	2,720.80	14,457,552.48	1,700,001,38	39.80981850	-80.78782
12,900.00	91.00	324.83	10,965.03	2,583.69	2,663.20	14,457,634.21	1,699,943.79	39.81004332	-80.78802
13,000.00	91.00	324.83	10,963.29	2,665.42	2,605.60	14,457,715,94	1,699,886.19	39.81026814	-80.78823
13,100.00	91.00	324.83	10,961.55	2,747.15	2,548.01	14,457,797.67	1,699,828,59	39.81049297	-80.78843
13,200.00	91.00	324.83	10,959.80	2,828.88	2,490.41	14,457,879.40	1,699,771.00	39.81071779	-80.78864
13,300.00	91.00	324.83	10,958.06	2,910.61	2,432.81	14,457,961.12	1,699,713.40	39.81094261	-80.78884
13,400.00	91.00	324.83	10,956.32	2,992.33	2,375.22	14,458,042.85	1,699,655.80	39,81116743	-80.78905
13,500.00	91.00	324.83	10,954.58	3,074.06	2,317.62	14,458,124.58	1,699,598.21	39.81139225	-80.78925
13,600.00	91.00	324.83	10,952.84	3,155.79	2,260.02	14,458,206.31	1,699,540.61	39.81161707	-80.78945
13,700.00	91.00	324.83	10,951.10	3,237.52	2,202.42	14,458,288.04	1,699,483.01	39.81184189	-80.78966
13,800.00	91.00	324.83	10,949.36	3,319.25	2,144.83	14,458,369.77	1,699,425.42	39.81206671	-80,78986
13,900.00	91.00	324.83	10,947.62	3,400.98	2,087.23	14,458,451.50	1,699,367,82	39.81229153	-80.79007
14,000.00	91.00	324.83	10,945.88	3,482.71	2,029.63	14,458,533.22	1,699,310.22	39.81251635	-80.79027
14,100.00	91.00	324.83	10,944.14	3,564.43	1,972.04	14,458,614.95	1,699,252.62	39.81274117	-80.79048
14,200.00	91.00	324.83	10,942.40	3,646.16	1,914.44	14,458,696.68	1,699,195.03	39.81296598	-80.79068
14,300.00	91.00	324.83	10,940.66	3,727.89	1,856.84	14,458,778.41	1,699,137.43	39.81319080	-80.79088
14,400.00	91.00	324.83	10,938.92	3,809.62	1,799.25	14,458,860.14	1,699,079.83	39.81341562	-80.79109
14,500.00	91.00	324.83	10,937.18	3,891.35	1,741.65	14,458,941.87	1,699,022.24	39.81364043	-80.79129
14,600.00	91.00	324.83	10,935.44	3,973.08	1,684.05	14,459,023.59	1,698,964.64	39.81386525	-80.79150
14,700.00	91.00	324.83	10,933.70	4,054.81	1,626.45	14,459,105.32	1,698,907.04	39.81409007	-80.79170



Database: Company:

DB_Jul2216dt_v14 Tug Hill Operating LLC

Project: Site: Marshall County, West Virginia. Michter

ite: Micht

Well: Michter N-09HU (F)
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Michter N-09HU (F)

GL @ 1130.00ft GL @ 1130.00ft

Grid

Minimum Curvature

Office of Oil and Gal

ned Survey									Environ Departm
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		Environmental p
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
14,800.00	91.00	324.83	10,931.96	4,136.53	1,568.86	14,459,187.05	1,698,849.45	39.81431488	-80.79191
14,900.00	91.00	324.83	10,930.22	4,218.26	1,511.26	14,459,268.78	1,698,791.85	39.81453970	-80,79211
15,000.00	91.00	324.83	10,928.48	4,299.99	1,453.66	14,459,350.51	1,698,734.25	39.81476451	-80.79232
15,100.00	91.00	324.83	10,926.74	4,381.72	1,396.07	14,459,432.24	1,698,676.66	39.81498933	-80.79252
15,200.00	91.00	324.83	10,925.00	4,463.45	1,338.47	14,459,513.96	1,698,619.06	39.81521414	-80.79272
15,300.00	91.00	324.83	10,923.26	4,545.18	1,280.87	14,459,595.69	1,698,561.46	39.81543896	-80.79293
15,400.00	91.00	324.83	10,921.52	4,626.91	1,223.28	14,459,677.42	1,698,503.87	39.81566377	-80.79313
15,500.00	91.00	324.83	10,919.77	4,708.63	1,165.68	14,459,759.15	1,698,446.27	39.81588858	-80.79334
15,600.00	91.00	324.83	10,918.03	4,790.36	1,108.08	14,459,840.88	1,698,388.67	39.81611340	-80,79354
15,700.00	91.00	324.83	10,916.29	4,872.09	1,050.48	14,459,922.61	1,698,331.07	39.81633821	-80.79375
15,800.00	91.00	324.83	10,914.55	4,953.82	992.89	14,460,004.33	1,698,273.48	39.81656302	-80.79395
15,900.00	91.00	324.83	10,912.81	5,035.55	935.29	14,460,086.06	1,698,215.88	39.81678783	-80.79416
16,000.00	91.00	324.83	10,911.07	5,117.28	877.69	14,460,167.79	1,698,158.28	39.81701264	-80.79436
16,100.00	91.00	324.83	10,909.33	5,199.01	820.10	14,460,249.52	1,698,100.69	39.81723745	-80.79456
16,200.00	91.00	324.83	10,907.59	5,280.73	762.50	14,460,331.25	1,698,043.09	39.81746226	-80.79477
16,300.00	91.00	324.83	10,905.85	5,362.46	704.90	14,460,412.98	1,697,985.49	39.81768708	-80.79497
16,400.00	91.00	324.83	10,904.11	5,444.19	647.31	14,460,494.70	1,697,927.90	39.81791188	-80.79518
16,500.00	91.00	324.83	10,902.37	5,525.92	589.71	14,460,576.43	1,697,870.30	39.81813669	-80.79538
16,600.00	91.00	324.83	10,900.63	5,607.65	532.11	14,460,658.16	1,697,812.70	39.81836150	-80.79559
16,700.00	91.00	324.83	10,898.89	5,689.38	474.51	14,460,739.89	1,697,755.11	39.81858631	-80.79579
16,800.00	91.00	324.83	10,897.15	5,771.11	416.92	14,460,821.62	1,697,697.51	39.81881112	-80.79600
16,900.00	91,00	324.83	10,895.41	5,852.83	359.32	14,460,903.35	1,697,639.91	39.81903593	-80.79620
17,000.00	91.00	324.83	10,893.67	5,934.56	301.72	14,460,985.08	1,697,582.31	39.81926074	-80.79640
17,100.00	91.00	324.83	10,891.93	6,016.29	244.13	14,461,066.80	1,697,524.72	39.81948554	-80.79661
17,200.00	91.00	324.83	10,890.19	6,098.02	186,53	14,461,148.53	1,697,467.12	39.81971035	-80.79681
17,300.00	91.00	324.83	10,888.45	6,179.75	128.93	14,461,230.26	1,697,409.52	39.81993516	-80.79702
17,400.00	91.00	324.83	10,886.71	6,261.48	71.34	14,461,311.99	1,697,351.93	39.82015996	-80.79722
17,500.00	91.00	324.83	10,884.97	6,343.21	13.74	14,461,393.72	1,697,294.33	39.82038477	-80.79743
17,600.00	91.00	324.83	10,883.23	6,424.93	- 43.86	14,461,475.45	1,697,236.73	39.82060957	-80.79763
17,700.00	91.00	324.83	10,881.49	6,506.66	-101.46	14,461,557.17	1,697,179.14	39.82083438	-80.79784
17,800.00	91.00	324.83	10,879.74	6,588.39	-159.05	14,461,638.90	1,697,121.54	39.82105918	-80.79804
17,900.00	91.00	324.83	10,878.00	6,670.12	-216.65	14,461,720.63	1,697,063.94	39.82128399	-80.79825
18,000.00	91.00	324.83	10,876.26	6,751.85	-274.25	14,461,802.36	1,697,006.35	39.82150879	-80.79845
18,100.00	91.00	324.83	10,874.52	6,833.58	-331.84	14,461,884.09	1,696,948.75	39.82173360	-80.79865
18,200.00	91.00	324.83	10,872.78	6,915.31	-389.44	14,461,965.82	1,696,891.15	39.82195840	-80.79886
18,300.00	91.00	324.83	10,871.04	6,997.03	-447.04	14,462,047.54	1,696,833.56	39.82218320	-80,79906
18,400.00	91.00	324.83	10,869.30	7,078.76	-504.63	14,462,129.27	1,696,775.96	39.82240801	-80.79927
18,500.00	91.00	324.83	10,867.56	7,160.49	-562,23	14,462,211.00	1,696,718.36	39.82263281	-80.79947
18,600.00	91.00	324.83	10,865.82	7,242.22	-619.83	14,462,292.73	1,696,660.76	39.82285761	-80.79968
18,700.00	91.00	324.83	10,864.08	7,323.95	-677.43	14,462,374.46	1,696,603.17	39.82308241	-80.79988
18,800.00	91.00	324.83	10,862.34	7,405.68	-735.02	14,462,456.19	1,696,545.57	39.82330721	-80.80009
18,900.00	91.00	324.83	10,860.60	7,487.41	-792.62	14,462,537.91	1,696,487.97	39.82353201	-80.80029
19,000.00	91.00	324.83	10,858.86	7,569.13	-850.22	14,462,619.64	1,696,430.38	39.82375681	-80.80049
19,100.00	91.00	324.83	10,857.12	7,650.86	-907.81	14,462,701.37	1,696,372.78	39.82398161	-80.80070
19,200.00	91.00	324.83	10,855.38	7,732.59	-965.41	14,462,783.10	1,696,315.18	39.82420641	-80.80090
19,300.00	91.00	324.83	10,853.64	7,814.32	-1,023.01	14,462,864.83	1,696,257.59	39.82443121	-80.80111
19,400.00	91.00	324.83	10,851.90	7,896.05	-1,080.60	14,462,946.56	1,696,199.99	39.82465601	-80.80131
19,500.00	91.00	324.83	10,850.16	7,977.78	-1,138.20	14,463,028.29	1,696,142.39	39.82488081	-80.80152
19,600.00	91.00	324.83	10,848.42	8,059.51	-1,195.80	14,463,110.01	1,696,084.80	39.82510561	-80.80172
19,700.00	91.00	324.83	10,846.68	8,141.23	-1,253.40	14,463,191.74	1,696,027.20	39.82533041	-80.80193
19,800.00	91.00	324.83	10,844.94	8,222.96	-1,310.99	14,463,273.47	1,695,969.60	39.82555520	-80.80213
19,900.00	91.00	324.83	10,843.20	8,304.69	-1,368.59	14,463,355.20	1,695,912.01	39.82578000	-80.80233
20,000.00	91.00	324.83	10,841.46	8,386.42	-1,426.19	14,463,436.93	1,695,854.41	39.82600480	-80.80254
20,100.00	91.00	324.83	10,839.71	8,468.15	-1,483.78	14,463,518.66	1,695,796.81	39.82622959	-80.80274
20,200.00	91.00	324.83	10,837.97	8,549.88	-1,541.38	14,463,600.38	1,695,739.21	39.82645439	-80.80295





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

Project: Site: Well:

Michter Michter N-09HU (F)

Wellbore: Design: Original Hole rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Michter N-09HU (F)

GL @ 1130.00ft GL @ 1130.00ft

Grid

Minimum Curvature

ned Survey									
Weasured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
20,300.00	91.00	324,83	10,836.23	8,631.61	-1,598.98	14,463,682.11	1,695,681.62	39.82667918	-80.80315
20,400.00	91.00	324.83	10,834.49	8,713.33	-1,656.57	14,463,763.84	1,695,624.02	39.82690398	-80.80336
20,500.00	91.00	324.83	10,832.75	8,795.06	-1,714.17	14,463,845.57	1,695,566.42	39.82712877	-80.80356
20,600.00	91.00	324.83	10,831.01	8,876.79	-1,771.77	14,463,927.30	1,695,508.83	39.82735357	-80.80377
20,700.00	91.00	324.83	10,829.27	8,958.52	-1,829.37	14,464,009.03	1,695,451.23	39.82757836	-80.80397
20,800.00	91.00	324.83	10,827.53	9,040.25	-1,886.96	14,464,090.75	1,695,393.63	39.82780316	-80.80418
20,900.00	91.00	324.83	10,825.79	9,121.98	-1,944.56	14,464,172.48	1,695,336.04	39.82802795	-80.8043
21,000.00	91.00	324.83	10,824.05	9,203.71	-2,002.16	14,464,254.21	1,695,278.44	39.82825274	-80.80458
21,100.00	91.00	324.83	10,822.31	9,285.43	-2,059.75	14,464,335.94	1,695,220.84	39.82847754	-80.80479
21,200.00	91.00	324.83	10,820.57	9,367.16	-2,117.35	14,464,417.67	1,695,163.25	39.82870233	-80.80499
21,300.00	91.00	324.83	10,818.83	9,448.89	-2,174.95	14,464,499.40	1,695,105.65	39.82892712	-80.80520
21,400.00	91.00	324.83	10,817.09	9,530.62	-2,232.54	14,464,581.12	1,695,048.05	39.82915191	-80.80540
21,500.00	91.00	324.83	10,815.35	9,612.35	-2,290.14	14,464,662.85	1,694,990.46	39.82937670	-80.8056
21,600.00	91.00	324.83	10,813.61	9,694.08	-2,347.74	14,464,744.58	1,694,932.86	39.82960149	-80.8058
21,700.00	91.00	324.83	10,811.87	9,775.80	-2,405.34	14,464,826.31	1,694,875.26	39.82982628	-80.8060
21,800.00	91.00	324.83	10,810.13	9,857.53	-2,462.93	14,464,908.04	1,694,817.66	39.83005107	-80.80622
21,900.00	91.00	324.83	10,808.39	9,939.26	-2,520.53	14,464,989.77	1,694,760.07	39.83027586	-80.8064
22,000.00	91.00	324.83	10,806.65	10,020.99	-2,578.13	14,465,071.49	1,694,702.47	39.83050065	-80,8066
22,100.00	91.00	324.83	10,804.91	10,102.72	-2,635.72	14,465,153.22	1,694,644.87	39.83072544	-80.8068
22,200.00	91.00	324.83	10,803.17	10,184.45	-2,693.32	14,465,234.95	1,694,587.28	39.83095023	-80.8070
22,300.00	91.00	324,83	10,801.42	10,266.18	-2,750.92	14,465,316.68	1,694,529.68	39.83117502	-80.80724
22,400.00	91.00	324.83	10,799.68	10,347.90	-2,808.51	14,465,398.41	1,694,472.08	39.83139981	-80,8074
22,500.00	91.00	324.83	10,797.94	10,429.63	-2,866.11	14,465,480.14	1,694,414.49	39.83162460	-80.8076
22,600.00	91.00	324.83	10,796.20	10,511.36	-2,923.71	14,465,561.87	1,694,356.89	39.83184938	-80.80786
22,700.00	91.00	324.83	10,794.46	10,593.09	-2,981.31	14,465,643.59	1,694,299.29	39.83207417	-80,8080
22,800.00	91.00	324,83	10,792.72	10,674.82	-3,038.90	14,465,725.32	1,694,241.70	39.83229896	-80.8082
22,900.00	91.00	324.83	10,790.98	10,756.55	-3,096.50	14,465,807.05	1,694,184.10	39.83252374	-80.8084
23,000.00	91.00	324.83	10,789.24	10,838.28	-3,154.10	14,465,888.78	1,694,126.50	39.83274853	-80.8086
23,100.00	91.00	324,83	10,787.50	10,920.00	-3,211.69	14,465,970.51	1,694,068.90	39.83297331	-80.8088
23,200.00	91.00	324.83	10,785.76	11,001.73	-3,269.29	14,466,052.24	1,694,011.31	39.83319810	-80.8090
23,300.00	91.00	324.83	10,784.02	11,083.46	-3,326.89	14,466,133.96	1,693,953.71	39.83342288	-80.8092
23,400.00	91.00	324.83	10,782.28	11,165.19	-3,384.48	14,466,215.69	1,693,896.11	39.83364767	-80.8094
23,500.00	91.00	324.83	10,780.54	11,246.92	-3,442.08	14,466,297.42	1,693,838.52	39.83387245	-80,8097
23,600.00	91.00	324.83	10,778.80	11,328.65	-3,499.68	14,466,379.15	1,693,780.92	39.83409723	-80.8099
23,700.00	91.00	324.83	10,777.06	11,410.38	-3,557.28	14,466,460.88	1,693,723.32	39.83432202	-80.8101
23,800.00	91.00	324.83	10,775.32	11,492.10	-3,614.87	14,466,542.61	1,693,665.73	39.83454680	-80,8103
23,900.00	91.00	324.83	10,773.58	11,573.83	-3,672.47	14,466,624.33	1,693,608.13	39.83477158	-80.8105
24,000.00	91.00	324.83	10,771.84	11,655.56	-3,730.07	14,466,706.06	1,693,550.53	39.83499636	-80.8107
24,100.00	91.00	324.83	10,770.10	11,737.29	-3,787.66	14,466,787.79	1,693,492.94	39.83522115	-80.8109
24,200.00	91.00	324.83	10,768.36	11,819.02	-3,845.26	14,466,869.52	1,693,435.34	39.83544593	-80.8111
24,300.00	91.00	324.83	10,766.62	11,900.75	-3,902.86	14,466,951.25	1,693,377.74	39.83567071	-80.8113
24,400.00	91.00	324.83	10,764.88	11,982.48	-3,960.45	14,467,032.98	1,693,320.15	39.83589549	-80.81154
24,500.00	91.00	324.83	10,763.14	12,064.20	-4,018.05	14,467,114.70	1,693,262.55	39.83612027	-80.81174
24,600.00	91.00	324.83	10,761.39	12,145.93	-4,075.65	14,467,196.43	1,693,204.95	39.83634505	-80.8119
24,700.00	91.00	324.83	10,759.65	12,227.66	-4,133.25	14,467,278.16	1,693,147.35	39.83656983	-80.8121
24,800.00	91.00	324.83	10,757.91	12,309.39	-4,190.84	14,467,359.89	1,693,089.76	39.83679461	-80.81236
24,900.00	91.00	324.83	10,756.17	12,391.12	-4,248.44	14,467,441.62	1,693,032.16	39.83701939	-80.81256
25,000.00	91.00	324.83	10,754.43	12,472.85	-4,306.04	14,467,523.35	1,692,974.56	39.83724416	-80.8127
25,100.00	91,00	324.83	10,752.69	12,554.58	-4,363.63	14,467,605.08	1,692,916.97	39.83746894	-80.8129
25,200.00	91.00	324.83	10,750.95	12,636.30	-4,421.23	14,467,686.80	1,692,859.37	39.83769372	-80.81318
25,300.00	91.00	324.83	10,749.21	12,718.03	-4,478.83	14,467,768.53	1,692,801.77	39.83791850	-80.81338
25,400.00	91.00	324.83	10,747.47	12,799.76	-4,536.42	14,467,850.26	1,692,744.18	39.83814327 REGENERAL ffice of Oil and 865 ₅	-80.81358
25,500.00	91.00	324.83	10,745.73	12,881.49	-4,594.02	14,467,931.99	1,692,686.58	TIC 35 83836865	-80.8137

MAY 1 7 2019

7/20/2018 11:18:26AM

Page 7

COMPASS 5000.14 Build 85
WV Department of
Environmental Protection



Database: Company: DB_Jul2216dt_v14
Tug Hill Operating LLC

Project: Site: Marshall County, West Virginia. Michter

Well: Wellbore: Michter N-09HU (F)
Original Hole

Design:

rev1

Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well Michter N-09HU (F)

GL @ 1130.00ft

GL @ 1130.00ft Grid

Minimum Curvature

Planned Survey									Telephone and the
Measured Depth (ft)	Inclination (°)	Azimuth	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
25,541.98	91.00	324.83	10,745.00	12,915.80	-4,618.20	14,467,966.30	1,692,662.40	39.83846242	-80.81387993
PBHL/TD	25541.98 MD	/10745.00 TV	'D						

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-09HU BHL - plan hits target cer - Point	0.00 nter	0.00	10,745.00	12,915.80	-4,618.20	14,467,966.30	1,692,662.40	39.83846242	-80.81387993
Michter N-09HU LP - plan hits target cel - Point	0.00 nter	0.00	10,976.00	2,068.36	3,026.37	14,457,118.88	1,700,306.96	39.80862572	-80.78673925

Measured	Vertical	Local Coor	dinates	
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
1,800.00	1,800.00	0.00	0.00	KOP Begin 1°/100' build
2,000.00	1,999.96	3.02	1.75	Begin 2.00° tangent
3,100.71	3,100.00	36.29	20.95	Begin 3°/100' build/turn
3,783.22	3,764.54	93.67	147.35	Begin 22.00° tangent
6,566.33	6,344.99	472.56	1,118.64	Begin 3°/100' build
6,797.82	6,553.85	508,72	1,211.33	Begin 28.94° tangent
11,050.26	10,275.11	1,256.74	3,128.61	Begin 8°/100' build/tum
12,269.46	10,976.00	2,068.36	3,026.37	Begin 91,00° lateral
25,541,98	10,745.00	12,915.80	-4,618.20	PBHL/TD 25541.98 MD/10745.00 TVD

RECEIVED Office of Oil and Gas

MAY 17 2019

API Number 47 - 051

Operator's Well No, Michter N-9HU

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 Will a pit be used? Yes No	complete the proposed well work? Yes No
If so, please describe anticipated pit waste:As	ST Tanks 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 Tarks will be used with proper contain
Proposed Disposal Method For Treated Pit Was	tes:
Reuse (at API Number	Permit Number_UIC 2459, UIC 965, UIC 359, UIC 2D0732540, UIC 2D0732523) m WW-9 for disposal location)
Will closed loop system be used? If so, describe: Yes-	For Vertical and Horizontal Drilling
Drilling medium anticipated for this well (vertical and ho	orizontal)? Air, freshwater, oil based, etc. Air for vertical / Oil for Horizontal
-If oil based, what type? Synthetic, petroleum, e	etc. Synthetic Oil Base
Additives to be used in drilling medium?Barite for weight	t
Drill cuttings disposal method? Leave in pit, landfill, ren	moved offsite, etc. All drill cuttings to be disposed of in a Landfill
-If left in pit and plan to solidify what medium v	will be used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number?	county Sanitary Landfil (SWF-1021 / WV0109185) and Westmoreland Sanitary Landfill, LLC (SAN1405 / PA DEP EC#1386426)
	l and Gas of any load of drill cuttings or associated waste rejected at any ovided within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the W provisions of the permit are enforceable by law. Violate law or regulation can lead to enforcement action. I certify under penalty of law that I have personal to the control of the control	s and conditions of the GENERAL WATER POLLUTION PERMIT issued dest Virginia Department of Environmental Protection. I understand that the ions of any term or condition of the general permit and/or other applicable sonally examined and am familiar with the information submitted on this based on my inquiry of those individuals immediately responsible for on is true, accurate, and complete. I am aware that there processibility of fine or imprisonment.
Company Official Signature	MAY 17 2019
Company Official (Typed Name) Jim Pancake	WV Department of Environmental Protection
Company Official Title VP Geosciences	rotection
Subscribed and sworn before me this 5 day My commission expires 1/28/2	Notary Public Washington County My Commission Expires Jan 28, 2023 Commission Number 1259926

47 05 02220

Operator's Well No. Michter N-9HU

Lime 3	ent: Acres Disturbed 2	1.11 Prevegetation pl	4 6.0
	Tons/acre or to correct	ct to pH 6.5	
Fertilizer type 10-20-	20		
Fertilizer amount 500		lbs/acre	
Mulch 2.5		Tons/acre	
		Seed Mixtures	
Temp	oorary	Perma	nent
Seed Type Annual Ryegrass	lbs/acre 40	Seed Type Orchard Grass	lbs/acre
Spring Oats	96	Ladino	3
		White Clover	2
creage, of the land application and the complete section of involved			
Photocopied section of involved	7.5' topographic sheet.	2.02	
Photocopied section of involved		Julan	
Photocopied section of involved	7.5' topographic sheet.	hofze	
Photocopied section of involved	7.5' topographic sheet.	Rofer	
Photocopied section of involved	7.5' topographic sheet.	John	
Photocopied section of involved	7.5' topographic sheet.	hofze	
Photocopied section of involved	7.5' topographic sheet.	Tols	
Photocopied section of involved	7.5' topographic sheet.	Tols	
Photocopied section of involved	7.5' topographic sheet.	Date: 2/7/18	
Photocopied section of involved	7.5' topographic sheet.	Tolse	



Well Site Safety Plan

Tug Hill Operating, LLC

Well Name: Michter N-9HU

Pad Location: Michter

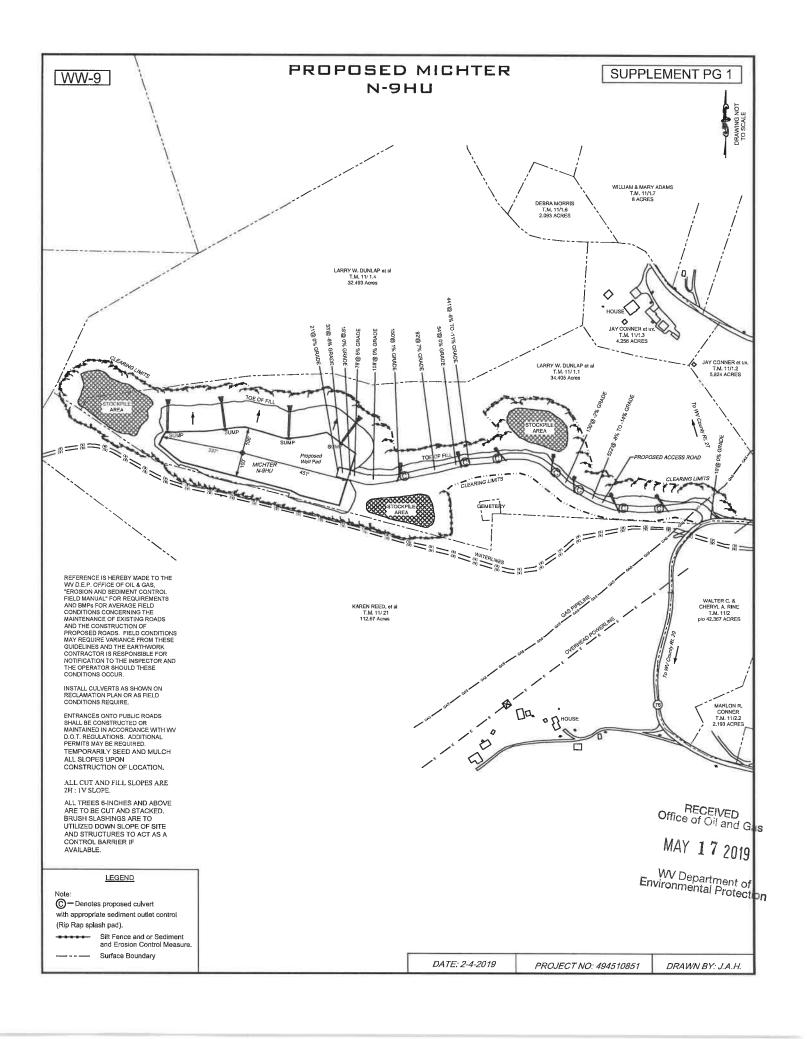
Marshall County, West Virginia

UTM (meters), NAD83, Zone 17:

NORTHING - 4,405,908.21

EASTING - 517,332.16

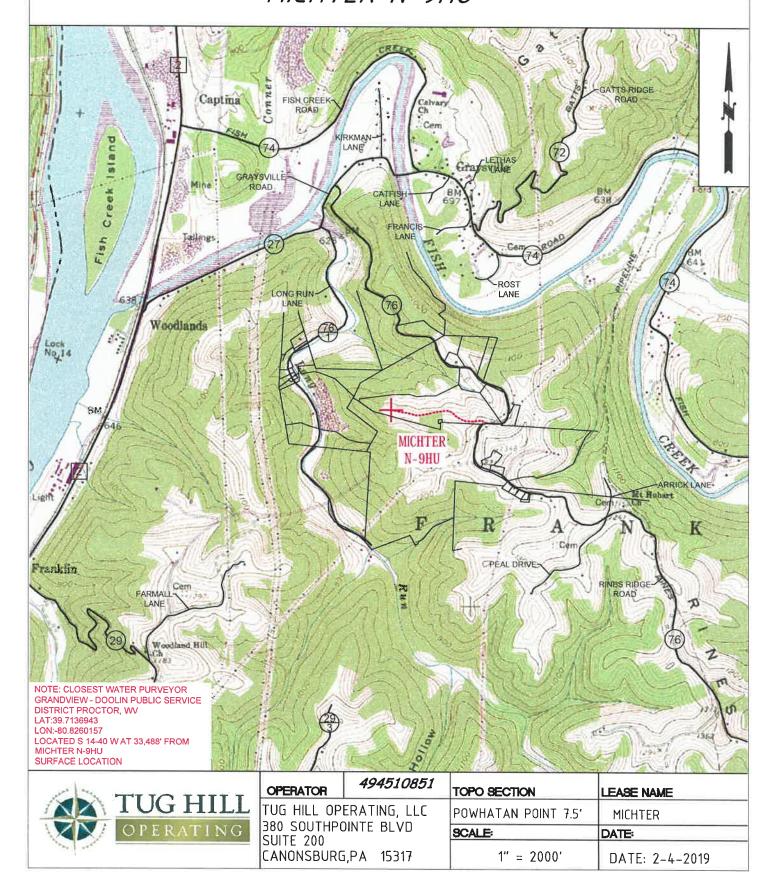
February 2019

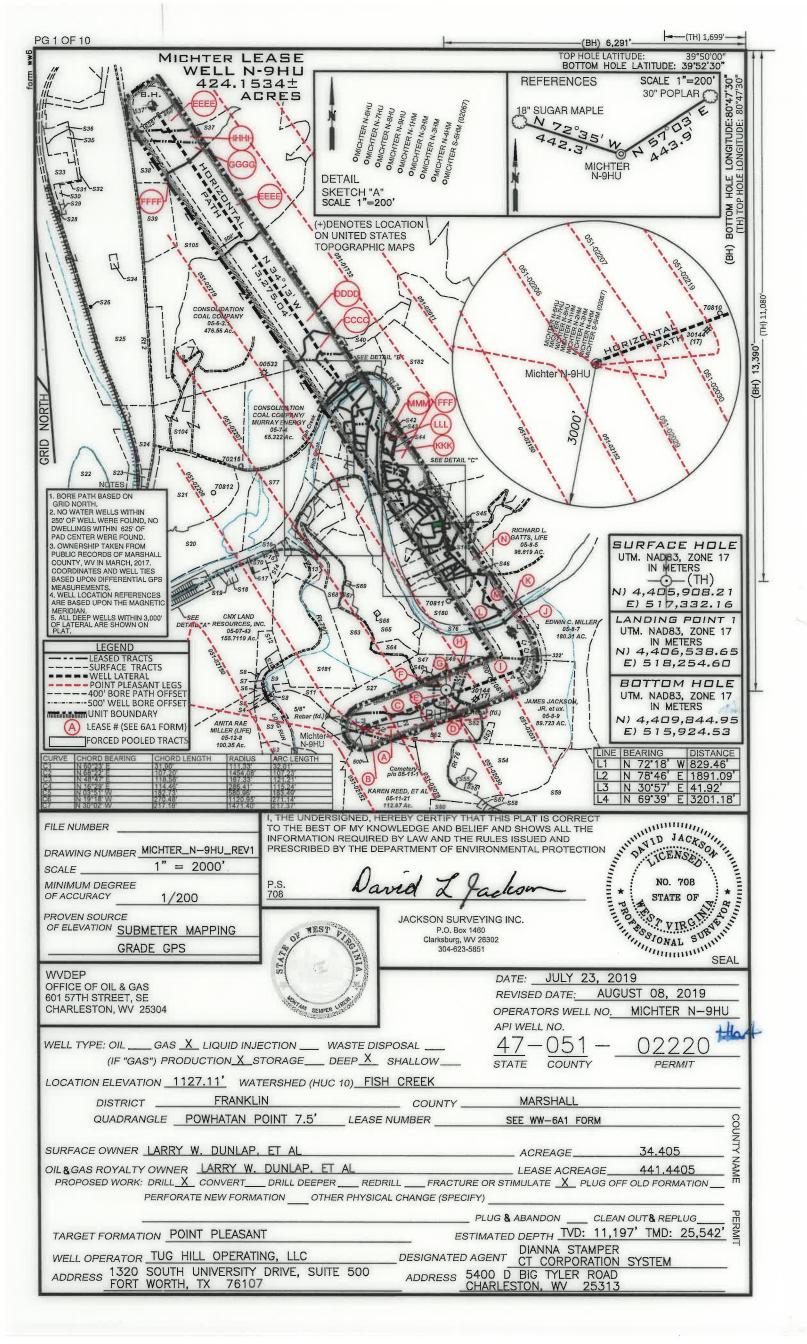


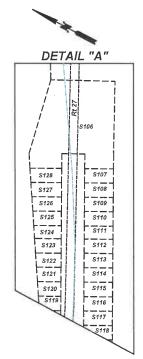
WW-9

PROPOSED MICHTER N-9HU

SUPPLEMENT PG 2





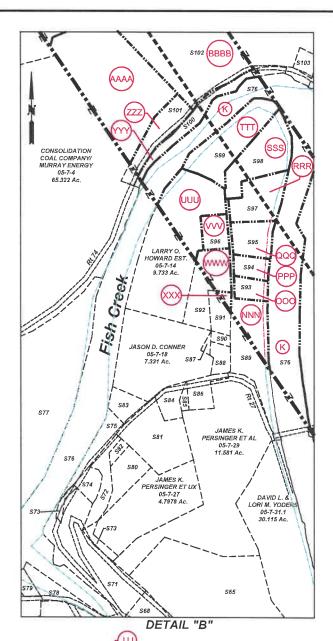


FORCED POOLED TRACTS

NOTE: (J) OF S153 AND (L) OF S152 ARE FORCED POOLED TRACTS.



David L Jackson



(FFF) **(** DETAIL "C"

> 51-02220 H61



OPERATOR'S WELL #: Michter N-9HU DISTRICT: Franklin

COUNTY: Marshall STATE: WV

API#: 47 - 051- 02220

WELL PLAT PAGE 2 OF 10

DATE: 07/23/2019

MICHTER LEASE WELL N-9HU 424.1534± ACRES

Numb	er	TAX MAP -PARCEL	SURFACE OWNER	ACRES
S1		05-11-21	Karen Reed, et al	112.67
S2		05-12-10	Consolidation Coal Company/ Murray Energy c/o Land Dept	13.76
S3		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
59		05-07-42.5	Matthew V. Conner, et al	3.791
S10		05-07-41	James A. Wade	1.00
S11		05-12-09	Lionel & Mary Lee Persinger	10.15
S12		05-07-42.1	Lionel L. & Mary Lee Persinger	5.99
S13		05-07-35	Samuel L. Persinger	10.708
S14		05-07-36	John Persinger	4.329
S15		05-07-38	John K. Persinger, et ux	2.65
S16		05-07-37	John K. Persinger, et ux	0.133
S17		05-07-43.3	M. Frank Mason	0.327
518		05-7B-48	Cassidy Rain Carpenter	1.325
519		05-7B-49	Cassidy Rain Carpenter Cassidy Rain Carpenter	1.1441
S20		05-07-3.3	WV Economic Development Authority	65.2077
S21		05-07-3.4	W 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		241.858
S26		05-06-16	Appalacian Power CP	0.61
S27	С	05-11-1.4	Larry Dunlap, et al	32.493
S28		05-06-18	Cil 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
\$34		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	HHHH	05-06-01	Consolidation Coal Company/ Murray Energy	
S38	GGGG	05-06-06	Consolidation Coal Company/ Murray Energy	18.50
S39	FFFF	05-06-05	Consolidation Coal Company/ Murray Energy	
S40	CCCC	05-06-04	Consolidation Coal Company/ Murray Energy	5.47
S41		05-07-09	Norman Thomas Jackson et al	0.25
S42	MMM	05-8A-02	Graysville Cemetery Association	1.76
S43	LLL	05-8A-01	Calvary M.E. Church	2.0
S44	KKK	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		0.305
S47	-	05-11-01	William N. & Virginia A. Roupe	4.527
S48	F	05-11-1.6	Debra Morris	2.093
S49	G	05-11-1.7	William S. & Mary K. Adams	8.00
S50	E	05-11-1.3	Jay A. Conner, et ux	4.256
CE 4				
S51	H_	05-11-1.5	Paul & Sandy Witt	3.507
S52	D ·	05-11-1.2	Jay A. Conner, et ux	5.824
S52 S53		05-11-1.2 05-08-9.1	Jay A. Conner, et ux Scott E. Jackson, Tammy S. South & Marion Jackson	5.824 1.957
S52 S53 S54		05-11-1.2 05-08-9.1 05-11-02	Jay A. Conner, et ux Scott E. Jackson, Tammy S. South & Marion Jackson Walter C. & Cheryl A. Rine	5.824 1.957 42.36
S52 S53 S54 S55		05-11-1.2 05-08-9.1 05-11-02 05-11-2.2	Jay A. Conner, et ux Scott E. Jackson, Tammy S. South & Marion Jackson Walter C. & Cheryl A. Rine Joshua Myers	5.824 1.957 42.36 2.193
S52 S53 S54 S55 S56		05-11-1.2 05-08-9.1 05-11-02 05-11-2.2 05-11-2.1	Jay A. Conner, et ux Scott E. Jackson, Tammy S. South & Marion Jackson Walter C. & Cheryl A. Rine Joshua Myers Walter C. & Cheryl A. Rine	5.824 1.957 42.36 2.193 1.19
\$52 \$53 \$54 \$55 \$56 \$57		05-11-1.2 05-08-9.1 05-11-02 05-11-2.2 05-11-2.1 05-11-20	Jay A. Conner, et ux Scott E. Jackson, Tammy S. South & Marion Jackson Walter C. & Cheryl A. Rine Joshua Myers Walter C. & Cheryl A. Rine David E. Gray	5.824 1.957 42.36 2.193 1.19 0.69
\$52 \$53 \$54 \$55 \$56 \$57 \$58		05-11-1.2 05-08-9.1 05-11-02 05-11-2.2 05-11-2.1 05-11-19	Jay A. Conner, et ux Scott E. Jackson, Tammy S. South & Marion Jackson Walter C. & Cheryl A. Rine Joshua Myers Walter C. & Cheryl A. Rine David E. Gray David E. Gray	5.824 1.957 42.36 2.193 1.19 0.69 0.532
\$52 \$53 \$54 \$55 \$56 \$57 \$58 \$59		05-11-1.2 05-08-9.1 05-11-02 05-11-2.2 05-11-2.1 05-11-19 05-11-03	Jay A. Conner, et ux Scott E. Jackson, Tammy S. South & Marion Jackson Walter C. & Cheryl A. Rine Joshua Myers Walter C. & Cheryl A. Rine David E. Gray David E. Gray Kevin R. Corley, et ux	5.824 1.957 42.36 2.193 1.19 0.69 0.532 13.18
\$52 \$53 \$54 \$55 \$56 \$57 \$58 \$59 \$60		05-11-1.2 05-08-9.1 05-11-02 05-11-2.2 05-11-2.1 05-11-19 05-11-03 05-11-17	Jay A. Conner, et ux Scott E. Jackson, Tammy S. South & Marion Jackson Walter C. & Cheryl A. Rine Joshua Myers Walter C. & Cheryl A. Rine David E. Gray David E. Gray Kevin R. Corley, et ux Kevin R. Corley, et ux	5.824 1.957 42.36 2.193 1.19 0.69 0.532 13.18 36.13
\$52 \$53 \$54 \$55 \$56 \$57 \$58 \$59 \$60 \$61	D	05-11-1.2 05-08-9.1 05-11-02 05-11-2.2 05-11-2.1 05-11-19 05-11-03 05-11-17 05-11-14	Jay A. Conner, et ux Scott E. Jackson, Tammy S. South & Marion Jackson Walter C. & Cheryl A. Rine Joshua Myers Walter C. & Cheryl A. Rine David E. Gray David E. Gray Kevin R. Corley, et ux Kevin R. Corley, et ux Hiram's Estate Family, LTD LLP	5.824 1.957 42.36 2.193 1.19 0.69 0.532 13.18 36.13 158.054
S52 S53 S54 S55 S56 S57 S58 S59 S60 S61 S62		05-11-1.2 05-08-9.1 05-11-02 05-11-2.1 05-11-20 05-11-19 05-11-03 05-11-14 05-11-1.1	Jay A. Conner, et ux Scott E. Jackson, Tammy S. South & Marion Jackson Walter C. & Cheryl A. Rine Joshua Myers Walter C. & Cheryl A. Rine David E. Gray David E. Gray Kevin R. Corley, et ux Kevin R. Corley, et ux Hiram's Estate Family, LTD LLP Larry W. Dunlap, et al	5.824 1.957 42.36 2.193 1.19 0.69 0.532 13.18 36.13 158.054 34.405
\$52 \$53 \$54 \$55 \$56 \$57 \$58 \$59 \$60 \$61	D	05-11-1.2 05-08-9.1 05-11-02 05-11-2.2 05-11-2.1 05-11-19 05-11-03 05-11-17 05-11-14	Jay A. Conner, et ux Scott E. Jackson, Tammy S. South & Marion Jackson Walter C. & Cheryl A. Rine Joshua Myers Walter C. & Cheryl A. Rine David E. Gray David E. Gray Kevin R. Corley, et ux Kevin R. Corley, et ux Hiram's Estate Family, LTD LLP	5.824 1.957 42.36 2.193 1.19 0.69 0.532 13.18 36.13 158.054

S65	05-07-31	William N. Roupe, et ux	43.147
S66	05-07-31.4	Grandview-Doolen PSD	0.23
S67	05-07-31.2	William N. Roupe, et ux	3.304
S68	05-07-34	WV DOH	10.88
S69	05-07-31.3	William N. & Virginia A. Roupe	0.230
S70	05-07-43.2	M. Frank Mason	1.36
S71	05-07-26	James A. Wade	7.80
S72	05-07-23.1	WV DOH	2.37
S73	05-07-25	W DOH	0.50
S74	05-07-24	James A. Wade	0.578
S75	05-07-45	Robert L. Henry (Life) & Jeffrey S. Henry	0.65
S76 K S77	Fish Creek	State of WV Ohio Power Company	16.97 _{Calc.}
S78	05-07-3.2 05-07-35.1	Lionel L. & Mary Lee Persinger	45.5348
S79	05-07-36.1	, , ,	0.812
S80	05-07-23	Lionel L, & Mary Lee Persinger Arlie E. Powell	0.5579 1.435
S81	05-07-27.1	Mark L. Riter, et ux	3.427
S82	05-07-23.2	Robert L. Henry (Life) & Jeffrey S. Henry	0.256
S83	05-07-23.2	Aaron S. Meyer	1.775
S84	05-07-22	Jesus & Mary Bustamante	0.782
S85	05-07-28.1	Jesus & Mary Bustamante	0.200
S86	05-07-28	Thelma M. Roupe	0.940
S87	05-07-18.1	Debora L. Bennett	0.13
S88	05-07-17	Debora L. Bennett	0.614
S89 NNN	05-07-15	William Roupe, et ux	6.631
S90	05-07-16	Debora L. Bennett	0.235
S91 XXX	05-07-14.2	Robert L. Eyler, Sr. & Jessica L. Bennett	0.998
S92 WWW	05-07-14.3	Steven H. Howard	2.669
S93 000	05-07-15.1	Woodland Hills Recreation Club	1.016
S94 PPP	05-07-13	Woodland Hills Recreation Club	1.109
S95	05-07-12	Carol A. & Shelva G. Smith	2.01
S96 WV	05-07-14.1	Larry O. Howard, Est.	1.00
S97 RRR	05-07-11	Roy S. & Cynthia M. Meadows	2.90
S98 SSS	05-07-10.1	Sandra Kay Beymer & Chad M. Wright	4.237
S99 TTT	05-07-10	Darren Edward Thacker	4.737
S100 YYY	05-07-5.1	George A. Knuth	2.95
S101 ZZZ	05-07-05	CNX Gas Company, LLC	1.407
S102 BBBB	05-07-06	CNX Gas Company, LLC	21.171
S103	05-07-07	Consolidation Coal Company/ Murray Energy	1.00
S104	05-07-02	Consolidation Coal Company/ Murray Energy	
S105 EEEE S106	05-06-03 05-7B-01	Ohio Power Co.	281.046
S106	05-7B-01	Patricia L. Robinson	1.257
S107	05-7B-47	Daniel D. Robinson, et ux Daniel D. Robinson, et ux	0.1148
S109	05-7B-45	Daniel D. & Mary E. Robinson	0.1148
S110	05-7B-43	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	
S121	05-7B-10 05-7B-09	Teresa & Thomas Gouldsberry Teresa & Thomas Gouldsberry	0.1199
S121 S122			0.1199
S121 S122 S123	05-7B-09 05-7B-08 05-7B-07	Teresa & Thomas Gouldsberry	0.1199 0.1240
S121 S122 S123 S124	05-7B-09 05-7B-08	Teresa & Thomas Gouldsberry Teresa & Thomas Gouldsberry	0.1199 0.1240 0.1286
S121 S122 S123 S124 S125	05-7B-09 05-7B-08 05-7B-07 05-7B-06 05-7B-05	Teresa & Thomas Gouldsberry Teresa & Thomas Gouldsberry Teresa & Thomas Gouldsberry	0.1199 0.1240 0.1286 0.1331
S121 S122 S123 S124 S125 S126	05-7B-09 05-7B-08 05-7B-07 05-7B-06 05-7B-05 05-7B-04	Teresa & Thomas Gouldsberry Teresa & Thomas Gouldsberry Teresa & Thomas Gouldsberry Teresa & Thomas Gouldsberry Daniel D. & Mary E. Robinson Daniel D. & Mary E. Robinson	0.1199 0.1240 0.1286 0.1331 0.1377 0.1418 0.1458
S121 S122 S123 S124 S125 S126 S127	05-78-09 05-78-08 05-78-07 05-78-06 05-78-05 05-78-04 05-78-03	Teresa & Thomas Gouldsberry Teresa & Thomas Gouldsberry Teresa & Thomas Gouldsberry Teresa & Thomas Gouldsberry Daniel D. & Mary E. Robinson Daniel D. & Mary E. Robinson Daniel D. Robinson, et ux	0.1199 0.1240 0.1286 0.1331 0.1377 0.1418
S121 S122 S123 S124 S125 S126 S127 S128	05-7B-09 05-7B-08 05-7B-07 05-7B-06 05-7B-05 05-7B-04 05-7B-03 05-7B-02	Teresa & Thomas Gouldsberry Teresa & Thomas Gouldsberry Teresa & Thomas Gouldsberry Teresa & Thomas Gouldsberry Daniel D. & Mary E. Robinson Daniel D. & Mary E. Robinson Daniel D. Robinson, et ux Daniel D. Robinson, et ux	0.1199 0.1240 0.1286 0.1331 0.1377 0.1418 0.1458 0.1504 0.1550
S121 S122 S123 S124 S125 S126 S127 S128 S129	05-7B-09 05-7B-08 05-7B-07 05-7B-06 05-7B-05 05-7B-04 05-7B-03 05-7B-02 05-8A-04	Teresa & Thomas Gouldsberry Teresa & Thomas Gouldsberry Teresa & Thomas Gouldsberry Teresa & Thomas Gouldsberry Daniel D. & Mary E. Robinson Daniel D. & Mary E. Robinson Daniel D. Robinson, et ux Daniel D. Robinson, et ux Cheryl A. & Tammie D. Persinger	0.1199 0.1240 0.1286 0.1331 0.1377 0.1418 0.1458 0.1504 0.1550 1.07
S121 S122 S123 S124 S125 S126 S127 S128 S129 JJJ S130 HHH	05-7B-09 05-7B-08 05-7B-07 05-7B-06 05-7B-05 05-7B-04 05-7B-03 05-7B-02 05-8A-04 05-8A-05	Teresa & Thomas Gouldsberry Teresa & Thomas Gouldsberry Teresa & Thomas Gouldsberry Teresa & Thomas Gouldsberry Daniel D. & Mary E. Robinson Daniel D. & Mary E. Robinson Daniel D. Robinson, et ux Daniel D. Robinson, et ux Cheryl A. & Tammie D. Persinger Cheryl A. & Tammie D. Persinger	0.1199 0.1240 0.1286 0.1331 0.1377 0.1418 0.1458 0.1504 0.1550 1.07 0.50
S121 S122 S123 S124 S125 S126 S127 S127 S128 S129 JJJ S130 HHH S131 III	05-78-09 05-78-08 05-78-07 05-78-05 05-78-05 05-78-04 05-78-03 05-78-02 05-8A-04 05-8A-05 05-8A-06	Teresa & Thomas Gouldsberry Teresa & Thomas Gouldsberry Teresa & Thomas Gouldsberry Teresa & Thomas Gouldsberry Daniel D. & Mary E. Robinson Daniel D. & Mary E. Robinson Daniel D. Robinson, et ux Daniel D. Robinson, et ux Cheryl A. & Tammie D. Persinger Cheryl A. & Tammie D. Persinger Cheryl A. & Tammie D. Persinger	0.1199 0.1240 0.1286 0.1331 0.1377 0.1418 0.1458 0.1504 0.1550 1.07 0.50 0.48
S121 S122 S123 S124 S125 S126 S127 S128 S129 JJJ S130 HHH S131 III S132 GGG	05-78-09 05-78-08 05-78-07 05-78-06 05-78-05 05-78-04 05-78-03 05-78-02 05-8A-04 05-8A-05 05-8A-06 05-8A-07	Teresa & Thomas Gouldsberry Teresa & Thomas Gouldsberry Teresa & Thomas Gouldsberry Teresa & Thomas Gouldsberry Daniel D. & Mary E. Robinson Daniel D. & Mary E. Robinson Daniel D. Robinson, et ux Daniel D. Robinson, et ux Cheryl A. & Tammie D. Persinger	0.1199 0.1240 0.1286 0.1331 0.1377 0.1418 0.1458 0.1504 0.1550 1.07 0.50 0.48 1.40
S121 S122 S123 S124 S125 S126 S127 S128 S129 JJJ S130 HHH S131 III S132 GGG S133 CCC	05-78-09 05-78-08 05-78-07 05-78-06 05-78-05 05-78-04 05-78-03 05-78-02 05-8A-04 05-8A-05 05-8A-06 05-8A-07 05-8A-08	Teresa & Thomas Gouldsberry Daniel D. & Mary E. Robinson Daniel D. & Mary E. Robinson Daniel D. Robinson, et ux Daniel D. Robinson, et ux Cheryl A. & Tammie D. Persinger Cheryl A. & Tammie D. Persinger Cheryl A. & Tammie D. Persinger Anne C. Klem John Joseph Goudy	0.1199 0.1240 0.1286 0.1331 0.1377 0.1418 0.1550 0.1550 1.07 0.50 0.48 1.40
S121 S122 S123 S124 S125 S126 S127 S128 S129 JJJ S130 HHH S131 III S132 GGG S133 CCC S134 DDD	05-78-09 05-78-08 05-78-07 05-78-06 05-78-05 05-78-04 05-78-02 05-8A-04 05-8A-05 05-8A-05 05-8A-06 05-8A-08 05-8A-09	Teresa & Thomas Gouldsberry Daniel D. & Mary E. Robinson Daniel D. & Mary E. Robinson Daniel D. Robinson, et ux Daniel D. Robinson, et ux Cheryl A. & Tammie D. Persinger Cheryl A. & Tammie D. Persinger Cheryl A. & Tammie D. Persinger Anne C. Klem John Joseph Goudy Kevin W. Wallace	0.1199 0.1240 0.1286 0.1331 0.1377 0.1418 0.1458 0.1504 0.1550 1.07 0.50 0.48 1.40 1.0
S121 S122 S123 S124 S125 S125 S126 S127 S128 S129 JJJ S130 HHH S131 III S132 GGG S133 CCC S134 DDD S135 BBB	05-78-09 05-78-08 05-78-06 05-78-06 05-78-05 05-78-04 05-78-02 05-8A-04 05-8A-05 05-8A-06 05-8A-09 05-8A-09 05-8A-09	Teresa & Thomas Gouldsberry Daniel D. & Mary E. Robinson Daniel D. & Mary E. Robinson Daniel D. Robinson, et ux Daniel D. Robinson, et ux Cheryl A. & Tammie D. Persinger Anne C. Klem John Joseph Goudy Kevin W. Wallace Kevin R. Morris	0.1199 0.1240 0.1286 0.1331 0.1377 0.1418 0.1458 0.1504 0.1550 1.07 0.50 0.48 1.40 1.0 0.323 2.06
\$121 \$122 \$123 \$124 \$125 \$126 \$127 \$128 \$129 \$130 \$HH \$131 \$132 \$GGG \$133 \$CCC \$134 \$DDD \$135 \$BBB \$136 \$AAA	05-78-09 05-78-08 05-78-06 05-78-05 05-78-05 05-78-04 05-78-02 05-8A-04 05-8A-05 05-8A-05 05-8A-07 05-8A-09 05-8A-09 05-8A-15 05-8A-16	Teresa & Thomas Gouldsberry Daniel D. & Mary E. Robinson Daniel D. & Mary E. Robinson Daniel D. Robinson, et ux Daniel D. Robinson, et ux Cheryl A. & Tammie D. Persinger Cheryl A. & Tammie D. Persinger Cheryl A. & Tammie D. Persinger Anne C. Klem John Joseph Goudy Kevin W. Wallace Kevin R. Morris John David Fromhart	0.1199 0.1240 0.1286 0.1331 0.1377 0.1418 0.1458 0.1504 0.1550 1.07 0.50 0.48 1.40 1.00 0.323 2.06 2.0
\$121 \$122 \$123 \$124 \$125 \$126 \$127 \$128 \$129 \$130 HHH \$131 III \$132 GGG \$133 CCC \$134 DDD \$135 BBB \$136 AAA \$137 YY	05-78-09 05-78-08 05-78-06 05-78-05 05-78-04 05-78-02 05-8A-04 05-8A-05 05-8A-05 05-8A-06 05-8A-07 05-8A-08 05-8A-09 05-8A-15 05-8A-16 05-8A-17	Teresa & Thomas Gouldsberry Daniel D. & Mary E. Robinson Daniel D. & Mary E. Robinson Daniel D. Robinson, et ux Daniel D. Robinson, et ux Cheryl A. & Tammie D. Persinger Cheryl A. & Tammie D. Persinger Cheryl A. & Tammie D. Persinger Anne C. Klem John Joseph Goudy Kevin W. Wallace Kevin R. Morris John David Fromhart Isaac Luke Vanscyoc	0.1199 0.1240 0.1286 0.1337 0.1418 0.1458 0.1504 0.1550 1.07 0.50 0.48 1.40 1.0 0.323 2.06 2.0
S121 S122 S123 S124 S125 S126 S127 S128 S129 JJJ S130 HHH S131 III S132 GGG S133 CCC S134 DDD S135 BBB S137 YY S138 EEE	05-78-09 05-78-08 05-78-07 05-78-06 05-78-05 05-78-03 05-78-03 05-78-02 05-8A-04 05-8A-05 05-8A-07 05-8A-08 05-8A-09 05-8A-15 05-8A-15 05-8A-17 05-8A-17	Teresa & Thomas Gouldsberry Daniel D. & Mary E. Robinson Daniel D. & Mary E. Robinson Daniel D. Robinson, et ux Daniel D. Robinson, et ux Cheryl A. & Tammie D. Persinger Cheryl A. & Tammie D. Persinger Cheryl A. & Tammie D. Persinger Anne C. Klem John Joseph Goudy Kevin W. Wallace Kevin R. Morris John David Fromhart Isaac Luke Vanscyoc H. G. Energy II Appalachia, LLC	0.1199 0.1240 0.1286 0.1337 0.1418 0.1458 0.1504 0.1550 1.07 0.50 0.48 1.40 1.0 0.323 2.06 2.0 1.44
S121 S122 S123 S124 S125 S126 S127 S128 S129 JJJ S130 HHH S131 III S132 GGG S133 CCC S134 DDD S135 BBB S136 AAA S137 YY S138 EEE S139 XX	05-78-09 05-78-08 05-78-07 05-78-06 05-78-04 05-78-03 05-78-02 05-8A-04 05-8A-05 05-8A-07 05-8A-08 05-8A-09 05-8A-15 05-8A-16 05-8A-17 05-8A-15 05-8A-19	Teresa & Thomas Gouldsberry Daniel D. & Mary E. Robinson Daniel D. & Mary E. Robinson Daniel D. Robinson, et ux Daniel D. Robinson, et ux Cheryl A. & Tammie D. Persinger Cheryl A. & Tammie D. Persinger Cheryl A. & Tammie D. Persinger Anne C. Klem John Joseph Goudy Kevin W. Wallace Kevin R. Morris John David Fromhart Isaac Luke Vanscyoc H. G. Energy II Appalachia, LLC Mary Catherine Brooks	0.1199 0.1240 0.1286 0.1331 0.1377 0.1418 0.1458 0.1504 0.1550 1.07 0.50 0.48 1.40 1.0 0.323 2.06 2.0 1.44 0.10
\$121 \$122 \$123 \$124 \$125 \$126 \$127 \$128 \$129 \$130 \$131 \$131 \$132 \$130 \$131 \$132 \$133 \$135 \$136 \$135 \$136 \$137 \$137 \$136 \$137 \$137 \$138 \$138 \$139 \$130 \$100	05-78-09 05-78-08 05-78-07 05-78-05 05-78-04 05-78-03 05-78-02 05-8A-04 05-8A-05 05-8A-05 05-8A-06 05-8A-09 05-8A-15 05-8A-16 05-8A-16 05-8A-17 05-8A-19 05-8A-19 05-8A-19	Teresa & Thomas Gouldsberry Daniel D. & Mary E. Robinson Daniel D. & Mary E. Robinson Daniel D. Robinson, et ux Daniel D. Robinson, et ux Cheryl A. & Tammie D. Persinger Anne C. Klem John Joseph Goudy Kevin W. Wallace Kevin W. Wallace Kevin R. Morris John David Fromhart Isaac Luke Vanscyoc H. G. Energy II Appalachia, LLC Mary Catherine Brooks Milton Christopher White	0.1199 0.1240 0.1286 0.1331 0.1377 0.1418 0.1458 0.1504 0.1550 1.07 0.50 0.48 1.40 1.0 0.323 2.06 2.0 1.44 0.19
S121 S122 S123 S124 S125 S126 S127 S128 S129 JJJ S130 HHH S131 III S131 SGG S132 GGG S133 CCC S134 DDD S135 BBB S136 AAA S137 YY S138 EEE S139 XX S140 WW S141 W	05-78-09 05-78-08 05-78-06 05-78-06 05-78-05 05-78-04 05-78-02 05-8A-04 05-8A-05 05-8A-06 05-8A-09 05-8A-15 05-8A-16 05-8A-17 05-8A-19 05-8A-19 05-8A-19 05-8A-10	Teresa & Thomas Gouldsberry Daniel D. & Mary E. Robinson Daniel D. & Mary E. Robinson Daniel D. Robinson, et ux Daniel D. Robinson, et ux Cheryl A. & Tammie D. Persinger Anne C. Klem John Joseph Goudy Kevin W. Wallace Kevin W. Wallace Kevin R. Morris John David Fromhart Isaac Luke Vanscyoc H. G. Energy II Appalachia, LLC Mary Catherine Brooks Milton Christopher White Gloria Jean White & Milton Christopher White	0.1199 0.1240 0.1286 0.1331 0.1377 0.1418 0.1458 0.1504 0.1550 1.07 0.50 0.48 1.40 1.0 0.323 2.06 2.0 1.44 0.19 0.19 0.19
\$121 \$122 \$123 \$124 \$125 \$126 \$127 \$128 \$129 \$130 \$HH \$131 \$131 \$132 \$GGG \$133 \$CCC \$134 \$DDD \$135 \$BB \$136 \$AAA \$137 \$Y \$138 \$EE \$139 \$X \$140 \$Y \$141 \$W \$141 \$W \$141 \$W \$142 \$W \$141 \$W \$141 \$W \$141 \$W \$141 \$W \$141 \$W \$141 \$W \$141 \$W \$141 \$W \$141 \$W \$141 \$W \$141 \$W \$141 \$W \$141 \$W \$141 \$W \$141 \$W \$141 \$W \$141 \$W \$142 \$W \$142 \$W \$142 \$W \$144 \$W \$W \$144 \$W \$S \$144 \$W \$S \$S \$S \$S \$S \$S \$S \$S \$S \$S	05-78-09 05-78-08 05-78-06 05-78-06 05-78-05 05-78-04 05-78-02 05-8A-04 05-8A-05 05-8A-06 05-8A-06 05-8A-09 05-8A-15 05-8A-15 05-8A-17 05-8A-15 05-8A-11 05-8A-19 05-8A-19 05-8A-11 05-8A-11	Teresa & Thomas Gouldsberry Daniel D. & Mary E. Robinson Daniel D. & Mary E. Robinson Daniel D. Robinson, et ux Daniel D. Robinson, et ux Cheryl A. & Tammie D. Persinger Anne C. Klem John Joseph Goudy Kevin W. Wallace Kevin R. Morris John David Fromhart Isaac Luke Vanscyoc H. G. Energy II Appalachia, LLC Mary Catherine Brooks Milton Christopher White Gloria Jean White & Milton Christopher White	0.1199 0.1240 0.1286 0.1337 0.1418 0.1458 0.1504 0.1550 1.07 0.50 0.48 1.40 1.0 0.323 2.06 2.0 1.44 0.10 1.0 0.525 1.137
S121 S122 S123 S124 S125 S126 S127 S128 S129 JJJ S130 HHH S131 III S131 SGG S132 GGG S133 CCC S134 DDD S135 BBB S136 AAA S137 YY S138 EEE S139 XX S140 WW S141 W	05-78-09 05-78-08 05-78-06 05-78-06 05-78-05 05-78-04 05-78-02 05-8A-04 05-8A-05 05-8A-06 05-8A-09 05-8A-15 05-8A-16 05-8A-17 05-8A-19 05-8A-19 05-8A-19 05-8A-10	Teresa & Thomas Gouldsberry Daniel D. & Mary E. Robinson Daniel D. & Mary E. Robinson Daniel D. Robinson, et ux Daniel D. Robinson, et ux Cheryl A. & Tammie D. Persinger Anne C. Klem John Joseph Goudy Kevin W. Wallace Kevin W. Wallace Kevin R. Morris John David Fromhart Isaac Luke Vanscyoc H. G. Energy II Appalachia, LLC Mary Catherine Brooks Milton Christopher White Gloria Jean White & Milton Christopher White	0.1199 0.1240 0.1286 0.1331 0.1377 0.1418 0.1504 0.1550 1.07 0.50 0.48 1.40 1.0 0.323 2.06 2.0 1.44 0.10 0.19 0.19

SURFACE OWNER

Number TAX MAP -PARCEL



P.S. David I Jackson

51-02200 H6A



OPERATOR'S	
WELL #:	Michter N-9HU
DISTRICT:	Franklin
COUNTY:	Marshall
STATE: WV	
API #:	

WELL PLAT
PAGE 3 OF 10

DATE: 07/23/2019

MICHTER LEASE WELL N-9HU 424.1534± ACRES

Number	TAX MAP -PARCEL	SURFACE OWNER	ACRES
S145 RR	05-8A-25	Whitney Woods	0.29
S146 SS	05-8A-22	Whitney Woods	0.715
S147 QQ	05-8A-23	Danny Lee & Leona May Darrah	0.738
S148 PP	05-8A-24	Clarence Paul Siburt, Hrs	0.653
S149 ZZ	05-8A-26	Albert James Anderson, Jr.	1.605
S150 OC	05-8A-27	Mary J. Siburt	8.296
\$151 JJ	05-8A-28	Norman G. Johnson-Life	2.0
5152 LL	05-8A-30	Randall Keith Keener, et ux	0.059
S153 KK	05-8A-29	Catherine P. Rine	0.394
S154 NN	05-8A-31	Randall K. Keener, et ux	2.346
S155 MA	05-8A-32	Jonathan David Bopp	0.580
\$156 GG	05-8A-34	Norman G. Johnson, et ux	0.255
S157 Z	05-8A-35	Jared C. Sills	2.780
3158 EE		Barbara L. Daniels & Elaine Wills	3.223
3159	05-8A-40	Barbara L. Daniels & Elaine Wills	0.627
S160 DD	05-8A-38	William J. Gamble, et ux	0.35
3161 CC	05-8A-41	William J. Gamble, et ux	0.046
3162 BB	05-8A-37	William J. Gamble, et ux	0.706
3163 AA	05-8A-36	William J. Gamble, et ux	1.031
S164 FF	05-8A-33	Elaine Wills & Jeffrey D. Brooks	2.517
3165 N	05-8-04	C. Wayne Berisford	23.355
S166 Y	05-8A-43	Charles G. Stein & Eva A. Wade	0.17
S167 X	05-8A-44	Charles G. Stein & Eva A. Wade	0.18
S168 W	05-8A-42	Robert M. White	7.23
5169	05-8A-49	Raymand A. Jr.& Larriette Scott	0.159
S170	05-8A-45	Raymand A. Jr.& Larriette Scott	0.305
5171	05-8A-46	Barbara L. Rose & Mary L. Rose	1.5
S172 V	05-8A-48	Raymond A. Jr. & Larriette Scott	2.12
S173 S	05-8A-52	Barbara L. Rose & Mary L. Rose	0.59
S174 R	05-8A-51	Lucretia M. Harrison	0.210
S175 Q	05-8A-50	Lucretia M. Harrison	0.277
S176 P	05-8A-54	David D. & Christine S. Daniels	0.68
S177 O	05-8A-54.1	David D. & Christine S. Daniels	0.69
5178 🏌	05-8A-53	Frances E. Nieman	0.422
S179 U	05-8A-47	Barbara L. Rose & Mary L. Rose	3.0
S180 L	05-08-4.1	Frances E. Nieman	33.461
S181	05-07-39	Lionel L. Persinger, et ux	57.00
S182 FFF	05-08-02	Consolidation Coal Company/ Murray Ene	rgy 136.58



51-02220 H64

P.S. David L Jackson

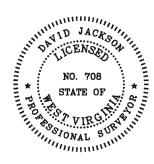


OPERATOR'S	l'
WELL #:Michter N-9HU	WELL PLAT
DISTRICT: Franklin	PAGE 4 OF 10
COUNTY: Marshall	DATE: 07/23/2019
STATE: WV	DATE: 07/23/2019
API#:	REVISED DATE: - 08/08/2019

ww min

MICHTER LEASE WELL N-9HU 424.1534± ACRES

Lease ID	Tag	Parcel	Granor, Lessor, Etc.		ok/Page
10*47051,089.0 10*22667	A	5-11-1.1	LARRY W DUNLAP AND BARBARA E DUNLAP	864	148
10*22567	B	5-11-21 5-11-21	REBEKAH DRAYER ELDRIDGE AND CHRISTOPHER ELDRIDGE CHRISTA DRAYER STALEY AND JOSHUA STALEY	850 851	157 3
10*22777	В	5-11-21	BOYD BUESKING	851	159
0*22780	В	5-11-21	BRENDA FAYE THOMAS PETRACK	850	161
.0*22786	В	5-11-21	GUY YATES	848	206
0*22787	В	5-11-21	GAIL ANN YATES WOOD AND WESLEY J WOOD	848	208
0*22788	В	5-11-21	GENIE SUE THOMAS HOLMES AND JOHN L HOLMES	848	204
0*22801	В	5-11-21	BOYD DAIL YATES JR AND MARLA YATES	848	210
0*22808	В	5-11-21	SHIRLEY YATES HARTSELL AND FREDDIE LEE HARTSELL	848	212
0*22810	В	5-11-21	CLYDE V. & KAREN S REED	864	190
0*47051.089.0	С	5-11-1.4	LARRY W DUNLAP AND BARBARA E DUNLAP	864	148
0*19167 0*19167	D	5-11-1.2	JAY A CONNER PATTY LOUISE CONNER JAY A CONNER PATTY LOUISE CONNER	724	156
.0*22500	E	5-11-1.3 5-11-1.6	DEBRA MORRIS	724	156
0*19174	G	5-11-1.6	WILLIAMS ADAMS MARY KADAMS	797	517
0*19168	Н	5-11-1.5	PAUL WHITT AND SANDY WHITT	711	318 565
0*47051,105.0	1	5-8-9	JAMES B JACKSON JR AND MARION LJACKSON	859	478
0*21546	1	5-8-7	EDWIN C MILLER AND KIMBERLY ANN MILLER	957	257
091960000	К		WEST VIRGINIA DIVISION OF NATURAL RESOURCES	865	558
	_				
H19101	L	5-8-4.1	FRANCES E. NIEMAN	685	288
VX946510	М	5-8-5	NICOLE GATTS-SFX	899	470
VX947093	М	5-8-5	RICHARD J. GATTS	899	479
VX947094	М	5-8-5	LOIS ZWOLENSKY-SFX	899	476
VX866629	N	5-8-4			
			FRANCES E NIEMAN ET AL	685	283
092215000	0	5-8A-54.1	DAVID D DANIELS AND CHRISTINE'S DANIELS	869	354
097976001	0	5-8A-54.1	SARA B ANDERSON AND ARTHUR A ANDERSON	890	310
097976004	0	5-8A-54.1	LORNA MARIELEW	890	602
097976005	0	5-8A-54.1	MARJORIE B KIDD AND ROBERT C KIDD	890	596
097976005	0	5-8A-54.1			
			VICTORIA A PAKROVSKY AND STEPHEN W PAKROVSKY	890	599
097976007	0	5-8A-54.1	CHARLES EDWIN BLUE IV	890	316
2099899000	0	5-8A-54.1	THOMAS DANIEL BLUE AND JOSEPHINE M BLUE (HG Energy - FEE)	898	584
092215000	Р	5-8A-54	DAVID D DANIELS AND CHRISTINE'S DANIELS	869	354
097976001	Р	5-8A-54	SARA B ANDERSON AND ARTHUR A ANDERSON	890	310
097976004	Р	5-8A-54	LORNA MARIE LEW	890	602
0097976005	P	5-8A-54	MARJORIE B KIDD AND ROBERT C KIDD		
	_			890	596
097976006	Р	5-8A-54	VICTORIA A PAKROVSKY AND STEPHEN W PAKROVSKY	890	599
2097976007	P	5-8A-54	CHARLES EDWIN BLUE IV	890	316
2099899000	P	5-8A-54	THOMAS DANIEL BLUE AND JOSEPHINE M BLUE (HG Energy - FEE)	898	584
2097976001	Q	5-8A-50	SARA B ANDERSON AND ARTHUR A ANDERSON	890	310
0097976004	Q	5-8A-50	LORNA MARIE LEW	890	602
2097976005	Q	5-8A-50	MARJORIE B KIDD AND ROBERT C KIDD		
				890	596
2097976006	Q	5-8A-50	VICTORIA A PAKROVSKY AND STEPHEN W PAKROVSKY	890	599
2097976007	Q	5-8A-50	CHARLES EDWIN BLUE IV	890	316
2099899000	Q	5-8A-50	THO MAS DANIEL BLUE AND JOSEPHINE M BLUE (HG Energy - FEE)	898	584
2097976001	R	5-8A-51	SARA B ANDERSON AND ARTHUR A ANDERSON	890	310
2097976004	R	5-8A-51	LORNA MARIE LEW	890	602
2097976005	R	5-8A-51	MARJORIE B KIDD AND ROBERT C KIDD		
				890	596
2097976006	R	5-8A-51	VICTORIA A PAKROVSKY AND STEPHEN W PAKROVSKY	890	599
2097976007	R	5-8A-51	CHARLES EDWIN BLUE IV	890	316
2099899000	R	5-8A-51	THO MAS DANIEL BLUE AND JOSEPHINE M BLUE (HG Energy - FEE)	898	584
2097976001	S	5-8A-52	SARA B ANDERSON AND ARTHUR A ANDERSON	890	310
2097976004	s	5-8A-52	LORNA MARIE LEW	890	602
2097976005	s	5-8A-52	MARJORIE B KIDD AND ROBERT C KIDD	890	596
2097976006	S	5-8A-52	VICTORIA A PAKROVSKY AND STEPHEN W PAKROVSKY	890	599
2097976007	S	5-8A-52	CHARLES EDWIN BLUE IV	890	316
2099899000	S	5-8A-52	THO MAS DANIEL BLUE AND JOSEPHINE M BLUE (HG Energy - FEE	898	584
0,097976001	T	5-8A-58	SARA B ANDERSON AND ARTHUR A ANDERSON	890	310
2097976004	Т	5-8A-53	LORNA MARIE LEW	890	602
2097976005	т	5-8A-53	MARJORIE 8 KIDD AND ROBERT C KIDD	890	596
	T				
2097976006	_	5-8A-53	VICTORIA A PAKROVSKY AND STEPHEN W PAKROVSKY	890	599
2097976007	T	5-8A-53	CHARLES EDWIN BLUE IV	890	316
100000000		F 64 F	THOMAS DANIEL BUILD AND ICAMOUNT AND ICAMOUN		_
2099899000	Т	5-8A-53	THO MAS DANIEL BLUE AND JOSEPHINE M BLUE (HG Energy - FEE)	898	584
H19101	T	5-8A-53	FRANCES E. NIEMAN	685	288
2097976001	U	5-8A-47	SARA B ANDERSON AND ARTHUR A ANDERSON	890	310
097976004	U	5-8A-47	LORNA MARIELEW	890	602
097976005	U	5-8A-47	MARJORIE B KIDD AND ROBERT C KIDD		
				890	596
097976006	U	5-8A-47	VICTORIA A PAKROVSKY AND STEPHEN W PAKROVSKY	890	599
097976007	U	5-8A-47	CHARLES EDWIN BLUE IV	890	316
009899000	U	5-8A-47	THOMAS DANIEL BLUE AND JOSEPHINE M BLUE (HG Energy ~ FEE)	898	584
0*26704	٧	5-8A-48	Southeastern Guide Dogs Inc.	PENDING	PENDII
N/A	٧	5-8A-48	COURTNEY D. HALL, SINGLE	N/A	N/A
N/A	V	5-8A-48	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY	N/A	N/A
097976001	v	5-8A-48	Sara B. Anderson and Arthur A. Anderson, wife and husband	890-310	310
	v				
2097976001		5-8A-4B	Sara B. Anderson and Arthur A. Anderson, wife and husband	890-310	310
2097976004	٧	5-8A-48	Loma Marie Lew	890-602	602
2097976004	٧	5-8A-48	Loma Marie Lew	890-602	602
2097976005	v	5-8A-48	MARJORIE B KIDD AND ROBERT C KIDD	890-596	596
	<u> </u>			330.330	
2097976006	V	5-8A-48	VICTORIA A PAKROVSKY AND STEPHEN W PAKROVSKY	890-599	599



51-02220 H6A

P.S. David L Jackson

AN	TUG HILL
XX	OPERATING

OPERATOR'S

WELL #: Michter N-9HU

DISTRICT: Franklin

COUNTY: Marshall

STATE: WW

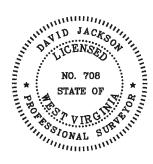
API #:

WELL PLAT
PAGE 5 OF 10

DATE: 07/23/2019

MICHTER LEASE WELL N-9HU 424.1534± ACRES

Lease ID	Tag	Parcel	Granor, Lessor, Etc.	Deed Boo	ok/Page
N/A	w	5-8A-42	ROBERT M. WHITE AND DIANE WHITE	N/A	N/A
2097976001	W	5-8A-42	SARA B ANDERSON AND ARTHUR A ANDERSON	890	310
2097976004	W	5-8A-42	LORNA MARIE LEW	890	602
Q097976005	W	5-8A-42	MARJORIE B KIDD AND ROBERT C KIDD	890	596
0097976006	W	5-8A-42	VICTORIA A PAKROVSKY AND STEPHEN W PAKROVSKY	890	599
2097976007	W	5-8A-42	CHARLES EDWIN BLUE IV	890	316
2099899000	W	S-8A-42	THOMAS DANIEL BLUE AND JOSEPHINE M BLUE (HG Energy - FEE)	898	584
10*25351	X	5-8A-44	BRIAN EDWIN LEMASTERS AND BEVERLY J LEMASTERS	PENDING	
10*25698	X	5-8A-44	KENNETH AND DAWN E MORRIS	1033	129
10*25723	X	5-8A-44	BRYCE AND EDNA M ULBRICH	1035	156
10*25724	X	5-8A-44	BLYE ULBRICH AND JAMES JENSHKE	1035	154
10*25725	X	5-8A-44	H JAY ULBRICH	1035	152
10*25726	X	5-8A-44	MARILYN AND RODNEY N CHALMERS	1035	150
10*25752	X	5-8A-44	DEBRA ANN AND EARLV BUTCHER	1033	315
10*26437	X	5-8A-44	MARY L PARRIOTT	1035	148
10*26438	X	5-8A-44	JANICE AND DONALD CROOK	1034	583
10*26439	X	5-8A-44	NANCY LOUISE SNYDER	1034	588
10*26704	X	5-8A-44	SOUTHEASTERN GUIDE DOGS INC	PENDING	
N/A	X	5-8A-44	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY	N/A	N/A
PENDING	X	5-8A-44	VICTORIA A. PAKROVSKY AND STEPHEN W. PAKROVSKY, WIFE AND HUSBAND	890-599	599
2097976003	X	5-8A-44	CHARLES G. STEIN AND EVA A. STEIN F/K/A EVA A. WADE, HUSBAND AND WIFE	821-28	2.8
2097976001	X	5-8A-44	SARA B. ANDERSON AND ARTHUR A. ANDERSON, WIFE AND HUSBAND	890-310	310
Q097976004	X	5-8A-44	LORNA MARIE LEW	890-602	602
2097976005	X	5-8A-44	MARIORIE B. KIDD AND ROBERT C, KIDD, WIFE AND HUSBAND	890-596	596
2097976007	X	5-8A-44	CHARLES EDWIN BLUE, IV, DEALING IN HIS SOLE AND SEPARATE PROPERTY	890-316	316
10*25351	Y	5-8A-43	BRIAN EDWIN LEMASTERS AND BEVERLY J LEMASTERS	PENDING	
10*25698	Y	5-8A-43	KENNETH AND DAWN & MORRIS	1033	129
10*25723	Υ	5-8A-43	BRYCE AND EDNA M LIBRICH	1035	156
10*25724	٧	5-8A-43	BLYE ULBRICH AND JAMES JENSHKE	1035	154
10*25725	Y	5-8A-43	H JAY ULBRICH	1035	152
10*25726	Y	5-8A-43	MARILYN AND RODNEY N CHALMERS	1035	150
10*25752	Υ	5-8A-43	DEBRA ANN AND EARL V BUTCHER	1033	315
10*26437	Y	5-8A-43	MARYLPARRIOTT	1035	148
10*26438	Y	5-8A-43	JANICE AND DONALD CROOK	1034	583
10°26439	Υ	5-8A-43	NANCY LOUISE SNYDER	1034	588
10*26704	Y	5-8A-43	SOUTHEASTERN GUIDE DOGS INC	PENDING	
N/A	Υ	5-8A-43	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY	N/A	N/A
Q097976003	Y	5-8A-43	Charles G. Stein and Eva A. Stein F/K/A Eva A. Wade, husband and wife	821	28
Q097976001	Y	5-8A-43	Sara B. Anderson and Arthur A. Anderson, wife and husband	890	310
Q097976004	Y	5-8A-43	Lorna Marie Lew	890	602
Q097976005	Y	5-8A-43	MARJORIE B. KIDD AND ROBERT C. KIDD, WIFE AND HUSBAND	890	596
Q097976006	Y	5-8A-43	Victoria A. Pakrovsky and Stephen W. Pakrovsky, wife and husband	890	599
Q097976007	Y	5-8A-43	CHARLES EDWIN BLUE, IV, DEALING IN HIS SOLE AND SEPARATE PROPERTY	890	316
10*26024	z	5-8A-35	WILLIAM MCGLUMPHY	752	370
10*25698	AA	5-8A-36	KENNETH AND DAWN E MORRIS	1033	129
10*25752	AA	5-8A-36	DEBRA ANN AND EARLY BUTCHER	1033	315
10*26438	AA	5-8A-36	JANICE AND DONALD CROOK	1034	583
10*26439	AA	5-8A-36	NANCY LOUISE SNYDER	1034	588
N/A	AA	5-8A-36	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY	N/A	N/A
Q078626001	AA	5-8A-36	LUCILLE E. WINGROVE	810	80
Q078626002	AA	\$-8A-36	KENNETH R. MORRIS AND DAWN E. MORRIS, HUSBAND AND WIFE	808	308
Q078626003	АА	5-8A-36	JUNE MORRIS, A WIDOW	808	301
Q078626004	AA	5-8A-36	NANCY L. SNYDER, A/K/A NANCY WINGROVE SNYDER, A WIDOW	808	309
,			JANICE R. CROOK, A/K/A JANICE WINGROVE CROOK AND DONALD P. CROOK, A	600	305
Q078626005	AA	5-8A-36	WIFE AND HUSBAND	808	305
Q078626009	AA	5-8A-36	H. JAY UIBRICH, A SINGLE MAN	819	309
Q078626010	AA	5-8A-36	MARILYN ULBRICH CHALMERS AND ROD N. CHALMERS, WIFE AND HUSBAND	820	506
Q078626011	AA	5-8A-36	BLYE ULBRICH JENSCHKE AND JIM JENSCHKE, WIFE AND HUSBAND	819	305
Q078626012	AA	5-8A-36	JUSTIN SMITH, A/K/A JUSTINE SMITH, A WIDOW	819	307
Q078626013	AA	5-8A-36	ROBERT LEE SMITH AND BETSY K. SMITH, HUSBAND AND WIFE	819	303
Q078626017	AA	5-8A-36	SOUTHEASTERN GUIDE DOGS INC., TITUS HERMAN CEO	B20	516
Q078626023	AA	5-8A-36	BRYCE E. ULBRICH AND EDNA M. ULBRICH, HUSBAND AND WIFE	825	298
Q078626025	AA	5-8A-36	COURTNEY D. HALL, SINGLE	829	147
Q078626026	AA	S-8A-36	BŁASÉ JOSEPH ULCAK JR., A SINGLE MAN	829	127
Q078626036	AA	5-8A-36	MARTHA FRANCES ULCAK, A SINGLE WOMAN	B32	589
10*25698	ВВ	5-8A-37	KENNETH AND DAWN E MORRIS	1033	129
10*25752	ВВ	5-8A-37	DEBRA ANN AND EARLY BUTCHER	1033	315
10*26438	ВВ	5-8A-37	JANICE AND DONALD CROOK	1034	583
10*26439	ВВ	5-8A-37	NANCY LOUISE SNYDER	1034	588
V/A	ВВ	5-8A-37	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY	N/A	N/A
Q078626001	BB	5-8A-37	LUCILLE E. WINGROVE, A WIDOW	810	80
Q078626002	ВВ	5-8A-37	KENNETH R. MORRIS AND DAWN E. MORRIS, HUSBAND AND WIFE	808	303
Q078626003	BB	5-8A-37	JUNE MORRIS, A WIDOW		
Q078626004	BB	5-8A-37	NANCY L. SNYDER, A/K/A NANCY WINGROVE SNYDER, A WIDOW	808 Bno	301
	00	J-6A-37	JANICE R. CROOK, A/K/A JANICE WINGROVE SNYDER, A WIDOW JANICE R. CROOK, A/K/A JANICE WINGROVE CROOK AND DONALD P. CROOK, A	808	309
Q078626005	BB	5-8A-37	WIFE AND HUSBAND	808	305
Q078626009	ВВ	5-8A-37	H. JAY ULBRICH, A SINGLE MAN	819	309
Q078626010	ВВ	5-8A-37	MARILYN ULBRICH CHALMERS AND ROD N. CHALMERS, WIFE AND HUSBAND	820	506
Q078626011	ВВ	5-8A-37	BLYE ULBRICH JENSCHKE AND JIM JENSCHKE, WIFE AND HUSBAND	819	305
Q078626012	ВВ	5-8A-37	JUSTIN SMITH, A/K/A JUSTINE SMITH, A WIDOW	819	307
Q07B626013	BB	5-8A-37	ROBERT LEE SMITH AND BETSY K. SMITH, HUSBAND AND WIFE	819	303



P.S. David I Jackson

51-02200 HGA



OPERATOR'S

WELL #: Michter N-9HU

DISTRICT: Franklin

COUNTY: Marshall

STATE: WW

API #:

WELL PLAT
PAGE 6 OF 10

DATE: 07/23/2019

MICHTER LEASE WELL N-9HU 424.1534± ACRES

CONTRACTOR	Tag	Parcel	Granor, Lessor, Etc.		ok/Page
2078626023	BB	5-8A-37	BRYCE E. UIBRICH AND EDNA M. UIBRICH, HUSBAND AND WIFE	825	298
2078626025	BB	5-8A-37	COURTNEY D. HALL, SINGLE	829	147
2078626026	BB	5-8A-37	BLASE JOSEPH ULCAK JR., A SINGLE MAN	829	127
2078626036	BB	5-8A-37	MARTHA FRANCES ULCAK, A SINGLE WOMAN	832	588
10*25698	CC	5-8A-41	KENNETH AND DAWN E MORRIS	1033	129
1.0*25752	CC	5-8A-41	DEBRA ANN AND EARLY BUTCHER	1033	315
LO*26438	CC	5-8A-41	JANICE AND DONALD CROOK	1034	583
10*26439	cc	5-8A-41	NANCY LOUISE SNYDER	1034	588
N/A	cc	5-8A-41	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY	N/A	N/A
2078626001	cc	5-8A-41	LUCILLE E. WINGROVE, A WIDOW	810	80
2078626002	cc	5-8A-41	KENNETH R. MORRIS AND DAWN E. MORRIS, HUSBAND AND WIFE	808	303
2078626003	cc	5-8A-41	JUNE MORRIS, A WIDOW	808	301
2078626004	cc	5-8A-41	NANCY L SNYDER, A/K/A NANCY WINGROVE SNYDER, A WIDOW	808	309
0.070536005			JANICE R. CROOK, A/K/A JANICE WINGROVE CROOK AND DONALD P. CROOK, A		
2078626005	CC	5-8A-41	WIFE AND HUSBAND	808	305
2,078626009	CC	5-8A-41	H. JAY ULBRICH, A SINGLE MAN	819	309
2078626010	cc	5-8A-41	MARILYN ULBRICH CHALMERS AND ROD N. CHALMERS, WIFE AND HUSBAND	820	506
2078626011	CC	5-8A-41	BLYE ULBRICH JENSCHKE AND JIM JENSCHKE, WIFE AND HUSBAND	819	305
2078626012	CC	5-8A-41	JUSTIN SMITH, A/K/A JUSTINE SMITH, A WIDOW	819	307
2078626013	cc	5-8A-41	ROBERT LEE SMITH AND BETSY K. SMITH, HUSBAND AND WIFE	819	303
2078626017	cc	5-8A-41	SOUTHEASTERN GUIDE DOGS INC., TITUS HERMAN CEO	820	516
Q078626023	cc	5-8A-41	BRYCE E. ULBRICH AND EDNA M. ULBRICH, HUSBAND AND WIFE	825	298
2078626025	cc	5-8A-41	COURTNEY D. HALL, SINGLE	829	147
Q078626026	сс	5-8A-41	BLASÉ JOSEPH ULCAK JR., A SINGLE MAN	829	127
2078626036	сс	5-8A-41	MARTHA FRANCES ULCAK, A SINGLE WOMAN	832	588
10*25698	DD	5-8A-38	KENNETH AND DAWN E MORRIS	1033	129
10*25752	DD	5-8A-38	DEBRA ANN AND EARLY BUTCHER	1033	315
10*26438	DD	5-8A-38	JANICE AND DONALD CROOK	1034	583
10*26438	DD	5-8A-38	NANCY LOUISE SNYDER		
	1			1034	588
N/A	DD	5-8A-38	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY	N/A	N/A
Q078626001	DD	5-8A-38	LUCILLE E. WINGROVE, A WIDOW	810	80
Q078626002	DD	5-8A-38	KENNETH R. MORRIS AND DAWN E. MORRIS, HUSBAND AND WIFE	808	303
Q078626003	DD	5-8A-38	JUNE MORRIS, A WIDOW	808	301
Q078626004	DD	5-8A-38	NANCY L SNYDER, A/K/A NANCY WINGROVE SNYDER, A WIDOW	808	309
007007000			JANICE R. CROOK, A/K/A JANICE WINGROVE CROOK AND DONALD P. CROOK, A		
Q078626005	DD	5-8A-38	WIFE AND HUSBAND	808	305
0,078626009	DD	5-8A-38	H. JAY ULBRICH, A SINGLE MAN	819	309
Q078626010	DD	5-8A-38	MARILYN ULBRICH CHALMERS AND ROD N. CHALMERS, WIFE AND HUSBAND	820	506
Q078626011	DD	5-8A-38	BLYE ULBRICH JENSCHKE AND JIM JENSCHKE, WIFE AND HUSBAND	819	305
Q078626012	OO	5-8A-38	JUSTIN SMITH, A/K/A JUSTINE SMITH, A WIDOW	819	307
Q078626013	DD	5-8A-38	ROBERT LEE SMITH AND BETSY K. SMITH, HUSBAND AND WIFE	819	303
Q078626017	DD	5-8A-38	SOUTHEASTERN GUIDE DOGS INC., TITUS HERMAN CEO	820	516
Q078626023	DD	5-8A-38	BRYCE E. ULBRICHAND EDNA M. ULBRICH, HUSBAND AND WIFE	825	298
Q078626025	DD	5-8A-38	COURTNEY D. HALL, SINGLE	829	147
Q078626026	DD	5-8A-38	BLASÉ JOSEPH ULCAKJR., A SINGLE MAN	829	127
Q078626036	DD	5-8A-38	MARTHA FRANCES ULCAK, A SINGLE WOMAN	832	538
10°25698	EE	5-8A-39	KENNETH AND DAWN E MORRIS	1033	129
10*25752	EE	5-8A-39	DEBRA ANN AND EARLY BUTCHER	1033	315
10*26438	EE	5-8A-39	JANICE AND DONALD CROOK	1034	583
10*26439	EE	5-8A-39	NANCY LOUISE SNYDER		
				1034	588
N/A	EE	5-8A-39	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY	N/A	N/A
Q078626001	EE	5-8A-39	LUCILLE E. WINGROVE, A WIDOW	810	80
Q078626002	EE	5-8A-39	KENNETH R. MORRIS AND DAWN E. MORRIS, HUSBAND AND WIFE	808	303
Q078626003	EE	5-8A-39	JUNE MORRIS, A WIDOW	808	301
Q078626004	EE	5-8A-39	NANCY L SNYDER, A/K/A NANCY WINGROVE SNYDER, A WIDOW	808	309
Q078626005	EE	5-8A-39	JANICE R. CROOK, A/K/A JANICE WINGROVE CROOK AND DONALD P. CROOK, A WIFE AND HUSBAND	000	
				808	305
Q078626006	EE	5-8A-39	BARBARA F. DANIELS, WIDOW	813	246
Q078626007	EE	5-8A-39	JEFFREY BROOKS, SINGLE	813	540
Q078626008	EE	5-8A-39	ELAINE WILLS, SINGLE	813	542
Q078626009	EE	5-8A-39	H. JAY ULBRICH, A SINGLE MAN	819	309
Q078626010	EE	5-8A-39	MARILYN ULBRICH CHALMERS AND ROD N. CHALMERS, WIFE AND HUSBAND	820	506
Q078626011	EE	5-8A-39	BLYE ULBRICH JENSCHKE AND JIM JENSCHKE, WIFE AND HUSBAND	819	305
Q078626012	EE	5-8A-39	JUSTIN SMITH, A/K/A JUSTINE SMITH, A WIDOW	819	307
Q078626013	EE	5-8A-39	ROBERT LEE SMITH AND BETSY K. SMITH, HUSBAND AND WIFE	819	303
Q078626017	EE	5-8A-39	SOUTHEASTERN GUIDE DOGS INC., TITUS HERMAN CEO	820	516
Q078626023	EE	5-8A-39	BRYCE E. ULBRICHAND EDNA M. ULBRICH, HUSBAND AND WIFE	825	298
Q078626025	EE	5-8A-39	COURTNEY D. HALL, SINGLE	829	147
Q078626026	EE	5-8A-39	BLASÉ JOSEPH ULCAKJR., A SINGLE MAN	829	127
Q078626036	EE	5-8A-39	MARTHA FRANCES ULCAK, A SINGLE WOMAN	832	588
10°25698	FF	5-8A-33	KENNETH AND DAWN E MORRIS	1033	129
10*25752	FF	5-8A-33			
			DEBRA ANN AND EARL V BUTCHER	1033	315
10*26438	FF	5-8A-33	JANICE AND DONALD CROOK	1034	583
10*26439	FF	5-8A-33	NANCY LOUISE SNYDER	1034	588
N/A	FF	5-8A-33	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY	N/A	N/A
	FF	5-8A-33	LUCILLE E. WINGROVE, A WIDOW	810	80
Q078626001	FF	5-8A-33	KENNETH R. MORRIS AND DAWN E. MORRIS, HUSBAND AND WIFE	808	303
	FF	5-8A-33	JUNE MORRIS, A WIDOW	808	301
Q078626002	-				
Q078626001 Q078626002 Q078626003 Q078626004	FF	5-8A-33	NANCY L SNYDER, A/K/A NANCY WINGROVE SNYDER, A WIDOW	808	309
Q078626002 Q078626003 Q078626004	FF		JANICE R. CROOK, A/K/A JANICE WINGROVE CROOK AND DONALD P. CROOK, A	808	309
Q078626002 Q078626003		5-8A-33 5-8A-33		808	305
Q078626002 Q078626003 Q078626004	FF		JANICE R. CROOK, A/K/A JANICE WINGROVE CROOK AND DONALD P. CROOK, A		



P.S. David L Jackson

51-07226



OPERATOR'S

WELL #: Michter N-9HU

DISTRICT: Franklin

COUNTY: Marshall

STATE: WV

API #:

WELL PLAT
PAGE 7 OF 10

DATE: 07/23/2019

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MICHTER LEASE WELL N-9HU 424.1534± ACRES

	Tag	Parcel	Granor, Lessor, Etc.	Deed Bo	ok/Pag
2078626012	FF	5-8A-33	JUSTIN SMITH, A/K/A JUSTINE SMITH, A WIDOW	819	307
078626013	FF	5-8A-33	ROBERT LEE SMITH AND BETSY K. SMITH, HUSBAND AND WIFE	819	303
078626017	FF	5-8A-33	SOUTHEASTERN GUIDE DOGS INC., TITUS HERMAN CEO	820	516
078626023	FF	5-8A-33	BRYCE E. ULBRICH AND EDNA M. ULBRICH, HUSBAND AND WIFE	825	298
078626025	FF	5-8A-33	COURTNEY D. HALL, SINGLE	829	147
078626026	FF	5-8A-33	BLASÉ JOSEPH ULCAK JR., A SINGLE MAN	829	127
078626036	FF	5-8A-33	MARTHA FRANCES ULCAK, A SINGLE WOMAN	832	588
095637000	GG	5-8A-34	NORMAN GALE JOHNSON AND WONETTA VIRGINIA JOHNSON ET AL	878	370
081033000					
	HH	5-8-3	TAMMY L MITCHELL ET VIR	816	176
092606000		5-8A-14	THE BOARD OF EDUCATION OF COUNTY OF MARSHALL	896	501
095637000	11	5-8A-28	NORMAN GALE JOHNSON AND WONETTA VIRGINIA JOHNSON ET AL	878	370
/A	KK	5-8A-29	ROBERT F. RYAN	N/A	N/A
093178000	KK	5-8A-29	CATHERINE P RINE	871	490
18331	ш	5-8A-30	RANDALL KEITH KEENER ET AL	775	131
/A	ш	5-8A-30	ROBERT F. RYAN	N/A	N/A
ENDING	мм	5-8A-32	JOHN E. BOPP AND JOYCE L. BOPP, HIS WIFE	711	298
0*25698	NN	5-8A-31	KENNETH AND DAWN E MORRIS	1033	129
0*25752	NN	5-8A-31	DEBRA ANN AND EARLY BUTCHER	1033	315
0*26438	NN	5-8A-31	JANICE AND DONALD CROOK	1034	583
0*26439	NN	5-8A-31	NANCY LOUISE SNYDER	1034	588
/A	NN	5-8A-31	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY	N/A	N/A
078626001	NN	5-8A-31	LUCILLE E. WINGROVE, A WIDOW	810	80
078626002	NN	5-8A-31	KENNETH R. MORRIS AND DAWN E. MORRIS, HUSBAND AND WIFE	808	303
078626003	NN	5-8A-31	JUNE MORRIS, A WIDOW	808	301
078626004	NN	5-8A-31	NANCY L SNYDER, A/K/A NANCY WINGROVE SNYDER, A WIDOW		309
STOCKUM4	MIN	J-0A-51	JANICE R. CROOK, A/K/A JANICE WINGROVE CROOK AND DONALD P. CROOK, A	808	309
078626005	NN	5-8A-31	WIFE AND HUSBAND	808	305
078626009	NN	5-8A-31	H. JAY UŁBRICH, A SINGLE MAN	819	309
ATTOCK OUT OF					
078626010	NN	5-8A-31	MARILYN ULBRICH CHALMERS AND ROD N. CHALMERS, WIFE AND HUSBAND	820	506
078626011	NN	5-8A-31	BLYE ULBRICH JENSCHKE AND JIM JENSCHKE, WIFE AND HUSBAND	819	305
078626012	NN	5-8A-31	JUSTIN SMITH, A/K/A JUSTINE SMITH, A WIDOW	819	307
078626013	NN	5-8A-31	ROBERT LEE SMITH AND BETSY K. SMITH, HUSBAND AND WIFE	819	303
078626017	NN	5-8A-31	Southeastern Guide Dogs Inc., Titus Herman CEO	820	516
2078626023	NN	5-8A-31	BRYCE E. ULBRICH AND EDNA M. ULBRICH, HUSBAND AND WIFE	825	298
078626025	NN	5-8A-31	COURTNEY D. HALL, SINGLE	829	147
078626026	NN				
		5-8A-31	BLASÉ JOSEPH ULCAK JR., A SINGLE MAN	82.9	127
078626036	NN	5-8A-31	MARTHA FRANCES ULCAK, A SINGLE WOMAN	832	588
67770	00	5-8A-27	CLARENCE S SIBURT AND MARY I SIBURT	715	195
05222	PP	5-8A-24	BONNIE LUNSFORD BELL FKA BONNIE LUNSFORD	765	226
082463000	QQ	5-8A-23	DANNY LEE DARRAH ET UX	827	160
0°26014	RR	5-8A-25	ROCKY W WILLS & KATHRYN R WILLS	724	206
0*24978	55	5-8A-22	WHITNEY B WOODS	1.028	628
088946000	П		LETHA I RUCKMAN		
	1	5-8A-13		765	219
083860000	UU	5-8A-12	MARY D RUCKMAN	765	224
2079184000	VV	5-8A-11	GLORIA JEAN WHITE AND MILTON CHRISTOPHER WHITE	808	392
2079184000	ww	5-8A-20	GLORIA JEAN WHITE, A WIDOW, AND MILTON CHRISTOPHER WHITE, A SINGLE	000	
	_		MAN	808	392
.0*25698	XX	5-8A-19 F/K/A 5-8A-18	KENNETH AND DAWN E MORRIS	1033	129
0°25752	XX	5-8A-19 F/K/A 5-8A-18	DEBRA ANN AND EARLY BUTCHER	1033	315
0*26438	XX	5-8A-19 F/K/A 5-8A-18	JANICE AND DONALD CROOK	1034	583
0*26439	XX	5-8A-19 F/K/A 5-8A-18	NANCY LOUISE SNYDER	1034	588
I/A	XX	5-8A-19 F/K/A 5-8A-18	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY		N/A
076644000	XX			N/A	1477
076644000	1	3-0M-13 F/ N/A 3-MA-111	JAMES B MIDCAP AND DIANA K MIDCAP	N/A	
	VV	5-8A-19 F/K/A 5-8A-10	JAMES B MIDCAP AND DIANA K MIDCAP	N/A 803	336
	XX	5-8A-19 F/K/A 5-8A-21	JAMES B MIDCAP AND DIANA K MIDCAP	N/A 803 803	336 336
2078626001	хх	5-8A-19 F/K/A 5-8A-21 5-8A-19 F/K/A 5-8A-18	JAMES B MIDCAP AND DIANA K MIDCAP LUCILLE E. WINGROVE, A WIDOW	N/A 803 803 810	336 336 80
2078626001 2078626002	хх	5-8A-19 F/K/A 5-8A-21 5-8A-19 F/K/A 5-8A-18 5-8A-19 F/K/A 5-8A-18	JAMES B MIDCAP AND DIANA K MIDCAP LUCILLE E. WINGROVE, A WIDOW KENNETH R. MORRIS AND DAWN E. MORRIS, HUSBAND AND WIFE	N/A 803 803	336 336
2078626001 2078626002 2078626003	хх	5-8A-19 F/K/A 5-8A-21 5-8A-19 F/K/A 5-8A-18	JAMES B MIDCAP AND DIANA K MIDCAP LUCILLE E. WINGROVE, A WIDOW	N/A 803 803 810	336 336 80
2078626001	хх	5-8A-19 F/K/A 5-8A-21 5-8A-19 F/K/A 5-8A-18 5-8A-19 F/K/A 5-8A-18	JAMES B MIDCAP AND DIANA K MIDCAP LUCILLE E. WINGROVE, A WIDOW KENNETH R. MORRIS AND DAWN E. MORRIS, HUSBAND AND WIFE JUNE MORRIS, A WIDOW NANCY L. SNYDER, A/K/A NANCY WINGROVE SNYDER, A WIDOW	N/A 803 803 810 808	336 336 80 308
0078626001 0078626002 0078626003 0078626004	XX XX XX XX	5-8A-19 F/K/A 5-8A-21 5-8A-19 F/K/A 5-8A-18 5-8A-19 F/K/A 5-8A-18 5-8A-19 F/K/A 5-8A-18 5-8A-19 F/K/A 5-8A-18	JAMES B MIDCAP AND DIANA K MIDCAP LUCILLE E. WINGROVE, A WIDOW KENNETH R. MORRIS AND DAWN E. MORRIS, HUSBAND AND WIFE JUNE MORRIS, A WIDOW NANCY L. SNYDER, A/K/A NANCY WINGROVE SNYDER, A WIDOW JANICE R. CROOK, A/K/A JANICE WINGROVE CROOK AND DONALD P. CROOK, A	N/A 803 803 810 808 808 808	336 336 80 303 301 309
0,078626001 0,078626002 0,078626003 0,078626004	xx xx	5-8A-19 F/K/A 5-8A-21 5-8A-19 F/K/A 5-8A-18 5-8A-19 F/K/A 5-8A-18 5-8A-19 F/K/A 5-8A-18	JAMES B MIDCAP AND DIANA K MIDCAP LUCILLE E. WINGROVE, A WIDOW KENNETH R. MORRIS AND DAWN E. MORRIS, HUSBAND AND WIFE JUNE MORRIS, A WIDOW NANCY L. SNYDER, A/K/A NANCY WINGROVE SNYDER, A WIDOW	N/A 803 803 810 808 808	336 336 80 303 301
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078626001 078626002 078626003 078626004 078626005 078626009	xx xx xx xx	5-8A-19F/K/A 5-8A-21 5-8A-19F/K/A 5-8A-18 5-8A-19F/K/A 5-8A-18 5-8A-19F/K/A 5-8A-18 5-8A-19F/K/A 5-8A-18	JAMES B MIDCAP AND DIANA K MIDCAP LUCILLE E. WINGROVE, A WIDOW KENNETH R. MORRIS AND DAWN E. MORRIS, HUSBAND AND WIFE JUNE MORRIS, A WIDOW NANCY L. SNYDER, A/K/A NANCY WINGROVE SNYDER, A WIDOW JANICE R. CROOK, A/K/A JANICE WINGROVE CROOK AND DONALD P. CROOK, A WIFE AND HUSBAND	N/A 803 803 810 808 808 808	336 336 80 302 301 305 305
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2078626001 2078626002 2078626003 2078626004 2078626005 2078626009 2078626010 2078626011	XX XX XX XX XX	5-8A-19 F/K/A 5-8A-21 5-8A-19 F/K/A 5-8A-18 5-8A-19 F/K/A 5-8A-18	JAMES B MIDCAP AND DIANA K MIDCAP LUCILLE E. WINGROVE, A WIDOW KENNETH R. MORRIS AND DAWN E. MORRIS, HUSBAND AND WIFE JUNE MORRIS, A WIDOW NANCY L. SNYDER, A/K/A NANCY WINGROVE SNYDER, A WIDOW JANICE R. CROOK, A/K/A JANICE WINGROVE CROOK AND DONALD P. CROOK, A WIFE AND HUSBAND H. JAY ULBRICH, A SINGLE MAN MARILYN ULBRICH CHALMERS AND ROD N. CHALMERS, WIFE AND HUSBAND BLYE ULBRICH JENSCHKE AND JIM JENSCHKE, WIFE AND HUSBAND	N/A 803 803 810 808 808 808 808 819 820	336 336 80 301 301 305 305 305 305 305
2078626001 2078626002 2078626003 2078626004 2078626005 2078626009 2078626010 2078626011 2078626011	XX	5-8A-19 F/K/A 5-8A-21 5-8A-19 F/K/A 5-8A-18 5-8A-19 F/K/A 5-8A-18	JAMES B MIDCAP AND DIANA K MIDCAP LUCILLE E. WINGROVE, A WIDOW KENNETH R. MORRIS AND DAWN E. MORRIS, HUSBAND AND WIFE JUNE MORRIS, A WIDOW NANCY L. SNYDER, A/K/A NANCY WINGROVE SNYDER, A WIDOW JANICE R. CROOK, A/K/A JANICE WINGROVE CROOK AND DONALD P. CROOK, A WIFE AND HUSBAND H. JAY UIBRICH, A SINGLE MAN MARILYN UIBRICH CHALMERS AND ROD N. CHALMERS, WIFE AND HUSBAND BLYE UIBRICH JENSCHKE AND JIM JENSCHKE, WIFE AND HUSBAND JUSTIN SMITH, A/K/A JUSTINE SMITH, A WIDOW	N/A 803 803 810 808 808 808 808 819 820 819	336 80 309 301 305 305 305 305 305 305 305 305 305 305
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2078626001 2078626002 2078626003 2078626004 2078626004 2078626005 2078626010 2078626010 2078626011 2078626012 2078626013 2078626014 2078626015 2078626019 2078626019 2078626019 2078626021 2078626021 2078626021 2078626021 2078626021 2078626021 2078626021 2078626021 2078626021 2078626021 2078626021 2078626021 2078626021 2078626021 2078626021 2078626021 2078626021 2078626021	XX	5-8A-19 F/K/A 5-8A-21 5-8A-19 F/K/A 5-8A-18	JAMES B MIDCAP AND DIANA K MIDCAP LUCILLE E. WINGROVE, A WIDOW KENNETH R. MORRIS AND DAWN E. MORRIS, HUSBAND AND WIFE JUNE MORRIS, A WIDOW NANCY L. SNYDER, A/K/A NANCY WINGROVE SNYDER, A WIDOW JANICE R. CROOK, A/K/A JANICE WINGROVE CROOK AND DONALD P. CROOK, A WIFE AND HUSBAND H. JAY ULBRICH, A SINGLE MAN MARILYN LUBRICH, CHALMERS AND ROD N. CHALMERS, WIFE AND HUSBAND BLYE ULBRICH JENSCHKE AND JIM JENSCHKE, WIFE AND HUSBAND JUSTIN SMITH, A/K/A JUSTINE SMITH, A WIDOW ROBERT LEE SMITH AND BETSY K. SMITH, HUSBAND AND WIFE PARRY LEES SMITH AND BETSY K. SMITH, HUSBAND AND WIFE DEBORAH D. MERCER AND CALVIN P. MERCER, WIFE AND HUSBAND BRIAN EDWIN LEMASTERS AND BEVERLY J. LEMASTERS, HUSBAND AND WIFE SOUTHEASTERN GUIDE DOGS INC., TITUS HERMAN CEO KIMBERLY D. LAKE, A SINGLE WOMAN FRANCIS O. HALLA/K/A ORNETTA PARRIOTT, WIDOW TRUDY B. SAMPSON AND DANNY SAMPSON, WIFE AND HUSBAND MARY L. PARRIOTT, A WIDOW COURTNEY D. HALL, SINGLE BLASÉ JOSEPH ULCAK JR., A SINGLE MAN BETTY JANE PARRIOTT, WIDOW PATRICA PARRIOTT, WIDOW	N/A 803 803 810 808 808 808 808 819 820 819 820 821 821 822 825 825 825 825 827 827 829 828	33333333333333333333333333333333333333
2,078626001 2,078626002 2,078626003 2,078626004 2,078626005 2,078626009 2,078626010	XX	5-8A-19 F/K/A 5-8A-21 5-8A-19 F/K/A 5-8A-18	JAMES B MIDCAP AND DIANA K MIDCAP LUCILLE E. WINGROVE, A WIDOW KENNETH R. MORRIS AND DAWN E. MORRIS, HUSBAND AND WIFE JUNE MORRIS, A WIDOW NANCY L. SNYDER, A/K/A NANCY WINGROVE SNYDER, A WIDOW JANICE R. CROOK, A/K/A JANICE WINGROVE CROOK AND DONALD P. CROOK, A WIFE AND HUSBAND H. JAY UUBRICH, A SINGLE MAN MARILYN UUBRICH, A SINGLE MAN MARILYN UUBRICH, CHALMERS AND ROD N. CHALMERS, WIFE AND HUSBAND BLYE UUBRICH JENSCHKE AND JIM JENSCHKE, WIFE AND HUSBAND JUSTIN SMITH, A/K/A JUSTINE SMITH, A WIDOW ROBERT LEE SMITH AND DETSY K. SMITH, HUSBAND AND WIFE DEBORAH D. MERCER AND CALVIN P. MERCER, WIFE AND HUSBAND BRIAN EDWIN LEMASTERS AND BEVERLY J. LEMASTERS, HUSBAND AND WIFE SOUTHEASTERN GUIDE DOGS INC., TITUS HERMAN CEO KIMBERLY D. LAKE, A SINGLE WOMAN FRANCIS O. HALLA/K/A ORNETTA PARRIOTT, WIDOW TRUDY B. SAMPSON AND DANNY SAMPSON, WIFE AND HUSBAND MARY L. PARRIOTT, A WIDOW TIMOTHY SCOTT LEMASTERS AND AMY C. LEMASTERS, HUSBAND AND WIFE BRYCE F. UIBRICH AND EDNA M. ULBRICH, HUSBAND AND WIFE COURTNEYD. HALL, SINGLE BLASÉ JOSEPH ULCAK IR., A SINGLE MAN BETTY JANE PARRIOTT, WIDOW PATRICIA PARRIOTT, WIDOW JAMES B. MIDAP AND DIANA K. MIDCAP, HUSBAND AND WIFE	N/A 803 803 810 808 808 808 808 819 820 819 821 821 821 822 825 825 825 827 827 829 828 828 839	33333333333333333333333333333333333333



P.S. David L Jackson

21-02930



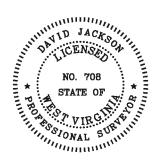
OPERATOR'S	
WELL#:	Michter N-9HU
DISTRICT:	Franklin
COUNTY:	Marshall
STATE: WV	
API #:	

WELL PLAT
PAGE 8 OF 10

DATE: 07/23/2019

MICHTER LEASE WELL N-9HU 424.1534± ACRES

Lease ID	Tag	Parcel	Granor, Lessor, Etc.	Deed Bo	
.0*25752	YY	5-8A-17	DEBRA ANN AND EARL V BUTCHER	1033	315
0*26438	YY	5-8A-17	JANICE AND DONALD CROOK	1034	583
0*26439	YY	5-8A-17	NANCY LOUISE SNYDER	1034	588
I/A	YY	5-8A-17 5-8A-17	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY	N/A	N/A
078626001	YY		LUCILLE E, WINGROVE, A WIDOW	810	80
0078626002	YY	5-8A-17	KENNETH R. MORRIS AND DAWN E. MORRIS, HUSBAND AND WIFE	808	303
078626003	YY	5-8A-17	JUNE MORRIS, A WIDOW	808	301
078626004	1 44	5-8A-17	NANCY L SNYDER, A/K/A NANCY WINGROVE SNYDER, A WIDOW JANICE R. CROOK, A/K/A JANICE WINGROVE CROOK AND DONALD P. CROOK, A	808	309
1078626005	YY	5-8A-17	WIFE AND HUSBAND	808	305
078626009	YY	5-8A-17	H. JAY ULBRICH, A SINGLE MAN	819	309
2078626010	YY	5-8A-17	MARILYN ULBRICH CHALMERS AND ROD N. CHALMERS, WIFE AND HUSBAND	820	506
078626011	YY	5-8A-17	BLYE ULBRICH JENSCHKE AND JIM JENSCHKE, WIFE AND HUSBAND	819	305
078626012	YY	5-8A-17	JUSTIN SMITH, A/K/A JUSTINE SMITH, A WIDOW	819	307
078626013	YY	5-8A-17	ROBERT LEE SMITH AND BETSY K. SMITH, HUSBAND AND WIFE	819	303
2078626014	YY	5-8A-17	HARRY LEROY PARRIOTT AND NANCY S. PARRIOTT, HUSBAND AND WIFE	820	508
2078626015	YY	5-8A-17	DEBORAH D. MERCER AND CALVIN P. MERCER, WIFE AND HUSBAND	821	22
2078626016	YY	5-8A-17	BRIAN EDWIN LEMASTERS AND BEVERLY J. LEMASTERS, HUSBAND AND WIFE	821	24
078626017	YY	5-8A-17	SOUTHEASTERN GUIDE DOGS INC., TITUS HERMAN CEO	820	516
078626018	YY	5-8A-17	KIMBERLY D LAKE	825	272
078626019	YY	5-8A-17	FRANCIS O. HALLA/K/A ORNETTA PARRIOTT, WIDOW	825	2.58
078626020	YY	5-8A-17	TRUDY B. SAMPSON AND DANNY SAMPSON, WIFE AND HUSBAND	825	260
078626021	YY	5-8A-17	MARY L. PARRIOTT, A WIDOW	827	16/
078626022	YY	5-8A-17	TIMOTHY SCOTT LEMASTERS AND AMY C. LEMASTERS, HUSBAND AND WIFE	827	162
078626023	YY	5-8A-17	BRYCE E. ULBRICH AND EDNA M. ULBRICH, HUSBAND AND WIFE	825	298
078626025	YY	5-8A-17	COURTNEY D. HALL, SINGLE	829	14
078626026	YY	5-8A-17	BLASÉ JOSEPHULCAK JR., A SINGLE MAN	829	12
078626027	YY	5-8A-17	BETTY JANE PARRIOTT, WIDOW	828	26
0.078626028	YY	5-8A-17	PATRICIA PARRIOTT, A WIDOW	828	27
078626036	YY	5-8A-17	MARTHA FRANCES ULCAK, A SINGLE WOMAN	832	58
078626037	YY	5-8A-17	Debra Ann Butcher and Earl V. Butcher, wife and husband	839	21
2076869000	ZZ	5-8A-26	EDWARD DAVID KNUTH AND KATHY JO KNUTH	803	59
I/A	AAA	5-8A-16	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY	N/A	N/A
2077358001	AAA	5-8A-16	JON DAVID FROMHART, SINGLE	805	58
2077358002	AAA	5-8A-16	JUNE MORRIS, WIDOW	829	26
2078626002	AAA	5-8A-16	KENNETH R. MORRIS AND DAWN E. MORRIS, HUSBAND AND WIFE	808	30
2078626004	AAA	5-8A-16	NANCY L SNYDER, A/K/A NANCY WINGROVE SNYDER, A WIDOW	808	305
gar bacoso r	7501	3 04 20	JANICE R. CROOK, A/K/A JANICE WINGROVE CROOK AND DONALD P. CROOK, A	606	30
2078626005	AAA	5-8A-16	WIFE AND HUSBAND	808	30
2078626009	AAA	5-8A-16	H. JAY ULBRICH, A SINGLE MAN	819	30
2078626010	AAA	5-8A-16	MARILYN ULBRICH CHALMERS AND ROD N. CHALMERS, WIFE AND HUSBAND	820	50
2078626011	AAA	5-8A-16	BLYE UIBRICH JENSCHKE AND JIM JENSCHKE, WIFE AND HUSBAND	819	30
2078626012	AAA	5-8A-16	JUSTIN SMITH, A/K/A JUSTINE SMITH, A WIDOW	819	30.
2078626013	AAA	5-8A-16	ROBERT LEE SMITH AND BETSY K. SMITH, HUSBAND AND WIFE	819	303
2078626014	AAA	5-8A-16	HARRY LEROY PARRIOTT AND NANCY S. PARRIOTT, HUSBAND AND WIFE	820	500
2078626015	AAA	5-8A-16	DEBORAH D. MERCER AND CALVIN P. MERCER, WIFE AND HUSBAND	821	22
2078626016	AAA	5-8A-16	BRIAN EDWIN LEMASTERS AND BEVERLY J. LEMASTERS, HUSBAND AND WIFE	821	24
2078626017	AAA	5-8A-16	SOUTHEASTERN GUIDE DOGS INC., TITUS HERMAN CEO	820	510
2078626018	AAA	5-8A-16	KIMBERLY D LAKE	825	27.
2078626019	AAA	5-8A-16	FRANCIS O. HALLA/K/A ORNETTA PARRIOTT, WIDOW	825	25
2078626020	AAA	5-8A-16	TRUDY B. SAMPSON AND DANNY SAMPSON, WIFE AND HUSBAND	825	26
2078626021	AAA	5-8A-16	MARY L. PARRIOTT, A WIDOW	827	16
2078626022	AAA	5-8A-16	TIMOTHY SCOTT LEMASTERS AND AMY C. LEMASTERS, HUSBAND AND WIFE	827	16
2078626023	AAA	5-8A-16	BRYCE E. ULBRICH AND EDNA M. ULBRICH, HUSBAND AND WIFE	825	29
2078626025	AAA	5-8A-16	COURTNEY D. HALL, SINGLE	829	14
078626026	AAA	5-8A-16	BLASÉ JOSEPHULCAK JR., A SINGLE MAN	829	12
2078626027	AAA	5-8A-16	BETTY JANE PARRIOTT, WIDOW	828	26
2078626028	AAA	5-8A-16	PATRICIA PARRIOTT, A WIDOW	828	27
2078626036	AAA	5-8A-16	MARTHA FRANCES ULCAK, A SINGLE WOMAN	832	58
I/A	BBB	5-8A-15	SHRINERS HOSPITALS FOR CHILDREN	N/A	N/
2076469000	BBB	5-8A-15	JUNE MORRIS	802	27
2076636002	YYY	5-7-5.1	BRUCE SCOTT SCHMITT' & JERRI MARIE BLANEY	813	24
2076636003	YYY	5-7-5.1	ALAN GREGORY SCHMITT & UNDA LEE SCHMITT	813	53
2076636004	YYY	5-7-5.1	CYNTHIA JEAN WARD & DALE P. WARD	816	26
2076636005	YYY	5-7-5.1	SAMUELO, COEN JR.	816	25
2076636006	YYY	5-7-5.1	MARK ALAN DEIBRUGGE & PATRICIA A. DEIBRUGGE	820	51
2076636007	YYY	5-7-5.1	WALTER L. DELBRUGGE JR & NORA L. DELBRUGGE	820	51
2076636008	YYY	5-7-5.1	WILLIAM D. MARTIN & ANDREA R. MARTIN	819	29
2076636009	YYY	5-7-5.1	KIMBERLY ANN DELBRUGGE DECREASE & VINCENT J. DECREASE	825	34
2076636010	YYY	5-7-5.1	SUZANNE Q, PAVLIC AKA SUZANNE DELBRUGGE PAVLIC	82.5	26
076636011	YYY	5-7-5.1	MARGARET LYNN DELBRUGGE WATSON & JAMES W. WATSON	825	26
			JANE LOU WILLIAMS AKA JANE LOU DELBRUGGE WILLIAMS & LAURENCE P.		-20
2076636012	YYY	5-7-5.1	WILLIAMS	825	28
2076636013	YYY	5-7-5.1	BEATRICE J. SCHMITT	828	29
2078626009	888	5-8A-15	H. JAY UŁBRICH, A SINGLE MAN	819	30
2078626010	BBB	5-8A-15	MARILYN ULBRICH CHALMERS AND ROD N CHAMBERS	820	50
2078626011	BBB	5-8A-15	BLYE ULBRICH JENSCHKE AND JIM JENSCHKE	819	30
2078626012	BBB	5-8A-15	JUSTIN SMITH	819	30
2078626013	BBB	5-8A-15	ROBERT LEE SMITH AND BETSY K SMITH	819	30
2078626014	BBB	5-8A-15	HARRY LERGY PARRIOTT AND NANCY'S PARRIOTT	820	50
2078626015	BBB	5-8A-15	DEBORAH D MERCER AND CLAVIN P MERCER	821	22
	BBB	5-8A-15	BRIAN EDWIN LEMASTERS ET LIX		24
Q078626016	BBB	5-8A-15 5-8A-15		821 825	



P.S. David L Jackson

51-02200



OPERATOR'S

WELL #: Michter N-9HU

DISTRICT: Franklin

COUNTY: Marshall

STATE: WV

API#:_

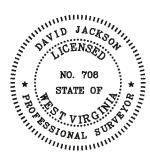
WELL PLAT
PAGE 9 OF 10

DATE: 07/23/2019

REVISED DATE: 08/08/2019

MICHTER LEASE WELL N-9HU 424.1534± ACRES

Lease ID	Tag	Parcel	Granor, Lessor, Etc.	Deed Bo	ok/Page
Q078626020	BBB	S-8A-15	TRUDY B SAMPSON ET VIR	825	260
Q078626021	BBB	5-8A-15	MARY L PARRIOTT	827	164
Q078626022	BBB	5-8A-15	TIMOTHY SCOTT LEMASTERS AND AMY C LEMASTERS	827	162
Q078626023	BBB	5-8A-15	BRYCE E ULBRICH AND EDNA M ULBRICH	825	298
2078626025	888	5-8A-15	COURTNEY D. HALL, SINGLE	829	147
2078626026	BBB	5-8A-15	BŁASE JOSEPH ULCAK JR	829	127
2078626027	BBB	5-8A-15	BETTY JANE PARRIOTT, WIDOW	828	265
Q078626028	BBB	5-8A-15	PATRICIA PARRIOTT	828	270
Q078626029	BBB	5-8A-15	SOUTHEASTERN GUIDE DOGS INC	828	305
2078626030	BBB	5-8A-15	FRANCES O HALLAKA ORNETTA PARRIOTT	839	133
0.078626032	BBB	5-8A-15	KENNETH MORRIS AND DAWN E MORRIS	829	43
2078626033	BBB	5-8A-15	LUCILLE E WINGROVE	829	45
2078626034	BBB	5-8A-15	JANICE R CROOK AKA JANICE WINGROVE CROOK AND DONALD P CROOK	831	60
078626035	BBB	5-8A-15	NANCY L SNYDER AKA NANCY WINGROVE SNYDER	831	56
2078626036	888	5-8A-15	MARTHA FRANCES ULCAK	832	588
2078626037	BBB	5-8A-15	DEBRA ANN BUTCHER AND EARLY BUTCHER		
2078020037	YYY			839	215
2075542000		5-7-5.1	GEORGE A. KNUTH	819	298
2076643000	CCC	5-8A-8	JOHN JOSEPH GOUDY KEVIN W. WALLANCE, A MARRIED MAN DEALING IN HIS SOLE AND SEPARATE	803	341
2083716000	DDD	5-8A-9	PROPERTY	836	463
2076644000	EEE	5-8A-55	JAMES B MIDCAP AND DIANA K MIDCAP	803	336
PENDING	FFF	5-8-2	CNX GAS COMPANY LLC		
2083704000			ANNE C KLEM	1039	1 1 250
	GGG	5-8A-7	111111111111111111111111111111111111111	719	352
2083677000	HHH	5-8A-5	JOHN K PERSINGER AND DEBRA K PERSINGER	711	300
083689000	111	5-8A-6	CLAYTON LEE PERSINGER AND LETTIE LEE PERSINGER	714	97
2083689000	131	5-8A-4	Clayton Lee Persinger and Lettie Lee Persinger	842	363
2079730000	KKK	5-8A-3	GRAYSVILLE CALVARY UNITED METHODIST CHURCH	811	646
2079727000	ш	5-8A-2	GRAYSVILLE CALVARY UNITED METHODIST CHURCH	811	646
2079727000	MNM	5-8A-1	GRAYSVILLE CALVARY UNITED METHODIST CHURCH	811	642
524124	NNN	5-7-15	KIRKMAN, CASPER SANFORD; KIRKMAN, LILLIAN E	311	390
524133	000	5-7-15.1	ELLIOTT, FRANK & MARTHA	311	467
524134	PPP	5-7-13	KATHRYN VENNON ET AL	311	467
2075462000	000	5-7-12	EDWIN C. MILLER & KIMBERLY ANN MILLER	797	646
PENDING	RRR	5-7-11	MELVIN E DINGER & LENA M DINGER		
24123	SSS			712	558
		5-7-10.1	WILKINSON, RAYMOND M & ELSIE M	311	379
524123	ш	5-7-10	WILKINSON, RAYMOND M & ELSIE M	311	379
2097218000	UUU	5-7-14	LACY MIDCAP ET AL	311	324
2097218000	VVV	5-7-14.1	LACY MIDCAP ET AL	311	324
2097218000	www	5-7-14.3	LACY MIDCAP ET AL	311	324
2097218000	XXX	5-7-14.2	LACY MIDCAP ET AL	311	324
2090257000	7.27	5-7-5	KNUTH, GEORGE A & KELLY A	671	385
524083	AAAA	5-7-4	GATTS, LLOYD Q & MARY WOLFE	290	94
2076636004	вввв	5-7-6	CYNTHIA JEAN WARD & DALE P. WARD	816	261
2076636006	вввв	5-7-6	MARK ALAN DELBRUGGE & PATRICIA A, DELBRUGGE	820	512
2076636007	BBBB	5-7-6	WALTER L. DELBRUGGE JR & NORA L. DELBRUGGE	820	510
0.076636008	8888	5-7-6	WILLIAM D. MARTIN & ANDREA R. MARTIN	819	298
2076636009	BBBB	5-7-6	KIMBERLY ANN DELBRUGGE DECREASE & VINCENT J. DECREASE		349
2076636010	BBBB	5-7-6		825	
			SUZANNE Q. PAVLIC AKA SUZANNE DELBRUGGE PAVLIC	825	262
2076636011	BBBB	5-7-6	MARGARET LYNN DELBRUGGE WATSON & JAMES W. WATSON JANE LOU WILLIAMS AKA JANE LOU DELBRUGGE WILLIAMS & LAURENCE P.	825	264
2076636012	вввв	5-7-6	WILLIAMS	825	289
Q076636013	вввв	5-7-6	BEATRICE J. SCHMITT	828	292
0076636014	BBBB	5-7-6	BRUCE SCOTT SCHMITT & JERRI MARIE BLANEY	806	335
2076636015	BBBB	5-7-6	ALAN GREGORY SCHMITT & LINDA LEE SCHMITT		
	BBBB			808	315
0,076636016	-	5-7-6	SAMUELO, COEN JR.	813	255
0090257000	BBBB	5-7-6	KNUTH, GEORGE A & KELLY A	671	385
524081	cccc	5-6-4	COX, HANNAHO & J FRANK	290	110
524074	0000	5-6-3.1	GATTS, ALICE	282	394
524080	DDDD	5-6-3.1	GATTS, ELIZABETH RJ & HARLEY	290	97
2074011003	DDDD	5-6-3.1	JOSEPH MOORE NEAL	859	512
2074011005	DDDD	5-6-3.1	ANN ALEXANDER	853	310
2074011006	podo	5-6-3.1	FRANCES GALE NEAL	851	218
2074011007	DDDD	5-6-3.1	SUSAN WITTEN NEAL MYERS ET AL	815	375
2074011008	DDDD	5-6-3.1	JANE WITTEN VOTH	853	306
2074011013	DDDD	5-6-3.1	MARY WITTEN NEALWISEMAN	851	216
524074	EEEE	5-6-3	GATTS, ALICE	282	394
524080	EEEE	5-6-3	GATTS, ELIZABETH RJ & HARLEY	290	97
524083	EEEE	5-6-3	GATTS, LLOYD Q & MARY WOLFE		
				290	94
524150	EEEE	5-6-3	RINE, GW & BESSIE1	313	200
2074011002	EEEE	5-6-3	DOROTHY ANN NEAL	851	396
2074011003	EEEE	5-6-3	JOSEPH MOORE NEAL	859	512
2074011004	EEEE	5-6-3	MARGERY J. WITTEN	851	398
2074011005	EEEE	5-6-3	ANN ALEXANDER	853	310
2074011006	EEEE	5-6-3	FRANCES GALE NEAL	851	2.18
0,074011007	EEEE	5-6-3	SUSAN WITTEN NEAL MYERS ET AL	815	375
2074011008	EEEE	5-6-3	JANE WITTEN VOTH	853	306
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P.S. David L Jackson

51-02220



OPERATOR'S

WELL #: Michter N-9HU
DISTRICT: Franklin

COUNTY: <u>Marshall</u>

STATE: WV

API#:_

PAGE 10 OF 10

WELL PLAT

DATE: 07/23/2019

REVISED DATE: 08/08/2019

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				
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page

*See attached pages

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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:
By:
Its:

Tug Hill Operating, LLC

Amy L. Miller Unit Lucular

Permitting Specialist - Appalachia Region

Page 1 of _____

WV Department of Environmental Protection

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NOBLE ENERGY INC	TH EXPLORATION ILC	CHESAPEAKE APPALACHIA LLC	TRIENERGY HOLDINGS, LLC	NOBLE ENERGY INC	CHESAPEAKE APPALACHIA LLC	CHESAPEAKE APPALACHIA LLC	TH EXPLORATION LLC	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	NOBLE ENERGY INC	Grantee, Lessee, Etc. TH EXPLORATION LLC
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596	602	310	584	316	599	596	602	310	354	584
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890	8990	88	890	890	890	890	890	898	890	890
602	310	584	316	599	596	602	310	584	316	599
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AB RESOURCES LLC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC					
1. /88+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+
n 00 01	898	890	890	8900	890	890	89 89	890	890	890
52 009 009	5 84	316	599	596	602	310	584	316	599	ਯ 9 6
Z /	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	A/N	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
AB Resources & NPAR LLC to Chief Exploration & Development LLC & Radler 2000 LP:	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chief Exploration & Development LLC, Chief Development LLC, Chief O&G LLC, Radler 2000 & Enerplus Resources USA Corp to Chevron USA Inc. 35/105	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 LLC: 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 LLC: 36/409	Nobie Energy inc to CNX Gas Company LLC: 36/409	Nobie Energy Inc to CNX Gas Company LLC: 36/409	Nobie Energy Inc to CNX Gas Company LLC: 36/409	Noble Energy Inc to CNX Gas Company LLC: 36/409
AB Resources LLC Chevron USA inc. 756/397	CNX Gas Compan LLC to Noble Ene	CNX Gas Compar LLC to Noble Ene	CNX Gas Compar LLC to Noble Ene	CNX Gas Compar LLC to Noble Ene	CNX Gas Company Noble Energy LLC to Noble Energy HG Energy II Inc: 37/169 Appalachia U	CNX Gas Compar LLC to Noble Ene	CNX Gas Compar LLC to Noble Enc	CNX Gas Company LLC to Noble Energy	CNX Gas Compa LLC to Noble End	CNX Gas Compa LLC to Noble En
AB Resources LLC to Chevron USA Inc to Chevron USA Inc. TH Exploration LLC: 756/397 40/127	CNX Gas Company Noble Energy Inc to LLC to Noble Energy HG Energy II nc: 37/169 Appalachia LLC: 39/1	ONX Gas Company Noble Energy Inc to LLC to Noble Energy HG Energy II Rct. 37/169 Appalachia LLC. 39/1.	CNX Gas Company Noble Energy Inc to LLC to Noble Energy HG Energy II nc: 37/169 Appalachia LLC: 39/1	CNX Gas Company Noble Energy Inc to LLC to Noble Energy HG Energy II nc: 37/159 Appalachia LLC: 39/1	ry Noble Energy Inc to Fig. HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to CNX Gas Company Noble Energy Inc to CNX Gas Company LLC: LLC to Noble Energy II G Energy II GC: 39/1.69 Appalachis LLC: 39/1.	CNX Gas Company Noble Energy Inc to LLC to Noble Energy HG Energy II nc: 37/169 Appalachia LLC: 39/1	CNX Gas Company Noble Energy Inc to LLC to Noble Energy HG Energy II nc: 37/169 Appalachia LLC: 39/1	CNX Gas Company Noble Energy Inc to LLC to Noble Energy HG Energy II Appalachia LLC: 39/1.	Noble Energy Inc to CNX Gas Company Noble Energy inc to CNX Gas Company LLC: LLC to Noble Energy II Mcc: 37/169 Appainchia LLC: 39/1
TH Exploration LLC to HG Energy II Appalachia LLC:	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG EnergyII 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	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
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/786	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 Expioration 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

O097976004	0.097976004	0.097975001	0.097975001	10*26619	PENDING PENDING	104101000	OOGBBBBBD	0,097976007	Q097976006	Q097976005	0.097976004	Q097976001
5-84-48	5-8A-48	5-8A-48	5-88-48	5-8A-48	5-8A-48	E 00 40	5-80-47	5-8A-47	5-8A-47	5-8A-47	5-8A-47	5-8A-47
<	<	<	<	٧	< <	< 0		С	С	C	С	C
Lorna Marie Lew	Corna Marie Lew	Sara B. Anderson and Arthur A. Anderson, wife and husband	Sara B. Anderson and Arthur A. Anderson, wife and husband	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY	COURTNEY D. HALL, SINGLE	COLUMN SOCIETA CHIEF DOGS INC	THOMAS DANIE! RIUE AND LOSSPHINE M BUJE (HG Engrav. 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
Noble Energy, Inc.	Noble Energy, Inc.	Noble Energy, Inc.	Noble Energy, Inc.		TH EXPLORATION LLC			NOBLE ENERGY INC				
1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/0.	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+
890-600	890-602	890-310	890-310	PENDING	1046	1041	89 98	890	890	890	890	890
502	602	310	310	PENDING	465	157	51 84	316	599	596	502	310
Z >	N/A	N/A	N/A	N/A	10/20	N/o	Z >	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
z A	N/A	N/A	N/A	N/A	Ц	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nobie Energy inc to CNX Gas Company L ¹ 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 LLC: 36/409	N/A		N/A	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 LLC: 36/409	Noble Energy Inc to CNX Gas Company LLC:	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 Noble Energy Inc to CNX Gas Company LC. LLC to Noble Energy HG Energy inc to Inc. 37/189 Applaina LC. 38/1	CNX Gas Company LLC to Noble Energy Inc: 37/169	CNX Gas Company LLC to Noble Energy Inc: 37/169	CNX Gas Company LLC to Noble Energy Inc: 37/189	N/A	TO THE STATE OF TH		CNX Gas Company LLC to Noble Energy Inc: 37/169	CNX Gas Company LLC to Noble Energy Inc: 37/169	CNX Gas Company LLC to Noble Energy Inc: 37/169	CNX Gas Company LLC to Noble Energy	CNX Gas Company LLC to Nobie Energi	CNX Gas Company LLC to Noble Energy Inc: 37/169
Noble E Noble Energy Inc to HG Ene HG Energy II Appalac Appalachia LLC: 39/1 34/392	Noble Energy Inc to HG Energy II Appelachia LLC: 39/1	Nobie Energy inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	2/2		N/A	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 IG Energy II	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1
nergy Inc to rgy II thia LLC: Mi	Noble Energy Inc to HG Energy II Appallachia ILC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Nobie Energy Inc to HG Energy II Appaiachia LLC: MB 34/392	N/A	N/A	Ì	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/352	Nobie 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
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	и	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/Z86	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

N/A	N/A	Appalachia, LLC: 988/286 N/A N/A	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II	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 III Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LC 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	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
N N S	N/A	Appalachia LLC: MB 34/392 N/A	Noble Energy Inc to HG Energy II	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 34/352	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	N/A	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
N/A	N/A	HGEnergy II Appalachia LLC: 39/1 N/A	Nobie Energy inc to	/ Inc to	CNX Gas Company Noble Energy Inc to LLC to Noble Energy HE ENERGY	/Inc to	Noble Energy Inc to HG Energy II Appalachia LiC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	V/A	Voble Energy Inc to 1G Energy II	Noble Energy Inc to HG Energy II	CIX Gas Company Noble Energy Inc to LLC to Noble Energy HG Energy II Inc: 37/169 Appalachia LLC: 39/1
N/A	N/A		CNX Gas Company	CNX Gas Company Noble Energy: LLC to Noble Energy HG Energy: Inc.: 37/169 Appalachia L		CNX Gas Company LLC to Noble Energy	CNX Gas Company LLC to Noble Energy Inc: 37/169	CNX Gas Company Noble Energy :: LLC to Noble Energy HG Energy II Appalachia U	N/A	CNX Gas Company LLC to Noble Energy	CNX Gas Company LLC to Noble Energy Inc: 37/159	CNX Gas Company : LLC to Noble Energy inc: 37/169
N/A	N/A	CNX Gas Company LLC: 35/409 N/A	Noble Energy Inc to	Nobie 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 Noble Energy GCNX Gas Company LLC: LLC to Noble Energy III GEnergy III GENERGY III Inc.: 37/169 Appalachia LI	Noble Energy Inc to CNX Gas Company LLC: 36/409	Noble Energy Inc to CNX Gas Company LLC: 36/409	N/A	Noble Energy Inc to CNX Gas Company LLC: 1	Noble Energy inc to CNX Gas Company LLC: 35/409	Noble Energy Inc to CNX Gas Company LLC: 36/409
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
154	156	584		316	599	596	502	310	12	316	599	596
Н		1/8+ 898 1/8+ PENDING		1/8+ 890	1/8+ 890	1/8+ 890	1/8+ 890	1/8+ 890	1/8+ 1053	1/8+ 890-316	1/8+ 890-599	1/8+ 890-596
	-											
TH EXPLORATION LLC	TH EXPLORATION	NOBLE ENERGY INC THE EXPLORATION LLC		NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	TH EXPLORATION LLC	Noble Energy, Inc.	Noble Energy, Inc.	Noble Energy, Inc.
BLYE ULBRICH AND JAMES JENSHKE	DAWN E MORRIS	THOMAS DANIEL BLUE AND JOSEPHINE M BLUE (HG Energy - FEE) BRIAN EDWIN LEMASTERS AND BEVERLY J LEMASTERS		N BUJEN	VICTORIA A PAKROVSKY AND STEPHEN W PAKROVSKY	MARJORIE B KIDD AND ROBERT C KIDD	(Man	SARA B ANDERSON AND ARTHUR A ANDERSON	ROBERT M. WHITE AND DIANE WHITE	Alama N	VICTORIA A PAKROVSKY AND STEPHEN W PAKROVSKY	MARJORIE B KIDD AND ROBERT C KIDD
		W THOMAS DAN X BRIAN EDWIN		W CHARLES EDWIN BILLE IV	W VICTORIA A PJ	W MARJORIE B K	W LORNA MARIE LEW	W SARA B ANDE	W ROBERT M. W		VICTORIA A P.	V MARJORIE B #
5-8A-44	5-8A-44	5-8A-42 5-8A-44		5-8A-42	5-8A-42	5-8A-42	5-8A-42	S-8A-42	5-8A-42	5-84-48	5-8A-48	5-8A-48
724	773	Q099899000 10*25351		099976007	0.99976006	0097976005	0097976004	099976001	10*27249	776007	099976006	Q097976005

N/A	N/A	N/A	N/A	N/A	N/A		N/A		PENDING N/A	PENDING	1/8+	TH EXPLORATION LLC	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY	~	5-8A-43	10*26619
N/A	N/A	П		N/A	N/A	N/A	N/A	N/A		1041	L	TH EXPLORATION LLC	SOUTHEASTERN GUIDE DOGS INC	4	5-8A-43	10*26704
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	588	1034	1/8+	TH EXPLORATION LLC	NANCY LOUISE SNYDER	Υ	5-8A-43	10*264.39
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	JANICE AND DONALD CROOK	۲	5-8A-43	10*264-8
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	148	1035	L	TH EXPLORATION LLC	MARY L PARRIOTT	Υ	5-8A-43	10*264.37
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	315	1033	L	TH EXPLORATION LLC	DEBRA ANN AND EARL V BUTCHER	Υ	5-8A-43	10*25752
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	150	1035	1/8+	TH EXPLORATION LLC	MARILYN AND RODNEY N CHALMERS	Υ	5-8A-43	10*25775
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	152	1035		TH EXPLORATION LLC	H JAY ULBRICH	γ	5-8A-43	10*25725
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	154	1035	L	TH EXPLORATION LLC	BLYE ULBRICH AND JAMES JENSHKE	Υ	5-8A-43	10*25724
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	156	1035	L	TH EXPLORATION LLC	BRYCE AND EDNA M ULBRICH	γ	5-8A-43	10*257_3
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	129	1033	1/8+	TH EXPLORATION LLC	KENNETH AND DAWN E MORRIS	Υ	5-8A-43	10*25698
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		PENDING	1/8+ F	TH EXPLORATION LLC	BRIAN EDWIN LEMASTERS AND BEVERLY J LEMASTERS	Y	5-8A-43	10*25551
HG Energy II Appalachia LLC to TH Exploration LLC: 41/398	Inc to	N/A	N/A	N/A	N/A	N/A	N/A	N/A	316	890-316		NOBLE ENERGY, INC.	CHARLES EDWIN BLUE, IV, DEALING IN HIS SOLE AND SEPARATE PROPERTY	×	5-8A-44	2097976007
HG Energy II Appalachia LLC to TH Exploration LLC: 41/398	Nobie Energy Inc to HG Energy II Appalachia LLC: 39/1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	596	890-596	1/8+	NOBLE ENERGY, INC.	MARJORIE B. KIDD AND ROBERT C. KIDD, WIFE AND HUSBAND	×	5-8A-44	0097976005
HG Energy II Appalachia LLC to TH Exploration LLC: 41/398	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	602	890-602	1/8+	NOBLE ENERGY, INC.	LORNA MARIE LEW	×	5-8A-44	097976004
HG Energy II Appalachia LLC to TH Exploration LLC: 41/398		N/A	N/A	N/A	N/A	N/A	N/A	N/A	310	890-310	1/8+	NOBLE ENERGY, INC.	SARA B. ANDERSON AND ARTHUR A. ANDERSON, WIFE AND HUSBAND	×	5-8A-44	0097976001
HG Energy II Appalachia LLC to TH Exploration LLC: 41/398	Noble Energy inc to HG Energy II Appalachia LLC: 39/1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	28	821-28	1/8+	NOBLE ENERGY, INC.	CHARLES G. STEIN AND EVA A. STEIN F/K/A EVA A. WADE, HUSBAND AND WIFE	×	5-8A-44	Q081947001 Q097976003
HG Energy II Appalachia LLC to TH Exploration LLC: 41/398	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	599	890-599	1/8+	NOBLE ENERGY, INC.	VICTORIA A. PAKROVSKY AND STEPHEN W. PAKROVSKY, WIFE AND HUSBAND	×	5-8A-44	PENDING
N/A	N/A	N/A	N/A	N/A	N/A		N/A N/A		PENDING N/A	PENDING	1/8+	TH EXPLORATION LLC	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY	×	5-8A-44	10*26619
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	157	1041	1/8+	TH EXPLORATION LLC	SOUTHEASTERN GUIDE DOGS INC	×	5-8A-44	10*26704
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	588	1034	1/8+	TH EXPLORATION LLC	NANCY LOUISE SNYDER	×	5-8A-44	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	JANICE AND DONALD CROOK	×	5-8A-44	10*26438
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	148	1035	1/8+	TH EXPLORATION LLC	MARY L PARRIOTT	×	5-8A-44	10*26437
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	315	1033	1/8+	TH EXPLORATION LLC	DEBRA ANN AND EARL V BUTCHER	×	5-8A-44	10*25752
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	150	1035	1/8+	TH EXPLORATION LLC	MARILYN AND RODNEY N CHALMERS	×	5-8A-44	10*25726

10*256.98 10*25.98 10*257.52 10*264.88 10*264.39

5-8A-35 5-8A-36 5-8A-36 5-8A-36 5-8A-36

\$ \$ \$ \$ \$

WILLIAM MCGLUMPHY
KENNETH AND DAWN E MORRIS
DEBRA ANNY AND FARL'V BUTCHER
JAMIC AND DONALD CROOK
NAMY COURS SYNDER
SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY

TRIENERGY HOLDINGS LLC
TH EXPLORATION LLC

1/8+ 1/8+ 1/8+ 1/8+ 1/8+

752 1033 1033 1034 1034 PENDING

370 129 315 583 588 PENDING

N/A N/A

N N N N N

N/N N/N

N/A N/A

N/A N/A

N/A N/A

Noble Energy Inc to A HG Energy II act of HG Energy II Appaleacha LLC; 39/1. 4:
TriEnergy Holdings inc to Chevron UsA Inc: TI 28/3-8 N/A N/A N/A

Chevron USA Inc to TH Exploration LLC: 43/164 N/A N/A N/A N/A

N/A

N/A

N/A

N/A

N/A

Q097976007

5-8A-43

CHARLES EDWIN BLUE, IV, DEALING IN HIS SOLE AND SEPARATE PROPERTY

1/8+

890

316

N/A

N/A

N/A

×

Š

N/A

N/A

Victoria A. Pakrovsky and Stephen W. Pakrovsky, wife and husband

Noble Energy, Inc.

1/8+

890

599

N/A

N/A

N/A

×.

N/A

N/A

1/8+

890

596

N/A

NA

N/A

×

N/A

N/A

N/A

1/8+

890

602

N/A

N/A

N/A

N/A

×

N/A

N/A

Noble Energy Inc to Appalachia LLC: 97/1. 41/398

Appalachia LLC: 99/1. 41/398

Appalachia LLC: 39/1. 41/398

MARJORIE B. KIDD AND ROBERT C. KIDD, WIFE AND HUSBAND

Q097976006

5-8A-43

0097976005

5-8A-43

Q081947001 Q097976003

5-8A-43

0097976001

5-8A-43

Sara B. Anderson and Arthur A. Anderson, wife and husband

Noble Energy, inc.

1/8+

890

310

N.

N/A

N/A

N/A

N/A

N/A

×.

Charles G. Stein and Eva A. Stein F/K/A Eva A. Wade, husband and wife

Noble Energy, Inc.

1/8+

821

28

N/A

N/A

N/A

N/A

N/A

N/A

N/A

2097976004

5-8A-43

Lorna Marie Lew

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: 41/398		N/A	N/A	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: 41/398	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: 41/398	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: 41/398	HG Energy II Appalachia LLC to TH Exploration LLC: 41/398	HG Energy II Appalachia ILC 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: 41/398	HG Energy!! Appaiachia LLC to TH Exploration LLC: 41/398	Appalachia LLC to TH Exploration LLC: 41/398
	Nobie Energy Inc to Appalac HG Energy Inc to Explora Appalachia LLC: 39/1 41/398	Noble Energy Inc to Appalac HG Energy I Explorat Appalachia LLC: 39/1 41/398	N/A N/A	N (2)	N/A	N/A	Inc to	Noble Energy Inc to Appalach HG Energy II Explora Appalachia LLC: 39/1 41/358	Nobie Energy Inc to Appalac HG Energy Ii HG Energy Ii Explora Appalachia LLC: 39/1 41/398	Noble Energy Inc to Appalachia LLC: 39/1 41/398		Noble Energy Inc to App HG Energy II Expl Appalachia LLC: 39/1 41/3	Noble Energy Inc to App HG Energy II Appalachia LLC: 39/1 41/3	1		Noble Energy Inc to App HG Energy II Expl Appaiachia LLC: 39/1 41/3	Noble Energy Inc to App HG Energy II Expl Appalachia LLC: 39/1 41/:	Noble Energy Inc to App HG Energy II Expl Appalachia LLC: 39/1 41/2	Noble Energy Inc to App HG Energy II Exp Appalachia LLC: 39/1 41/3		Noble Energy Inc to App HG Energy II Exp Appalachia LLC: 39/1 41/
	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	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
2/2	N/A	N/A	N/A N/A	N/A	N/A	N/A	N/N	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
	303		PENDING N/A	282	315	129	588	127	147	298	516	303	307	305	506	309	305	309	301	303	80
	808	810	PENDING	1034	1033	1033	832	879	829	825	820	819	819	819	820	819	808	808	808	808	810
	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+	1/8+
	Noble Energy, Inc.	Noble Energy, Inc.	TH EXPLORATION LLC	TH EXPLORATION LLC	TH EXPLORATION LLC	TH EXPLORATION LLC	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	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC
	KENNETH R. MORRIS AND DAWN E. MORRIS, HUSBAND AND WIFE	LUCILLE E. WINGROVE, A WIDOW	NANCY LOUISE SNYDER SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY	JANICE AND DONALD CROOK	DEBRA ANN AND EARLY BUTCHER	KENNETH AND DAWN E MORRIS	MARTHA FRANCES ULCAK, A SINGLE WOMAN	BLASÉ JOSEPH ULCAK JR., A SINGIE MAN	COURTNEY D. HALL, SINGLE	BRYCE E. ULBRICH AND EDNA M. ULBRICH, HUSBAND AND WIFE	SOUTHEASTERN GUIDE DOGS INC., TITUS HERMAN CEO	ROBERT LEE SMITH AND BETSY K. SMITH, HUSBAND AND WIFE	JUSTIN SMITH, A/K/A JUSTINE SMITH, A WIDOW	BLYE ULBRICH JENSCHKE AND JIM JENSCHKE, WIFE AND HUSBAND	MARILYN ULBRICH CHALMERS AND ROD N. CHALMERS, WIFE AND HUSSAND	H. JAY ULBRICH, A SINGLE MAN	JANICE R. CROOK, A/K/A JANICE WINGROVE CROOK AND DONALD P. CROOK, A WIFE AND HUSBAND	NANCY L. SNYDER, A/K/A NANCY WINGROVE SNYDER, A WIDOW	JUNE MORRIS, A WIDOW	KENNETH R. MORRIS AND DAWN E. MORRIS, HUSBAND AND WIFE	LUCILLE E. WINGROVE
	BB		88					AA	AA	AA	AA	AA	A	AA	A	8	AA	AA	A A	A	Å
	5-8A-37	5-8A-37	5-8A-37 5-8A-37	5-8A-37	5-8A-37	5-8A-37	5-8A-36	5-8A-36	5-8A-36	5-8A-36	5-8A-36	5-8A-36	5-8A-36	5-8A-36	5-8A-36	5-8A-36	5-8A-36	5-8A-36	5-8A-36	5-8A-36	5-8A-36
	Q078625002	0078626001	10*26439	264.38	25752	25698	8626036	Q078626026	0078626025	Q078626 0 23	Q078626017	Q078626013	Q078626012	Q0786/J6011	Q078626010	Q078626009	0078626005	0078626004	Q078626003	Q078626002	Q078626001

0078526009	Q078626005	0078626004	0078626003	Q078626002	0078625001	10*2661#	10*26438	10*257-2	Q078626036	Q078626026	Q078626025	Q078626023	0078626017	Q078526013	Q078626012	Q078626011	Q078626010	0078626009	Q078626005	Q078626CO4
5-RA-41	5-8A-41	5-80-41	5-8A-41	5-8A-41	5-8A-41	5-8A-41 5-8A-41	5-8A-41	5-8A-41	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
3	CC	33	cc	8	8	8 8	18	8 8	S B	B B	BB	88	B B	ВВ	88	BB	88	BB	88	88
H. JAY JIBRIU ASINGLE MAN	JANICE R. GROOK, A/K/A JANICE WINGROVE CROOK AND DONALD P. CROOK, A WIFE AND HUSSAND	NANCY L. SNYDER, A/K/A NANCY WINGROVE SNYDER, A WIDOW	JUNE MORRIS, A WIDOW	KENNETH R. MORRIS AND DAWN E. MORRIS, HUSBAND AND WIFE	LUCILIE E. WINGROVE, A WIDOW	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY	JANICE AND DONALD CROCK	DEBRA ANN AND EARL V BUTCHER	MARTHA FRANCES UICAK, A SINGLE WOMAN	BLASÉ JOSEPH ULCAK JR., A SINGLE MAN	COURTNEY D. HALL, SINGLE	BRYCE E. ULBRICH AND EDNA M. ULBRICH, HUSBAND AND WIFE	SOUTHEASTERN GUIDE DOGS INC., TITUS HERMAN CEO	ROBERT LEE SMITH AND BETSY K. SMITH, HUSBAND AND WIFE	JUSTIN SMITH, A/K/A JUSTINE SMITH, A WIDOW	BLYE ULBRICH JENSCHKE AND JIM JENSCHKE, WIFE AND HUSBAND	MARILYN ULBRICH CHALMERS AND ROD N. CHALMERS, WIFE AND HUSBAND	H. JAY ULBRICH, A SINGLE MAN	JANICE R. CROOK, A/K/A JANICE WINGROVE CROOK AND DONALD P. CROOK, A WIFE AND HUSBAND	NANCY L. SNYDER, A/K/A NANCY WINGROVE SNYDER, A WIDOW
NOBLE ENERGY, INC.	NOBLE ENERGY, INC.	NOBLE ENERGY, INC.	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.	Noble Energy, Inc.	Nobie Energy, Inc.	Noble Energy, Inc.	Noble Energy, Inc.	Noble Energy, Inc.	Noble Energy, Inc.	Noble Energy, Inc.
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+	1/8+
89 11 10	808	808	808	808	810	PENDING	1034	1033	832	829	829	825	820	819	819	819	820	819	808	808
309	305	309	301	303	80	PENDING	583	315	588	127	147	298	516	303	307	305	506	309	305	309
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
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	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
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	Н		Ш	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Incito HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	c to 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
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: 41/398	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: 41/398	N/A	N/A	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 TI Exploration LLC: 41/398	HG Energy II Appalachia LLC to Ti Exploration LLC: 41/398	HG Energy II Appalachia LLC to TH Exploration LLC: 41/398	HG Energy II Appalachia LLC to TI Exploration LLC: 41/398	HG Energy II Appalachia LLC to T Exploration LLC: 41/398	HG Energy II Appalachia LLC to T Exploration LLC: 41/398	HG Energy II Appalachia LLC to T Exploration LLC: 41/398	HG Energy II Appalachia LLC to TI Exploration LLC: 41/398	HG Energy II Appalachia (LC to TI Exploration LLC: 41/398	Appalachia LLC to TH Exploration LLC: 41/398

Q078626012	Q078626011	Q078626010	0.078626009	0.078625005	0078626004	Q078626003	0078626002	Q078626001	10*26619	10*26438	10*25752	10*25698	0078676036	Q078626026	Q078626025	Q078626023	Q078626017	Q078626013	Q078626012	Q078626011	Q078626010
5-8A-38	5-8A-38	5-8A-38	5-8A-38	5-8A-38	5-8A-38	5-8A-38	5-8A-38	5-8A-38	5-8A-38	5-8A-38	5-8A-38	5-8A-38	, , , , , , , , , , , , , , , , , , ,	5-8A-41							
DD	DD D	DD	DD	DD	DD	מס	סס	DD	8 8	8 8	DD	8	Ç.	cc	S	C	S	ឧ	33	8 -	C
JUSTIN SMITH, A/K/A JUSTINE SMITH, A WIDOW	BLYE ULBRICH JENSCHKE AND JIM JENSCHKE, WIFE AND HUSBAND	MARILYN ULBRICH CHALMERS AND ROD N. CHALMERS, WIFE AND HUSBAND	H. JAY ULBRICH, A SINGLE MAN	JANICE R. CROOK, A/K/A JANICE WINGROVE CROOK AND DONALD P. CROOK, A WIFE AND HUSBAND	NANCY L. SWYDER, A/K/A NANCY WINGROVE SNYDER, A WIDOW	JUNE MORRIS, A WIDOW	KENNETH R. MORRIS AND DAWN E. MORRIS, HUSBAND AND WIFE	LUCILLE E. WINGROVE, A WIDOW	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY	JANICE AND DONALD CROOK	DEBRA ANN AND EARL V BUTCHER	KENNETH AND DAWN E MORRIS	MARTHA ERANCES III CAY. A SINGI E WOMAN	BLASÉ JOSEPH ULCAK JR., A SINGLE MAN	COURTNEY D. HALL, SINGLE	BRYCE E. ULBRICH AND EDNA M. ULBRICH, HUSBAND AND WIFE	SOUTHEASTERN GUIDE DOGS INC., TITUS HERMAN CEO	ROBERT LEE SMITH AND BETSY K. SMITH, HUSBAND AND WIFE	JUSTIN SMITH, AIK/A JUSTINE SMITH, A WIDOW	BLYE ULBRICH JENSCHKE AND JIM JENSCHKE, WIFE AND HUSBAND	MARILYN ULBRICH CHALMERS AND ROD N. CHALMERS, WIFE AND HUSBAND
Noble Energy, Inc.	Noble Energy, Inc.	Noble Energy, Inc.	Nobie Energy, Inc.	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	NORIE ENERGY INC	NOBLE ENERGY, INC.							
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+	1/8+	1/8+
819	819	820	819	808	808	808	808	810	PENDING	1034	1033	1033	20	829	829	825	820	819	819	819	820
307	305	506	309	305	309	301	303	80	PENDING	583	315	129	л я	127	147	298	516	303	307	305	506
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	A/N	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	W/W	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	Z	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	N/A	N/A	N/A	N/A	N/A
Nobie 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	Nobie Energy Inc to HG Energy II Appalachia LLC: 39/1	N/A	N/A	N/A	N/A	Nobie 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	Noble Energy inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1
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: 41/398	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: 41/398	HG Energy II Appalachia LLC to TH Exploration LLC: 41/398	HG Energy II Appalachia LLC to TH Exploration LLC: 41/398		N/A	N/A	N/A	1		HG Energy II Appalachia LLC to TH Exploration LLC: 41/398	HG Energy II Appalachia LLC to TH Exploration LLC: 1 41/398	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: 1 41/398	HG Energy II Appaiachia LLC to TH Exploration LLC: 1 41/398	HG Energy II Appaiachia LLC to TH Exploration LLC: 1 41/398	

0078626012	0078626011	0078626010	Q078626009	0078626008	0078626007	Q078626006	Q078626005	Q078626004	0078675003	Q07852 <i>5</i> 002	Q078626001	10*26439	10*26438	10*25752	10*25658	0016026	0078626026	Q078626025	Q078626023	Q078626017	Q078626013
5-84-39	5-8A-39	5-8A-39	5-8A-39	5-8A-39	5-8A-39	5-8A-39	5-8A-39	5-8A-39	5-8A-39	5-8A-39	5-8A-39	5-8A-39 5-8A-39	5-8A-39	5-8A-39	5-8A-39	5 C O Z	5-8A-38	5-8A-38	5-8A-38	5-8A-38	5-8A-38
m m	EE	Ħ	m	īn T	Ħ	Ħ	E	EE	EE	m.	m	88	ı m	Æ	ER 5	2	סס	DD	00	DD	DD
NISTIN SMITH, A/K/A JUSTINE SMITH, A WIDOW	BLYE ULBRICH JENSCHKE AND JIM JENSCHKE, WIFE AND HUSBAND	MARILYN ULBRICH CHALMERS AND ROD N. CHALMERS, WIFE AND HUSBAND	H. JAY ULBRICH, A SINGLE MAN	ELAINE WILLS, SINGLE	JEFFREY BROOKS, SINGLE	BARBARA F. DANIELS, WIDOW	JANICE R. CROOK, A/K/A JANICE WINGROVE CROOK AND DONALD P. CROOK, A WIFE AND HUSBAND	NANCY L. SNYDER, A/K/A NANCY WINGROVE SNYDER, A WIDOW	JUNE MORRIS, A WIDOW	KENNETH R. MORRIS AND DAWN E. MORRIS, HUSBAND AND WIFE	LUCILE E. WINGROVE, A WIDOW	NANCY LOUISE SNYDER SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY	JANICE AND DONALD CROOK	DEBRA ANN AND EARL V BUTCHER	KENNETH AND DAWN E MORRIS	NAMOW SINCE WAY A SANGER WAY	BLASÉ JOSEPH ULCAK JR., A SINGLE MAN	COURTNEY D. HALL, SINGLE	BRYCE E. ULBRICH AND EDNA M., ULBRICH, HUSBAND AND WIFE	SOUTHEASTERN GUIDE DOGS INC., TITUS HERMAN CEO	ROBERT LEE SMITH AND BETSY K. SMITH, HUSBAND AND WIFE
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.	NOBLE ENERGY, INC.	NOBLE ENERGY, INC.	NOBLE ENERGY, INC.	TH EXPLORATION LLC	TH EXPLORATION LLC	TH EXPLORATION LLC	TH EXPLORATION ILC	Nobile Emergy Inc	Noble Energy, Inc.				
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+	1/8+	1/8+
819	819	820	819	813	813	813	808	808	808	808	810	PENDING	1034	1033	1033	847	829	829	825	820	819
307	305	506	309	542	540	246	305	309	301	303	8	PENDING	583	315	129	57 88 88	127	147	298	516	303
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	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	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
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	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Nobie 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	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	Nobie Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1
HG Energy II Appalachia LLC to TH Exploration LLC: 1 41/398		HG Energy II Appalachia LLC to TH Exploration LLC: 1 41/398	HG Energy II Appalachia LLC to TH Exploration LLC: 1 41/398	HG Energy II Appalachia LLC to TH Exploration LLC: 1 41/398	-	HG Energy II Appalachia LLC to TH Exploration LLC: 41/398	HG Energy II Appalachia LLC to TH Exploration LLC: 1 41/398	HG Energy II Appalachia LLC to TH Exploration LLC: 1 41/398	HG Energy II Appalachia LLC to TH Exploration LLC: 1 41/398	HG Energy II Appalachia LLC to TH Exploration LLC: 1 41/398	HG Energy II Appalachia LLC to TH Exploration LLC: 1 41/398	N/A	N/A	N/A		HG Energy II Appalachia LLC to TH Exploration LLC: 1 41/398	HG Energy II Appalachia LLC to TH Exploration LLC: 1 41/398	HG Energy II Appalachia LLC to TH Exploration LLC: 1 41/398	HG Energy II Appaiachia LLC to TH Exploration LLC: 1 41/398	HG Energy II Appalachia LLC to TH Exploration LLC: 1 41/398	

0078626023	0078626017	0078626013	Q078626012	0078626011	0078626010	Q078626009	Q078626005	Q078626004	Q078626003	Q078626002	Q078626001	10*26439 10*26619	10*26438	10*25698	Q078526036	Q078626026	0078626025	Q078626023	Q078626017	Q078626013
5-04-33	5-8A-33	5-8A-33	5-8A-33	5-8A-33	5-8A-33	5-8A-33	5-8A-33	5-8A-33	5-8A-33	5-8A-33	5-8A-33	5-8A-33 5-8A-33	5-8A-33	5-8A-33 5-8A-33	5-8A-39	5-8A-39	5-8A-39	5-8A-39	S-8A-39	5-8A-39
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BRYCE F. UIBRICH AND EDNA M. UIBRICH HUSBAND AND WIFE	SOUTHEASTERN GUIDE DOGS INC., TITUS HERMAN CEO	ROBERT LEE SMITH AND BETSY K. SMITH, HUSBAND AND WIFE	JUSTIN SMITH, A/K/A JUSTINE SMITH, A WIDOW	BLYE UIBRICH JENSCHKE AND JIM JENSCHKE, WIEE AND HUSBAND	MARILYN ULBRICH CHALMERS AND ROD N. CHALMERS, WIFE AND HUSSAND	H. JAY UEBRICH, A SINGLE MAN	JANICE R. CROOK, A/K/A JANICE WINGROVE CROOK AND DONALD P. CROOK, A WIFE AND HUSBAND	NANCY L SNYDER, A/K/A NANCY WINGROVE SNYDER, A WIDOW	JUNE MORRIS, A WIDOW	KENNETH R. MORRIS AND DAWN E. MORRIS, HUSBAND AND WIFE	LUCILLE E. WINGROVE, A WIDOW	NANCY LOUISE SNYDER SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY	JANICE AND DONALD CROOK	DEBRA ANN AND EARL V BUTCHER	MARTHA FRANCES ULCAK, A SINGLE WOMAN	BLASÉ JOSEPH UĽCAK JR., A SINGLE MAN	COURTNEY D. HALL, SINGLE	BRYCE E. ULBRICH AND EDNA M. ULBRICH, HUSBAND AND WIFE	SOUTHEASTERN GUIDE DOGS INC., TITUS HERMAN GEO	ROBERT LEE SMITH AND BETSY K. SMITH, HUSBAND AND WIFE
NOBLE ENERGY, INC.	NOBLE ENERGY, INC.	NOBLE ENERGY, INC.	NOBLE ENERGY, INC.	NOBLE ENERGY, INC.	NOBLE ENERGY, INC.	NOBLE ENERGY, INC.	TH EXPLORATION LLC	TH EXPLORATION LLC	TH EXPLORATION LLC	NOBLE ENERGY, INC.										
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+
825	820	819	819	819	820	819	808	808	808	808	810	1034 PENDING	1034	1033	832	829	829	825	820	819
298	516	303	307	305	506	309	305	309	301	303	88	PENDING	583	315	588	127	147	298	516	303
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/N	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	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	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
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 (LC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy !! Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Nobie Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appaiachia 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		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	Nobie Energy inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1
HG Energy II Appalachia LLC to TH Expioration LLC: 41/398	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: 41/398	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: 41/398	HG Energy II Appalachia LLC to TH Exploration LLC: L 41/398	HG Energy II Appalachia LLC to TH Exploration LLC: 1 41/398	HG Energy II Appalachia LLC to TH Exploration LLC: 1 41/398	N/A N/A	N/A	N/A	HG Energy II Appalachia LLC to TH Expioration LLC: 1 41/398	HG Energy II Appalachia LLC to TH Exploration LLC: 1 41/398	HG Energy II Appalachia LLC to TH Exploration LLC: 1 41/398	HG Energy II Appalachia LLC to TH Exploration LLC: 1 41/398	HG Energy II Appalachia LLC to TH Exploration LLC: 1 41/398	HG Energy II Appalachia LLC to TH Exploration LLC: 1 41/398

0078626003	0078626002	Q078626001	10*26619	10*26438	10*25.01	10*25698	PENDING	N/A	918331	0.09517,8000	N/A	0095637000	Q093,60 6 000	Q081033000	Q095637000	Q078626036	Q078626026	Q078626025
5-8A-31	5-8A-31	5-8A-31	5-8A-31	0-6A-5L	E 07-01-01	5-8A-31	5-8A-32	5-8A-30	5-8A-30	5-84-29	5-8A-29	5-84-28	5-84-14	ს დ	5-8A-34	5-8A-33	5-8A-33	5-8A-33
N N	N	N Z	N.	NN	NN.	Z	MM	F	F	XX	KK	E	=	₹	a	77	#	Ŧ
JUNE MORRIS, A WIDOW	KENNETH R. MORRIS AND DAWN E. MORRIS, HUSBAND AND WIFE	LUCILLE E. WINGROVE, A WIDOW	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY	MANCY LOUISE SNYDER	DEDUCATION DOUGH A COLUMN	XENNETH AND DAWN E MORRIS	JOHN E. BOPP AND JOYCE L. BOPP, HIS WIFE	ROBERT F. RYAN	RANDALL KEITH KEENER ET AL	CATHERINE P.RINE	ROBERT F. RYAN	NORMAN GALE JOHNSON AND WONETTA VIRGINIA JOHNSON ET AL	THE BOARD OF EDUCATION OF COUNTY OF MARSHALL	TAMMY L MITCHELL ET VR	NORMAN GALE JOHNSON AND WONETTA VIRGINIA JOHNSON ET AL	MARTHA FRANCES ULCAK, A SINGLE WOMAN	BLASÉ JOSEPH ULCAK JR., A SINGLE MAN	COURTINEY D. HALL, SINGLE
NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	TH EXPLORATION LLC	TH EXPLORATION II C	TH EXPLORATION II.C	TH EXPLORATION LLC	TRIENERGY HOLDINGS LLC	UNLEASED	CHEVRON USA INC	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.
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+
808	808	810	PENDING	1034	1034	1033	711	N/A	775	871	N/A	878	896	816	878	832	829	829
301	303	85	PENDING	588	583	516	298	N/A	131	490	N/A	370	501	176	370	588	127	147
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*FORCE POOL*	N/A	N/A	*FORCE POOL*	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/N	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/N	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	Noble Energy Inc to CNX Gas Company LLC: 35/313		Noble Energy Inc to CNX Gas Company LLC 36/395	N/N	Noble Energy Inc to CNX Gas Company LLC 34/189	Noble Energy Inc to CNX Gas Company LLC: 36/395	N/A	N/A	N/A
N/A	N/A	N/A		N/A	N/A	N/A	N/A		N/A	CXX Gas Company Noble Energy Inc to :: LLC to Noble Energy H G Energy II Appelachia LLC. 39/1.		Noble Energy Inc to CNX Gas Company Noble Energy Inc to CNX Gas Company Noble Energy Inc to CNX Gas Company LLC: LLC to Noble Energy I HG Energy II Greegy II nc: 37/1659 Appalachia LLC: 39/1	N/A	Noble Energy Inc to CRX Gas Company Noble Energy ICC LLC to Noble Energy II GCIX Gas Company LLC: LLC to Noble Energy II GEnergy II GENERGY II GC: 37/165	CMX Gas Company Nobie Energy Inc to LIC to Nobie Energy HG Energy II Inc: 37/169 Appalachia LIC: 39/1	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	Noble Energy Inc to HG Energy II Appalachia LLC: 39		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	Nobie Energy Inc to HG Energy II Appalachia LLC: 39	N/A	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	N/A	N/A	N/A	N/N	TriEnergy Holdings LLC & TriEnergy Inc to Chevron USA Inc: 28/348		N/A	Noble Energy inc to HG Energy II Appalachia LLC: MB 4/1 34/392		Noble Energy Inc to HG Energy II Appalachia LLC: MB 9/1 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 9/1 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392	Noble Energy Inc to HG Energy il Appalachia LLC: MB 34/392	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
HG Energy II Appalachia LLC to TH Exploration LLC: 1 41/398	HG Energy II Appalachia LLC to TH Exploration LLC: 1 41/398	HG Energy II Appalachia LLC to TH Exploration LLC: 1 41/398	N/A	N/A	N/A	N/A	Chevron TH Explo 43/164		Chevron USA Inc to TH Exploration LLC: 43/164			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 HC Energy!! Appalachia, LLC: 988/286		HG Energy II Appalachia LLC to TH Exploration LLC: 1 41/398		

O088945000	10*24978	10*26014	Q082463000	905222	867770	Q078626036	Q078626026	Q078626025	Q078626023	Q078626017	Q078626013	Q078626012	Q078626011	Q078626010	Q078626009	Q078626005	0.078626004
5-8A-13	5-8A-22	5-8A-25	5-84-23	5-8A-24	5-8A-27	5-8A-31	5-8A-31	5-8A-31	5-84-31	5-8A-31	5-8A-31	5-8A-31	5-8A-31	5-8A-31	5-84-31	5-8A-31	5-8A-31
=	x	RR	8	קים	8	N	Z	NN	N	N	NN	NN	N	NN	Z	NN	NN
LETHA I RUCKMAN	WHITNEY B WOODS	ROCKY W WILLS & KATHRYN R WILLS	DANNY LEE DARRAH ET UX	BONNIE LUNSFORD BELL FKA BONNIE LUNSFORD	CLARENCE S SIBURT AND MARY J SIBURT	MARTHA FRANCES ULCAX, A SINGLE WOMAN	BLASÉ JOSEPH ULCAX JR., A SINGLE MAN	COURTNEY D. HALL, SINGLE	BRYCE E. JUBRICH AND EDNA M. ULBRICH, HUSBAND AND WIFE	Southeastern Guide Dags Inc., Thus Herman CEO	ROBERT LEE SMITH AND BETSY K. SMITH, HUSBAND AND WIFE	JUSTIN SMITH, AR(/A JUSTINE SMITH, A WIDOW	BLYE ULBRICH JENSCHKE AND JIM JENSCHKE, WIFE AND HUSBAND	MARILYN ULBRICH CHALMERS AND ROD N. CHALMERS, WIFE AND HUSSAND	H. JAY ULBRICH, A SINGLE MAN	JANICE R. CROOK, A/K/A JANICE WINGROVE CROOK AND DONALD P. CROOK, A WIFE AND HUSSAND	NANCY L. SNYDER, A/K/A NANCY WINGROVE SNYDER, A WIDOW
TRIENERGY HOLDINGS LLC	TH EXPLORATION LLC	TRIENERGY HOLDINGS LLC	NOBLE ENERGY INC	TRIENERGY HOLDINGS LLC	TRIENERGY HOLDINGS LLC	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	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC
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+
765	1028	724	827	765	715	832	829	829	825	820	819	819	819	820	819	808	808
219	628	206	160	226	195	55 88 88	127	147	298	516	303	307	305	506	309	305	309
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
Z A	N/A	N/A	Z >	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 & TriEnergy Incto Chevron USA Inc: 28/348	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 Chevron USA Inc to LLC & TriEnergy Inc to Noble Energy Inc & CNX CNX Gas Company Chevron USA Inc: Gas Company LC: LC to Noble Energy 28/548 Inc: S3/L	N/A	N/A	Noble Energy Inc to CNX Gas Company LLC: 33/574	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: 25/463	CNX Gas Company LLC to Noble Energy	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
rinc to		vron	Noble Energy Inc to HG Energy It Appalachia LLC: 39/1	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: 756/307	Noble Energy Inc to HG Energy II Appalachia LLC: MB	TriEnergy Holdings LLC & TriEnergy Inc to Chevron USA Inc: 28/348	TriEnergy Holdings LLC & TriEnergy Inc to Chevron USA Inc: 28/348	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Nobie Energy Inc to HG Energy II Appalachia LLC: 39/1		Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Nobie Energy Inc to HG Energy !! 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	Nobie 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
Memorandum of Operating Agreemen between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	N/A	Chevron USA Inc to TH Exploration LLC: 43/95	Memorandum of Operating Agreemen between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Chevron USA Inc to TH Exploration LLC: 43/164	Chevron USA Inc to TH Exploration LLC: 43/164	HG Energy II Appalachia LLC to TH Exploration LLC: 41/398	Appalachia LLC to TH Exploration LLC: 41/398	HG Energy It Appalachia LLC to TH Exploration LLC: 41/398	HG Energy II Appalachia LLC to TH Exploration LLC: 41/398	HG Energy II Appaiachia 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: 41/398	HG Energy II Appaiachia 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: 41/398	Appalachia LLC to TH Exploration LLC: 41/398	HG Energy II Appalachia LLC to TH Exploration LLC: 41/398

	Q078625003	Q078625002	Q078626001	Q076644000	Q076644000	10*26439 10*26619	10*26438	10*25698	Q079184000	0079184000	Q083860000
	5-8A-19 F/K/A 5-9A-18	5-8A-19 F/K/A 5-8A-18	5-8A-19 F/K/A 5-8A-18	5-8A-19 F/K/A 5-8A-21	5-8A-19 F/K/A 5-8A-10	5-8A-19 F/K/A 5-8A-18 5-8A-19 F/K/A 5-8A-18	5-8A-19 F/K/A 5-8A-18	5-8A-19 F/K/A 5-8A-18	5-8A-20	5-8A-11	5-84-12
	×	×	×	×	×	XX XX	XX 3	××	WW	W	E
	JUNE MORRIS, A WIDOW	KENNETH R. MORRIS AND DAWN E. MORRIS, HUSBAND AND WIFE	LUGILE E. WINGROVE, A WIDOW	JAMES B MIDCAP AND DIANAK MIDCAP	JAMES B MIDCAP AND DIANA K MIDCAP	NANCY LOUISE SNYDER SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY	JANICE AND DONALD CROOK	DEBRA ANN AND EARL V BUTCHER	GLORIA JEAN WHITE, A WIDOW, AND MILTON CHRISTOPHER WHITE, A SINGLE MAN	GLORIA JEAN WHITE AND MILTON CHRISTOPHER WHITE	MARY D RUCKYAN
	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	TH EXPLORATION LLC	TH EXPLORATION LLC	TH EXPLORATION LLC	NOBLE ENERGY INC	NOBLE ENERGY INC	TRIENERGY HOLDINGS LLC
	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+
	808	808	018	803	803	1034 PENDING	1034	1033	808	80	765
	301	303	80	336	336	588 PENDING	583	315	392	392	224
	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/N	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 & TriEnergy Inc Chevron USA Inc: 28/348
	N/A	N/A	N/A	Noble Energy Inc to CIXX Gas Company Noble Energy Inc to CIXX Gas Company LLC: LLC to Noble Energy II G Energy II G: 37/1.69 Appalacha LLC: 39/1	Noble Energy Inc to CNX Gas Company Noble Energy CNX Gas Company LC: LLC to Noble Energy H G Energy II Inc: 37/169 Appalachia Li	N/A N/A	N/A	N/A	Noble Energy Inc to CNX Gas Company LLC: 34/1/17	Noble Energy Inc to CNX Gas Company LLC: 33/1/77	TriEnergy Holdings Chevron USA Inc to LLC & TriEnergy Inc to Noble Energy Inc to Chevron USA Inc: Chevron USA Inc: Gas Company LLC: LLC to Noble Energy Inc to Cast Company HG Energy Inc to Chevron USA Inc: 33/1 Inc: 33/1 Inc: 33/1 Appalachia LLC: 39/1
	N/A	N/A	N/A	CNX Gas Company I LLC to Noble Energy I	CNX Gas Company LLC to Noble Energy I		N/A	N/A	CNX Gas Company LLC to Noble Energy lnc: 37/169	Noble Energy Inc to CNX Gas Company Woble Energy HCE En	(CNX Gas Company LLC to Noble Energy Inc: 37/169
	N/A	N/A	N/A	Noble Energy inc to HG Energy.il Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	N/A	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
Nobie Energy Inc to	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 Appaladhia 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 //1 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/352	Noble Energy (no to HG Energy II Appalachia LLC: MB
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC:		Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreeme 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	Memorandum of Operating Agreement between TH Exploration ILC and HG Energy II Appalachia, ILC: 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

0078526016	Q078626015	0078626014	0078626013	Q078626012	Q078626011	Q078626 0 10	0078626009	0078626005
5-8A-19 F/K/A 5-8A-18	5-BA-19 F/K/A 5-BA-18	5-8A-19 F/K/A 5-8A-18	5-8A-19F/K/A 5-8A-18	5-8A-19 F/K/A 5-8A-18	5-8A-19 F/K/A 5-8A-18	5-8A-19 F/K/A 5-8A-18	5-8A-19 F/K/A 5-8A-18	5-8A-19 F/K/A 5-8A-18
×	×	×	×	×	×	×	×	×
BRIAN EDWIN LEMASTERS AND BEVERLY J. LEMASTERS, HUSBAND AND WIFE	DEBORAH D. MERCER AND CALVIN P. MERCER, WIFE AND HUSBAND	HARRY LEROY PARRIOTT AND MANCY S. PARRIOTT, HUSSAND AND WIFE	ROBERT LEE SMITH AND BETSY K. SMITH, HUSBAND AND WIFE	JUSTIN SMITH, AJK/A JUSTINE SMITH, A WDOW	BLYE UIBRICH JENSCHKE AND JMI JENSCHKE, WIFE AND HUSBAND	MARILYN ULBRICH CHALMERS AND ROD N. CHALMERS, WIFE AND HUSBAND	H. JAY ULBRICH, A SINGLE MAN	JANICE R. CROOK, A/K/A JANICE WINGROVE CROOK AND DONALD P. CROOK, A WIFE AND HUSSAND
NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE EMERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC
1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+
821	821	82G	819	819	819	820	819	808
24	22	508	303	307	305	506	309	305
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/N	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/N	N/N	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
Memorandum of Operating Agree between TH Exploration LTH Exploration LTH HG Energy Inc to Appalachia LLC. 39/1 988/286	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 Appalachla 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
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 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 Expioration LLC and HG Energy II Appalechia, LLC: 988/286

0010010010	0078626025	0078636023	Q07863HQ22	0078626021	0078626020	0078626019	0078626018	0078626017
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\$	×	×	×	×	×	×	×	×
PLANT TO SENTE A TANKE TO SENTE TO SENT	COURTNEY D. HALL, SINGLE	BRYCE E. ULBRICH AND EDNA M. ULBRICH, HUSBAND AND WIFE	TIMOTHY SCOTT LEMASTERS AND AMY C. LEMASTERS, HUSBAND AND WIFE	MARY L. PARRIOTT, A WIDOW	TRUDY B. SAMPSON AND DANNY SAMPSON, WIFE AND HUSBAND	FRANGS O. HALL A/K/A ORNETTA PARRIOTT, WIDOW	KIMBERLY D. LAXE, A SINGLE WOMAN	SOUTHEASTERN GJIDE DOGS INC., YITUS HERMAN CEO
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
1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+
2) 2)	829	825	827	827	825	825	825	820
127	147	298	162	164	260	258	272	516
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/N	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
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 (LC: 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
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 1988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC:	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC:	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC:	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC:	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC:	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC:	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 1 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 1 988/286

0078626011	0078626010	Q078626009	Q078525005	0,078625004	Q078626003	Q078626002	Q07862 6 001	10*266.9	10*26438	10*25752	Q078625037	Q078626036	0078626031	.0078626028	Q078625027
5-8A-17	5-8A-17	5-8A-17	5-8A-17	5-8A-17	5-8A-17	5-8A-17	5-8A-1 <i>7</i>	5-8A-17 5-8A-17	5-8A-17	5-8A-17	5-8A-19 F/K/A 5-8A-18	5-8A-19 F/K/A 5-8A-18	5-8A-19 F/K/A 5-8A-18	5-8A-19 F/K/A 5-8A-18	5-84-19 F/K/A 5-8A-18
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BLYE ULBRICH JENSCHKE AND JIM JENSCHKE, WIFE AND HUSBAND	MARILYN ULBRICH CHALMERS AND ROD N. CHALMERS, WIFE AND HUSBAND	H. JAY UBRICH, A SINGLE MAN	JANICE R. GROOK, A/K/A JANICE WINGROVE CROOK AND DONALD P. CROOK, A WIFE AND HUSBAND	NANCY L. SNYDER, A/K/A NANCY WINGHOVE SNYDER, A WIDOW	JUNE MORRIS, A WIDDW	KENNETH R. MORRIS AND DAWN E. MORRIS, HUSBAND AND WIFE		SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY			DEBRA ANN BUTCHER AND EARL V. BUTCHER, WIFE AND HUSBAND	MARTHA FRANCES UICAK, A SINGLE WOMAN	IAMES B. MIDAP AND DIANA K. MIDCAP, HUSBAND AND WIFE	PATRICIA PARRIOTT, A WIDOW	BETTY JANE PARRIOTT, WIDOW
NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	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
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+
92	820	819	808	808	808	808	810	PENDING	1034	1033	839	832	839	828	828
300 0	506	309	305	309	301	303	80	PENDING	583	315	215	588	162	270	265
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/N	N/N	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	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
39/	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		Nobie Energy inc to HG Energy II Appalachia LLC: 39/1	N/A	N/A	N/A	Noble Energy Inc to HG Energy II Appelachia ILC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Nobie Energy inc to HG Energy it Appaiachia LLC: 39/2	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy inc to HG Energy II Appelachia LLC: 39/1
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: 41/398	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: 41/398	HG Energy II Appalachia LLC to TH Exploration LLC: 41/398	HG Energy It Appalachia LLC to TH Exploration LLC: 41/398	N/A	N/A	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 Appelachia, 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/Z86

QD78626037	0.078626036	0078626028	0078626027	0078626026	Q078626025	0078626023	0078626022	Q078626021	0.078625020	Q078626019	Q07862501E	0.078626017	0078626016	0078626015	0078626014	0078626013	0078626012
5-8A-17	5-8A-17	5-8A-17	5-8A-17	5-8A-17	5-8A-17	5-8A-17	5-8A-17	5-8A-17	5-8A-17	5-8A-17	5-8A-17	5-8A-17	5-8A-17	5-8A-17	5-8A-17	5-8A-17	5-8A-17
YY	YY	¥	YY	**	¥	YY	YY	YY	Ϋ́	¥	YY	YY	*	 ₹	**	YY	₹
Debra Ann Butcher and Earl V. Butcher, wife and husband	MARTHA FRANCES ULCAX, A SINGLE WOMAN	PATRICIA PARRIOTT, A WIDOW	BETTY JANE PARRIOTT, WIDOW	BLASÉ JOSEPH ULCAK JR., A SINGLE MAN	COURTNEY D. HALL, SINGLE	BRYCE E. ULBRICH AND EDNA M. ULBRICH, HUSBAND AND WIFE	TIMOTHY SCOTT LEMASTERS AND AMY C. LEMASTERS, HUSBAND AND WIFE	MARY L. PARRIOTT, A WIDOW	TRUDY B. SAMPSON AND DANNY SAMPSON, WIFE AND HUSBAND	FRANCIS O. HALL A/K/A ORNETTA PARRIOTT, WIDOW	KIMBERLY D LAKE	SOUTHEASTERN GUIDE DOGS INC., TITUS HERMAN CEO	BRIAN EDWIN LEMASTERS AND BEVERLY J. LEMASTERS, HUSBAND AND WIFE	DEBORAH D. MERCER AND CALVIN P. MERCER, WIFE AND HUSBAND	HARRY LEROY PARRIOTT AND NANCY S. PARRIOTT, HUSBAND AND WIFE	ROBERT LEE SMITH AND BETSY K. SMITH, HUSBAND AND WIFE	JUSTIN SMITH, A/K/A JUSTINE SMITH, A WIDOW
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	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
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+
839	832	828	828	829	829	825	827	827	825	825	825	820	821	821	820	819	819
215	588	270	265	127	147	298	162	164	260	258	272	516	24	22	508	303	307
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	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	N/A	N/A	N/A	N/A	N/A	N/A
	c to 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	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
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: 41/398	HG Energy II Appaiachia 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: 41/398	HG Energy II Appaiachia 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: 41/398	HG Energy II Appalachia LLC to TH Exploration LLC: 41/398	HG Energy il 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: 41/398	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: 41/398	HG Energy II Appalachia LLC to TH Exploration LLC: 41/398	His Energy II Appalachia LLC to TH Exploration LLC: 41/398

0078626020	Q078626019	Q078626018	Q078626017	Q078626016	Q078626015	0078626014	Q078626013	Q078626012	0078626011	Q078626010	Q078626Q09	0.078626005	0078626004	Q0786 2 6002	Q077358002	Q077358QQ3	10*26619	Q076869000
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	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	ZZ
TRITIN A SAMPSON WING LUNG SAMPS ANNOT UND HOSBAND	FRANCIS O, HALL A/K/A CRNETTA PARRIOTT, WIDOW	KIMBERLY D LAKE	SOUTHEASTERN GUIDE DOGS INC., TITUS HERMAN CEO	BRIAN EDWIN LEMASTERS AND BEVERLY J. LEMASTERS, HUSBAND AND WIFE	DEBORAH D. MERCER AND CALVIN P. MERCER, WIFE AND HUSBAND	HARRY LEROY PARRIOTT AND NANCY S. PARRIOTT, HUSBAND AND WIFE	ROBERY LEE SMITH AND BETSY K. SMITH, HUSBAND AND WIFE	JUSTIN SMITH, A/K/A JUSTINE SMITH, A WIDOW	BLYE ULBRICH JENSCHKE AND JIM JENSCHKE, WIFE AND HUSBAND	MARILYN ULBRICH CHALMERS AND ROD N. CHALMERS, WIFE AND HUSBAND	H. JAY ULBRICH, A SINGLE MAN	JANICE R. CROOK, A/K/A JANICE WINGROVE CROOK AND DONALD P. CROOK, A WIEE AND HUSBAND	NANCY L. SNYDER, A/K/A NANCY WINGROVE SNYDER, A WIDOW	KENNETH R. MORRIS AND DAWN E. MORRIS, HUSBAND AND WIFE	JUNE MORRIS, WIDOW	JON DAVID FROMHART, SINGLE	SHRINERS HOSPITALS FOR CHILDREN C/O THE NORTHERN TRUST COMPANY	EDWARD DAVID KNUTH AND KATHY JO KNUTH
NOBLE BURBANA BURGO	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	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
*/01	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+
935	825	825	820	821	821	820	819	819	819	820	819	808	808	808	829	805	PENDING	88
360	258	272	516	24	22	508	303	307	305	506	309	305	309	303	26	580	PENDING	865
2	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
2	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
2	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	Noble Energy Inc to CNX Gas Company LLC: L
Z	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	CNX Gas Company C: LLC to Noble Energy Inc: 37/169
2/6	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	OW Gas Company Noble Energy Inc to LLC to Noble Energy HG Energy II (nc: 37/69 Appalachia LLC: 39/1
	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	c to	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appaiachia 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		Nobie 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	Nobie 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		ш	Noble Energy Inc to HG Energy II Appalachia LLC: MB
HG Energy II Appalachla 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: 41/398	Appalachia LLC to TH Exploration LLC: 41/398	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: 41/398	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: 41/398	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: 41/398	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: 41/398	N/A	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy JI Appalachia, LLC: 988/286

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5-7-5.1	5-7-5.1	5-7-5.1	57-5.1	5-7-5.1	5-8A-15	5-8A-16 5-8A-15	5-84-16	5-84-16	5-8A-16	5-8A-16	5-8A-16	5-84-16	5-8A-16
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MARK ALAN DELBRUGGE & PATRICIA A. DELBRUGGE	SAMUEL O. COEN JR.	C'NTHA JEAN WARD & DALE P. WARD	ALAN GREGORY SCHMITT & LINDALEE SCHMITT	BRUCE SCOTT SCHMITT & JERRI MARIE BLANEY	JUNE MORRIS	MARTHA FRANCES ULCAX, A SINGLE WOMAN SHRINERS HOSPITALS FOR CHILDREN	PATRICIA PARRIOTI, A WIDOW	BETTY JANE PARRIOTT, WIDOW	BLASÉ JOSEPH ULCAK JR., A SINGLE MAN	COURTNEY D. HALL, SINGLE	BRYCE E. ULBRICH AND EDNA M. ULBRICH, HUSBAND AND WIFE	TIMOTHY SCOTT LEMASTERS AND AMY C. LEMASTERS, HUSBAND AND WIFE	MARY L. PARRIOTT, A WIDOW
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	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC
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+
820	816	816	813	813	802	832 PENDING	828	828	829	829	825	827	827
512	259	261	538	244	275	588 PENDING	270	265	127	147	298	162	164
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/N	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
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: 34/177	Noble Energy Inc to CNX Gas Company LLC: 34/177	Noble Energy Inc to CNX Gas Company LLC 33/28	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Noble Energy Inc to CNX Gas Company Noble Energy Inc to CNX Gas Company LLC: ULC to Noble Energy II G Energy II Mrc: 37/1269 Appalacinia LLC: 39/1	CNX Gas Company Noble Energy II: LLC to Noble Energy II Genergy II Appalachia L	CNX Gas Company Noble Energy Inc to:: LLC to Noble Energy HG Energy II Inc: 37/169 Appalachia LLC: 39/1	CNX Gas Company LLC to Noble Energy Inc: 37/x69	CNX Gas Company LLC to Noble Energy Inc: 37/169	Noble Energy Inc to CNX Gas Company Noble Energy Inc to CNX Gas Company LLC; LLC to Noble Energy II HG Energy II Gas Company LC; LLC to Noble Energy Appalachia LLC; 39/169 Appalachia LLC; 39/169	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Noble Energy Inc to HG Energy II Appalachia LLC: 39/	Nobie Energy Inc to HG Energy II	Noble Energy Inc to HG Energy II Appalachia LLC: 39/		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	N/A	N/A	N/A	N/A	N/A
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	Noble Energy Inc to HG Energy II Appalachia LLC: MB	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1 N/A	H-	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	Nobie Energy Inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Nobie Energy inc to HG Energy II Appalachia LLC: 39/1
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/Z86	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 il Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy III Appalachia, LLC: 988/286					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: 41/398	HG Energy II Appalachia LLC to TH Exploration LLC: 41/398	

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	5-8A-15	5-8A-15	5-8A-15	575.1	5-7-5,1	5-7-5.1	575.1	5-7-5.1	5-7-5.1	57-51
	ввв	888B	B B B	**	***	₹	₹	***	***	YYY
	BLYC ULBRICH JENSCHKE AND JMJENSCHKE	MARILYN ULBRICH CHALMERS AND ROD N CHAMBERS	H. JAY ULBRICH, A SINGLE MAN	BEATRICE J. SCHMITT	JANE LOU WILLIAMS AKA JANE LOU DELBRUGGE WILLIAMS & LAURENCE P. WILLIAMS	MARGARET LYNN DELBRUGGE WATSON & JAMES W. WATSON	SUZANNE Q. PAVLIC AKA SUZANNE DELBRUGGE PAVUC	KIMBERLY ANN DELBRUGGE DEGREASE & VINCENT J. DECREASE	WILLIAM D. MARTIN & ANDREA R. MARTIN	WALTER L. DELBRUGGE JR & NORA L. DELBRUGGE
	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC				
	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+
	819	820	819	828	825	825	825	825	618	820
	305	506	309	292	289	264	262	349	298	510
	N/A	N/A	N/A	N/N	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
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: 34/189	Noble Energy Inc to CNX Gas Company LLC: 34/189	Noble Energy Inc to CNX Gas Company LLC: 33/574	Noble Energy Inc to CNX Gas Company LLC: 33/574	Noble Energy Inc to CNX Gas Company LLC: 33/574	Noble Energy Inc to CNX Gas Company LLC: 34/189	Noble Energy Inc to CNX Gas Company LLC: 34/189	Noble Energy Inc to CNX Gas Company LLC: 34/189	Noble Energy Inc to CNX Gas Company LLC: 34/189
CNX Gas Company	CNX Gas Company LLC to Noble Energy	CNX Gas Company LLC to Noble Energy	CNX Gas Company LLC to Noble Energy Inc: 37/169			CNX Gas Company LLC to Noble Energy	CNX Gas Company LLC to Noble Energy	CNX Gas Company Noble Energy I: LLC to Noble Energy II GEnergy II Inc.: 37/169 Appalachia L	CNX Gas Company Noble Energy In: LLC to Noble Energy HG Energy II Inc: 37/169 Appalachia LLC:	CNX Gas Company : LLC to Noble Energy lnc: 37/169
	CNX Gas Company Noble Energy Inc to LLC to Noble Energy HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II	CNX Gas Company Noble Energy Inc to LLC to Noble Energy HG Energy II Jnc: 37/169 Appalachia LLC: 39/1	CNX Gas Company Noble Energy Inc to LLC to Noble Energy HG Energy II Inc: 37/169 Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	CNX Gas Company Noble Energy Inc to LLC to Noble Energy HG Energy II Appalachia LLC: 39/1.	Noble Energy Inc to HG Energy II Appalachia LLC: 39/	Noble Energy Inc to y HG Energy II Appalachia LLC: 39/1	Nable Energy Inc to y HG Energy II	CNX Gas Company Noble Energy Inc to LLC to Noble Energy HG Energy II Appalachia LLC: 39/1
	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	Noble Energy Inc to HG Energy II Appalachia LLC: MB 1 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 1 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392
Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC:	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 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			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	

	825	827	827	1/8+ 825	1/8+ 825	1/8+ 821	1/8+ 821	1/8+ 820	1/8+
147 N/A N/A N/A	298 N/A N/A	162 N/A N/A	164 N/A N/A	260 N/A N/A	272 N/A N/A	24 N/A N/A	22 N/A N/A	508 N/A N/A	903 N/A N/A
Noble Energy inc to CNX Gas Company LLC: N/A N/A N/A N/A N/A N/A N/A N/	Noble Energy Inc to CXIX Gas Company L. N/A N/A N/A 33/574	Noble Energy Inc to CNX Gas Company LLC: N/A N/A N/A 33/574	Noble Energy Inc to CNX Gas Company LLC: N/A N/A 33/574	Noble Energy I OXX Gas Comp N/A N/A N/A 33/57A	Noble Energy Inc to CNX Gas Company LLC: N/A 34/189	Noble Energy Inc to CNX Gas Company LLC: N/A N/A 34/189	Noble Energy/ CIX Gas Comp N/A N/A N/A 34/189	Noble Energy Inc to CNX Gas Company LLC. N/A N/A N/A N/A	Noble Energy Inc to CXX Gas Company LLC. N/A N/A 34/189
Noble Energy Inc to CNX Gas Company Noble Energy Inc to CNX Gas Company Noble Energy Inc to CNX Gas Company Noble Energy Inc to Appalachia LLC. MB HG Energy Inc to Appalachia LLC. MB HG Energy Inc to Appalachia LLC. MB JAJ 492 Appalachia LLC. MB	CNX Gas Company Noble Energy Inc to LC: LLC to Noble Energy HG Energy II Appellachia LLC: 39/1.	ompany LC: LLC to Noble Energy in LC: MC to Noble Energy in LC: MC to Noble Energy in C: Mpaiachia LLC: 39/1 34/592	ompany LLC: LLC to Noble Energy Hot to Hot Energy Inc to Appalachia LLC: MB Appalachia LLC: MB Appalachia LLC: 39/1 34/392	Noble Energy Inc to CNX Gas Company Noble Energy Inc to HG Energy II CNX Gas Company LLC: LLC to Noble Energy HG Energy II Appalachia LLC: MB Appalachia LLC: MB Appalachia LLC: 39/1 34/392	rgy Inc to CtX Gas Company Noble Energy Inc to CtX Gas Company Noble Energy Inc to HG Energy II LCt UC to Noble Energy HG Energy II Appalachia LLC: MB Appalachia LLC: 39/1 34/392	voble Energy Inc to CNX Gas Company Noble Energy Inc to CNX Gas Company Noble Energy Inc to HG Energy II Appalachia LLC. MB Inc: 37/169 Appalachia LLC. MB 34/392	Noble Energy Inc to CNX Gas Company Noble Energy Inc to CNX Gas Company Noble Energy Inc to CNX Gas Company Noble Energy Inc to Appalachia LLC: MB Appalachia LLC: MB Appalachia LLC: MB	ergy Inc to CRX Gas Company Noble Energy Inc to CRX Gas Company Noble Energy Inc to HG Energy II CLC to Noble Energy II GEnergy II Appalachia LLC: MB Appalachia LLC: 39/1 34/592	Company LC: LLC to Noble Energy I MG Energy II Appalachia LLC: MB Appa

Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: gsg8/786	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	Mermorandum 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	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 938/286	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
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 1 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 1. 34/392	Nobie Energy Inc to HG Energy II Appaiachia LLC: MB 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 1. 34/392	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392
Noble Energy Inc to HG Energy II	Noble Energy Inc to HG Energy It Appalachia LLC: 39/	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/	Noble Energy Inc to y HG Energy II	Noble Energy inc to HG Energy II Appalachia LLC: 39/1	Noble Energy Inc to HG Energy II Appalachia LLC: 39/	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Nobie Energy Inc to HG Energy II Appalachia LLC: 39/	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1
CNX Gas Company	CNX Gas Company Noble Energy Inc to LLC to Noble Energy HG Energy II	CNX Gas Company Noble Energy Inc to LLC to Noble Energy HG Energy II nc: 37/169 Appalachia LLC: 39/	CNX Gas Company Noble Energy LLC to Noble Energy HG Energy II Inc. 37/169 Appalachia LI	CNX Gas Company Noble Energy Inc to LLC to Noble Energy HG Energy II nc: 37/169 Appalachia LLC: 39/1	CNX Gas Company LLC to Noble Energy Inc: 37/169	CNX Gas Company Noble Energy Inc to LLC to Noble Energy HG Energy II Inc: 37/169 Appalachia LLC: 39/	CNX Gas Company LLC to Noble Energy Inc: 37/169	CNX Gas Company : LLC to Noble Energy Inc: 37/169	CNX Gas Company Noble Energy Inc to LLC to Noble Energy HG Energy II Inc: 37/169 Appalachia LLC: 39/1	CNX Gas Company LLC to Noble Energy Inc: 37/169
	Noble Energy Inc to CNX Gas Company LLC: 134/309	Noble Energy Inc to CNX Gas Company LLC: 34/309	Noble Energy Inc to CNX Gas Company LLC: 33/574	Nobie Energy Inc to CNX Gas Company LLC: 33/574	Noble Energy Inc to CNX Gas Company LLC: 33/574	Nobie Energy inc to CNX Gas Company i.L.C: 33/574	Noble Energy Inc to CNX Gas Company LLC: 33/574			
	N/A	V/A	N/A	Z/A	N/A	N/>	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
	215	588	ან	8	45	43	133	305	270	265
	1/8+	1/8+ 832	1/8+ 831	1/8+ 831	1/8+ 829	1/8+ 829		1/8+ 828	1/8+ 828	1/8+ 828
	NOBLE ENERGY INC	NOBLE ENERGY INC			NOBLE ENERGY INC	NOBLE ENERGY INC				
	DEBKA ANN BUTCHER AND EARL Y BUTCHER	MARTHA FRANCES ULCAK	NANCY L SNYDER AKA NANCY WINGROVE SNYDER	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	PATRICA PARRIOTT	BETTY JANE PARRIOTT, WIDOW
					BBB			88B		888
	5-8A-15	5-84-15	5-84-15	5-84-15	5-84-15	5-84-15	5-8A-15	5-8A-15	5-8A-15	5-8A-15
	Q078626037	Q078626036	Q078626035	Q078626034	Q078526033	Q07862 6 032	Q078676030	Q078526029	Q078626028	Q078525027

	624124	0079727000	Q079727000	C079730000	0083689000	083689000	Q083677000	0083704000	PENDING	Q076644000	Q083715000	Q076643000
П Ј Д	57.15	5-8A-1	5-8A-2	5-8A-3	5-8A-4	5-8A-6	5-8A-5	5-8A-7	5-8-2	5-8A-55	5-8A-9	5-9A-8
	NNN	MNM	E	XXX	ttt	=	HHH	GGG	FFF	EE EE	000	222
ETIOT ESANK & MARTIA	KIRKMAN, CASPER SANFORD; KIRKMAN, LILLIAN E	GRAYSVILE CALVARY UNITED METHODIST CHURCH	GRAYSVILLE CALVARY UNITED METHODIST CHURCH	GRAYSVILLE CALVARY UNITED METHODIST CHURCH	CLAYTON LEE PERSINGER AND LETTIE LEE PERSINGER	CLAYTON LEE PERSINGER AND LETTE LEE PERSINGER	JOHN K PERSINGER AND DEBRAK PERSINGER	ANNE CKEM	CNX GAS COMPANY LLC	JAMES B MIDCAP AND DIANA K MIDCAP	KEVIN W. WALLANCE, A MARRIED MAN DEALING IN HIS SOLE AND SEPARATE PROPERTY	Adros hasor nhor
	THE M A HANNA COMPANY	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	TriEnergy Holdings, LLC	TRIENERGY HOLDINGS LLC	TRIENERGY HOLDINGS LLC	TRIENERGY HOLDINGS LLC	TH EXPLORATION LLC	NOBLE ENERGY INC	TRIENERGY HOLDINGS LLC	NOBLE ENERGY INC
5	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+
}	311	811	811	811	842	714	711	719	1039	803	836	803
	390	642	646	646	363	97	300	352	1	336	463	341
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A
<u>:</u>	The M A Hanna Company to Pittsburgh Consolidation Coal Company: 315/417	N/A	N/N	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A
The M A Hanna Company to Pittsburgh Consolidation Coal	Pittsburgh Consolidation Coal Company Changed its name to Consolidation Coal Company: CB	N/A	N/A	A/N	N/A	N/A	N/A	N/A	A/N	Z/P		N/A
Pittsburgh Consolidation Coal Company Changed it Company Changel it Company: CB	Pittsburgh Consolidation Coal Consolidation Coal Company Changed its Company, a PA corp name to Consolidation to Consolidation Coal Coal Company. CB Company, a Delware 6/203	N/A	N/N	A/N	N/A	N/A	N/A	N/A	N/A	N/A		N/A
Pittsburgh Consolidation Coal Consolidation Coal Company, Changed its Company, CNX Land name to Consolidation Resources Inc, Etc to Coal Company. CB Class Company LCB Consolidation Resources Inc, Etc to Coal Company. CB C	Consolidation Coal Company, CNX Land Resources Inc, Et to CNX Cas Company LLC: 646/493	N/A	N/A	N/A	TriEnergy Holdings LLC to NPAR LLC: 25/463	TriEnergy Holdings LLC to NPAR LLC: 25/463	TriEnergy Holdings LLC to NPAR LLC: 25/463	TriEnergy Holdings LLC to NPAR LLC: 25/463	N/A	N/A	TriEnergy Holdings LLC to NPAR LLC: 25/463	Noble Energy Inc to CNX Gas Company LLC: 33/28
CNX Gas Company CNX Gas Company CNX Gas Company	CNX Gas Company to Noble Energy Inc:	N/A	N/A	N/A	NPAR LLC to C Chevron USA Inc: 26/269	NPAR LLC to C Chevron USA Inc: 26/269	NPAR LLC to C Chevron USA Inc: 26/269	NPAR LLC to .C Chevron USA Inc: 26/269	N/A	CNX Gas Company LLC to Noble Energy Inc: 37/169	NPAR LLC to .C Chevron USA inc: 26/269	CNX Gas Company Noble Energy C: LLC to Noble Energy II G: Energy II G: Appalachia Li
Nobie Energy In Nobie Energy In HG Energy II Applied in 1 of 1 o	CNX Gas Company Noble Energy Inc to to Noble Energy III Appaiachia LLC: 39/1	N/A	N/A	N/A	NPAR LLC to Chevron USA Inc: 756/307	NPAR LLC to Chevron USA Inc: 756/307	NPAR LLC to Chevron USA Inc: 756/307	NPAR LLC to Chevron USA Inc: 756/307	N/A	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	NPAR LLC to Chevron USA Inc: 756/307	/ Inc to
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	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Nobie Energy Inc to HG Energy II Appalachia LLC: 39/1	TriEnergy Holdings Inc & TriEnergy Inc to Chevron USA Inc: 28/356	-		TriEnergy Holdings Inc & TriEnergy Inc to Chevron USA Inc: 28/356		Noble Energy Inc to HG Energy II Appalachia LLC: MB	& TriEnergy Incidence	Noble Energy Inc to HG Energy II Appalachia LLC: MB 34/392
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 Agreemeni between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	C Chevron USA Inc to TH Exploration LLC: Recording Pending	Chevron USA Inc to TH Exploration LLC: Recording Pending		C Chevron USA Inc to TH Exploration LLC: Recording Pending		Memorandum of Operating Agreemen' between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Chevron USA inc to TH Exploration LLC: Recording Pending	Operating Agreement between TH Exploration LLC and HG Energy (I Appalachia, LLC: 988/286

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F 72	5-7-5	5-7-14.2	5-7-14.3	5-7-14.1	5-7-14	5-7-10	5-7-10.1	5-7-11	5-7-12	5-7-13
D D D D D D D D D D D D D D D D D D D	727	XXX	MMM	WW	טטט	-	SSS	RRR	000	ddd:
GATTS I LOVO D & MARY WATER	KNUTH, GEORGE A & KELLY A	LACY MIDCAP ET AL	LACY MIDCAP ET AL	LACY MIDCAP ET AL	LACY MIDCAP ET AL	WILKINSON, RAYMOND M & ELSE M	WILKINSON, RAYMOND M & ELSIE M	MELVIN E DINGER & LENA M DINGER	EDWIN C. MILLER & KIMBERLY ANN MILLER	KATHRYN VENNON ET AL
THE MARKA COMBANY	MCERDY COAL COMPANY	THE M A HANNA COMPANY	THE M A HANNA COMPANY	THE M A HANNA COMPANY	THE M A HANNA COMPANY	COMPANY COAL	COMPANY COAL	TRIENERGY HOLDINGS LLC	NOBLE ENERGY INC	THE M A HANNA COMPANY
1/81	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+
3	671	311	311	311	311	311	311	712	797	311
	385	324	324	324	324	379	379	558	646	467
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
The M A Hanna Company to Pittsburgh Consolidation Coal	N/A	N/A	N/N	N/A	N/A	N/A	N/A		N/A	N/A
Pittsburgh Consolidation Coal Company Changed its name to Consolidation Coal Company: CB	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	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	The M A Hanna Company to Pittsburgh Consolidation Coal Company: 315/417
Consolidation Coal Company, CNX Land on Resources Inc. Etc to CNX Gas Company	Consolidation Coal Company, McElroy Coal Company, Etc to Consol Mining CompNY lie: 811/1	Pittsburgh Consolidation Coal Company Changed its name to Consolidation Coal Company: CB 6/203	Pittsburgh Consolidation Coal Company Changed i name to Consolidati Coal Company: CB 6/203	Pittsburgh Consolidation Coal Company Changed its name to Consolidation Coal Company: CB 6/203	Pittsburgh Consolidation Coal Company Changed I name to Consolidat Coal Company: CB 6/203	Pittsburgh Consolidation Coal Company Changed its name to Consolidation Coal Company: CB 6/203	Pittsburgh Consolidation Coal Company Changed in name to Consolidat Coal Company: CB		N/A	
		Consolidation Coal Company Changed its Companies Consolidation Coal Company Consolidation Company, etc to CNX Coal Company. CB Gas Company LLC: 6/203 646/493	Piltsburgh Consolidation Coal Company Changed its Consolidation Coal Company Company. et to CNX Coal Company. CB Gas Company LLC: 6/203	ts Consolidation Coal ion Company, etc to CNX Gas Company LLC: 646/493	Pittsburgh Consolidation Coal Company Changed its Consolidation Coal mane to Consolidation Company, etc to CNX Coal Company. CB Gas Company LLC: 6/203	Consolidation Coal Its Company, CNX Land ion Resources Inc, Etc to CNX Gas Company LLC: 646/493	Pittsburgh Consolidation Coal Company Changed its Company, CNX Land Company Consolidation Resources Inc, Etc to Coal Company. CB 6/203 64/203	TriEnergy Holdings LLC to NPAR LLC: 25/463	Noble Energy Inc to CNX Gas Company LLC: 34/167	Pittburgh Consolidation Coal Company Changed its Company, CNX Land Company Changed its Company, CNX Land Coal mane to Consolidation Resources inc, Et co Coal Company, CB G/203 G46/493
CNX Gas Company Noble Energy to Noble Energy in Control Ho Energy in Control House in Contr	Consol Mining CNX Gas Company Noble Energy Gompany to CNX Gas to Noble Energy Inc. HG Energy II Company LLC: 839/286 909/94 Appalachia L	CNX Gas Company to Noble Energy Inc: 909/94	CNX Gas Company Noble Energy to Noble Energy Inc.: HG Energy Inc.: HG Energy Inc.: HG Energy III	CNX Gas Company to Noble Energy Inc: 909/94	CNX Gas Company to Noble Energy Inc: 909/94	ÿ	Ú.	NPAR LLC to LLC Chevron USA Inc: 3 26/269	CNX Gas Company LC: LLC to Noble Energy Inc: 37/169	CNX Gas Company LC: to Noble Energy Inc: 909/94
Noble Energy Inc to HG Energy Inc to Angularkin Inc. 2014 1031/4031	Noble Energy Inc to E: HG Energy II	Noble Energy Inc to C: HG Energy II	Noble Energy Inc to c: HG Energy II	Noble Energy Inc to C: HG Energy II	Noble Energy Inc to C: HG Energy II	CNX Gas Company CNX Gas Company to to Noble Energy Inc. Noble Energy Inc. 909/94	CNX Gas Company CNX Gas Company to to Noble Energy Inc: Noble Energy Inc: 851/220	NPAR LLC to Chevron USA Inc: 756/307	Noble Energy Inc to sy HG Energy II	Noble Energy Inc to c: HGEnergy II Appalachia LLC: 39/1
Noble Energy Inc to HG Energy II Appalachia LLC:	Noble Energy Inc to HG Energy II Appalachia LLC: '1 931/43	Noble Energy Inc to HG Energy II Appalachia LLC: '1 931/43	Noble Energy Inc to HG Energy II Appalachia LLC:	Noble Energy Inc to HG Energy II Appalachia LLC: 1. 931/43	Nobie Energy Inc to HG Energy II Appalachia LLC: 1, 931/43	Noble Energy inc to HG Energy II Appalachia LLC: 931/43	Noble Energy Inc to O HG Energy II Appalachia LLC: 931/43	TriEnergy Holdings Inc & TriEnergy Inc to & TriEnergy Inc to Chevron USA Inc: 28/355	P	Noble Energy Inc to HG Energy II Appalachia LLC: 11. 931/43
Memorandim of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/786	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Apparachia, LLC: 988/286	Memoral aum or 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	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 Appaiachia, 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: Recording Pending	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LC and HG Energy II Appalachia, LC: 988/286

N/A 33/5/4	N/A	N/A	Z A	825 264	1/8+	NOBLE ENERGY INC	MARGARET LYNN DELBRUGGE WATSON & JAMES W. WATSON JANE LOU WILLIAMS AKA JANE LOU DELBRUGGE WILLIAMS & LAURENCE P,	588 8	5-7-6	
	,	NA								
	N/A	N/A				NOBLE ENERGY INC	SUZANNE O, PAYLIC AKA SUZANNE DELBRUGGE PAYLIC	73 73 73 73	5.7.6	
Noble Energy Inc to CNX Gas Company LLC: 94/189	N/A	N/A	N/A	825 349		NOBLE ENERGY INC	KIMBERLY ANN DELBRUGGE DECREASE & VINCENT J. DECREASE	8888	5-7-6	
	N/A	N/A				NOBLE ENERGY INC	WILLIAM D. MARTIN & ANDREA R. MARTIN	8888	5-7-6	
Noble Energy Inc to CXX Gas Company Noble Energy ICXX Gas Company LLC; LLC to Noble Energy IH Energy II N/A 34/189 Appalachia L	N/A	N/A	N/A	820 510	1/8+	NOBLE ENERGY INC	WALTER L DELBRUGGE JR & NORA L DELBRUGGE	8888	5-7-6	
Noble Energy Inc to CIX Gas Company Noble Energy In CIX Gas Company LLC: LLC to Noble Energy If Energy In CIX Gas Company LLC: LLC to Noble Energy If Energy In Cix 37/169 Appalachia L	N/A	N/A	N/A	820 512	1/8+	NOBLE ENERGY INC	MARK ALAN DELBRUGGE & PATRICIA A. DELBRUGGE	8888	5-7-6	
Noble Energy Inc to CIXX Gas Company Noble Energy In CIXX Gas Company LLC; LLC to Noble Energy II GEnergy II N/A 34/189 Appalachia LI	N/A	N/A	1 N/A	816 251	1/8+	NOBLE ENERGY INC	CYNTHIA JEAN WARD & DALE P. WARD	8888	5-7-6	

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ALAN GREGORY SCHMITT & LINDA LEE SCHMITT

NOBLE ENERGY INC

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N/A

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BRUCE SCOTT SCHMITT & JERRI MARIE BLANEY

NOBLE ENERGY INC

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N/A

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Operating Agreement between TH between TH Appalachia LLC: 39/1 34/392

Noble Energy Inc to Ho Energy II Ho Energy II Appalachia LLC: MB Appalachia LLC: Menorandum of Operating Agreement Hollengy II Appalachia LLC: MB Appalachia LL

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BEATRICE J. SCHMITT

NOBLE ENERGY INC

1/8+

828

292

N/A

N/A

N/A

N/A

Noble Energy Inc to
CNX Gas Company Lt.C: LLC to Noble Energy Inc to Hospital Lt.C: MB
13/574 Inc: 37/159 Appalachia Lt.C: MB
24/392

	0074011008	0074011007	0074011006	0.074011005	0074011003	624080	624074	624081	Q090257000	Q076636016
	5-6-3.1	5-6-3.1	5-6-3.1	5-6-3.1	5-6-3.1	5-6-3.1	5-6-3.1	5 -6-4	5-7-6	5-7-6
	gggg	DODD	gaaa	DODO	DDDD	DDDD	gaaa	cccc	8888 B	99 B
ANDRY MUTTER NICH WICEBAAN	JANE WITTEN VOTH	SUSAN WITTEN NEAL MYERS ET AL	FRANCES GALE NEAL	ANN ALEXANDER	JOSEPH MOORE NEAL	GATTS, ELIZABETH R.J. & HARLEY	GATTS, ALICE	COX, HANNAH O & J FRANK	KNUTH, GEORGE A & KELLY A	SAMUEL O. COEN JR.
NORIE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	THE M. A. HANNA COMPANY	THE M. A. HANNA COMPANY	THE M A HANNA COMPANY	MCELROY COAL COMPANY	NOBLE ENERGY INC
1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+
χ,	88 15 33	815	851	853	859	290	282	290	671	813
216	306	375	218	310	512	97	394	110	385	255
Z 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/N	N/A	N/N	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
Z/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A
2	N/A	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 Company: 387/363	The M A Hanna Company to Pittsburgh Consolidation Coal Company: 315/417	Consolidation Coal Company, McElroy Coal Company, Etc to Consol Mining CompNY lic: 811/1	N/A
N/A	N/A	N/A	N/A	N/A	N/A	Consolidation Coal Company, CNX Land Resources inc, Et Al to CNX Gas Company LLC	Consolidation Coal Company, CNX Land Resources Inc, Et Al to CNX Gas Company LLC: L 646/493	Pittsburgh Consolidation Coal Company Changed its name to Consolidation Coal Company: CB 6/203	Consol Mining Company to CNX Gas Company LLC: 839/28	N/A
N/A	N/A	N/A	N/A	N/A	N/A	Consolidation Coal Company, CMX land Company, CMX land CNX Gas Company CNX Gas Company CNX Gas Company LLC to Noble Energy LLC to Noble Energy LLC 10 Noble Energy LLC 10 Noble Energy LLC 10 Noble Energy LLC 10 Noble Energy	INX Gas Company LIC to Noble Energy nc: 752/66	Consolidation Coal Company, CNX Land Resources Inc, Etc to CNX Gas Company LLC: 645/493	Consol Mining CNX Gas Company Noble Energy Inc to Company to CNX Gas to Noble Energy Inc: HG Energy II COMPANY LC: 839/286 909/94	N/A
N/A	N/A	N/A	N/A	N/A	N/A		CNX Gas Company LLC to Noble Energy Inc: 909/94	CNX Gas Company to Noble Energy Inc:		Noble Energy Inc to HG Energy I! 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	Nobie Energy Inc to HG Energy II	Noble Energy Inc to HG Energy II Appalachia LLC: 931/43	Noble Energy Inc to HG Energy II Appalachia LLC: 931/43	Noble Energy Inc to HG Energy II Appalachia LLC: 931/43	Noble Energy Inc to HG Energy II Appalachia LLC: 931/43	Nobie Energy Inc to HG Energy II Appalachia LLC: MB 34/392
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 or 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		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	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: 988/256	

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7.	S-6-3	5-6-3	U5 다 났	5-6-3	5-6-3	5-6-3	5-6-3	\$-6-3	5-6-3	5 -6-3
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IANE WITTEN VOTE	SUSAN WITTEN NEAL MYERS ET AL	FRANCES GALE NEAL	ANDER NACESTA	MARGERY I. WITTEN	JOSEPH MOORE NEAL	DOROTHY ANN NEAL	RINE, G W & BESSIE J	GATTS, LLOYD Q & MARY WOLFE	GATTS, EUZABETH R J & HARLEY	GATTS, AUCE
NOR! E NERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	NOBLE ENERGY INC	PIT'SBURGH CONSOLIDATION COAL COMPANY	THE M. A. HANNA COMPANY	THE M. A. HANNA COMPANY	ΤΗΕ Μ. Α. ΗΑΝΝΑ COMPANY
1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+	1/8+
) J	815	851	853	851	859	851	313	290	290	282
3 0 5	375	21.8	310	398 8	512	396	200	2	97	394
N.	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	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	N/A	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 Coal Company to Consolidation Coal Company: 5/203	Name Change: Pittsburgh Consolidation Coal Company to Consolidation Coal Company: 6/203
N/A	N/A	N/A	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 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	N/A	N/A	N/A	N/A	N/A	N/N	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 ILC	Consolidation Coal Company, CNX Land Resources inc, Et Al to CNX Gas Company LLC: 646/493
N/A	N/A	N/A	N/A	N/A	N/A	N/A			Consolidation Coal Company, CWL land Resources Inc, Et Al to CIXX Gas Company CWX Gas Company CIXX Gas Company LLC. LLC to Noble Energy LLC to Noble Energy G45/493 Inc: 752/66 Inc: 909/94	CNX Gas Company LLC to Noble Energy Inc: 752/66
N/A	N/A	N/A	N/A	N/A	N/A	N/A	CNX Gas Company CNX Gas Company LLC to Noble Energy LLC to Noble Energy Lnc: 752/66 Inc: 909/94	CNX Gas Company CNX Gas Company LLC to Noble Energy LLC to Noble E	CNX Gas Company LLC to Noble Energy Inc: 909/94	COIX Gas Company LLC to Noble Energy LLC to Noble Energy Inc: 752/66 Inc: 909/94
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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 if Appalachia, LLC: 988/286	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy il 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	Memorandum or 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	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

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ASHLAND OIL & REFINING CO.	ASHLAND OIL & REFNING CO.	STEIGNER, FREDERICK J. STEIGNER, ANNA KATHERYNE	GATTS, EUZABETH R J & HARLEY	MARY WITTEN NEAL WISEMAN
THE M A HANNA COMPANY	CONSOLIDATION COAL.	CONSOLIDATION COAL	THE M A HANNA COMPANY	NOBLE ENERGY INC
1/8+	1/8+	1/8+	1/8+	1/8+
277	277	282	290	851
490	490	61	97	216
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	N/A	N/A
N/A	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	N/A
The M A Hanna Company to Pittsburgh Consolidation Coal Company: 315/417	Pittsburgh Consolidation Coal Company to Consolidation Coal Company: 387/363	Pittsburgh Consolidation Coal Company to Consolidation Coal Company: 387/363	The M A Hanna Company to Pittsburgh Consolidation Coal Company: 315/417	N/A
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MMK 0988 PAGE 0286

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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.
- 3. Each Non-Operator grants to Operator a lien upon its oil and gas rights, oil and 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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WV Department of Environmental Protection 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 \$

ASSIGNMENT AND CONVEYANCE

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THIS ASSIGNMENT AND CONVEYANCE (the "Assignment") is made and entered into this day of August , 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:

- 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, 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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WV Department of Environmental Protection MUK 0043 PAGE 0164

STATE OF WEST VIRGINIA §
COUNTY OF MARSHALL §

ASSIGNMENT AND CONVEYANCE

THIS ASSIGNMENT AND CONVEYANCE (the "Assignment") is made and entered into this day of February, 2019 (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 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. <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. 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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WV Department of Environmental Protection STATE OF WEST VIRGINIA

COUNTY OF MARSHALL

ASSIGNMENT AND BILL OF SALE

§

This ASSIGNMENT AND BILL OF SALE (this "Assignment") dated as of Y 2019 (the "Signing Date"), but effective from and after 7:00 a.m., Eastern Standard Time on February 1, 2019 (the "Effective Date"), is made by Chevron U.S.A. Inc., a Pennsylvania corporation, with an address at 700 Cherrington Parkway, Coraopolis, PA 15108 ("Chevron" or "Assignor") to TH Exploration II, LLC and TH Exploration, LLC, Texas limited liability companies, with an address at 1320 S. University Drive, Suite 500, Fort Worth, TX 76107 (collectively "Assignee") and is accepted by Assignee upon the following terms and conditions.

RECITALS

- A. Assignor desires to sell, convey, transfer, assign and deliver to Assignee Assignor's Crawford 1 well and certain related assets, including certain leasehold interests, located in Marshall County, West Virginia.
- B. Through an Acreage Trade Agreement to be executed contemporaneously with this Assignment, Assignor desires to transfer, convey and assign to Assignee certain of Assignor's oil and gas leasehold interests located in Marshall County, West Virginia in exchange for the transfer, conveyance and assignment to Assignor by Assignee certain of Assignee's oil and gas leasehold interests located in Marshall County, West Virginia.
- C. In consideration of the mutual promises set out in this Assignment, including execution of the Acreage Trade Agreement, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Parties agree to be bound by the terms of this Assignment.

1. DEFINITIONS

- 1.1 **Definitions.** As used in this Assignment, these words and expressions have the following meanings:
 - "Acreage Trade Agreement" means that certain Acreage Trade Agreement by and between Chevron U.S.A. Inc. and TH Exploration, LLC with an Effective Date of February 1, 2019 to be contemporaneously executed with this Assignment.
 - "Act" has the meaning given to such term in Section 9.1(C).
 - "Affiliate" means any legal entity which controls, is controlled by, or is under common control with, another legal entity. An entity is deemed to "control" another if it owns directly or indirectly at least fifty percent of either of the following: (A) the shares entitled to vote at a general election of directors of such

Page 1 of 40

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WV Department of Environmental Protection BOOK 0 0 4 1 PAGE 0 3 9 8

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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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MAY 17 2019

WV Department of Environmental Protection

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.
- 3. Each Non-Operator grants to Operator a lien upon its oil and gas rights, oil and 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.

Office of Oil and Gas
MAY 17 2019

WV Department of Environmental Protection

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 August , 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:

- 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, 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

Office of Oil and Gas
MAY 17 2019

WV Department of Environmental Protection BOX 0043 PAGE 0164

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 royally 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.

Office of Oil and Gas
MAY 17 2019

WW Department of Environmental Protection



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-9HU

Subject: Marshall County Route 74 and County Route 76 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 as well as County Route 76 in the area reflected on the Michter N-9HU 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

any thele

Email: amiller@tug-hillop.com

Office of Oil and Gas
MAY 17 2019

WW 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**

Date of Notice Certification: 05/09/2019			API No. 47- 051				
		Ope	Operator's Well No. Michter N-9HU				
		Wel	II Pad Name: Michter				
Notice has l							
Pursuant to th	e provisions in West Virginia Code §	22-6A, the Operator has provided	I the required parties w	rith the Notice Forms listed			
	tract of land as follows:	_					
State: West Virginia County: Marshall District: Franklin			ting: 517,332.16	g: 4,405,908.21			
		Nor	<u> </u>				
		Public Road Access:		Rines Ridge Road (County Route 76)			
Quadrangle:	Powhatan Point 7.5'	Generally used farm n	name: Larry W. Dunlap	and Charles Leroy Dunlap			
Watershed:	Fish Creek (HUC 10)						
it has provide information re of giving the requirements Virginia Code	the secretary, shall be verified and shed the owners of the surface describe equired by subsections (b) and (c), sec surface owner notice of entry to sur of subsection (b), section sixteen of e § 22-6A-11(b), the applicant shall te have been completed by the applicant	ed in subdivisions (1), (2) and (4 tion sixteen of this article; (ii) that vey pursuant to subsection (a), so this article were waived in writing and proof of and certify to the se	4), subsection (b), sec at the requirement was section ten of this articing by the surface ow	tion ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice vner; and Pursuant to West			
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the required		Notice Certification	OOG OFFICE USE			
*PLEASE CHECK ALL THAT APPLY				ONLY			
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED SEISMIC ACTIVITY WAS CO		☐ RECEIVED/ NOT REQUIRED			
■ 2. NO	TICE OF ENTRY FOR PLAT SURVI	EY or \square NO PLAT SURVEY W	WAS CONDUCTED	☐ RECEIVED			
□ 3. NO		NOTICE NOT REQUIRED NOTICE OF ENTRY FOR PLATWAS CONDUCTED or	I	☐ RECEIVED/ NOT REQUIRED			
		☐ WRITTEN WAIVER BY S (PLEASE ATTACH)	SURFACE OWNER	Or REO			
■ 4. NO	ΓΙCE OF PLANNED OPERATION			Office RECEIVED RECEIVED MAY 17 2019			
■ 5. PUE	BLIC NOTICE			RECEIVED 17 2019			
■ 6. NO	TICE OF APPLICATION			RECEIVED RECEIVED RECEIVED RECEIVED 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.

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, LLC Address: 380 Southpointe Boulevard, Plaza II, Suite 200

By: Amy L. Miller Charlet Canonsburg, PA 15317

Its: Permitting Specialist Facsimile: 412-338-2030

Telephone: 724-749-8388 Email: amiller@tug-hillop.com

COMMONWEALTH OF RENNSYLVANIA

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 9th 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.

Office of Oil and Gas
MAY 17 2019

Environmental Protection

Notary Public

WW-6A (9-13)

API NO. 47- 051 OPERATOR WELL NO. Michter N-9HU
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) ☐ REGISTERED ☑ METHOD OF DELIVERY THAT REQUIRES A ☐ PERSONAL **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: RECEIVED Office of Oil and Gas ☑ SURFACE OWNER(s) ☑ COAL OWNER OR LESSEE Name: Larry W. and Barbara E. Dunlap (Pad and Access Road) Name: NX Resources, LLC - Attn: Casey Saunders MAY 17 2019 Address: 1000 CONSOL Energy Drive Address: 1549 Irish Ridge Road Cameron, WV 26033 Canonsburg, PA 15318 Environmental Protection 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) 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: Name: Address: Address: □ OPERATOR OF ANY NATURAL GAS STORAGE FIELD ☐ SURFACE OWNER(s) (Impoundments or Pits) Name: Name: Address: Address: *Please attach additional forms if necessary

WW-6A (8-13)

API NO. 47- 051

OPERATOR WELL NO. Michter N-9HU

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 www.dep.wv.gov/oil 7 2019

Well Location Restrictions

Environmental Protection Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six 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

OPERATOR WELL NO, Michter N-9HU

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 comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the construction of the applicant's proposed well work within thirty days. application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to The Gas MAY 17 ogig location or construction of the applicant's proposed well work to the Secretary at: Environmental Florida

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

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.

WW-6A (8-13)

API NO. 47-051 -

OPERATOR WELL NO. Michter N-9HU 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.

MAY 17 2019
Em. My Danamant of

WW-6A (8-13)

API NO. 47-051 OPERATOR WELL NO. Michter N-9HU
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 tille

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 deprivacyofficer@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 2-10-202

Office of Oil and Gas

MAY 17 2019

Environmental Protection

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

WATER WELL REPORT

Well: MICHTER N-9HU

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 330-718-0404 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	



WW-6A **PROPOSED** SUPPLEMENT PG 1 MICHTER N-9HU There appears to be Five (5) possible water sources within 2,000'. ROST LANE LONG RUN CENTER OF PAD NAD 1983 LAT:39.802901 LON:-80.797141 MICHTER 2,000 radius N-9HU RINES RIDGE FARMALL, PEAL DRIVE-494510851 **OPERATOR** TOPO SECTION LEASE NAME TUG HILL TUG HILL OPERATING, LLC POWHATAN POINT 7.5' MICHTER 380 SOUTHPOINTE BLVD SUITE 200 OPERATING SCALE: DATE: CANONSBURG, PA 15317 1" = 1000' DATE: 2-4-2019

WW-6A3 (1/12)

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

	quirement: Notice shall be provided	at least SEVEN (7) day	s but no more than	FORTY-FIVE (45) days prior to		
entry	1/14/2010 Data of Diagram at	30 . 4 1/01/0010				
Date of Notice:	1/14/2019 Date of Planned	Entry: 1/21/2019				
Delivery method pursuant to West Virginia Code § 22-6A-10a						
☐ PERSONA	PERSONAL REGISTERED METHOD OF DELIVERY THAT REQUIRES A					
SERVICE	MAIL					
on to the surface but no more than beneath such trac owner of mineral and Sediment Co Secretary, which	ontrol Manual and the statutes and rule statement shall include contact informate owner to obtain copies from the sec	to filing a permit application filing a permit application of the surface owner to section thirty-six, are tax records. The notice as related to oil and gas mation, including the ad-	ation, the operator icle. Such notice s of such tract; (2) t ticle six, chapter to shall include a sta exploration and pr	shall provide notice of planned entry hall be provided at least seven days o any owner or lessee of coal seams wenty-two of this code; and (3) any tement that copies of the state Erosion roduction may be obtained from the		
SURFACE	OWNER(s)	■ COAL	OWNER OR LES	SSEE		
	d Barbara E. Dunlap (Pad and Access Road)		Name: CNX Land Resources, LLC Attn: Casey Saunders			
Address: 1549 Irish			Address: 1000 CONSOL Energy Drive			
Cameron, WV 26033	a a	Canonsburg, P.				
Name: Charles Lero	by Dunlap (Pad and Access Road)					
Address: 21 Gypsy	y Drive	MINE	RAL OWNER(s)			
Moundsville, WV 2604	41		Name: Larry W. and Barbara E. Dunlap (see attached list)			
Name: Karen Sue R	Reed and Clyde Reed (Well Pad)		Address: 1549 Irish Ridge Road			
Address: 100 Orchard Lane			Cameron, WV 26033			
Moundsville, WV 26041		*please attach	*please attach additional forms if necessary			
a plat survey on State: w		Approx. Latitu	de & Longitude:	operator is planning entry to conduct 39.8027785; -80.7973528		
		Public Road A	ccess:	Rines Ridge Road (County Route 76)		
_	ranklin	Watershed:		Fish Creek (HUC 10)		
Quadrangle: Po	owhatan Point 7.5'	Generally used	l farm name:	Larry Dunlap, et al		
Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57 th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx .						
Notice is hereb	by given by:					
	Tug Hill Operating, LLC	Address:	ddress: 380 Southpointe Boulevard, Plaza II, Suite 200			
Telephone:	724-749-8388		Canosnburg, PA 15317			
77		724-338-2030				
Oil and Gas P	rivacy 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.

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

WELL: MICHTER N-9HU

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 WW-6A5 (1/12)

Operator Well No. Michter N-9HU

Notice Time Ro Date of Notice:	equirement: notice shall be provided no later Date Permit Application			application.	
Delivery metho	od pursuant to West Virginia Code § 22-6A-	-16(c)			
CERTIFIE RETURN		D IVERY			
return receipt re the planned ope required to be p drilling of a ho damages to the	Va. Code § 22-6A-16(c), no later than the dequested or hand delivery, give the surface owneration. The notice required by this subsection rovided by subsection (b), section ten of this a rizontal well; and (3) A proposed surface use surface affected by oil and gas operations to the required by this section shall be given to the section of the sectio	ner whose land ion shall includer ticle to a surface and compens ne extent the da	will be used for the copy are owner whose ation agreemen mages are comp	or the drilling of a horize of this code section; (e land will be used in cot t containing an offer consable under article s	ontal well notice of 2) The information conjunction with the of compensation for ix-b of this chapter.
	sh Ridge Road	Name: L Address	(ann Sue Ree and C : 100 Orchard Lane lle, WV 26041	lyde Reed (See attached list)	
operation on the State: County: District: F	st Virginia Code § 22-6A-16(c), notice is herel e surface owner's land for the purpose of drill West Virginia Marshall Franklin	ing a horizonta UTM NAD 8 Public Road A	l well on the tra Basting: Northing: Access:	ct of land as follows: 517,332.16 4,405,908.21 Rines Ridge Road (County Ro	oute 76)
	Powhatan Point 7.5' Fish Creek (HUC 10)	Generally use	d farm name:	Larry W. Dunlap and Charles	Leroy Dunlap
to be provided horizontal well; surface affected information rela	st Virginia Code § 22-6A-16(c), this notice she by W. Va. Code § 22-6A-10(b) to a surface and (3) A proposed surface use and compens if by oil and gas operations to the extent the coated to horizontal drilling may be obtained for coated at 601 57th Street, SE, Charleston,	e owner whose sation agreement damages are control the Secret	land will be unt containing an ompensable und ary, at the WV	used in conjunction with offer of compensation er article six-b of this	th the drilling of a for damages to the chapter. Additional onmental Protection
Well Operator:	Tug Hill Operating, LLV	Address:	380 Southpointe Bo	ulevard, Plaza II, Suite 200	Office RECEN
Telephone:	724-749-8388		Canonsburg PA 15	317	Of Oil and
Email:	amiller@tug-hillop.com	Facsimile:	724-338-2030		MAY 17 Gas
	rivacy Notice: Dil and Gas processes your personal information may be disclosed to othe			elephone number, as pa	

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 of exion 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.

WW-6A5 Attachment Michter N-9HU

Additional Landowner

Charles Leroy Dunlap 21 Gypsy Drive Moundsville, WV 26041

Office of Oil and Gas

MAY 17 2019

Environmental Protection



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-9HU

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.

Regional Maintenance Engineer Central Office O&G Coordinator

Dary K. Clayton

Cc: Jonathan White

Tug Hill Operating

CH, OM, D-6

File

Office RECEIVED
MAY 17 2019

Environmental Protection

E.E.O./AFFIRMATIVE ACTION EMPLOYER



PLANNED ADDITIVES TO BE USED IN FRACTURING OR STIMULATION

Well No. Michter N-9HU

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

Silica Sand (100 mesh)

Proppant

Crystalline silica (quartz) CAS# 14808-60-7

sizes)

Sand

Silica - CAS# 14808-60-7

GW-3LDF

S-8C, Sand

Gellant - Water

Petroleum Distillate Blend – Proprietary,
(Not Associated with Dissel Fuel)

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

FRW-18

Friction Reducer

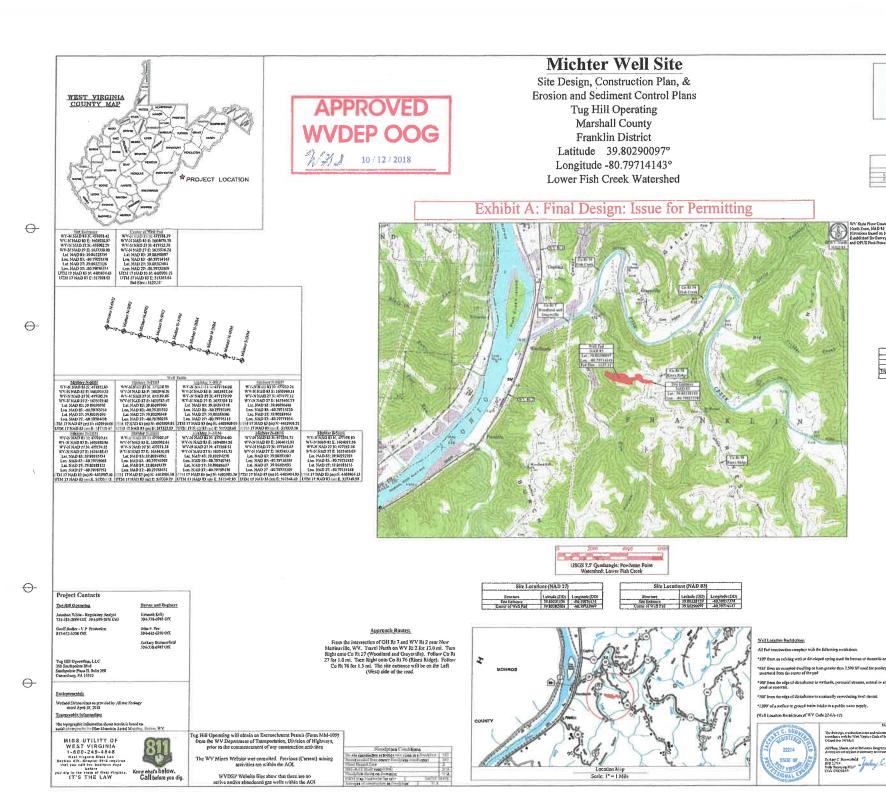
Hydrotreated light distillate

CAS# 064742-47-8

Scaletrol

Scale Inhibitor

Ethylene glycol – CAS# 000107-21-1 Diethylene glycol – CAS# 000111-46-6



Pertinent Site

Emergency Numb

Property Owner Informat

Sing Total's (Azi) | 4.25

Acce | 134 - Pa | 13-1.

Franklin District, Me

Watershed: Lower Fi

Tug Hill Contact Num

