

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

Thursday, July 19, 2018 WELL WORK PERMIT Horizontal 6A / New Drill

TUG HILL OPERATING, LLC 380 SOUTHPOINTE BOULEVARD, PLAZA II SUITE 200 CANNONSBURG, PA 15317

Re: Permit approval for TEN HIGH 1S-14HU 47-051-01966-00-00

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: Farm Name: U.S. WELL NUMBER: Horizontal 6A Date Issued: 7/19/2018

Promoting a healthy environment.



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. <u>Failure to adhere to the specified permit</u> conditions may result in enforcement action.

CONDITIONS

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

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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

June 21, 2018

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

RE: Application for Deep Well Permit – API #47-051-01966

COMPANY: Tug Hill Operating, LLC

FARM: <u>Tug Hill Operating, LLC</u> <u>Ten High 1S-14HU</u>

COUNTY: Marshall DISTRICT: Meade QUAD: Glen Easton 7.5'

The deep well review of the application for the above company is <u>Approved to drill to Trenton for</u> <u>Point Pleasant completion.</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? No
- 2. Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owners? Yes
- Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of all deep wells: Heaven Hill 3-7HU 47-051-01969; Heaven Hill 3-8HU 47-051-01967; Ten High 1N-11HU 47-051-01960; Ten High 1N-12HU 47-051-01961; Ten High 1N-13HU 47-051-01965
- 4. Provided a plat showing that the proposed location is a distance of <u>400+</u> 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.

Sincerely. Susan Rose

Susan Rose Administrator

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07/20/2018

51-01966

WW-6B (04/15) API NO. 47-051 - 01966 OPERATOR WELL NO. Ten High 1S-14HU Well Pad Name: Ten High

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

1) Well Operator: Tug Hill (Operating, LLC	494510851	Marshall	Meade	Glen Easton 7.5'
		Operator ID	County	District	Quadrangle
2) Operator's Well Number:	Ten High 1S-14	HU Well P	ad Name: Ter	n High	
3) Farm Name/Surface Owne	er: Lawrence & Shirley	Conkle, ests Public R	oad Access: S	hepherd Rid	lge Lane CR 21/9
4) Elevation, current ground:	1310'	Elevation, propose	d post-construc	ction: 1310'	
5) Well Type (a) Gas X Other	Oil	Un	derground Stor	rage	
(b)If Gas	Shallow	Deep	Х		
Ι	Horizontal X			pr	125/18
6) Existing Pad: Yes or No	Yes			03	10
7) Proposed Target Formation		· · · · · · · · · · · · · · · · · · ·			
Point Pleasant is the target form	nation at a depth of 1	1,589' - 11,728' thicknes	ss of 139' and anti	cipated pressur	re of approx. 9500 psi
8) Proposed Total Vertical De	epth: 11,878'				
9) Formation at Total Vertica	l Depth: Trento	n			
10) Proposed Total Measured	Depth: 21,759	9'			
11) Proposed Horizontal Leg	Length: 9,650'				
12) Approximate Fresh Water	r Strata Depths:	70', 1026'			
13) Method to Determine Fre	sh Water Depths:	Offset well reports or	noticeable flow at	the flowline or w	hen need to start soaping
14) Approximate Saltwater D	epths: 2,167'				
15) Approximate Coal Seam	Depths: Sewick	ly Coal - 935' and I	Pittsburgh Coa	al - 1020'	
16) Approximate Depth to Po	ssible Void (coal	mine, karst, other):	None anticip	ated	
17) Does Proposed well locat directly overlying or adjacent			N	Io	
(a) If Yes, provide Mine Inf	o: Name: Ma	arshall County Coa	al Co. / Marsha	all County M	line
	Depth: 10	20' TVD and 290'	subsea level		
	Seam: Pi	ttsburgh #8			
	Owner: M	urray Energy / Con	solidated Coa	l Co.	

API NO. 47- 051 _ 01966

OPERATOR WELL NO. Ten High 1S-14HU Well Pad Name: Ten High

WW-6B (04/15)

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	<u>New</u> <u>or</u> <u>Used</u>	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	<u>CEMENT:</u> <u>Fill-up</u> (Cu. Ft.)/CTS
Conductor	30"	NEW	BW	BW	125'	125'	270FT^3(CTS)
Fresh Water	20"	NEW	J55	106.5#	1,086'	1,086'	1,747ft^3(CTS)
Coal	13 3/8"	NEW	J55	54.5#	2,801'	2,801'	1,976ft^3(CTS)
Intermediate	9 5/8"	NEW	HPP110	47#	10,562'	10,562'	3,447ft^3(CTS)
Production	5 1/2"	NEW	P110	23#	21,759'	21,759'	5,164ft^3(CTS)
Tubing	2 7/8"	NEW	P110	6.5#		11,668'	
Liners							

5/25/18

TYPE	Size (in)	<u>Wellbore</u> <u>Diameter (in)</u>	<u>Wall</u> Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	<u>Cement</u> <u>Type</u>	<u>Cement</u> <u>Yield</u> (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	16,510	10,864	SEE#24	1.18
Tubing	2 7/8"			14,530	11,624		
Liners							

PACKERS

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

WW-6B (10/14) API NO. 47- 051 - 01966

OPERATOR WELL NO. Ten High 15-14HU Well Pad Name: Ten High

5/25/18

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 24,125,000 lb proppant and 372,990 bbl of water. Max rate = 100 bpm; max psi = 12,500#.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 16.2

22) Area to be disturbed for well pad only, less access road (acres): 5.92

23) Describe centralizer placement for each casing string:

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

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

*See Attachment

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.

WW6B Attachment to #24

Conductor and Fresh Water Casing Cement:

Premium NE-1 + 2% CaCl -Premium NE-1 – Class A Portland API Spec -CaCl – Calcium Chloride

Coal Casing Cement:

Premium NE-1 + 1.5% CaCL + Flake -Premium NE-1 – Class A Portland API spec -CaCl – Calcium Chloride -CelloFlake

Intermediate Casing Cement:

Lead: Premium NE-1 + 5% BA-90 + .85% R-3 + 3% KCl + .75 gals/100sk FP-13L + 1% MPA-170 <u>Tail</u>: Premium NE-1 + .1% R-3 + 5% KCl + 1% CD-32 + .4% FL-52 + .2% ASA-301 + .6% Sodium Metasilicate -Premium NE-1 - Class A Portland API spec -BA-90 - Gas Migration Mitigator -R-3 - Cement Retarder -KCl - Potassium Chloride -FP-13L - Anti-Foaming Agent -MPA-170 - Gelling Agent -CD-32 - Dispersant -FL-52 - Fluid Loss Agent -ASA-301 - Free Water Control Agent -Sodium Metasilicate - Extending Agent -Sodium Metasilicate - Extending Agent

Class H Cement + 1% CD-32 + .7% Sodium Metasilicate + .1% R-3 + .75 gal/100sk FP-13L -CD-32 – Dispersant -Sodium Metasilicate – Extending Agent -R-3 – Cement Retarder -FP-13L – Anti-Foaming Agent

Production Casing Cement:

<u>Lead</u>: 50:50 (Poz:Class H) + .3% R-3 + .3% MPA-250 + .75 gal/100sk FP-13L <u>Tail</u>: 25:75 (Poz:Class H) + .3% R-3 + .3% MPA-250 + .375 gal/100sk FP-13L

> -R-3 – Cement Retarder -MPA-250 – Gelling Agent

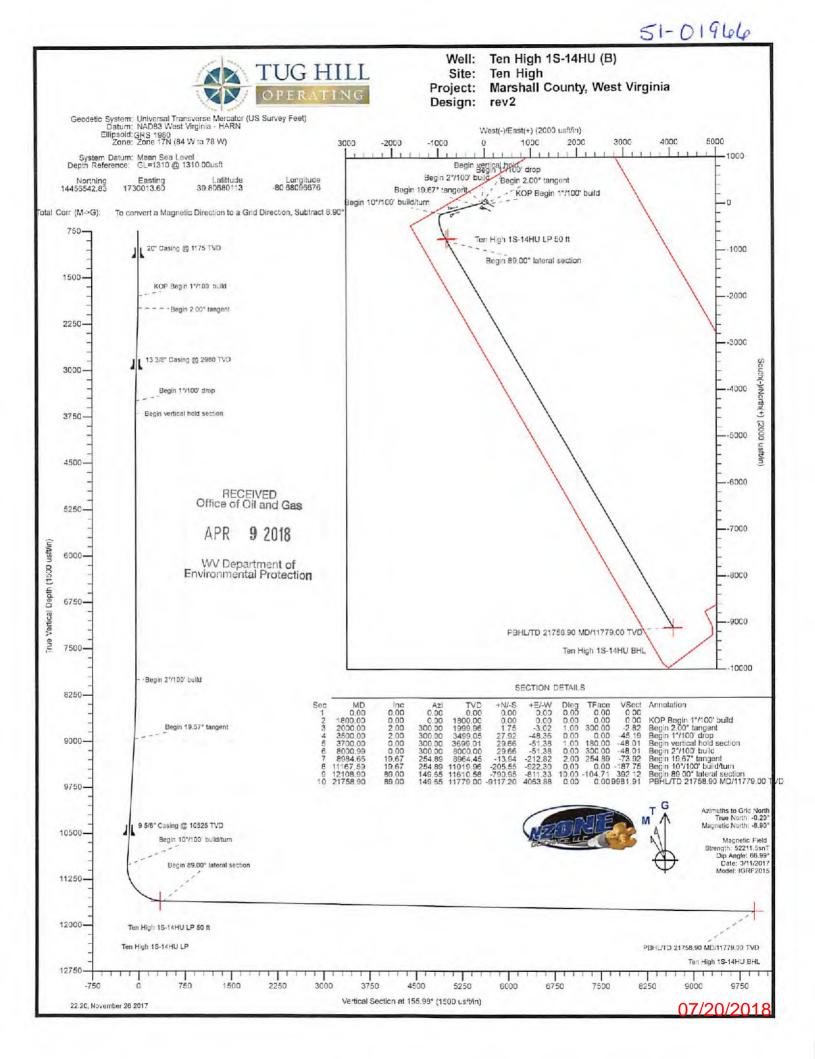
-FP-13L – Anti-Foaming Agent

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WV Department of Environmental Protection

07/20/2018



Permit well - Ten High 1S-14HU

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

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
4705101934 T	rug Hill	6737' TVD planned	None	None	No, Permitted Marcelius well	Permitted Marcellus well. Not yet drilled
4705101247 C	CNX Gas Co	Unknown	Unknown	Unknown	No, Well status is listed as cancelled	Well records show well as cancelled
- MARCETE	Select County. (051) Ma	orshali 🗸 Seleci			nit Numbering Series	
	Enter Permit & 01247 Get Data Rese Servey: Viow Map. Nit TAX_DISTRICT QUAD, 7 Meads Sen E	75 QUAD_15 LAT_	wner/Completion 🗹 sy/Shew/Water 🗹	Production M Plugging Logs Stratigraphy M Sample Logs Well: County = 51	Reflecting Internation Internation International International International International Permit = 01247	
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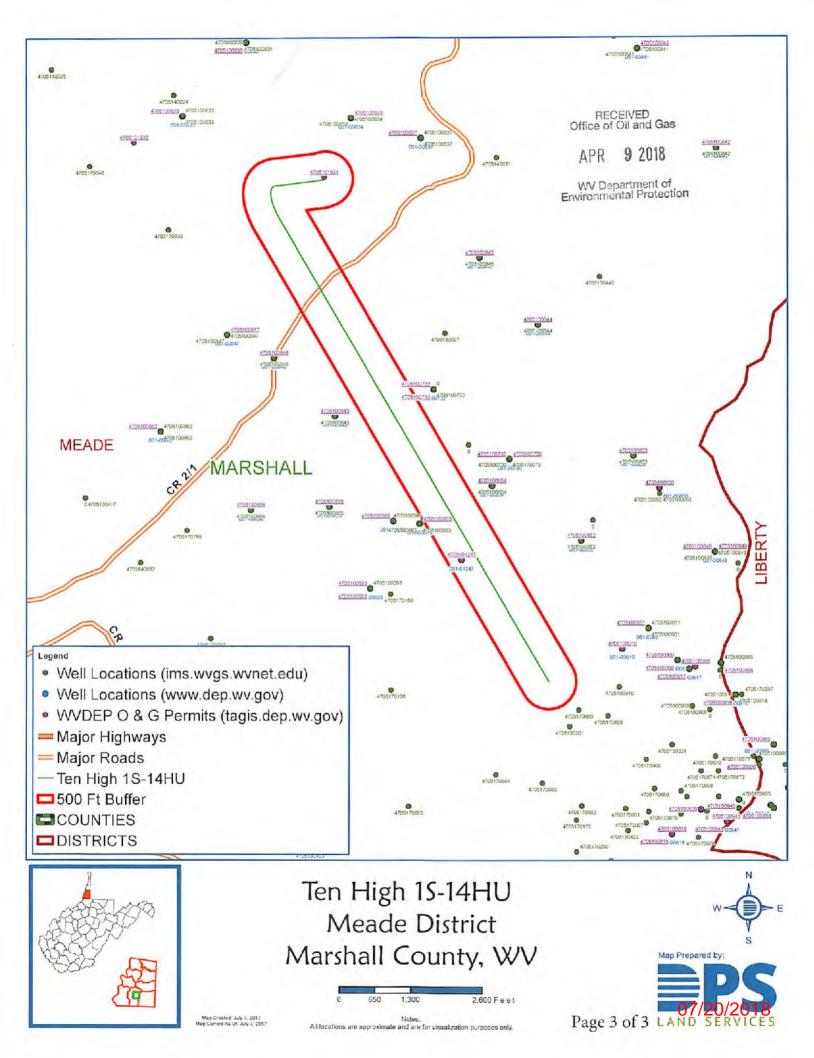
5.11. Area of Review- The permittee shall review the area surrounding the proposed well pad so as to identify and evaluate potential conduits for unintended fracture propagation, a report of which the permittee shall provide to the Office with the application for well work. All existing active, plugged, abandoned, and undocumented wells within a five hundred feet (500°) radius of the artface location of the well that is the subject of the new application and within a five hundred feet (500°) radius of the lateral section of the wellbore shall be considered for the potential of unintended fracture propagation. The report shall denil those wells that are known or teasonably expected to penetrate a depith that could be within the range of the fracture propagation. The detail shall include at a minimum the API number, operator name, total depth, perforated formation(s) and producing zones no; perforated.

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WV Department of Environmental Protection







Database: Company: Project: Site: Well: Wellbore: Design:	DB_Jul2216dt_ Tug Hill Operat Marshall Count Ten High Ten High 1S-14 Original Hole rev2	ing LLC y, West Virgin	TVD Referen MD Referen North Refe	nce:		h 1S-14HU 1310.00us 1310.00us rvature	sft		
Project	Marshall County	, West Virgini	a						
Geo Datum:	Universal Transve NAD83 West Virg Zone 17N (84 W t	inia - HARN	(US Survey Feet)	System Datu	im:		Mean Sea Lev	el	
Site	Ten High					_			
Site Position: From: Position Uncertainty:	Lat/Long	0.00 usft	Northing: Easting: Slot Radius:		545.60 usft 001.41 usft 13-3/16 "	Latitude Longitu Grid Co			39,8068088 -80,6810101 0.20
Well	Ten High 1S-14H	IU (B)							
Well Position Position Uncertainty	+N/-S +E/-W	0.00 usft 0.00 usft 0.00 usft	Northing: Easting: Wellhead Ele		4,456,542.83 1,730,013.60 0.00		Latitude: Longitude: Ground Level:		39.80680113 -80,68096670 1,310.00 usl
Wellbore	Original Hole								
Magnetics	Model Nam	e	Sample Date	Declinat (°)	lon		Dip Angle (°)		Field Strength (nT)
	IGRF	2015	3/11/2017		-8.70		66.9	9	52,211.52604513
Design	rev2								
Audit Notes: Version:			Phase:	PLAN	Tic	e On Depi	h:	0.00	
Vertical Section:		(u	rom (TVD) sft) .00	+N/-S (usft) 0.00	(1	E/-W usft)).00		Direction (°) 155.98	
Dies Over Text Des		Date 11/26/	2017						
Plan Survey Tool Pro Depth From (usft)	Depth To	urvey (Wellbo		Tool Name		Rema	ks		
1 0.00	21,758.90 re	v2 (Original H	lole)	MWD MWD - Standa	rd				

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Plan Sections				
Design:	rev2			
Wellbore:	Original Hole			
Well:	Ten High 1S-14HU (B)	Survey Calculation Method:	Minimum Curvature	
Site:	Ten High	North Reference:	Grid	
Project:	Marshall County, West Virginia	MD Reference:	GL=1310 @ 1310.00usft	
Company:	Tug Hill Operating LLC	TVD Reference:	GL=1310 @ 1310.00usft	
Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Ten High 1S-14HU (B)	

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	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	300.00	1,999.96	1.75	-3.02	1.00	1.00	0.00	300.00	
3,500.00	2.00	300.00	3,499.05	27.92	-48.36	0.00	0.00	0.00	0.00	
3,700.00	0.00	300.00	3,699.01	29.66	-51.38	1.00	-1.00	0.00	180.00	
8,001.00	0.00	300.00	8,000.00	29.66	-51.38	0.00	0.00	0.00	300.00	
8,984.66	19.67	254.89	8,964.45	-13.94	-212.82	2.00	2.00	-4.59	254.89	
11,167.59	19.67	254.89	11,019.96	-205.55	-922.30	0.00	0.00	0.00	0.00	
12,108.90	89.00	149.65	11,610.58	-790.95	-811.33	10.00	7.36	-11.18	-104.71	
21,758.90	89.00	149.65	11,779.00	-9,117.20	4,063.88	0.00	0.00	0.00	0.00	Ten High 1S-14HU E

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APR 9 2018

WV Department of Environmental Protection



TVD Reference:

North Reference:

MD Reference:

Local Co-ordinate Reference:

Survey Calculation Method:

RECEIVED Office of Oil and Gas

9 2018 APR



WV Department of Environmental Protection Well Ten High 1S-14HU (B) GL=1310 @ 1310.00usft GL=1310 @ 1310.00usft Grid Minimum Curvature

 Database:
 DB_Jul2216dt_v14

 Company:
 Tug Hill Operating LLC

 Project:
 Marshall County, West Virginia

 Site:
 Ten High

 Well:
 Ten High 1S-14HU (B)

 Wellbore:
 Original Hole

 Design:
 rev2

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
								39.80680113	-80,68096676
0.0		0.00	0.00	0.00	0.00	14,456,542.83	1,730,013.60	39,80680113	-80.68096676
100.0		0.00	100.00	0.00	0.00	14,456,542.83	1,730,013.60	39.80680113	-80.68096676
200.0		0.00	200.00	0.00	0.00	14,458,542.83	1,730,013.60 1,730,013.60	39,80680113	-80,68096676
300.0		0.00	300.00	0.00	0.00	14,456,542.83	1,730,013.60	39.80680113	-80,68096676
400.0		0.00	400.00	0.00	0.00	14,456,542.83 14,456,542.83	1,730,013,60	39.80680113	-80,68096676
500.0		0.00	600.00	0.00	0.00	14,455,542.83	1,730,013.60	39.80680113	-80.68096676
600.0 700.0		0.00	700.00	0.00	0.00	14,456,542.83	1,730,013.60	39.80680113	-80.68096676
800.0		0.00	800.00	0.00	0.00	14,456,542.83	1,730,013.60	39.80680113	-80.68096676
900.0		0.00	900.00	0.00	0.00	14,458,542.83	1,730,013.60	39.80680113	-80.68095676
1,000.0		0.00	1,000.00	0.00	0.00	14,456,542.83	1,730,013.60	39.80680113	-80.68096676
1,100.0		0.00	1,100.00	0.00	0.00	14,456,542.83	1,730,013.60	39.80680113	-80.68096676
1,200.0		0.00	1,200.00	0.00	0.00	14,456,542.83	1,730,013.60	39.80680113	-80.68096676
1,300.0		0.00	1,300.00	0.00	0.00	14,458,542.83	1,730,013.60	39.80680113	-80.68096676
1,400.0		0.00	1,400.00	0.00	0.00	14,456,542.83	1,730,013,60	39.80680113	-80.68096676
1,500.0		0.00	1,500.00	0.00	0.00	14,456,542.83	1,730,013.60	39.80680113	-80.68096676
1,600.0		0.00	1,600.00	0.00	0.00	14,456,542.83	1,730,013.60	39,80680113	-80.68096676
1,700.0		0.00	1,700.00	0.00	0.00	14,456,542.83	1,730,013.60	39,80680113	-80.68096676
1,800.0		0.00	1,800.00	0.00	0.00	14,456,542.83	1,730,013.60	39,80680113	-80.68096676
	egin 1°/100' bu								
1,900.0		300.00	1,899.99	0.44	-0.76	14,456,543.27	1,730,012.84	39.80680234	-80,68096945
2,000.0		300.00	1,999.96	1.75	-3.02	14.456,544.58	1,730,010,58	39,80680595	-80.68097750
144.2 8 81.5	2.00° tangent					(g) and a state of			
2,100.0	the start of the start of the start of the	300.00	2,099,90	3.49	-6.05	14,456,546.32	1,730,007.55	39.80681078	-80.68098824
2,200.0		300.00	2,199.84	5.24	-9.07	14,456,548.07	1,730,004.53	39.80681560	-80.68099898
2,300.0		300.00	2,299.78	6.98	-12.09	14,456,549.81	1,730,001.51	39.80682042	-80.68100972
2,400.0		300.00	2,399.72	8.73	-15.11	14,456,551.56	1,729,998.49	39.80682524	-80.68102046
2,500.0		300.00	2,499.65	10.47	-18.13	14,456,553.30	1,729,995.46	39,80683006	-80,68103120
2,600.0		300.00	2,599.59	12.22	-21.16	14,456,555.05	1,729,992.44	39.80683488	-80,68104194
2,700.0		300.00	2,699.53	13,96	-24.18	14,456,556,79	1,729,989.42	39,80683971	-80.68105268
2,800.0		300.00	2,799.47	15.70	-27.20	14,456,558,54	1,729,986.40	39.80684453	-80.68106342
2,900.0		300.00	2,899.41	17,45	-30.22	14,456,560.28	1,729,983.38	39,80684935	-80,68107416
3,000.0		300.00	2,999.35	19.19	-33.25	14,456,562.03	1,729,980.35	39.80685417	-80.68108490
3,100.0	0 2.00	300.00	3,099.29	20.94	-36.27	14,456,563,77	1,729,977.33	39,80685899	-80.68109564
3,200.0	0 2.00	300.00	3,199.23	22.68	-39.29	14,456,565.52	1,729,974.31	39.80686381	-80.68110638
3,300.0	0 2.00	300.00	3,299.17	24.43	-42.31	14,456,567.26	1,729,971.29	39.80686864	-80.68111712
3,400.0	0 2.00	300.00	3,399.11	26.17	-45.34	14,456,569.01	1,729,968.26	39.80687346	-80.68112786
3,500.0	0 2.00	300.00	3,499.05	27.92	-48.36	14,456,570.75	1,729,965.24	39.80687828	-80.68113860
Begin	1º/100' drop								
3,600.0	0 1.00	300.00	3,599.01	29.23	-50.63	14,456,572.06	1,729,962.97	39.80688190	-80.68114665
3,700.0	0.00	300.00	3,699.01	29.66	-51.38	14,456,572.50	1,729,962.22	39.80688310	-80.68114934
Begin	vertical hold se	ction							
3,800.0	0.00	300.00	3,799.01	29.66	-51.38	14,456,572,50	1,729,962.22	39.80688310	-80.68114934
3,900.0	0.00	0.00	3,899.01	29.66	-51.38	14,456,572,50	1,729,962.22	39,80688310	-80.68114934
4,000.0	0.00	300.00	3,999.01	29.66	-51.38	14,456,572.50	1,729,962.22	39.80688310	-80.68114934
4,100.0	0.00	0.00	4,099.01	29.66	-51.38	14,456,572.50	1,729,962.22	39,80688310	-80.68114934
4,200.0	0.00	300.00	4,199.01	29.66	-51.38	14,456,572.50	1,729,962.22	39.80688310	-80.68114934
4,300.0	0.00	300.00	4,299.01	29.66	-51.38	14,456,572.50	1,729,962.22	39,80688310	-80.68114934
4,400.0	0.00	300.00	4,399.01	29.66	-51.38	14,456,572.50	1,729,962.22	39.80688310	-80.68114934
4,500.0	0.00	300.00	4,499.01	29.66	-51.38	14,456,572.50	1,729,962.22	39.80688310	-80,68114934
4,600.0		300.00	4,599.01	29.66	-51.38	14,456,572.50	1,729,962.22	39.80688310	-80.68114934
4,700.0		300.00	4,699.01	29.66	-51.38	14,456,572.50	1,729,962.22	39.80688310	-80.68114934
4,800.0		300.00	4,799.01	29.66	-51.38	14,456,572.50	1,729,962.22	39.80688310	-80.68114934
4,900.0	00.00	300.00	4,899.01	29.66	-51.38	14,456,572.50	1,729,962.22	39.80688310	-80.68114934



Office of Oil and Gas 9 2018

WV Department of Environmental Protection



DB_Jul2216dt_v14 Database: Company: Tug Hill Operating LLC Marshall County, West Virginia Project: Ten High Site: Ten High 1S-14HU (B) Well: Original Hole Wellbore: rev2 Design:

Planned Survey

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:

Well Ten High 1S-14HU (B) GL=1310 @ 1310.00usft GL=1310 @ 1310.00usft Grid Minimum Curvature

APR

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,000.00	0.00	300.00	4,999.01	29.66	-51.38	14,456,572.50	1,729,962.22	39,80688310	-80.68114934
5,100.00	0.00	0.00	5,099.01	29,66	-51.38	14,456,572,50	1,729,962.22	39,80688310	-80.68114934
5,200.00	0.00	300.00	5,199.01	29.66	-51.38	14,456,572.50	1,729,962.22	39.80688310	-80.68114934
5,300.00	0.00	0.00	5,299.01	29.66	-51.38	14,456,572.50	1,729,962.22	39,80688310	-80.68114934
5,400.00	0.00	300.00	5,399.01	29.66	-51.38	14,456,572.50	1,729,962.22	39.80688310	-80.68114934
5,500.00	0.00	300.00	5,499.01	29.66	-51.38	14,456,572.50	1,729,962.22	39,80688310	-80.68114934
5,600.00	0.00	300.00	5,599.01	29.66	-51.38	14,456,572.50	1,729,962.22	39.80688310	-80.68114934
5,700.00	0.00	300.00	5,699.01	29.66	-51.38	14,456,572.50	1,729,962.22	39.80688310	-80.68114934
5,800.00	0.00	300.00	5,799.01	29.66	-51.38	14,456,572.50	1,729,962.22	39.80688310	-80.68114934
5,900.00	0.00	300.00	5,899.01	29.66	-51.38	14,456,572.50	1,729,962.22	39.80688310	-80.68114934
6,000.00	0.00	300.00	5,999.01	29.66	-51.38	14,456,572.50	1,729,962.22	39.80688310	-80.68114934
6,100.00	0.00	300.00	6,099.01	29.66	-51.38	14,456,572.50	1,729,962.22	39.80688310	-80.68114934
6,200.00	0.00	300.00	6,199.01	29.66	-51.38	14,456,572.50	1,729,962.22	39.80688310	-80.68114934
6,300.00	0.00	0.00	6,299.01	29.66	-51.38	14,456,572.50	1,729,962.22	39.80688310	-80.68114934
6,400.00	0.00	300.00	6,399.01	29.66	-51.38	14,456,572.50	1,729,962.22	39,80688310	-80.68114934
6,500.00	0.00	0.00	6,499.01	29.66	-51.38	14,456,572.50	1,729,962.22	39.80688310	-80.68114934
6,600.00	0.00	300.00	6,599.01	29.66	-51.38	14,456,572.50	1,729,962.22	39,80688310	-80.68114934
6,700.00	0.00	300.00	6,699.01	29.66	-51.38	14,456,572.50	1,729,962.22	39,80688310	-80.68114934
6,800.00	0.00	300.00	6,799.01	29.66	-51.38	14,456,572.50	1,729,962.22	39.80688310	-80,68114934
6,900.00	0.00	300.00	6,899.01	29,66	-51.38	14,456,572,50	1,729,962.22	39,80688310	-80.68114934
7,000.00	0.00	300.00	6,999.01	29.66	-51.38	14,456,572.50	1,729,962.22	39.80688310	-80.68114934
7,100.00	0.00	300.00	7,099.01	29.66	-51.38	14,456,572.50	1,729,962.22	39,80688310	-80.68114934
7,200.00	0.00	300.00	7,199.01	29.66	-51.38	14,456,572.50	1,729,962.22	39.80688310	-80.68114934
7,300.00	0.00	0.00	7,299.01	29.66	-51.38	14,456,572.50	1,729,962.22	39,80688310	-80.68114934
7,400.00	0.00	300.00	7,399.01	29.66	-51.38	14,456,572.50	1,729,962.22	39.80688310	-80.68114934
7,500.00	0.00	0.00	7,499.01	29.66	-51.38	14,456,572.50	1,729,962.22	39.80688310	-80.68114934
7,600.00	0.00	300.00	7,599.01	29.66	-51.38	14,456,572.50	1,729,962.22	39.80688310	-80.68114934
7,700.00	0.00	0.00	7,699.01	29.66	-51.38	14,456,572.50	1,729,962.22	39.80688310	-80.68114934
7,800.00	0.00	300.00	7,799.01	29.66	-51.38	14,456,572.50	1,729,962.22	39.80688310	-80.68114934
7,900.00	0.00	300.00	7,899.01	29.66	-51.38	14,456,572.50	1,729,962.22	39.80688310	-80.68114934
8,000.00		300.00	7,999.01	29.66	-51.38	14,456,572.50	1,729,962.22	39,80688310	-80,68114934
8,001.00	0.00	300.00	8,000.00	29.66	-51.38	14,456,572.50	1,729,962.22	39.80688310	-80.68114934
Begin 2	100' build								
8,100.00	1.98	254.89	8,098.99	29.22	-53.03	14,456,572.05	1,729,960.57	39.80688189	-80.6B115522
8,200.00	3.98	254.89	8,198.85	27.86	-58.05	14,456,570.70	1,729,955.55	39.80687822	-80.68117311
8,300.00	5.98	254.89	8,298.46	25.60	-66.43	14,456,568.43	1,729,947.17	39.80687209	-80.68120298
8,400.00	7.98	254.89	8,397.72	22.43	-78,16	14,456,565.27	1,729,935,44	39.80686350	-80.68124479
8,500.00	9.98	254.89	8,496.49	18.36	-93.23	14,456,561.20	1,729,920.37	39.80685247	-80.68129850
8,600.00	11.98	254.89	8,594.65	13.40	-111.62	14,456,556.23	1,729,901.98	39.80583901	-80.68136403
8,700.00	13.98	254.89	8,692.09	7.54	-133.30	14,456,550.37	1,729,880.30	39.80682314	-80.68144131
8,800.00	15.98	254.89	8,788.69	0.80	-158.26	14,456,543.64	1,729,855,34	39.80580488	-80.68153025
8,900.00	17.98	254.89	8,884.32	-6.81	-186.45	14,456,536.02	1,729,827.15	39.80678425	-80.68163073
8,984.66	19.67	254.89	8,964.45	-13.94	-212.82	14,456,528.90	1,729,800.78	39.80576494	-80,68172473
Begin 1	9.67° tangent								
9,000.00	19.67	254.89	8,978.89	-15.28	-217.81	14,456,527.55	1,729,795.79	39.80676129	-80.68174250
9,100.00	19.67	254,89	9,073.06	-24.06	-250.31	14,456,518.77	1,729,763.29	39.80673751	-80.68185834
9,200.00	19,67	254.89	9,167.22	-32.84	-282,81	14,456,510.00	1,729,730,79	39.80671372	-80.68197418
9,300.00	19.67	254,89	9,261.38	-41.62	-315.31	14,456,501.22	1,729,698.29	39.80668993	-80.68209002
9,400.00	19.67	254.89	9,355.55	-50.39	-347.81	14,456,492.44	1,729,665,79	39,80666614	-80.68220586
9,500.00	19.67	254.89	9,449.71	-59.17	-380.31	14,456,483.66	1,729,633.29	39.80664235	-80.68232170
9,600.00		254.89	9,543.87	-67.95	-412.82	14,456,474.89	1,729,600.78	39.80661856	-80.68243753
9,700.00		254.89	9,638.03	-76.73	-445.32	14,455,466.11	1,729,568.28	39,80659477	-80.68255337
9,800.00		254.89	9,732.20	-85.50	-477.82	14,456,457.33	1,729,535.78	39.80657098	-80.68266921
9,900.00		254.89	9,826.36	-94.28	-510.32	14,456,448.55	1,729,503.28	39.80654720	-80.68278505

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Planning Report - Geographic

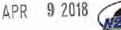
TVD Reference:

MD Reference:

North Reference:

Local Co-ordinate Reference:

Survey Calculation Method:





WV Department of Environmental Protection Well Ten High 1S-14HU (B) GL=1310 @ 1310.00usft GL=1310 @ 1310.00usft Grid Minimum Curvature

 Database:
 DB_Jul2216dt_v14

 Company:
 Tug Hill Operating LLC

 Project:
 Marshall County, West Virginia

 Site:
 Ten High

 Well:
 Ten High 1S-14HU (B)

 Wellbore:
 Original Hole

 Design:
 rev2

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usît)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,000.00	19.67	254.89	9,920.52	-103.06	-542.82	14,456,439.78	1,729,470.78	39,80652341	-80,68290088
10,100.00		254.89	10,014.68	-111.84	-575.32	14,456,431.00	1,729,438.28	39.80649962	-80.68301672
10,200.00	19.67	254.89	10,108,85	-120.61	-607.82	14,456,422.22	1,729,405.78	39,80647583	-80,68313256
10,300.00		254.89	10,203.01	-129.39	-640.32	14,456,413,44	1,729,373.28	39.80645204	-80.68324840
10,400.00		254.89	10,297.17	-138.17	-672.82	14,456,404.67	1,729,340.77	39,80642825	-80,68336424
10,500.00		254.89	10,391.34	-146.95	-705.33	14,456,395.89	1,729,308.27	39,80640446	-80.68348007
10,600.00		254.89	10,485.50	-155.72	-737.83	14,456,387.11	1,729,275.77	39.80638067	-80.68359591
10,700.00	19.67	254.89	10,579.66	-164.50	-770.33	14,456,378.33	1,729,243.27	39.80635688	-80.68371175
10,800.00		254.89	10,673.82	-173.28	-802.83	14,456,369,55	1,729,210.77	39.80633309	-80.68382758
10,900.00		254.89	10,767.99	-182.06	-835.33	14,456,360.78	1,729,178.27	39.80630930	-80,68394342
11,000.00		254.89	10,862.15	-190.84	-867.83	14,456,352.00	1,729,145.77	39.80628551	-80.68405926
11,100.00		254.89	10,956.31	-199.61	-900.33	14,456,343.22	1,729,113.27	39.80626172	-80.68417510
11,167.59		254.89	11,019.96	-205.55	-922.30	14,456,337.29	1,729,091.30	39.80624564	-80.68425339
	0°/100' build/t								
11,200.00		245.27	11,050.54	-209.19	-932.39	14,456,333.65	1,729,081.21	39.80623573	-80.6842893
		245.27	11,144.83	-230.34	-957.60	14,456,312.50	1,729,056.00	39.80617789	-80.68437938
11,300.00		194.28	11,236.82	-265.91	-973.32	14,456,276.93	1,729,040.27	39.80608037	-80.6844358
11,400.00		180.73		-314.81	-979.09	14,456,228.02	1,729,034.51	39.80594612	-80.6844569
11,500.00		171.89	11,323.71 11,402.86	-375.56	-979.09	14,456,167.27	1,729,034.51	39.80577923	-80.68444219
11,600.00		165.62		-446.32	-960.36	14,456,096.51	1,729,053.24	39.80558477	-80.6843919
11,700.00			11,471.86	-524.94	-936.42	14,456,017.90	1,729,053.24	39,80536865	-80.6843076
11,800.00		160.78	11,528.62	-609.02	-903.65		1,729,109.95	39.80513743	-80,68419204
11,900.00		156.78	11,571.42		-863.03	14,455,933.82	and the second se	39.80489814	-80,6840485
12,000.00		153.25	11,598.94	-696.01		14,455,846.83	1,729,150.57	39.80465805	-80.6838814
12,100.00		149.94	11,610.36	-783.26	-815.81	14,455,759.57	1,729,197.79	39.80463690	-80.6838656
12,108.90		149.65	11,610.58	-790.95	-811.33	14,455,751.88	1,729,202.26	39.00403090	-00.0000000
	9.00° lateral se								00 000 7007
12,200.00		149.65	11,612.17	-869,56	-765.31	14,455,673.28	1,729,248.29	39,80442058	-80.68370274
12,300.00		149.65	11,613,92	-955,84	-714.79	14,455,586.99	1,729,298.81	39.80418313	-80.6835239
12,400.00		149.65	11,615.67	-1,042.12	-664.27	14,455,500.71	1,729,349.33	39.80394569	-80.6833451
12,500.00		149.65	11,617.41	-1,128.40	-613.75	14,455,414.43	1,729,399.85	39.80370825	-80.6831663
12,600.00		149.65	11,619,16	-1,214.69	-563.23	14,455,328.15	1,729,450.37	39.80347080	-80.6829875
12,700.00		149.65	11,620.90	-1,300.97	-512.71	14,455,241.87	1,729,500.89	39.80323336	-80.6828087
12,800.00		149.65	11,622.65	-1,387.25	-462.19	14,455,155.58	1,729,551.41	39.80299591	-80.68262999
12,900.00		149.65	11,624.39	-1,473.53	-411.67	14,455,069.30	1,729,601.93	39,80275847	-80.6824512
13,000.00		149.65	11,626.14	-1,559.82	-361.15	14,454,983.02	1,729,652.45	39.80252103	-80.6822724
13,100.00		149,65	11,627.88	-1,646,10	-310.63	14,454,896.74	1,729,702.97	39.80228358	-80,6820936
13,200.00		149.65	11,629.63	-1,732.38	-260.10	14,454,810.45	1,729,753.49	39.80204613	-80.6819148
13,300.00		149.65	11,631.37	-1,818.66	-209.58	14,454,724.17	1,729,804.02	39.80180869	-80.6817360
13,400.00		149.65	11,633.12	-1,904,95	-159.06	14,454,637.89	1,729,854.54	39.80157124	-80.6815572
13,500.00		149.65	11,634,86	-1,991.23	-108.54	14,454,551.61	1,729,905.06	39.80133380	-80.6813784
13,600.00		149.65	11,636.61	-2,077.51	-58.02	14,454,465.32	1,729,955.58	39.80109635	-80,6811997
13,700.00		149.65	11,638.35	-2,163.79	-7.50	14,454,379.04	1,730,006.10	39,80085890	-80.6810209
13,800.00		149.65	11,640.10	-2,250.07	43.02	14,454,292.76	1,730,056.62	39.80062146	-80.6808421
13,900.00		149.65	11,641.84	-2,336,36	93.54	14,454,206.48	1,730,107.14	39,80038401	-80.6806633
14,000.00		149.65	11,643,59	-2,422.64	144.06	14,454,120.19	1,730,157.66	39.80014656	-80.6804846
14,100.00		149,65	11,645.33	-2,508.92	194.58	14,454,033,91	1,730,208,18	39.79990911	-80.6803058
14,200.00		149.65	11,647.08	-2,595.20	245.10	14,453,947.63	1,730,258.70	39,79967167	-80.6801270
14,300.00		149.65	11,648.82	-2,681.49	295.62	14,453,861.35	1,730,309.22	39.79943422	-80.6799482
14,400.00		149.65	11,650.57	-2,767.77	346.14	14,453,775.07	1,730,359.74	39,79919677	-80.6797695
14,500.00		149.65	11,652.32	-2,854.05	396.66	14,453,688.78	1,730,410.26	39,79895932	-80.6795907
14,600.00		149.65	11,654.06	-2,940.33	447.18	14,453,602.50	1,730,460.78	39.79872187	-80.6794119
14,700.00		149.65	11,655.81	-3,026.62	497.70	14,453,516.22	1,730,511.30	39.79848442	-80.6792332
14,800.00		149.65	11,657,55	-3,112.90	548.22	14,453,429.94	1,730,561.82	39.79824697	-80.6790544
14,900.00	89.00	149.65	11,659.30	-3,199.18	598.74	14,453,343.65	1,730,612.34	39.79800952	-80.6788756

Office of Oil and Gas



APR 9 2018

WV Department of Planning Report - Geographic Environmental Protection



DB_Jul2216dt_v14 Tug Hill Operating LLC Local Co-ordinate Reference: Database: Company: TVD Reference: Marshall County, West Virginia Project: **MD Reference:** Ten High Site: North Reference: Survey Calculation Method: Ten High 1S-14HU (B) Well: Wellbore: Original Hole Design: rev2

Well Ten High 1S-14HU (B) GL=1310 @ 1310.00usft GL=1310 @ 1310.00usft Grid Minimum Curvature

חשמחוזה

Planned Survey

Measured Depth (usft)	Inclination	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
15,000.00	89.00	149.65	11,661.04	-3,285.46	649.26	14,453,257.37	1,730,662.86	39,79777207	-80.67869693
15,100.00	89.00	149.65	11,662.79	-3,371.75	699.78	14,453,171,09	1,730,713.38	39,79753462	-80.6785181
15,200.00	89.00	149.65	11,664.53	-3,458.03	750.30	14,453,084.81	1,730,763.90	39,79729717	-80.6783394
15,300.00	89.00	149.65	11,666.28	-3,544.31	800.82	14,452,998.52	1,730,814.42	39,79705972	-80,6781606
15,400.00	89.00	149,65	11,668.02	-3,630.59	851.34	14,452,912.24	1,730,864.94	39,79682227	-80,6779818
15,500.00	89.00	149,65	11,669.77	-3,716.87	901.86	14,452,825.96	1,730,915,46	39,79658481	-80.6778031
15,600.00	89.00	149.65	11,671.51	-3,803.16	952.38	14,452,739.68	1,730,965.98	39,79634736	-80.6776243
15,700.00	89.00	149.65	11,673.26	-3,889.44	1,002.91	14,452,653.39	1,731,016.50	39.79610991	-80.6774456
15,800.00	89.00	149.65	11,675.00	-3,975.72	1,053.43	14,452,567.11	1,731,067.02	39.79587246	-80.6772658
15,900.00	89.00	149.65	11,676.75	-4,062.00	1,103.95	14,452,480.83	1,731,117.55	39,79563500	-80.6770881
16.000.00	89.00	149.65	11,678.49	-4,148.29	1,154.47	14,452,394.55	1,731,168.07	39.79539755	-80.6769093
16,100.00	89.00	149.65	11,680.24	-4,234.57	1,204.99	14,452,308.27	1,731,218.59	39,79516010	-80.6767306
16,200.00	89.00	149.65	11,681.98	-4,320.85	1,255.51	14,452,221.98	1,731,269.11	39.79492264	-80.6765518
16,300.00	89.00	149.65	11,683.73	-4,407.13	1,306.03	14,452,135.70	1,731,319.63	39,79468519	-80,6763731
16,400.00	89.00	149.65	11,685,47	-4.493.42	1,356.55	14,452,049.42	1,731,370.15	39.79444773	-80,6761943
16,500.00	89.00	149.65	11,687.22	-4,579.70	1,407.07	14,451,963.14	1,731,420.67	39,79421028	-80.6760156
16,600.00	89.00	149.65	11,688.97	-4.665.98	1,457.59	14,451,876.85	1,731,471.19	39.79397282	-80.6758368
16,700.00	89.00	149.65	11,690.71	-4,752.26	1,508,11	14,451,790.57	1,731,521,71	39,79373537	-80.6756581
16,800.00	89.00	149.65	11,692,46	-4.838.55	1,558.63	14,451,704.29	1,731,572.23	39,79349791	-80.6754794
16,900.00	89.00	149,65	11,694.20	-4,924.83	1,609.15	14,451,618.01	1,731,622.75	39,79326046	-80.6753006
17,000.00	89.00	149.65	11,695,95	-5,011.11	1,659.67	14,451,531.72	1,731,673.27	39,79302300	-80.6751219
17,100.00	89.00	149.65	11,697.69	-5,097.39	1,710.19	14,451,445.44	1,731,723.79	39,79278555	-80.6749431
17,200.00	89.00	149.65	11,699.44	-5,183.67	1,760.71	14,451,359.16	1,731,774.31	39,79254809	-80.6747644
17,300.00	89.00	149.65	11,701.18	-5.269.96	1.811.23	14,451,272.88	1,731,824.83	39,79231063	-80.6745857
17,400.00	89.00	149.65	11,702.93	-5.356.24	1,861.75	14,451,186.59	1,731,875.35	39.79207317	-80.6744069
17.500.00	89.00	149.65	11,704.67	-5,442.52	1,912.27	14,451,100.31	1,731,925.87	39,79183572	-80.6742282
17,600.00	89.00	149.65	11,706,42	-5,528.80	1,962.79	14,451,014.03	1,731,976.39	39.79159826	-80.6740495
17,700.00	89.00	149.65	11,708.16	-5,615.09	2,013.31	14,450,927.75	1,732,026.91	39.79136080	-80.6738707
17,800.00	89.00	149.65	11,709.91	-5,701.37	2,063.83	14,450,841.47	1,732,077.43	39.79112334	-80.6736920
17,900.00		149.65	11.711.65	-5.787.65	2,114.35	14,450,755.18	1,732,127.95	39,79088588	-80.6735133
18,000.00	89,00	149.65	11,713,40	-5,873,93	2,164.87	14,450,668.90	1,732,178,47	39,79064843	-80.6733346
18,100.00	89.00	149.65	11,715.14	-5,960,22	2,215.39	14,450,582.62	1,732,228,99	39,79041097	-80.6731558
18,200.00	89.00	149.65	11,716,89	-6,046,50	2,265.91	14,450,496.34	1,732,279.51	39,79017351	-80.6729771
18,300.00	89.00	149.65	11.718.63	-6,132.78	2,316.44	14,450,410.05	1,732,330.03	39,78993605	-80.6727984
18,400.00	89.00	149,65	11,720.38	-6,219.06	2,366.96	14,450,323.77	1,732,380.56	39,78969859	-80.6726197
18,500.00	89.00	149.65	11,722.12	-6,305.35	2,417.48	14,450,237.49	1,732,431.08	39.78946113	-80.6724410
18,600.00	89.00	149.65	11,723.87	-6,391.63	2,468.00	14,450,151,21	1,732,481.60	39,78922367	-80.6722622
18,700.00	89.00	149.65	11,725.62	-6,477.91	2,518.52	14,450,064.92	1,732,532.12	39.78898621	-80.6720835
18,800.00	89.00	149.65	11,727.36	-6,564.19	2,569.04	14,449,978.64	1,732,582.64	39.78874875	-80.6719048
18,900.00	89.00	149.65	11,729.11	-6,650.47	2,619.56	14,449,892.36	1,732,633.16	39.78851128	-80.6717261
19,000.00	89.00	149.65	11,730.85	-6,736,76	2,670.08	14,449,806.08	1,732,683.68	39,78827382	-80.6715474
19,100.00	89.00	149.65	11,732.60	-6,823.04	2,720.60	14,449,719.79	1,732,734.20	39,78803636	-80.6713687
19,200.00	89.00	149.65	11,734.34	-6,909.32	2,771.12	14,449,633.51	1,732,784.72	39.78779890	-80.6711899
19,300.00	89.00	149.65	11,736.09	-6,995.60	2,821.64	14,449,547.23	1,732,835.24	39.78756144	-80.6710112
19,400.00	89.00	149.65	11,737.83	-7,081.89	2,872.16	14,449,460.95	1,732,885.76	39.78732397	-80.6708325
19,500.00	89.00	149.65	11,739.58	-7,168,17	2,922.68	14,449,374.67	1,732,936,28	39,78708651	-80,6706538
19,600.00	89,00	149.65	11,741.32	-7,254,45	2,973.20	14,449,288.38	1,732,986,80	39,78684905	-80,6704751
19,700.00		149.65	11,743.07	-7,340,73	3,023.72	14,449,202.10	1,733,037.32	39.78661158	-80.6702964
19,800.00	89.00	149.65	11,744.81	-7,427.02	3,074.24	14,449,115.82	1,733,087.84	39,78637412	-80.6701177
19,900.00	89.00	149,65	11,746.56	-7,513,30	3,124.76	14,449,029.54	1.733,138.36	39,78613665	-80.6699390
20,000.00	89.00	149.65	11,748.30	-7,599.58	3,175.28	14,448,943.25	1,733,188.88	39,78589919	-80.6697603
20,100.00	89.00	149.65	11,750.05	-7,685,86	3,225,80	14,448,856.97	1,733,239,40	39,78566173	-80.6695816
20,200.00	89.00	149.65	11,751.79	-7,772.15	3,276.32	14,448,770.69	1,733,289.92	39.78542426	-80.6694029
20,300.00	89.00	149.65	11,753.54	-7.858.43	3,326.84	14,448,684.41	1,733,340.44	39.78518680	-80.6692242
20,400.00	89.00	149.65	11,755.28	-7,944.71	3,377.36	14,448,598.12	1,733,390.96	39.78494933	-80.6690455





Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Ten High 1S-14HU (B)
Company:	Tug Hill Operating LLC	TVD Reference:	GL=1310 @ 1310.00usft
Project:	Marshall County, West Virginia	MD Reference:	GL=1310 @ 1310.00usft
Site:	Ten High	North Reference:	Grid
Well:	Ten High 1S-14HU (B)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev2		

- 1.000 100

Planned Survey

89.00 89.00 89.00 89.00 89.00	149.65 149.65 149.65 149.65	11,757.03 11,758.77 11,760.52 11,762.27	-8,030.99 -8,117.27 -8,203.56 -8,289.84	3,427.88 3,478.40 3,528.92	14,448,511.84 14,448,425.56	1,733,441.48 1,733,492.00	39.78471186 39.78447440	-80,66886685 -80,66868816
89.00 89.00	149.65 149.65	11,760.52	-8,203.56		and the second se	1,733,492.00	39.78447440	-80,66868816
89.00	149.65		and the state of the state of the	3,528.92				
		11,762.27	NO 000 04		14,448,339,28	1,733,542,52	39.78423693	-80,66850947
89.00			-0,209.04	3,579.45	14,448,252.99	1,733,593.04	39.78399946	-80.66833078
	149.65	11,764.01	-8,376.12	3,629,97	14,448,166.71	1,733,643.56	39,78376200	-80.66815209
89.00	149.65	11,765.76	-8,462.40	3,680.49	14,448,080.43	1,733,694.09	39.78352453	-80.66797340
89.00	149.65	11,767.50	-8,548.69	3,731.01	14,447,994.15	1,733,744.61	39.78328706	-80.66779471
89.00	149.65	11,769.25	-8,634.97	3,781.53	14,447,907.87	1,733,795.13	39.78304959	-80.66761602
89.00	149.65	11,770.99	-8,721.25	3,832.05	14,447,821.58	1,733,845.65	39.78281213	-8D.66743734
89.00	149.65	11,772.74	-8,807.53	3,882.57	14,447,735.30	1,733,896.17	39.78257466	-80.66725865
89.00	149.65	11,774.48	-8,893.82	3,933.09	14,447,649.02	1,733,946.69	39.78233719	-80.66707997
89.00	149.65	11,776.23	-8,980.10	3,983.61	14,447,562.74	1,733,997.21	39.78209972	-80.66690129
89.00	149.65	11,777.97	-9,066.38	4,034.13	14,447,476.45	1,734,047.73	39.78186225	-80.66672261
89.00	149.65	11,779.00	-9,117.20	4,063.88	14,447,425.64	1,734,077.48	39,78172239	-80.66661737
15	89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00	89.00 149.65 89.00 149.65 89.00 149.65 89.00 149.65 89.00 149.65 89.00 149.65 89.00 149.65 89.00 149.65 89.00 149.65 89.00 149.65 89.00 149.65 89.00 149.65	89.00 149.65 11,767.50 89.00 149.65 11,769.25 89.00 149.65 11,770.99 89.00 149.65 11,772.74 89.00 149.65 11,774.48 89.00 149.65 11,776.23 89.00 149.65 11,777.97	89.00 149.65 11,767.50 -8,548.69 89.00 149.65 11,769.25 -8,634.97 89.00 149.65 11,770.99 -8,721.25 89.00 149.65 11,772.74 -8,807.53 89.00 149.65 11,774.48 -8,893.82 89.00 149.65 11,776.23 -8,800.10 89.00 149.65 11,777.97 -9,066.38 89.00 149.65 11,779.00 -8,117.20	89.00 149.65 11,767.50 -8,548.69 3,731.01 89.00 149.65 11,769.25 -8,634.97 3,781.53 89.00 149.65 11,770.99 -8,721.25 3,832.05 89.00 149.65 11,772.74 -8,807.53 3,882.57 89.00 149.65 11,774.48 -8,893.62 3,933.09 89.00 149.65 11,776.23 -8,980.10 3,983.61 89.00 149.65 11,777.97 -9,066.38 4,034.13 89.00 149.65 11,779.00 -9,117.20 4,063.88	89.00 149.65 11,767.50 -8,548.69 3,731.01 14,447,994.15 89.00 149.65 11,769.25 -8,634.97 3,781.53 14,447,907.87 89.00 149.65 11,770.99 -8,721.25 3,832.05 14,447,821.58 89.00 149.65 11,772.74 -8,807.53 3,882.57 14,447,735.30 89.00 149.65 11,776.23 -8,980.10 3,933.09 14,447,649.02 89.00 149.65 11,777.97 -9,066.38 4,034.13 14,447,476.45 89.00 149.65 11,779.00 -9,117.20 4,063.88 14,447,425.64	89.00149.6511,767.50-8,548.693,731.0114,447,994.151,733,744.6189.00149.6511,769.25-8,634.973,781.5314,447,907.871,733,795.1389.00149.6511,770.99-8,721.253,832.0514,447,821.581,733,845.6589.00149.6511,772.74-8,807.533,882.5714,447,735.301,733,896.1789.00149.6511,774.48-8,893.823,933.0914,447,649.021,733,946.6989.00149.6511,776.23-8,980.103,983.6114,447,562.741,733,997.2189.00149.6511,777.97-9,066.384,034.1314,447,476.451,734,047.7389.00149.6511,779.00-8,117.204,063.8814,447,425.641,734,077.48	89.00149.6511,767.50-8,548.693,731.0114,447,994.151,733,744.6139.7832870689.00149.6511,769.25-8,634.973,781.5314,447,907.871,733,795.1339.7830495989.00149.6511,770.99-8,721.253,832.0514,447,821.581,733,845.6539.7828121389.00149.6511,772.74-8,807.533,882.5714,447,735.301,733,896.1739.7625746689.00149.6511,774.48-8,893.623,933.0914,447,649.021,733,946.6939.7823371989.00149.6511,776.23-8,980.103,983.6114,447,562.741,733,997.2139.7620997289.00149.6511,777.97-9,066.384,034.1314,447,476.451,734,047.7339.7818622589.00149.6511,779.00-9,117.204,063.8814,447,425.641,734,077.4839.78172239

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Ten High 1S-14HU LP 5 - plan misses target - Point	0.00 center by 9.55	0.00 5usft at 1206	11,609.00 64.55usft MD	-747.84 (11608.19 TV	-824.90 D, -752.47 N,	14,455,794.99 -833.22 E)	1,729,188.70	39.80475542	-80.68391340
Ten High 1S-14HU LP - plan misses target - Point	0.00 center by 58.6		11,609.00 064.71usft MI	-724.59 D (11608.20 T	-781.59 VD, -752.61 N	14,455,818.25 N, -833.14 E)	1,729,232.01	39.80481885	-80.68375890
Ten High 1S-14HU BHL - plan hits target cen - Point	0.00 ter	0.00	11,779.00	-9,117.20	4,063.88	14,447,425.64	1,734,077.48	39.78172239	-80.66661737

Cas	ing	Po	ints
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Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter ("')	Hole Diameter (")
1,175.00	1,175.00	20" Casing @ 1175 TVD	20	24
2,980.64	2,980.00	13 3/8" Casing @ 2980 TVD	13-3/8	17-1/2
10,641.95	10,525.00	9 5/8" Casing @ 10525 TVD	9-5/8	12-1/4

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Plan Annotations

Planning Report - Geographic



Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Ten High 1S-14HU (B)
Company:	Tug Hill Operating LLC	TVD Reference:	GL=1310 @ 1310.00usft
Project:	Marshall County, West Virginia	MD Reference:	GL=1310 @ 1310.00usft
Site:	Ten High	North Reference:	Grid
	Ten High 1S-14HU (B)	Survey Calculation Method:	Minimum Curvature
Well: Wellbore:	Original Hole	Survey Calculation Method.	
Design:	rev2		

Measured	Vertical	Local Coor	dinates	
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
1,800.00	1,800.00	0.00	0.00	KOP Begin 1°/100' build
2,000.00	1,999.96	1.75	-3.02	Begin 2.00° tangent
3,500.00	3,499.05	27.92	-48,36	Begin 1°/100' drop
3,700.00	3,699.01	29.66	-51,38	Begin vertical hold section
8,001.00	8,000.00	29.66	-51.38	Begin 2°/100' build
8,984.66	8,964.45	-13.94	-212.82	Begin 19.67° tangent
11,167.59	11,019.96	-205.55	-922.30	Begin 10°/100' build/turn
12,108.90	11,610.58	-790.95	-811.33	Begin 89.00° lateral section
21,758,90	11,779.00	-9,117.20	4,063.88	PBHL/TD 21758.90 MD/11779.00 TVD

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WW-9 (4/16)	WV Department of Environmental Protection	API Number 47 - 051 - 01966
	DEPARTMENT OF	Operator's Well No. <u>ten High 18-14HU</u> E OF WEST VIRGINIA ENVIRONMENTAL PROTECTION CE OF OIL AND GAS
	FLUIDS/ CUTTINGS	DISPOSAL & RECLAMATION PLAN
Operator Na	me_Tug Hill Operating, LLC	OP Code _494510851
	and the second s	Quadrangle Glen Easton 7.5'
Will a pit be	used? Yes No V	complete the proposed well work? Yes No
Ifs	o, please describe anticipated pit waste:	Tanks with proper containment will be used for staging fresh water for frac and flow back water
	I a synthetic liner be used in the pit? Yes posed Disposal Method For Treated Pit Wast	No If so, what ml.? All functions and with perpercenting and the second with perpercenting and the second s
	Land Application Underground Injection (UIC) Reuse (at API Number	Permit NumberUIC 2459, UIC 965, UIC 359, UIC 2D0732540, UIC 2D0732523)
	Off Site Disposal (Supply form Other (Explain	n WW-9 for disposal location)
	oop system be used? If so, describe: Yes - F	
Drilling med	ium anticipated for this well (vertical and hor	rizontal)? Air, freshwater, oil based, etc. Air for vertical / Oil for Horizontal
-If c	il based, what type? Synthetic, petroleum, e	tc. Synthetic Oil Base
Additives to	be used in drilling medium? Barite for weight	
Drill cuttings	disposal method? Leave in pit, landfill, rem	oved offsite, etc. All drill cullings to be disposed of in a Landfill
-If I	eft in pit and plan to solidify what medium w	ill be used? (cement, lime, sawdust) N/A
-La	ndfill or offsite name/permit number?	uniy Sanitary Landlii (SWF-1021 / WV0109185) and Westmoreland Sanitary Landlii, LLC (SANH05 / PA DEP EC#(196426)
West Virgini	all provide written notice to the Office of Oil a solid waste facility. The notice shall be pro properly disposed.	and Gas of any load of drill cuttings or associated waste rejected at any vided within 24 hours of rejection and the permittee shall also disclose
on August 1, provisions of law or regula	2005, by the Office of Oil and Gas of the We the permit are enforceable by law. Violation tion can lead to enforcement action.	and conditions of the GENERAL WATER POLLUTION PERMIT issued est Virginia Department of Environmental Protection. I understand that the ons of any term or condition of the general permit and/or other applicable
application f obtaining the	orm and all attachments thereto and that,	onally examined and am familiar with the information submitted on this based on my inquiry of those individuals immediately responsible for n is true, accurate, and complete. I am aware that there are significant ossibility of fine or imprisonment.
Company Of	ficial Signature	
Company Of	ficial (Typed Name) Sean Sasser	
Company Of	ficial Title Engineer	
Subscribed an	nd sworn before me this 14 2m day	of August, 20 14- lin McCauley Notary Public Kaltlin McCauley

08/2021

My commission expires

Notary Public, State of Texas Comm. Expires 05-08-2021 Notary ID 131118468 07/20/2018 Form WW-9

Operator's Well No. Ten High 18-14HU

Tug Hill Operating, LL			~ ~ ~
Proposed Revegetation Treatme	nt: Acres Disturbed 16.20	Prevegetation pH	6.0
Lime 3	_ Tons/acre or to correct to pH	6.5	
Fertilizer type <u>10-20-</u>	20		
Fertilizer amount 500	lbs/	acre	
Mulch 2.5	Tons/ac	re	
	Seed	Mixtures	
Temp	orary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Ryegrass	40	Orchard Grass	12
Spring Oats	96	Ladino	3
		White Clover	2

Attach:

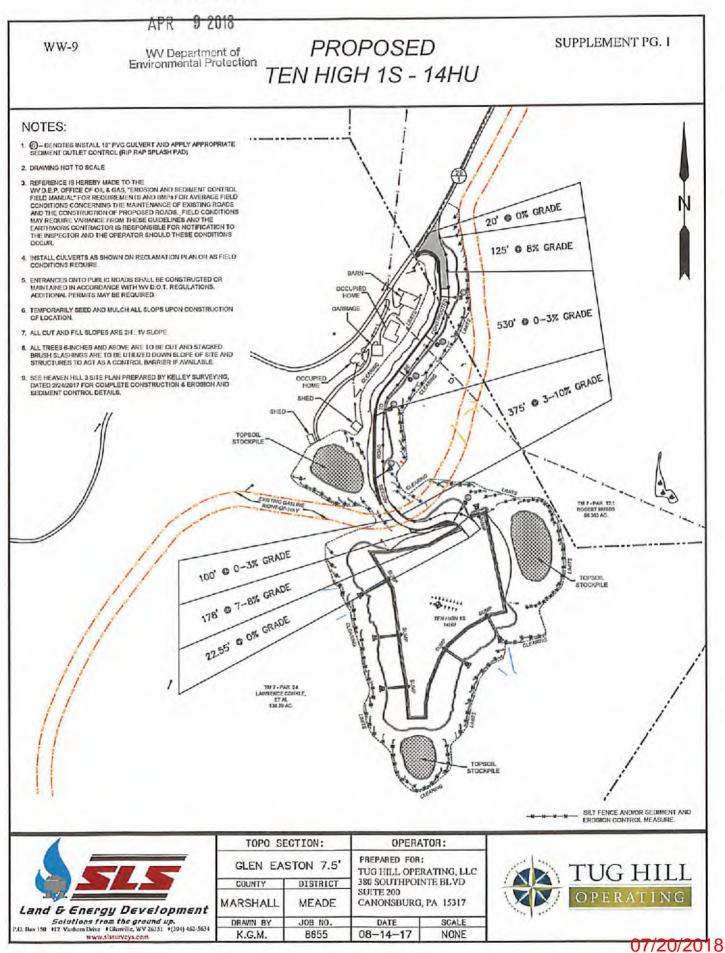
Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions ($L \times W \times D$) of the pit, and dimensions ($L \times W$), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Jun Unlever	
Comments:	
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	APR 9 2018
	WV Department of Environmental Protection
Title: 0,1 + Cars / corporter Date: 0/1=/1	7
Field Reviewed? ()Yes ()No	

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51-01966



Ju 28/18

Well Site Safety Plan Tug Hill Operating, LLC

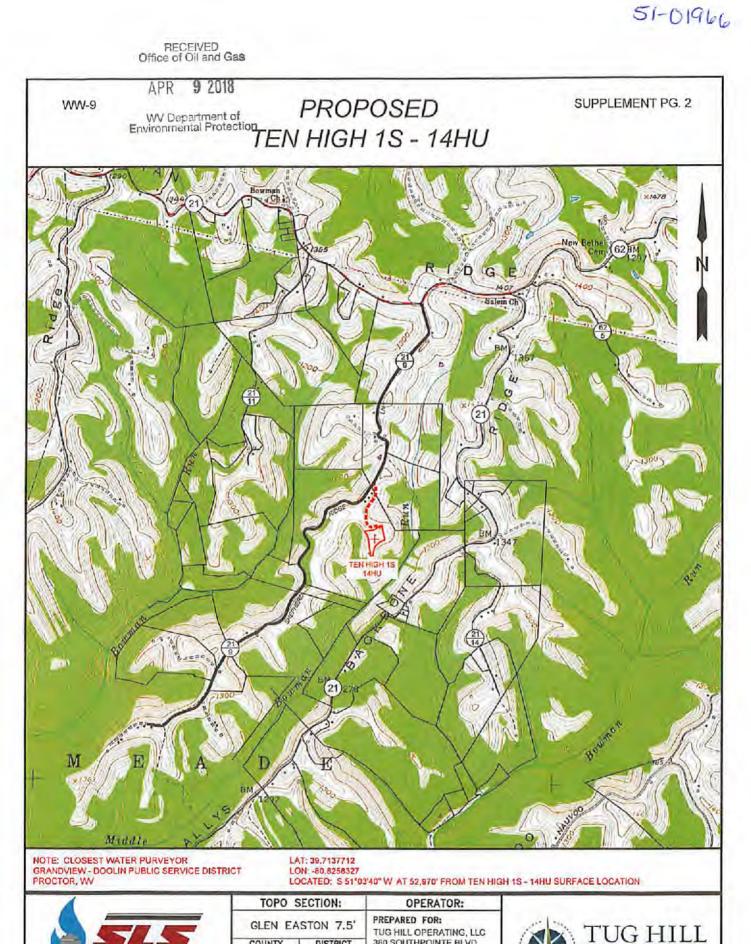
Well Name: Ten High 1S-14HU

Pad Location: Ten High

Marshall County, West Virginia

UTM (meters), NAD83, Zone 17: NORTHING -4,406,363.07 EASTING -527,309.20

March 2018



 COUNTY
 DISTRICT
 360 SOUTHPOINTE BLVD

 MARSHALL
 MEADE
 SUITE 200

 CANONSBURG, PA 15317
 CANONSBURG, PA 15317

 DRAWN BY
 JOB NO.
 DATE

 K.G.M.
 8655
 08-14-17
 1" - 2000'

Land & Energy Development Solutions from the ground up. 20. Bex 160 112 Vanham Drive 1 Glandia, WV 26351 1 (304) 462-563www.sissurveys.com

07/20/2018

OPERATING

WW-6A1 (5/13) Operator's Well No. Ten High 1S-14HU

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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WV Department of Environmental Protection

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

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

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

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

Well Operator:	Tug Hill Operating, LLC	
By:	Amy L. Miller any Sulles	
lts:	Permitting Specialist Appalachia Region	

Page 1 of

07/20/2018

Operator's Well No. <u>Ten High 1S</u> 14HU
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္ဘWW-6A1 S ၊	uppl	emen	t							Operator's Well No.	Ten High 1S 14HU
C Lease Name or No	Tag	Parcel	Grantor, Lessor, etc.		Grantee, Lessee, etc.	Royalty	Deed Book	/ Page	Assignment	Assignment	Assignment
Q 10*15662	A	9-7-24	LARRY LEE CONKLE		CHEVRON USA INC	1/8+	863	354	N/A	N/A	Chevron to Tug Hill: 36/148
V 10*15663	A	9-7-24	ROY A CONKLE SR		CHEVRON USA INC	1/8+	863	311	N/A	N/A	Chevron to Tug Hill: 36/148
10*15664	A	9-7-24	THERESA ANNE HUGHES		CHEVRON USA INC	1/8+	863	343	N/A	N/A	Chevron to Tug Hill: 36/148
10*15666	A	9-7-24	BRENDA J WHETZEL		CHEVRON USA INC	1/8+	863	635	N/A	N/A	Chevron to Tug Hill: 36/148
10*16049	Â	9-7-24	DANNY SHAWN KERNS AND AMY LYNN KERNS		TH EXPLORATION LLC	1/8+	905	518	N/A	N/A	N/A
10*16138	Â	9-7-24	LARRY W KUHN AND VICKIE B KUHN, HUSBAND AND WIFE		TH EXPLORATION LLC	1/8+	905	522	N/A	N/A	N/A
10*16139	A	9-7-24		EIVED	TH EXPLORATION LLC	1/8+	905	524	N/A	N/A	N/A
10*16140	Ā	9-7-24		Dil and Gas	TH EXPLORATION LLC	1/8+	905	526	N/A	N/A	N/A
10*16141	Â	9-7-24	HOWARD L KUHN AND MARY L KUHN		TH EXPLORATION LLC	1/8+	905	528	N/A	N/A	N/A
10*16820	Ā	9-7-24	ROBERTA ANN AND DAVID S GIBB APR	9 2018	TH EXPLORATION LLC	1/8+		237	N/A	N/A	N/A
10*17365	Â	9-7-24	MYSTI JOANNE GOODMAN		TH EXPLORATION LLC	1/8+	927	468	N/A	N/A	N/A
10*17370	Ā	9-7-24		artment of	TH EXPLORATION LLC	1/8+	927	470	N/A	N/A	N/A
10*18256	Â	9-7-24	JEFFREY STEPHEN GOODMAN Environmen	tal Protection	TH EXPLORATION LLC	1/8+	929	1	N/A	N/A	N/A
10*47051.295.10	Â	9-7-24	DEENA J PALOMO		TH EXPLORATION LLC	1/8+	905	470	N/A	N/A	N/A
10*47051.295.10	Â	9-7-24	REGINA D FIGUEROA AND DAVID FIGUEROA		TH EXPLORATION LLC	1/8+	905	435	N/A	N/A	N/A
10*47051.295.12	Â	9-7-24	EARL D WELLMAN		TH EXPLORATION LLC	1/8+	905	432	N/A	N/A	N/A
10*47051.295.13	Ā	9-7-24	THE DOLLYE F WOOD REVOCABLE TRUST BY NICHOLAS CHARLES WOOD	AS TRUSTEE	TH EXPLORATION LLC	1/8+	904	641	N/A	N/A	N/A
10*47051.295.3	Â	9-7-24	HAZEL ARIZONA MOORE REYNOLDS		TH EXPLORATION LLC	1/8+	904	632	N/A	N/A	N/A
10*47051.295.4	Â	9-7-24	LLOYD D MOORE		TH EXPLORATION LLC	1/8+	904	459	N/A	N/A	N/A
10*47051.295.5	Â	9-7-24	DALE R MOORE		TH EXPLORATION LLC	1/8+	904	635	N/A	N/A	N/A
10*47051.295.6	Â	9-7-24	MARY I BURKHART		TH EXPLORATION LLC	1/8+	904	638	N/A	N/A	N/A
10*47051.295.7	Ā	9-7-24	JEANNE V MELCHIORI		TH EXPLORATION LLC	1/8+	904	462	N/A	N/A	N/A
10*47051.295.9	Â	9-7-24	JAMES E HIMELRICK JR AND KAREN HIMELRICK		TH EXPLORATION LLC	1/8+	904	465	N/A	N/A	N/A
10*47031.293.9	В	9-7-24 9-7-23	BRUCE D SCHURR		TH EXPLORATION LLC	1/8+	921	478	N/A	N/A	N/A
10*15748	B	9-7-23 9-7-23	TOMMY BONAR AND TANYA S BONAR		TH EXPLORATION LLC	1/8+	925	325	N/A	N/A	N/A
10*16115	B	9-7-23	EARL W HARRIS		TH EXPLORATION LLC	1/8+		329	N/A	N/A	N/A
10*16113	B	9-7-23 9-7-23	CAROL RIGGLE PARSLEY AND JAMES DENNIS PARSLEY		TH EXPLORATION LLC	1/8+	925	327	N/A	N/A	N/A
10*17415		9-7-23	DILLON PITSENBARGER		TH EXPLORATION LLC	1/8+	919	241	N/A	N/A	N/A
10*17506	B	9-7-23	CHASKIA F HARRIS AND JAMES M HARRIS		TH EXPLORATION LLC	1/8+		239	N/A	N/A	N/A
10*17507	B	9-7-23 9-7-23	DEZRAY METCALF		TH EXPLORATION LLC	1/8+	919	235	N/A	N/A	N/A
10*47051.256.1	B	9-7-23	BRENDA J WHETZEL		TH EXPLORATION LLC	1/8+	881	145	N/A	N/A	N/A
	B	9-7-23	GRACE LAURA BONAR		TH EXPLORATION LLC	1/8+	905	35	N/A	N/A	N/A
10*47051.256.10	B	9-7-23	JOHN L MASON		TH EXPLORATION LLC	1/8+	905	37	N/A	N/A	N/A
10*47051.256.11	B	9-7-23 9-7-23	STEVEN A BOHRER		TH EXPLORATION LLC	1/8+	905	39	N/A	N/A	N/A
10*47051.256.12	B	9-7-23	WILLIAM W CRAIG AND GLENDA L CRAIG		TH EXPLORATION LLC	1/8+	905	41	N/A	N/A	N/A
10*47051.256.13		9-7-23 9-7-23	HUGH R BUZZARD		TH EXPLORATION LLC	1/8+	905	43	N/A	N/A	N/A
10*47051.256.14	В	9-7-23 9-7-23	CHARLOTTE J BONAR YOHO		TH EXPLORATION LLC	1/8+	904	455	N/A	N/A	N/A
10*47051.256.15	B	9-7-23 9-7-23	CHARLOTTE B HUMMELL		TH EXPLORATION LLC	1/8+	905	45	N/A	N/A	N/A
10*47051.256.16	B B				TH EXPLORATION LLC	1/8+	904	457	N/A	N/A	N/A
10*47051.256.17	В	9-7-23	MAXINE G JOHNSON			1/8+	913	522	N/A	N/A	N/A

TH EXPLORATION LLC

TH EXPLORATION LLC

522

207

N/A

N/A

N/A

N/A

N/A

N/A

1/8+

1/8+

913

907

10*47051.256.18

10*47051.256.19

9-7-23

В

В

JOHN WILLIAM BONAR AND SHIRLEY BONAR

9-7-23 MICHAEL DAVID PYLES AND CYNTHIA A PYLES

う み WW-6A1 Su	ıppl	emen	t								Operator's Well No. <u>T</u>	en High 1S 14
Lease Name or No	Tag	Parcel	Grantor, Lessor, etc.			Grantee, Lessee, etc.	Royalty	Deed Boo	ok / Page	Assignment	Assignment	Assignment
N 10*47051.256.20	В	9 -7-23	JEFFREY THOMAS PYLES AND TERESA A PYLES			TH EXPLORATION LLC	1/8+	907	209	N/A	N/A	N/A
10*47051.256.21	в	9-7-23	JACK L MASON AND JEAN M MASON	DEan		TH EXPLORATION LLC	1/8+	904	626	N/A	N/A	N/A
10*47051.256.22	в	9-7-23	BEVERLY J HOPSON	RECEN Office of Oil	VED	TH EXPLORATION LLC	1/8+	913	581	N/A	N/A	N/A
10*47051.256.23	в	9-7-23	ROBERT L BONAR		and Gas	TH EXPLORATION LLC	1/8+	913	556	N/A	N/A	N/A
10*47051.256.24	В	9-7-23	CATHERINE BONAR PETTIT BILLIE	APR g	2018	TH EXPLORATION LLC	1/8+	904	628	N/A	N/A	N/A
10*47051.256.7	в	9-7-23	MARILYN SUE BUMER			TH EXPLORATION LLC	1/8+	905	29	N/A	N/A	N/A
10*47051.256.8	в	9-7-23	PAMELA ANN MASON	WV Departm Environmental P		TH EXPLORATION LLC	1/8+	905	31	N/A	N/A	N/A
10*47051.256.9	в	9-7-23	WANDA MASON SUNSHINE	Environmental P	rotection	TH EXPLORATION LLC	1/8+	905	33	N/A	N/A	N/A
10*15746	с	9-11-7	BRUCE D SCHURR			TH EXPLORATION LLC	1/8+	921	478	N/A	N/A	N/A
10*16021	С	9-11-7	TOMMY BONAR AND TANYA S BONAR			TH EXPLORATION LLC	1/8+	925	325	N/A	N/A	N/A
10*16115	с	9-11-7	EARL W HARRIS			TH EXPLORATION LLC	1/8+	925	329	N/A	N/A	N/A
10*16247	с	9 -11-7	CAROL RIGGLE PARSLEY AND JAMES DENNIS PARSLE	Y		TH EXPLORATION LLC	1/8+	925	327	N/A	N/A	N/A
10*17415	С	9-11-7	DILLON PITSENBARGER			TH EXPLORATION LLC	1/8+	919	241	N/A	N/A	N/A
10*17506	С	9-11-7	CHASKIA F HARRIS AND JAMES M HARRIS			TH EXPLORATION LLC	1/8+	919	239	N/A	N/A	N/A
10*17507	с	9 -11-7	DEZRAY METCALF			TH EXPLORATION LLC	1/8+	919	235	N/A	N/A	N/A
10*47051.256.1	с	9-11-7	BRENDA J WHETZEL			TH EXPLORATION LLC	1/8+	881	145	N/A	N/A	N/A
10*47051.256.10	С	9-11-7	GRACE LAURA BONAR			TH EXPLORATION LLC	1/8+	905	35	N/A	N/A	N/A
10*47051.256.11	с	9-11-7	JOHN L MASON			TH EXPLORATION LLC	1/8+	905	37	N/A	N/A	N/A
10*47051.256.12	с	9-11-7	STEVEN A BOHRER			TH EXPLORATION LLC	1/8+	905	39	N/A	N/A	N/A
10*47051.256.13	С	9-11-7	WILLIAM W CRAIG AND GLENDA L CRAIG			TH EXPLORATION LLC	1/8+	905	41	N/A	N/A	N/A
10*47051.256.14	с	9-11-7	HUGH R BUZZARD			TH EXPLORATION LLC	1/8+	905	43	N/A	N/A	N/A
10*47051.256.15	с	9-11-7	CHARLOTTE J BONAR YOHO			TH EXPLORATION LLC	1/8+	904	455	N/A	N/A	N/A
10*47051.256.16	с	9-11-7	CHARLOTTE B HUMMELL			TH EXPLORATION LLC	1/8+	905	45	N/A	N/A	N/A
10*47051.256.17	с	9-11-7	MAXINE G JOHNSON			TH EXPLORATION LLC	1/8+	904	457	N/A	N/A	N/A
10*47051.256.18	с	9-11-7	JOHN WILLIAM BONAR AND SHIRLEY BONAR			TH EXPLORATION LLC	1/8+	913	522	N/A	N/A	N/A
10*47051.256.19	с	9-11-7	MICHAEL DAVID PYLES AND CYNTHIA A PYLES			TH EXPLORATION LLC	1/8+	907	207	N/A	N/A	N/A
10*47051.256.20	С	9-11-7	JEFFREY THOMAS PYLES AND TERESA A PYLES			TH EXPLORATION LLC	1/8+	907	209	N/A	N/A	N/A
10*47051.256.21	С	9-11-7	JACK L MASON AND JEAN M MASON			TH EXPLORATION LLC	1/8+	904	626	N/A	N/A	N/A
10*47051.256.22	С	9-11-7	BEVERLY J HOPSON			TH EXPLORATION LLC	1/8+	913	581	N/A	N/A	N/A
10*47051.256.23	С	9-11-7	ROBERT L BONAR			TH EXPLORATION LLC	1/8+	913	556	N/A	N/A	N/A
10*47051.256.24	С	9-11-7	CATHERINE BONAR PETTIT BILLIE			TH EXPLORATION LLC	1/8+	904	628	N/A	N/A	N/A
10*47051.256.7	с	9-11-7	MARILYN SUE BUMER			TH EXPLORATION LLC	1/8+	905	29	N/A	N/A	N/A
10*47051.256.8	С	9-11-7	PAMELA ANN MASON			TH EXPLORATION LLC	1/8+	905	31	N/A	N/A	N/A
10*47051.256.9	с	9-11-7	WANDA MASON SUNSHINE			TH EXPLORATION LLC	1/8+	905	33	N/A	N/A	N/A
10*15746	D	9-11-7.3	L BRUCE D SCHURR			TH EXPLORATION LLC	1/8+	921	478	N/A	N/A	N/A
10*16021	D	9-11-7.:	L TOMMY BONAR AND TANYA S BONAR			TH EXPLORATION LLC	1/8+	925	325	N/A	N/A	N/A
10*16115	D	9-11-7.3	L EARL W HARRIS			TH EXPLORATION LLC	1/8+	925	329	N/A	N/A	N/A
10*16247	D	9-11-7.:	L CAROL RIGGLE PARSLEY AND JAMES DENNIS PARSLE	Y		TH EXPLORATION LLC	1/8+	925	327	N/A	N/A	N/A
10*17415	D	9-11-7.	1 DILLON PITSENBARGER			TH EXPLORATION LLC	1/8+	919	241	N/A	N/A	N/A
10*17506	D	9-11-7.	1 CHASKIA F HARRIS AND JAMES M HARRIS			TH EXPLORATION LLC	1/8+	919	239	N/A	N/A	N/A
10*17507	D	9-11-7.	1 DEZRAY METCALF			TH EXPLORATION LLC	1/8+	919	235	N/A	N/A	N/A

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Lease Name or No	Tag	Parcel	Grantor, Lessor, etc.		Grantee, Lessee, etc.	Royalty	Deed Book / Page	Assignment	Assignment	Assignment
Q10*47051.256.1	D		BRENDA J WHETZEL	A Stand Gas	TH EXPLORATION LLC	1/8+	881 145	N/A	N/A	N/A
10*47051.256.10	D	9-11-7.1	GRACE LAURA BONAR	APR 9 2018	TH EXPLORATION LLC	1/8+	905 35	N/A	N/A	N/A
N ^{10*47051.256.11}	D		JOHN L MASON	0 2018	TH EXPLORATION LLC	1/8+	905 37	N/A	N/A	N/A
V) 10*47051.256.12	D	9-11-7.1	STEVEN A BOHRER	WV Department of Environmental Protection	TH EXPLORATION LLC	1/8+	905 39	N/A	N/A	N/A
10*47051.256.13	D	9-11-7.1	WILLIAM W CRAIG AND GLENDA L CRAIG	-invironmental Protection	TH EXPLORATION LLC	1/8+	905 41	N/A	N/A	N/A
10*47051.256.14	D		HUGH R BUZZARD		TH EXPLORATION LLC	1/8+	905 43	N/A	N/A	N/A
10*47051.256.15	D	9-11-7.1	CHARLOTTE J BONAR YOHO		TH EXPLORATION LLC	1/8+	904 455	N/A	N/A	N/A
10*47051.256.16	D	9-11-7.1	CHARLOTTE B HUMMELL		TH EXPLORATION LLC	1/8+	905 45	N/A	N/A	N/A
10*47051.256.17	D	9-11-7.1	MAXINE G JOHNSON		TH EXPLORATION LLC	1/8+	904 457	N/A	N/A	N/A
10*47051.256.18	D	9-11-7.1	JOHN WILLIAM BONAR AND SHIRLEY BONAR		TH EXPLORATION LLC	1/8+	913 522	N/A	N/A	N/A
10*47051.256.19	D	9-11-7.1	MICHAEL DAVID PYLES AND CYNTHIA A PYLES		TH EXPLORATION LLC	1/8+	907 207	N/A	N/A	N/A
10*47051.256.20	D	9-11-7.1	JEFFREY THOMAS PYLES AND TERESA A PYLES		TH EXPLORATION LLC	1/8+	907 209	N/A	N/A	N/A
10*47051.256.21	D	9-11-7.1	JACK L MASON AND JEAN M MASON		TH EXPLORATION LLC	1/8+	904 626	N/A	N/A	N/A
10*47051.256.22	D	9-11-7.1	BEVERLY J HOPSON		TH EXPLORATION LLC	1/8+	913 581	N/A	N/A	N/A
10*47051.256.23	D	9-11-7.1	ROBERT L BONAR		TH EXPLORATION LLC	1/8+	913 556	N/A	N/A	N/A
10*47051.256.24	D	9-11-7.1	CATHERINE BONAR PETTIT BILLIE		TH EXPLORATION LLC	1/8+	904 628	N/A	N/A	N/A
10*47051.256.7	D	9-11-7.1	MARILYN SUE BUMER		TH EXPLORATION LLC	1/8+	905 2 9	N/A	N/A	N/A
10*47051.256.8	D	9-11-7.1	PAMELA ANN MASON		TH EXPLORATION LLC	1/8+	905 31	N/A	N/A	N/A
10*47051.256.9	D	9-11-7.1	WANDA MASON SUNSHINE		TH EXPLORATION LLC	1/8+	905 33	N/A	N/A	N/A
10*15481	Е	9-7 - 25.2	DEAN P RIGBY AND SUSAN RIGBY		TH EXPLORATION LLC	1/8+	908 197	N/A	N/A	N/A
10*15482	Е	9-7-25.2	SUSAN NELSON		TH EXPLORATION LLC	1/8+	908 203	N/A	N/A	N/A
10*15686	Е	9-7-25.2	JOHN OMER BOLTZ		TH EXPLORATION LLC	1/8+	908 160	N/A	N/A	N/A
10*15750	Е	9-7-25.2	SANDRA K TRULL		TH EXPLORATION LLC	1/8+	908 229	N/A	N/A	N/A
10*16058	E	9-7 - 25.2	MATTIE RUTH JACKSON PRESCOTT		TH EXPLORATION LLC	1/8+	908 231	N/A	N/A	N/A
10*16118	Ε		RUBY RIDDLE JACKSON		TH EXPLORATION LLC	1/8+	908 233	N/A	N/A	N/A
10*16297	Е	9-7-25.2	ROBERT A LEADBETTER AND M REBECCA LEADBETTER		TH EXPLORATION LLC	1/8+	908 235	N/A	N/A	N/A
10*16298	Е	9-7-25.2	GEOFFREY A SHIEFER AND STEPHANIE L SCHIEFER		TH EXPLORATION LLC	1/8+	908 238	N/A	N/A	N/A
10*16383	E	9-7-25.2	ROBERT STEPHEN DRIGGERS		TH EXPLORATION LLC	1/8+	908 224	N/A	N/A	N/A
10*16414	E	9-7-25.2	MARY ELIZABETH DRIGGERS		TH EXPLORATION LLC	1/8+	908 208	N/A	N/A	N/A
10*16415	Е	9-7-25.2	TERENCE J ANDERSON AND NANCY J ANDERSON		TH EXPLORATION LLC	1/8+	908 213	N/A	N/A	N/A
10*16416	E	9-7-25.2	CYNTHIA HUDSON		TH EXPLORATION LLC	1/8+	908 319	N/A	N/A	N/A
10*16424	Е	9-7-25.2	ROBERT J RIGBY		TH EXPLORATION LLC	1/8+	908 241	N/A	N/A	N/A
10*16448	E		RALPH L AND JUANITA L CRIM		TH EXPLORATION LLC	1/8+	908 584	N/A	N/A	N/A
10*16478	Ε		MARION L AND EMILY CAMPBELL		TH EXPLORATION LLC	1/8+	908 245	N/A	N/A	N/A
10*16514	Е	• • • • • • •	ALEX RUSSELL AND JOYCE A CAMPBELL		TH EXPLORATION LLC	1/8+	908 248	N/A	N/A	N/A
10*16515	Е		ANNA MARIE JACKSON		TH EXPLORATION LLC	1/8+	908 251	N/A	N/A	N/A
10*16516	Ε		WILSON ANDREW JACKSON		TH EXPLORATION LLC	1/8+	908 253	N/A	N/A	N/A
10*16545	Ε		ROBERT G & ELLEN FOUNDS		TH EXPLORATION LLC	1/8+	908 260	N/A	N/A	N/A
10*16662	Ε		2 RICHARD THOMAS AND VICKI J MIMS		TH EXPLORATION LLC	1/8+	908 863	N/A	N/A	N/A
10*16666	Ε		2 MICHAEL P PYLE		TH EXPLORATION LLC	1/8+	908 255	N/A	N/A	N/A
10*16667	E	9-7-25.2	2 CHARLES F AND GAIL ANN PYLE		TH EXPLORATION LLC	1/8+	908 266	N/A	N/A	N/A

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Lease Name or No	Tag		Grantor, Lessor, etc.		Grantee, Lessee, etc.	Royalty	Deed Bool		Assignment	Assignment	Assignment
10*16668	Е	-	JACK I AND MERRILEE PYLE	APR 92018	TH EXPLORATION LLC	1/8+	908	257	N/A	N/A	N/A
<u> </u>	Е		JOHN S AND PATRICIA S DADO	140 (-	TH EXPLORATION LLC	1/8+	908	269	N/A	N/A	N/A
\ ∩ 10*16686	E		CHERYLE M TRACEY	WV Department of Environmental Protection	TH EXPLORATION LLC	1/8+	908	269	N/A	N/A	N/A
10*16688	Е	_	SHERRYL PYLE BAIR	Protection	TH EXPLORATION LLC	1/8+	927	475	N/A	N/A	N/A
10*16689	Ε	+	JOHN C FOUNDS		TH EXPLORATION LLC	1/8+	927	481	N/A	N/A	N/A
10*16690	Е	9-7-25.2	RICARDO ORTIZ		TH EXPLORATION LLC	1/8+	927	478	N/A	N/A	N/A
10*16720	Е	9-7-25.2	DONNA ELAINE BRASKETT		TH EXPLORATION LLC	1/8+	921	352	N/A	N/A	N/A
10*16738	E	9-7-25.2	CHARLES A RINE AND RUTH K RINE		TH EXPLORATION LLC	1/8+	921	152	N/A	N/A	N/A
10*16742	Ε	9-7-25.2	PAUL C WILSON		TH EXPLORATION LLC	1/8+	927	490	N/A	N/A	N/A
10*16747	Е	9-7-25.2	WILLIAM DALE BRASKETT		TH EXPLORATION LLC	1/8+	921	96	N/A	N/A	N/A
10*16787	Е	9 -7-25.2	HERBERT BRIAN AND DONNA DRU CAMPBELL		TH EXPLORATION LLC	1/8+	921	364	N/A	N/A	N/A
10*16798	Е	9-7-25.2	PATRICK A RANKIN AND ROBIN A RANKIN		TH EXPLORATION LLC	1/8+	921	364	N/A	N/A	N/A
10*16800	Е	9-7-25.2	JAMES KENNETH JACKSON AND JULIE JACKSON		TH EXPLORATION LLC	1/8+	921	93	N/A	N/A	N/A
10*16802	Ε	9-7-25.2	CHRISTOPHER AND TAMMY RICHARDSON		TH EXPLORATION LLC	1/8+	921	495	N/A	N/A	N/A
10*16804	Ε	9-7- 25.2	WILLIAM N AND SHERRY D TAYLOR		TH EXPLORATION LLC	1/8+	921	510	N/A	N/A	N/A
10*16806	Е	9-7-25.2	VIRGINIA I WHITMAN		TH EXPLORATION LLC	1/8+	921	528	N/A	N/A	N/A
10*16807	Ε	9-7-25.2	DAVID TULLER AND SUSAN STORTS TULLER		TH EXPLORATION LLC	1/8+	921	513	N/A	N/A	N/A
10*16808	Ε	9-7-25.2	MICHAEL L ORTIZ		TH EXPLORATION LLC	1/8+	921	349	N/A	N/A	N/A
10*16815	Е	9-7-25.2	HAROLD W PYLE		TH EXPLORATION LLC	1/8+	921	357	N/A	N/A	N/A
10*16819	Е	9-7-25.2	TERESA ORTIZ BIGGS		TH EXPLORATION LLC	1/8+	921	147	N/A	N/A	N/A
10*16821	Е	9-7-25.2	SHEILA BRASKETT WEICHEY		TH EXPLORATION LLC	1/8+	921	516	N/A	N/A	N/A
10*16836	Ε	9-7-25.2	RICK A AND LENORE A STORTS		TH EXPLORATION LLC	1/8+	921	507	N/A	N/A	N/A
10*16837	Ε	9-7-25.2	TERRY L AND THELMA A POFF		TH EXPLORATION LLC	1/8+	927	472	N/A	N/A	N/A
10*16838	Е	9-7-25.2	ROBERT G FUNARI		TH EXPLORATION LLC	1/8+	921	82	N/A	N/A	N/A
10*16839	Е	9-7-25.2	JAMES B FOUNDS AND LYNN M MOWERY		TH EXPLORATION LLC	1/8+	921	73	N/A	N/A	N/A
10*16863	Ε	9-7-25.2	TINA MOORE		TH EXPLORATION LLC	1/8+	921	334	N/A	N/A	N/A
10*16868	Ε	9-7-25.2	MICHAEL W STORTS AND JESSICA M STORTS		TH EXPLORATION LLC	1/8+	921	504	N/A	N/A	N/A
10*16879	Е	9-7-25.2	MARK E AND LESLEY A STORTS		TH EXPLORATION LLC	1/8+	921	501	N/A	N/A	N/A
10*16880	Е	9-7-25.2	BEVERLY ANN STORTS		TH EXPLORATION LLC	1/8+	921	498	N/A	N/A	N/A
10*16902	Е	9-7-25.2	MARY BARCAW DUKE		TH EXPLORATION LLC	1/8+	921	105	N/A	N/A	N/A
10*16962	Ε	9-7-25.2	DENNIS P AND BARBARA EZELL FLORY		TH EXPLORATION LLC	1/8+	921	70	N/A	N/A	N/A
10*16976	Е	9-7-25.2	LESTER G AND CONSTANCE B NICKOLSON		TH EXPLORATION LLC	1/8+	921	343	N/A	N/A	N/A
10*16977	Е	9-7-25.2	JEREMY COCHENOUR		TH EXPLORATION LLC	1/8+	921	102	N/A	N/A	N/A
10*16987	E	9-7-25.2	LAURIE EZELL PERRY		TH EXPLORATION LLC	1/8+	921	355	N/A	N/A	N/A
10*16989	Ε	9-7-25.2	BRITTANY RICHARDSON		TH EXPLORATION LLC	1/8+	921	376	N/A	N/A	N/A
10*16991	E	9-7-25.2	MARYELLEN FOUNDS AND LAUREN FOUNDS		TH EXPLORATION LLC	1/8+	921	79	N/A	N/A	N/A
10*16996	Ē		THOMAS RANKIN		TH EXPLORATION LLC	1/8+	917	75	N/A	N/A	N/A
10*17130	E	- · ·	CINDY L BARGER		TH EXPLORATION LLC	1/8+	921	137	N/A	N/A	N/A
10*17155	Ē		JESSE LEON JR AND TERESA GAIL EZELLE		TH EXPLORATION LLC	1/8+	921	118	N/A	N/A	N/A
10*17156	E		HENRI NELL JACKSON KENT BARNES		TH EXPLORATION LLC	1/8+	921	139	N/A	N/A	N/A
10*17157	Ē		JAMES N REEVES JR AND RITA M REEVES		TH EXPLORATION LLC	1/8+	921	367	N/A	N/A	N/A

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9 6 7 7 8 7 8 7 8 7 8 7 8 7 8 8 8 8 8 8 8	Tag	Parcel	Grantor, Lessor, etc.	RECEIVED	Grantee, Lessee, etc.	Royalty	Deed Book /	Page	Assignment	Assignment	Assignment
O 10*17198	E		THOMAS G AND DIANE W BAYLESS	Office of Oil and Gas	TH EXPLORATION LLC	1/8+	921	141	N/A	N/A	N/A
	Ē	-	SANDRA JEAN WILSON	4.5.5	TH EXPLORATION LLC	1/8+	921 5	524	N/A	N/A	N/A
ν 10 ^{*17208}	E		PATRICK S GALLAGHER AND JOYCE ANN FOUNDS	APR 9 2018	TH EXPLORATION LLC	1/8+	921	86	N/A	N/A	N/A
10*17274	E		DAVID H WILSON		TH EXPLORATION LLC	1/8+	921	474	N/A	N/A	N/A
10*17275	Ē		JOHN R REEVES AND MONA G REEVES	WV Department of Environmental Proto	TH EXPLORATION LLC	1/8+	921 3	373	N/A	N/A	N/A
10*17276	Ē		BERTHA EZELL WYATT	Environmental Protection	TH EXPLORATION LLC	1/8+	921 9	526	N/A	N/A	N/A
10*17278	E	9-7-25.2	MICHAEL L EZELLE		TH EXPLORATION LLC	1/8+	921 :	121	N/A	N/A	N/A
10*17339	Ē		JOSEPH W FOUNDS		TH EXPLORATION LLC	1/8+	921	76	N/A	N/A	N/A
10*17377	E	9-7-25.2	MILTON HOWARD EZELLE JR AND ELIZABETH A EZELLE		TH EXPLORATION LLC	1/8+	921 :	123	N/A	N/A	N/A
10*17416	E		ANDREW M ORTIZ		TH EXPLORATION LLC	1/8+	921 3	346	N/A	N/A	N/A
10*17438	E	9-7-25.2	DENNIS M WILSON		TH EXPLORATION LLC	1/8+	921 4	476	N/A	N/A	N/A
10*17440	E		KENDRA WALISA		TH EXPLORATION LLC	1/8+	927 4	484	N/A	N/A	N/A
10*17441	E	9-7-25.2	RALPH J WILSON		TH EXPLORATION LLC	1/8+	921 5	522	N/A	N/A	N/A
10*17442	E		SHANE ALLEN AND MENDY JEAN ALLEN		TH EXPLORATION LLC	1/8+	921 :	134	N/A	N/A	N/A
10*17443	E		MICHELLE MORROW-BACK		TH EXPLORATION LLC	1/8+	921 3	337	N/A	N/A	N/A
10*17444	Ē		KELLY FOUNDS CAMPBELL		TH EXPLORATION LLC	1/8+	921	99	N/A	N/A	N/A
10*17449	E		PHYLLIS J BLAKE		TH EXPLORATION LLC	1/8+	921 2	150	N/A	N/A	N/A
10*17482	E		TERESA EZELLE RALYA AND DAVID L RALYA		TH EXPLORATION LLC	1/8+	927 4	487	N/A	N/A	N/A
10*17483	E		RICHARD I PYLE		TH EXPLORATION LLC	1/8+	921 3	359	N/A	N/A	N/A
10*17484	E		NELDA S JACKSON		TH EXPLORATION LLC	1/8+	921 3	330	N/A	N/A	N/A
10*17485	Ē		MARGIE ANN JACKSON ROBBINS GRAHAM		TH EXPLORATION LLC	1/8+	921	91	N/A	N/A	N/A
10*17526	E		JEFFREY L REEVES AND JODY L REEVES		TH EXPLORATION LLC	1/8+	921 3	370	N/A	N/A	N/A
10*17527	E		JAMES MICHAEL EZELL AND LUCILLE D EZELL		TH EXPLORATION LLC	1/8+	921 1	111	N/A	N/A	N/A
10*17538	F		CHERYL RANKIN KING		TH EXPLORATION LLC	1/8+	952	160	N/A	N/A	N/A
10*17552	E		JOHN BEVACQUA AND PATRICIA A BEVACQUA		TH EXPLORATION LLC	1/8+	921 1	144	N/A	N/A	N/A
10*17554	Ē		MICHAEL T RANKIN		TH EXPLORATION LLC	1/8+	921	361	N/A	N/A	N/A
10*17561	Ē		ROGER L TYRELL AND KATHRYN L TYRELL		TH EXPLORATION LLC	1/8+	921 5	519	N/A	N/A	N/A
10*17564	F		JAMES RONALD NICKOLSON AND TRACEY E NICKOLSON		TH EXPLORATION LLC	1/8+	921 3	340	N/A	N/A	N/A
10*17565	Ē		JESSE ALLEN JACKSON AND ELIZABETH D JACKSON		TH EXPLORATION LLC	1/8+	921 3	327	N/A	N/A	N/A
10*17566	Ē	9-7-25.2	NATHAN P ERDOSSY AND BARBARA T ERDOSSY		TH EXPLORATION LLC	1/8+	921 1	108	N/A	N/A	N/A
10*17588	E		JAMES M JACKSON		TH EXPLORATION LLC	1/8+	921 3	325	N/A	N/A	N/A
10*17589	Ē		MARY CHRISTINE MCKENNA		TH EXPLORATION LLC	1/8+	921 3	332	N/A	N/A	N/A
10*17677	F		GEORGE M GONTA JR		TH EXPLORATION LLC	1/8+	921	89	N/A	N/A	N/A
10*17744	E	• • -•••	SAM PRESLEY EZELL		TH EXPLORATION LLC	1/8+	921 1	116	N/A	N/A	N/A
10*17983	Ē		HOLLY SUE CUTHBERT		TH EXPLORATION LLC	1/8+	925 3	380	N/A	N/A	N/A
10*18021	E		CHRISTOPHER & JACKIE HANIFAN		TH EXPLORATION LLC	1/8+	927 2	267	N/A	N/A	N/A
10*18022	E		DALE P & CYNTHIA J WARD		TH EXPLORATION LLC	1/8+	927 2	264	N/A	N/A	N/A
10*19524	E	÷ · ==···	2 ESTATE OF AGNES IRENE E CLARK		TH EXPLORATION LLC	1/8+		533	N/A	N/A	N/A
10*19692	Ε		2 KENDRA WALISA		TH EXPLORATION LLC	1/8+	924 4	484	N/A	N/A	N/A
10*19693	E		MARIO R FUNARI BY HIS AIF ROBERT FUNARI		TH EXPLORATION LLC	1/8+	-	145	N/A	N/A	N/A
10*19695	E		2 VIRGINIA P FOUNDS KASSERMAN		TH EXPLORATION LLC	1/8+		333	N/A	N/A	N/A

్తి WW-6A1 Su	lqqu	ement	:							Ор	erator's Well No	. <u>Ten High 1S 1</u>
び O Lease Name or No	Tag	Parcel	Grantor, Lessor, etc.	RECEN	VFD	Grantee, Lessee, etc.	Royalty	Deed Boo	ok / Page	Assignment	Assignment	Assignment
10*19939	E		ROBERT J MILLS & SHERRA SUE MILLS	Office of Oil	and Gas	TH EXPLORATION LLC	1/8+	949	212	N/A	N/A	N/A
$ \widehat{V}_{10^{*47051.223.12}} $	Е		ALICE GORBY MARTIN			TH EXPLORATION LLC	1/8+	908	52	N/A	N/A	N/A
10*47051.223.13	E	9 -7-25.2	JAMES A GORBY	APR 9	2018	TH EXPLORATION LLC	1/8+	908	42	N/A	N/A	N/A
10*47051.223.15	Е	9-7-25.2	LARRY D TAUNT AND NANCY L TAUNT			TH EXPLORATION LLC	1/8+	908	14	N/A	N/A	N/A
10*47051.223.20	Ε	9-7-25.2	BARBARA A BUZZARD	WV Departn Environmental	ent of	TH EXPLORATION LLC	1/8+	9 08	24	N/A	N/A	N/A
10*47051.223.21	E	9-7-25.2	GARY T WARD AND SHARON D WARD	Environmental	rotection	TH EXPLORATION LLC	1/8+	908	19	N/A	N/A	N/A
10*47051.223.30	Е	9-7-25.2	LAURIE DRIGGERS MANDERSON			TH EXPLORATION LLC	1/8+	908	165	N/A	N/A	N/A
10*47051.223.33	Ε	9-7-25.2	NANCY CIAFFAGLIONE HOUSLEY			TH EXPLORATION LLC	1/8+	908	185	N/A	N/A	N/A
10*47051.223.35	Е	9-7-25.2	DEBRA L CIAFFAGLIONE			TH EXPLORATION LLC	1/8+	908	190	N/A	N/A	N/A
10*47051.223.6	Е	9 -7-25.2	JOSHUA RINE AND REBECCA RINE			TH EXPLORATION LLC	1/8+	907	634	N/A	N/A	N/A
10*47051.223.9	Ε	9-7-25.2	LINDA DELBERT			TH EXPLORATION LLC	1/8+	908	32	N/A	N/A	N/A
10*47051.303.1	Ε	9-7-25.2	THOMAS R WHITFIELD			TH EXPLORATION LLC	1/8+	890	401	N/A	N/A	N/A
10*47051.303.2	Е	9-7-25.2	KIMBERLY A WHITFIELD			TH EXPLORATION LLC	1/8+	890	403	N/A	N/A	N/A
10*47051.303.1	F	9-7-25.1	THOMAS R WHITFIELD			TH EXPLORATION LLC	1/8+	890	401	N/A	N/A	N/A
10*47051.303.2	F	9-7-25.1	KIMBERLY A WHITFIELD			TH EXPLORATION LLC	1/8+	890	403	N/A	N/A	N/A
10*47051.303.1	G	9-7-25	THOMAS R WHITFIELD			TH EXPLORATION LLC	1/8+	890	401	N/A	N/A	N/A
10*47051.303.2	G	9-7-25	KIMBERLY A WHITFIELD			TH EXPLORATION LLC	1/8+	890	403	N/A	N/A	N/A
10*15481	н	9-12-4	DEAN P RIGBY AND SUSAN RIGBY			TH EXPLORATION LLC	1/8+	908	197	N/A	N/A	N/A
10*15482	н	9-12-4	SUSAN NELSON			TH EXPLORATION LLC	1/8+	908	203	N/A	N/A	N/A
10*15686	н	9-12-4	JOHN OMER BOLTZ			TH EXPLORATION LLC	1/8+	908	160	N/A	N/A	N/A
10*15750	н	9-12-4	SANDRA K TRULL			TH EXPLORATION LLC	1/8+	908	229	N/A	N/A	N/A
10*16058	н	9-12-4	MATTIE RUTH JACKSON PRESCOTT			TH EXPLORATION LLC	1/8+	908	231	N/A	N/A	N/A
10*16118	н	9-12-4	RUBY RIDDLE JACKSON			TH EXPLORATION LLC	1/8+	908	233	N/A	N/A	N/A
10*16297	н	9-12-4	ROBERT A LEADBETTER AND M REBECCA LEADBETTER			TH EXPLORATION LLC	1/8+	908	235	N/A	N/A	N/A
10*16298	н	9 -12-4	GEOFFREY A SHIEFER AND STEPHANIE L SCHIEFER			TH EXPLORATION LLC	1/8+	9 08	238	N/A	N/A	N/A
10*16383	н	9-12-4	ROBERT STEPHEN DRIGGERS			TH EXPLORATION LLC	1/8+	908	224	N/A	N/A	N/A
10*16414	н	9-12-4	MARY ELIZABETH DRIGGERS			TH EXPLORATION LLC	1/8+	908	208	N/A	N/A	N/A
10*16415	н	9-12-4	TERENCE J ANDERSON AND NANCY J ANDERSON			TH EXPLORATION LLC	1/8+	908	213	N/A	N/A	N/A
10*16416	н	9-12-4	CYNTHIA HUDSON			TH EXPLORATION LLC	1/8+	908	219	N/A	N/A	N/A
10*16424	н	9-12-4	ROBERT J RIGBY			TH EXPLORATION LLC	1/8+	908	241	N/A	N/A	N/A
10*16448	н	9-12-4	RALPH L AND JUANITA L CRIM			TH EXPLORATION LLC	1/8+	908	584	N/A	N/A	N/A
10*16478	н	9 -12-4	MARION L AND EMILY CAMPBELL			TH EXPLORATION LLC	1/8+	908	245	N/A	N/A	N/A
10*16514	н	9-12-4	ALEX RUSSELL AND JOYCE A CAMPBELL			TH EXPLORATION LLC	1/8+	908	248	N/A	N/A	N/A
10*16515	н	9-12-4	ANNA MARIE JACKSON			TH EXPLORATION LLC	1/8+	908	251	N/A	N/A	N/A
10*16516	н	9-12-4	WILSON ANDREW JACKSON			TH EXPLORATION LLC	1/8+	908	253	N/A	N/A	N/A
10*16545	Н	9-12-4	ROBERT G & ELLEN FOUNDS			TH EXPLORATION LLC	1/8+	908	260	N/A	N/A	N/A
10*16662	Н	9-12-4	RICHARD THOMAS AND VICKI J MIMS			TH EXPLORATION LLC	1/8+	908	863	N/A	N/A	N/A
10*16666	н	9-12-4	MICHAEL P PYLE			TH EXPLORATION LLC	1/8+	908	255	N/A	N/A	N/A
10*16667	н	9-12-4	CHARLES F AND GAIL ANN PYLE			TH EXPLORATION LLC	1/8+	908	266	N/A	N/A	N/A
10*16668	н	9-12-4	JACK I AND MERRILEE PYLE			TH EXPLORATION LLC	1/8+	908	257	N/A	N/A	N/A
10*16669	н	9-12-4	JOHN S AND PATRICIA S DADO			TH EXPLORATION LLC	1/8+	908	269	N/A	N/A	N/A

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~	• •				CEIVED Oil and Gas							
O Lease Name or No	Tag	Parcel	Grantor, Lessor, etc.		Oil and Gas	Grantee, Lessee, etc.	Royalty		• •	Assignment	Assignment	Assignment
10*16686	н	9-12-4	CHERYLE M TRACEY	Å₽₽	0 2040	TH EXPLORATION LLC	1/8+	927	475	N/A	N/A	N/A
N ^{10*16688}	н	9-12-4	SHERRYL PYLE BAIR	PU K	9 2018	TH EXPLORATION LLC	1/8+	927	481	N/A	N/A	N/A
10*16689	н	9-12-4	JOHN C FOUNDS	W/Dop	aut.	TH EXPLORATION LLC	1/8+	927	478	N/A	N/A	N/A
10*16690	н	9-12-4	RICARDO ORTIZ	Environmen	artment of tal Protection	TH EXPLORATION LLC	1/8+	921	352	N/A	N/A	N/A
10*16720	н	9-12-4	DONNA ELAINE BRASKETT		- rolection	TH EXPLORATION LLC	1/8+	921	152	N/A	N/A	N/A
10*16738	н	9-12-4	CHARLES A RINE AND RUTH K RINE			TH EXPLORATION LLC	1/8+	908	274	N/A	N/A	N/A
10*16742	н	9-12-4	PAUL C WILSON			TH EXPLORATION LLC	1/8+	924	490	N/A	N/A	N/A
10*16747	н	9-12-4	WILLIAM DALE BRASKETT			TH EXPLORATION LLC	1/8+	921	96	N/A	N/A	N/A
10*16787	н	9-12-4	HERBERT B CAMPBELL & DONNA D CAMPBELL			TH EXPLORATION LLC	1/8+	942	451	N/A	N/A	N/A
10*16798	н	9 -12-4	PATRICK A RANKIN AND ROBIN A RANKIN			TH EXPLORATION LLC	1/8+	921	364	N/A	N/A	N/A
10*16800	н	9-12-4	JAMES KENNETH JACKSON AND JULIE JACKSON			TH EXPLORATION LLC	1/8+	921	93	N/A	N/A	N/A
10*16802	н	9-12-4	CHRISTOPHER AND TAMMY RICHARDSON			TH EXPLORATION LLC	1/8+	921	495	N/A	N/A	N/A
10*16804	н	9-12-4	WILLIAM N AND SHERRY D TAYLOR			TH EXPLORATION LLC	1/8+	921	510	N/A	N/A	N/A
10*16806	н	9-12-4	VIRGINIA I WHITMAN			TH EXPLORATION LLC	1/8+	921	528	N/A	N/A	N/A
10*16807	н	9-12-4	DAVID TULLER AND SUSAN STORTS TULLER			TH EXPLORATION LLC	1/8+	921	513	N/A	N/A	N/A
10*16808	н	9-12-4	MICHAEL L ORTIZ			TH EXPLORATION LLC	1/8+	921	349	N/A	N/A	N/A
10*16815	н	9-12-4	HAROLD W PYLE			TH EXPLORATION LLC	1/8+	921	357	N/A	N/A	N/A
10*16819	н	9-12-4	TERESA ORTIZ BIGGS			TH EXPLORATION LLC	1/8+	921	147	N/A	N/A	N/A
10*16821	н	9-12-4	SHEILA BRASKETT WEICHEY			TH EXPLORATION LLC	1/8+	921	516	N/A	N/A	N/A
10*16836	н	9-12-4	RICK A AND LENORE A STORTS			TH EXPLORATION LLC	1/8+	921	507	N/A	N/A	N/A
10*16837	н	9-12-4	TERRY L AND THELMA A POFF			TH EXPLORATION LLC	1/8+	927	472	N/A	N/A	N/A
10*16838	н	9-12-4	ROBERT G FUNARI			TH EXPLORATION LLC	1/8+	921	82	N/A	N/A	N/A
10*16839	н	9-12-4	JAMES B FOUNDS AND LYNN M MOWERY			TH EXPLORATION LLC	1/8+	921	73	N/A	N/A	N/A
10*16863	н	9-12-4	TINA MOORE			TH EXPLORATION LLC	1/8+	921	334	N/A	N/A	N/A
10*16868	Ĥ	9-12-4	MICHAEL W STORTS AND JESSICA M STORTS			TH EXPLORATION LLC	1/8+	921	504	N/A	N/A	N/A
10*16879	н	9-12-4	MARK E AND LESLEY A STORTS			TH EXPLORATION LLC	1/8+	921	501	N/A	N/A	N/A
10*16880	н	9-12-4	BEVERLY ANN STORTS			TH EXPLORATION LLC	1/8+	921	498	N/A	N/A	N/A
10*16902	н	9-12-4	MARY BARCAW DUKE			TH EXPLORATION LLC	1/8+	921	105	N/A	N/A	N/A
10*16962	н	9-12-4	DENNIS P AND BARBARA EZELL FLORY			TH EXPLORATION LLC	1/8+	921	70	N/A	N/A	N/A
10*16976	н	9-12-4	LESTER G AND CONSTANCE B NICKOLSON			TH EXPLORATION LLC	1/8+	921	343	N/A	N/A	N/A
10*16977	н	9-12-4	JEREMY COCHENOUR			TH EXPLORATION LLC	1/8+	921	102	N/A	N/A	N/A
10*16987	н	9-12-4	LAURIE EZELL PERRY			TH EXPLORATION LLC	1/8+	921	355	N/A	N/A	N/A
10*16989	н	9-12-4	BRITTANY RICHARDSON			TH EXPLORATION LLC	1/8+	916	135	N/A	N/A	N/A
10*16991	H	9-12-4 9-12-4	MARYELLEN FOUNDS AND LAUREN FOUNDS			TH EXPLORATION LLC	1/8+	921	79	N/A	N/A	N/A
10*16996	Н	9-12-4	THOMAS RANKIN			TH EXPLORATION LLC	1/8+	917	75	N/A	N/A	N/A
10*16998	н	9-12-4 9-12-4	CINDY L BARGER			TH EXPLORATION LLC	1/8+	921	137	N/A	N/A	N/A
		9-12-4 9-12-4	JESSE LEON JR AND TERESA GAIL EZELLE			TH EXPLORATION LLC	1/8+	921	118	N/A	N/A	N/A
10*17155	Н		HENRI NELL JACKSON KENT BARNES			TH EXPLORATION LLC	1/8+	921	139	N/A	N/A	N/A
10*17156	Н	9-12-4	JAMES N REEVES JR AND RITA M REEVES			TH EXPLORATION LLC	1/8+	921	367	N/A	N/A	N/A
10*17157	н	9-12-4				TH EXPLORATION LLC	1/8+	921	141	N/A	N/A	N/A
10*17198	н	9-12-4	THOMAS G AND DIANE W BAYLESS			TH EXPLORATION LLC	1/8+	921	524	N/A	N/A	N/A
10*17205	н	9-12-4	SANDRA JEAN WILSON				1/0+	561	524	N/A	11/0	0/7

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61				Office o	ECEIVED of Oil and Gas							
Õ Lease Name or No	Tag	Parcel	Grantor, Lessor, etc.	100		Grantee, Lessee, etc.	Royalty	•	•	Assignment	Assignment	Assignment
10*17208	н	9-12-4	PATRICK S GALLAGHER AND JOYCE ANN FOUNDS	APR	9 2018	TH EXPLORATION LLC	1/8+	921	86	N/A	N/A	N/A
10*17274	н	9-12-4	DAVID H WILSON			TH EXPLORATION LLC	1/8+		474	N/A	N/A	N/A
VJ 10*17275	н	9-12-4	JOHN R REEVES AND MONA G REEVES	E W Dep	artment -	TH EXPLORATION LLC	1/8+	921	373	N/A	N/A	N/A
10*17276	н	9-12-4	BERTHA EZELL WYATT	Environmen	partment of Ital Protection	TH EXPLORATION LLC	1/8+	921	526	N/A	N/A	N/A
10*17278	н	9-12-4	MICHAEL L EZELLE			TH EXPLORATION LLC	1/8+	921	121	N/A	N/A	N/A
10*17339	н	9-12-4	JOSEPH W FOUNDS			TH EXPLORATION LLC	1/8+	921	76	N/A	N/A	N/A
10*17377	н	9-12-4	MILTON HOWARD EZELLE JR AND ELIZABETH A EZELLE			TH EXPLORATION LLC	1/8+	921	123	N/A	N/A	N/A
10*17416	н	9-12-4	ANDREW M ORTIZ			TH EXPLORATION LLC	1/8+	921	346	N/A	N/A	N/A
10*17438	н	9-12-4	DENNIS M WILSON			TH EXPLORATION LLC	1/8+	921	476	N/A	N/A	N/A
10*17440	н	9-12-4	KENDRA WALISA			TH EXPLORATION LLC	1/8+	927	484	N/A	N/A	N/A
10*17441	н	9-12-4	RALPH J WILSON			TH EXPLORATION LLC	1/8+	921	522	N/A	N/A	N/A
10*17442	н	9-12-4	SHANE ALLEN AND MENDY JEAN ALLEN			TH EXPLORATION LLC	1/8+	921	134	N/A	N/A	N/A
10*17443	н	9-12-4	MICHELLE MORROW-BACK			TH EXPLORATION LLC	1/8+	921	337	N/A	N/A	N/A
10*17444	н	9-12-4	KELLY FOUNDS CAMPBELL			TH EXPLORATION LLC	1/8+	921	99	N/A	N/A	N/A
10*17449	н	9-12-4	PHYLLIS J BLAKE			TH EXPLORATION LLC	1/8+	921	150	N/A	N/A	N/A
10*17482	н	9-12-4	TERESA EZELLE RALYA AND DAVID L RALYA			TH EXPLORATION LLC	1/8+	927	487	N/A	N/A	N/A
10*17483	н	9-12-4	RICHARD 1 PYLE			TH EXPLORATION LLC	1/8+		359	N/A	N/A	N/A
10*17484	н	9-12-4	NELDA S JACKSON			TH EXPLORATION LLC	1/8+		330	N/A	N/A	N/A
10*17485	н	9-12-4	MARGIE ANN JACKSON ROBBINS GRAHAM			TH EXPLORATION LLC	1/8+	921	91	N/A	N/A	N/A
10*17526	н	9-12-4	JEFFREY L REEVES AND JODY L REEVES			TH EXPLORATION LLC	1/8+		370	N/A	N/A	N/A
10*17527	н	9-12-4	JAMES MICHAEL EZELL AND LUCILLE D EZELL			TH EXPLORATION LLC	1/8+		111	N/A	N/A	N/A
10*17552	н	9-12-4	JOHN BEVACQUA AND PATRICIA A BEVACQUA			TH EXPLORATION LLC	1/8+		144	N/A	N/A	N/A
10*17554	н	9-12-4 9-12-4	MICHAEL T RANKIN			TH EXPLORATION LLC	1/8+		361	N/A	N/A	N/A
10*17561		9-12-4 9-12-4	ROGER L TYRELL AND KATHRYN L TYRELL			TH EXPLORATION LLC	1/8+		519	N/A	N/A	N/A
10*17564	н	9-12-4 9-12-4	JAMES RONALD NICKOLSON AND TRACEY E NICKOLSON			TH EXPLORATION LLC	1/8+		340	N/A	N/A	N/A
10*17565	н	9-12-4 9-12-4	JESSE ALLEN JACKSON AND ELIZABETH D JACKSON			TH EXPLORATION LLC	1/8+		327	N/A	N/A	N/A
10*17566	н	9-12-4 9-12-4	NATHAN P ERDOSSY AND BARBARA T ERDOSSY			TH EXPLORATION LLC	1/8+		108	N/A	N/A	N/A
	н		JAMES M JACKSON			TH EXPLORATION LLC	1/8+		325	N/A	N/A	N/A
10*17588	H	9-12-4 9-12-4	MARY CHRISTINE MCKENNA			TH EXPLORATION LLC	1/8+		332	N/A	N/A	N/A
10*17589	н	9-12-4 9-12-4	GEORGE M GONTA JR			TH EXPLORATION LLC	1/8+		89	N/A	N/A	N/A
10*17677						TH EXPLORATION LLC	1/8+		116	N/A	N/A	N/A
10*17744	н	9-12-4				TH EXPLORATION LLC	1/8+		380	N/A	N/A	-
10*17983	н	9-12-4				TH EXPLORATION LLC	1/8+		267	N/A	N/A	N/A
10*18021	н	9-12-4	CHRISTOPHER & JACKIE HANIFAN				•			-	•	N/A
10*18022	н	9-12-4	DALE P & CYNTHIA J WARD			TH EXPLORATION LLC	1/8+		264	N/A	N/A	N/A
10*19524	Н	9-12-4	ESTATE OF AGNES IRENE E CLARK			TH EXPLORATION LLC	1/8+		633	N/A	N/A	N/A
10*19693	Н	9-12-4	MARIO R FUNARI BY HIS AIF ROBERT FUNARI			TH EXPLORATION LLC	1/8+		145	N/A	N/A	N/A
10*19695	Н	9-12-4	VIRGINIA P FOUNDS KASSERMAN			TH EXPLORATION LLC	1/8+		333	N/A	N/A	N/A
10*19939	н	9 -12-4	ROBERT J MILLS & SHERRA SUE MILLS			TH EXPLORATION LLC	1/8+		212	N/A	N/A	N/A
10*47051.223.1	н	9-12-4	JEAN ANNE GORBY STORCH			TH EXPLORATION LLC	1/8+		216	N/A	N/A	N/A
10*47051.223.10	н	9-12-4	ROBERT E GORBY			TH EXPLORATION LLC	1/8+	908	47	N/A	N/A	N/A
10*47051.223.11	н	9-12-4	ELIZABETH ESTEP			TH EXPLORATION LLC	1/8+	908	37	N/A	N/A	N/A

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Lease Name or No	Tag	Parcel	Grantor, Lessor, etc.	APR		Grantee, Lessee, etc.	Royalty	Deed Book / Page	Assignment	Assignment	Assignment
O 10*47051.223.12	н	9-12-4	ALICE GORBY MARTIN		9 2018	TH EXPLORATION LLC	1/8+	908 52	N/A	N/A	N/A
10*47051.223.13	Н	9-12-4	JAMES A GORBY	W/Dep		TH EXPLORATION LLC	1/8+	908 42	N/A	N/A	N/A
10*47051.223.14	н	9-12-4	JUSTIN RINE AND BECKY RINE	Environmen	artment of Ital Protection	TH EXPLORATION LLC	1/8+	907 639	N/A	N/A	N/A
10*47051.223.15	н	9-12-4	LARRY D TAUNT AND NANCY L TAUNT		rolection	TH EXPLORATION LLC	1/8+	908 14	N/A	N/A	N/A
10*47051.223.16	н	9-12-4	BETTY LOU STERN AND WILLIAM KEITH STERN			TH EXPLORATION LLC	1/8+	908 64	N/A	N/A	N/A
10*47051.223.17	н	9 -12-4	RALPH E HUNTER JR AND CHARLOTTE HUNTER			TH EXPLORATION LLC	1/8+	908 9	N/A	N/A	N/A
10*47051.223.18	н	9-12-4	BRITTNEY MENEAR			TH EXPLORATION LLC	1/8+	908 57	N/A	N/A	N/A
10*47051.223.19	н	9-12-4	JASON RINE AND HEATHER RINE			TH EXPLORATION LLC	1/8+	907 629	N/A	N/A	N/A
10*47051.223.20	н	9-12-4	BARBARA A BUZZARD			TH EXPLORATION LLC	1/8+	908 24	N/A	N/A	N/A
10*47051.223.21	н	9-12-4	GARY T WARD AND SHARON D WARD			TH EXPLORATION LLC	1/8+	908 19	N/A	N/A	N/A
10*47051.223.22	н	9-12-4	SALLY COLE			TH EXPLORATION LLC	1/8+	908 74	N/A	N/A	N/A
10*47051.223.23	н	9-12-4	RONALD S CRIM			TH EXPLORATION LLC	1/8+	908 79	N/A	N/A	N/A
10*47051.223.24	н	9-12-4	JO DEE K DAVIS			TH EXPLORATION LLC	1/8+	908 136	N/A	N/A	N/A
10*47051.223.25	н	9-12-4	JOANNE WELCH			TH EXPLORATION LLC	1/8+	908 141	N/A	N/A	N/A
10*47051.223.26	н	9-12-4	WENDY L SMARKEL			TH EXPLORATION LLC	1/8+	908 69	N/A	N/A	N/A
10*47051.223.27	н	9-12-4	TIMI J HOBBS			TH EXPLORATION LLC	1/8+	908 277	N/A	N/A	N/A
10*47051.223.28	н	9-12-4	KAREN S GAST			TH EXPLORATION LLC	1/8+	908 150	N/A	N/A	N/A
10*47051.223.29	н	9-12-4	PATSY JO RAJU			TH EXPLORATION LLC	1/8+	908 155	N/A	N/A	N/A
10*47051.223.30	н	9-12-4	LAURIE DRIGGERS MANDERSON			TH EXPLORATION LLC	1/8+	908 165	N/A	N/A	N/A
10*47051.223.31	н	9-12-4	JANICE M GONTA GAVALIK			TH EXPLORATION LLC	1/8+	908 180	N/A	N/A	N/A
10*47051.223.32	н	9-12-4	JOSEPH GORBY DAKAN			TH EXPLORATION LLC	1/8+	908 175	N/A	N/A	N/A
10*47051.223.33	н	9-12-4	NANCY CIAFFAGLIONE HOUSLEY			TH EXPLORATION LLC	1/8+	908 185	N/A	N/A	N/A
10*47051.223.34	н	9-12-4	JOHN CIAFFAGLIONE			TH EXPLORATION LLC	1/8+	908 170	N/A	N/A	N/A
10*47051.223.35	н	9-12-4	DEBRA L CIAFFAGLIONE			TH EXPLORATION LLC	1/8+	908 190	N/A	N/A	N/A
10*47051.223.5	н	9-12-4	HAROLD S BROWN II AND MARIA A BROWN			TH EXPLORATION LLC	1/8+	907 641	N/A	N/A	N/A
10*47051.223.6	н	9-12-4	JOSHUA RINE AND REBECCA RINE			TH EXPLORATION LLC	1/8+	907 634	N/A	N/A	N/A
10*47051.223.7	н	9 -12-4	JACK R WILSON JR AND JANE A WILSON			TH EXPLORATION LLC	1/8+	908 4	N/A	N/A	N/A
10*47051.223.8	н	9-12-4	DAVID M WILSON			TH EXPLORATION LLC	1/8+	907 649	N/A	N/A	N/A
10*47051.223.9	н	9-12-4	LINDA DELBERT			TH EXPLORATION LLC	1/8+	908 32	N/A	N/A	N/A
10*15463	1	9-11-8	CHARLES A RINE			TH EXPLORATION LLC	1/8+	908 274	N/A	N/A	N/A
10*15481	1	9-11-8	DEAN P RIGBY AND SUSAN RIGBY			TH EXPLORATION LLC	1/8+	908 197	N/A	N/A	N/A
10*15482	i	9-11 - 8	SUSAN NELSON			TH EXPLORATION LLC	1/8+	908 203	N/A	N/A	N/A
10*15686	I	9 -11-8	JOHN OMER BOLTZ			TH EXPLORATION LLC	1/8+	908 160	N/A	N/A	N/A
10*15750	1	9-11-8	SANDRA K TRULL			TH EXPLORATION LLC	1/8+	908 229	N/A	N/A	N/A
10*16058	1	9-11-8	MATTIE RUTH JACKSON PRESCOTT			TH EXPLORATION LLC	1/8+	908 231	N/A	N/A	N/A
10*16118	I	9-11-8	RUBY RIDDLE JACKSON			TH EXPLORATION LLC	1/8+	908 233	N/A	N/A	N/A
10*16297	I.	9-11-8	ROBERT A LEADBETTER AND M REBECCA LEADBETTER			TH EXPLORATION LLC	1/8+	908 235	N/A	N/A	N/A
10*16298	i	9-11-8	GEOFFREY A SHIEFER AND STEPHANIE L SCHIEFER			TH EXPLORATION LLC	1/8+	908 238	N/A	N/A	N/A
10*16383	1	9-11-8	ROBERT STEPHEN DRIGGERS			TH EXPLORATION LLC	1/8+	908 224	N/A	N/A	N/A
10*16414	1	9-11-8	MARY ELIZABETH DRIGGERS			TH EXPLORATION LLC	1/8+	908 208	N/A	N/A	N/A
10*16415	Ì	9-11-8	TERENCE J & NANCY J ANDERSON			TH EXPLORATION LLC	1/8+	908 213	N/A	N/A	N/A

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	Tog	Parcel	Grantor, Lessor, etc.
Q Lease Name or No 0 10*16416	Tag I	9-11-8	CYNTHIA HUDSON
10*16416	1	9-11-8 9-11-8	ROBERT J RIGBY
A	1	9-11-8 9-11-8	RALPH L AND JUANITA L CRIM
V) 10*16448	1	9-11-8 9-11-8	MARION L AND EMILY CAMPBELL
10*16478 10*16514	1	9-11-8 9-11-8	ALEX RUSSELL AND JOYCE A CAMPBELL
10*16515	1	9-11-8 9-11-8	ANNA MARIE JACKSON
10*16516	i	9-11-8 9-11-8	WILSON ANDREW JACKSON
10*16545	i	9-11-8	ROBERT G & ELLEN FOUNDS
10*16662	i	9-11-8	RICHARD THOMAS AND VICKI J MIMS
10*16666	i	9-11-8	MICHAEL P PYLE
10*16667	i	9-11-8	CHARLES F AND GAIL ANN PYLE
10*16668	· ·	9-11-8	JACK I AND MERRILEE PYLE
10*16669	i	9-11-8	JOHN S AND PATRICIA S DADO
10*16686	i	9-11-8	CHERYLE M TRACEY
10*16688	1	9-11-8	SHERRYL PYLE BAIR
10*16689	I.	9-11-8	JOHN C FOUNDS
10*16690	I	9-11-8	RICARDO ORTIZ
10*16720	I	9-11-8	DONNA ELAINE BRASKETT
10*16742	L	9-11-8	PAUL C WILSON
10 *1 6747	I.	9-11-8	WILLIAM DALE BRASKETT
10*16798	I.	9-11-8	PATRICK A RANKIN AND ROBIN A RANKIN
10*16800	1	9-11-8	JAMES KENNETH JACKSON AND JULIE JACKSON
10*16802	1	9-11-8	CHRISTOPHER AND TAMMY RICHARDSON
10*16804	1	9-11-8	WILLIAM N AND SHERRY D TAYLOR
10*16806	1	9-11-8	VIRGINIA I WHITMAN
10*16807	I.	9-11-8	DAVID TULLER AND SUSAN STORTS TULLER
10*16808	1	9-11-8	MICHAEL L ORTIZ
10*16815	1	9-11-8	HAROLD W PYLE
10*16819	I	9-11-8	TERESA ORTIZ BIGGS
10*16821	I	9-11-8	SHEILA BRASKETT WEICHEY
10*16836	I.	9-11-8	RICK A AND LENORE A STORTS
10*16837	1	9-11 - 8	TERRY L AND THELMA A POFF
10*16838	I	9-11-8	ROBERT G FUNARI
10*16839	I	9-11-8	JAMES B FOUNDS AND LYNN M MOWERY
10*16863	1	9-11-8	
10*16868	l	9-11-8	MICHAEL W STORTS AND JESSICA M STORTS
10*16879	l	9-11-8	
10*16880	1	9-11-8	
10*16902	1	9-11-8	MARY BARCAW DUKE

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			CEIVED f Oil and Gas							
Parcel	Grantor, Lessor, etc.			Grantee, Lessee, etc.	Royalty	Deed Boo	ok / Page	Assignment	Assignment	Assignment
9-11-8	CYNTHIA HUDSON	APR	9 2018	TH EXPLORATION LLC	1/8+	908	219	N/A	N/A	N/A
9-11-8	ROBERT J RIGBY		0 2010	TH EXPLORATION LLC	1/8+	908	241	N/A	N/A	N/A
9-11-8	RALPH L AND JUANITA L CRIM	_ WV Der	partment of	TH EXPLORATION LLC	1/8+	908	584	N/A	N/A	N/A
9-11-8	MARION L AND EMILY CAMPBELL	Environmer	Partment of Ital Protection	TH EXPLORATION LLC	1/8+	908	245	N/A	N/A	N/A
9-11-8	ALEX RUSSELL AND JOYCE A CAMPBELL		- COUCH	TH EXPLORATION LLC	1/8+	908	248	N/A	N/A	N/A
9-11-8	ANNA MARIE JACKSON			TH EXPLORATION LLC	1/8+	908	251	N/A	N/A	N/A
9-11-8	WILSON ANDREW JACKSON			TH EXPLORATION LLC	1/8+	908	253	N/A	N/A	N/A
9-11-8	ROBERT G & ELLEN FOUNDS			TH EXPLORATION LLC	1/8+	908	260	N/A	N/A	N/A
9-11-8	RICHARD THOMAS AND VICKI J MIMS			TH EXPLORATION LLC	1/8+	908	863	N/A	N/A	N/A
9-11-8	MICHAEL P PYLE			TH EXPLORATION LLC	1/8+	908	255	N/A	N/A	N/A
9-11-8	CHARLES F AND GAIL ANN PYLE			TH EXPLORATION LLC	1/8+	908	266	N/A	N/A	N/A
9-11-8	JACK I AND MERRILEE PYLE			TH EXPLORATION LLC	1/8+	908	257	N/A	N/A	N/A
9-11-8	JOHN S AND PATRICIA S DADO			TH EXPLORATION LLC	1/8+	908	269	N/A	N/A	N/A
9-11-8	CHERYLE M TRACEY			TH EXPLORATION LLC	1/8+	927	475	N/A	N/A	N/A
9-11-8	SHERRYL PYLE BAIR			TH EXPLORATION LLC	1/8+	9 27	481	N/A	N/A	N/A
9-11-8	JOHN C FOUNDS			TH EXPLORATION LLC	1/8+	927	478	N/A	N/A	N/A
9-11-8	RICARDO ORTIZ			TH EXPLORATION LLC	1/8+	921	352	N/A	N/A	N/A
9-11-8	DONNA ELAINE BRASKETT			TH EXPLORATION LLC	1/8+	921	152	N/A	N/A	N/A
9-11-8	PAUL C WILSON			TH EXPLORATION LLC	1/8+	927	490	N/A	N/A	N/A
9-11-8	WILLIAM DALE BRASKETT			TH EXPLORATION LLC	1/8+	921	96	N/A	N/A	N/A
9-11-8	PATRICK A RANKIN AND ROBIN A RANKIN			TH EXPLORATION LLC	1/8+	921	364	N/A	N/A	N/A
9-11-8	JAMES KENNETH JACKSON AND JULIE JACKSON			TH EXPLORATION LLC	1/8+	921	93	N/A	N/A	N/A ·
9-11-8	CHRISTOPHER AND TAMMY RICHARDSON			TH EXPLORATION LLC	1/8+	921	495	N/A	N/A	N/A
9-11-8	WILLIAM N AND SHERRY D TAYLOR			TH EXPLORATION LLC	1/8+	921	510	N/A	N/A	N/A
9-11-8	VIRGINIA I WHITMAN			TH EXPLORATION LLC	1/8+	921	528	N/A	N/A	N/A
9-11-8	DAVID TULLER AND SUSAN STORTS TULLER			TH EXPLORATION LLC	1/8+	921	513	N/A	N/A	N/A
9-11-8	MICHAEL L ORTIZ			TH EXPLORATION LLC	1/8+	921	349	N/A	N/A	N/A
9-11-8	HAROLD W PYLE			TH EXPLORATION LLC	1/8+	921	357	N/A	N/A	N/A
9-11-8	TERESA ORTIZ BIGGS			TH EXPLORATION LLC	1/8+	921	147	N/A	N/A	N/A
9-11-8	SHEILA BRASKETT WEICHEY			TH EXPLORATION LLC	1/8+	921	516	N/A	N/A	N/A
9-11-8	RICK A AND LENORE A STORTS			TH EXPLORATION LLC	1/8+	921	507	N/A	N/A	N/A
9-11-8	TERRY L AND THELMA A POFF			TH EXPLORATION LLC	1/8+	927	472	N/A	N/A	N/A
9-11-8	ROBERT G FUNARI			TH EXPLORATION LLC	1/8+	921	82	N/A	N/A	N/A
9-11-8	JAMES B FOUNDS AND LYNN M MOWERY			TH EXPLORATION LLC	1/8+	921	73	N/A	N/A	N/A
9-11-8	TINA MOORE			TH EXPLORATION LLC	1/8+	921	334	N/A	N/A	N/A
9-11-8	MICHAEL W STORTS AND JESSICA M STORTS			TH EXPLORATION LLC	1/8+	921	504	N/A	N/A	N/A
9-11-8	MARK E AND LESLEY A STORTS			TH EXPLORATION LLC	1/8+	921	501	N/A	N/A	N/A
9-11-8	BEVERLY ANN STORTS			TH EXPLORATION LLC	1/8+	921	498	N/A	N/A	N/A
9-11-8	MARY BARCAW DUKE			TH EXPLORATION LLC	1/8+	921	105	N/A	N/A	N/A
9-11-8	DENNIS P AND BARBARA EZELL FLORY			TH EXPLORATION LLC	1/8+	921	70	N/A	N/A	N/A
9-11-8	LESTER G AND CONSTANCE B NICKOLSON			TH EXPLORATION LLC	1/8+	921	343	N/A	N/A	N/A

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	abb.	enten		Or RE	CEIVED f Oil and Gas							
C Lease Name or No	Tag	Parcel	Grantor, Lessor, etc.		f Oil and Gas	Grantee, Lessee, etc.	Royalty	Deed Boo	nk / Page	Assignment	Assignment	Assignment
- 10110077	145 	9-11-8	JEREMY COCHENOUR			TH EXPLORATION LLC	1/8+	921	102	N/A	N/A	N/A
VO 10*16987	1	9-11-8	LAURIE EZELL PERRY	APR	9 2018	TH EXPLORATION LLC	1/8+	921	355	N/A	N/A	N/A
>/ 10*1698/ 10*16980		9-11-8 9-11-8	BRITTANY RICHARDSON	140.00	-	TH EXPLORATION LLC	1/8+	921	376	N/A	N/A	N/A
10*16989 10*16991		9-11-8 9-11-8	MARYELLEN FOUNDS AND LAUREN FOUNDS	Environmen	artment of	TH EXPLORATION LLC	1/8+	921	79	N/A	N/A	N/A
10*16991	1	9-11-8 9-11-8	THOMAS RANKIN	en onnien	artment of tal Protection	TH EXPLORATION LLC	1/8+	917	75	N/A	N/A	N/A
10*17130	1	9-11-8 9-11-8	CINDY L BARGER			TH EXPLORATION LLC	1/8+	921	137	N/A	N/A	N/A
10*17155		9-11-8 9-11-8	JESSE LEON JR AND TERESA GAIL EZELLE			TH EXPLORATION LLC	1/8+	921	118	N/A	N/A	N/A
10*17155	1	9-11-8 9-11-8	HENRI NELL JACKSON KENT BARNES			TH EXPLORATION LLC	1/8+	921	139	N/A	N/A	N/A
10*17156		9-11-8 9-11-8	JAMES N REEVES JR AND RITA M REEVES			TH EXPLORATION LLC	1/8+	921	367	N/A	N/A	N/A
10*17198	1	9-11-8 9-11-8	THOMAS G AND DIANE W BAYLESS			TH EXPLORATION LLC	1/8+	921	141	N/A	N/A	N/A
10*17198	1	9-11-8 9-11-8	SANDRA JEAN WILSON			TH EXPLORATION LLC	1/8+	921	524	N/A	N/A	N/A
10*17208		9-11-8 9-11-8	PATRICK S GALLAGHER AND JOYCE ANN FOUNDS			TH EXPLORATION LLC	1/8+	921	86	N/A	N/A	N/A
	1	9-11-8 9-11-8	DAVID H WILSON			TH EXPLORATION LLC	1/8+	921	474	N/A	N/A	N/A
10*17274 10*17275		9-11-8 9-11-8	JOHN R REEVES AND MONA G REEVES			TH EXPLORATION LLC	1/8+	921	373	N/A	N/A	N/A
10*17275		9-11-8 9-11-8	BERTHA EZELL WYATT			TH EXPLORATION LLC	1/8+	921	526	N/A	N/A	N/A
10*17278		9-11-8 9-11-8	MICHAEL L EZELLE			TH EXPLORATION LLC	1/8+	921	121	N/A	N/A	N/A
10*17278		9-11-8 9-11-8	JOSEPH W FOUNDS			TH EXPLORATION LLC	1/8+	921	76	N/A	N/A	N/A
10*17339		9-11-8 9-11-8	MILTON HOWARD EZELLE JR AND ELIZABETH A EZELLE			TH EXPLORATION LLC	1/8+	921	123	N/A	N/A	N/A
10*17377	1	9-11-8 9-11-8	ANDREW M. ORTIZ			TH EXPLORATION LLC	1/8+	921	346	N/A	N/A	N/A
10*17418	1	9-11-8 9-11-8	DENNIS M WILSON			TH EXPLORATION LLC	1/8+	921	476	N/A	N/A	N/A
10*17438	-	9-11-8 9-11-8	KENDRA WALISA			TH EXPLORATION LLC	1/8+	927	484	N/A	N/A	N/A
10*17440		9-11-8 9-11-8	RALPH J WILSON			TH EXPLORATION LLC	1/8+	921	522	N/A	N/A	N/A
10*17441		9-11-8 9-11-8	SHANE ALLEN AND MENDY JEAN ALLEN			TH EXPLORATION LLC	1/8+	921	134	N/A	N/A	N/A N/A
10*17442		9-11-8 9-11-8	MICHELLE MORROW-BACK			TH EXPLORATION LLC	1/8+	921	337	N/A	N/A	N/A N/A
10*17445		9-11-8	KELLY FOUNDS CAMPBELL			TH EXPLORATION LLC	1/8+	921	99	N/A	N/A	N/A
10*17444		9-11-8	PHYLLIS J BLAKE			TH EXPLORATION LLC	1/8+	921	150	N/A	N/A	N/A
10*17449		9-11-8 9-11-8	TERESA EZELLE RALYA AND DAVID L RALYA			TH EXPLORATION LLC	1/8+	927	487	N/A	N/A	N/A N/A
10*17482	1	9-11-8	RICHARD I PYLE			TH EXPLORATION LLC	1/8+	921	359	N/A	N/A	N/A
10*17485		9-11-8	NELDA S JACKSON			TH EXPLORATION LLC	1/8+	921	330	N/A	N/A	N/A N/A
10*17484	1	9-11-8 9-11-8	MARGIE ANN JACKSON ROBBINS GRAHAM			TH EXPLORATION LLC	1/8+	921	91	N/A	N/A	N/A
10*17485	1	9-11-8	JEFFREY L REEVES AND JODY L REEVES			TH EXPLORATION LLC	1/8+	921	370	N/A	N/A	N/A
10*17527	i	9-11-8	JAMES MICHAEL EZELL AND LUCILLE D EZELL			TH EXPLORATION LLC	1/8+	921	111	N/A	N/A	N/A N/A
10*17552	1	9-11-8	JOHN BEVACQUA AND PATRICIA A BEVACQUA			TH EXPLORATION LLC	1/8+	921	144	N/A	N/A	N/A N/A
10*17554		9-11-8 9-11-8	MICHAEL T RANKIN			TH EXPLORATION LLC	1/8+	921	361	N/A	N/A	N/A
	1	9-11-8 9-11-8	KATHRYN L & ROGER L TYRELL			TH EXPLORATION LLC	1/8+	921	519	N/A	N/A	N/A
10*17561 10*17564		9-11-8	JAMES R & TRACEY E NICKOLSON			TH EXPLORATION LLC	1/8+	921	340	N/A	N/A	N/A
10*17564	1	9-11-8	JESSE ALLEN JACKSON AND ELIZABETH D JACKSON			TH EXPLORATION LLC	1/8+	921	340	N/A	N/A	N/A
10*17565		9-11-8 9-11-8	NATHAN P & BARBARA T ERDOSSY			TH EXPLORATION LLC	1/8+	921	108	N/A	N/A	N/A
10*17588		9-11-8	JAMES M JACKSON			TH EXPLORATION LLC	1/8+	921	325	N/A	N/A	N/A N/A
		9-11-8	MARY CHRISTINE MCKENNA			TH EXPLORATION LLC	1/8+	921	332	N/A	N/A	N/A N/A
10*17589		9-11-8	GEORGE M GONTA JR			TH EXPLORATION LLC	1/8+	921	89	N/A	N/A	N/A N/A
10*17677	1	3-11-0					1,0,	321	0.5		17/17	N/A

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- -			Creater lange at	Office of (EIVED Dil and Gas	Grantee, Lessee, etc.	Royalty	Deed Boo	ak / Paga	Assignment	Assignment	Assistement
Lease Name or No	Tag	Parcel	Grantor, Lessor, etc. SAM PRESLEY EZELL			TH EXPLORATION LLC	1/8+	921	116	N/A	N/A	Assignment N/A
10*17744		9-11-8 9-11-8	JEAN ANNE GORBY STORCH	APR	9 2018	TH EXPLORATION LLC	1/8+	877	216	N/A	N/A	N/A N/A
η ¹⁰ ^{4/031.223.1}		9-11-8 9-11-8	ROBERT E GORBY			TH EXPLORATION LLC	1/8+	908	47	N/A	N/A	N/A N/A
10 4/051.225.10				W Dena Environment	itment of	TH EXPLORATION LLC	1/8+	908	39	N/A	N/A	N/A N/A
10*47051.223.11		9-11-8 9-11-8	ALICE GORBY MARTIN	Environmenta	al Protection	TH EXPLORATION LLC	1/8+	908	52	N/A	N/A	N/A N/A
10*47051.223.12		9-11-8 9-11-8	JAMES A GORBY			TH EXPLORATION LLC	1/8+	908	42	N/A	N/A	N/A N/A
10*47051.223.13		9-11-8 9-11-8	JUSTIN RINE AND BECKY RINE			TH EXPLORATION LLC	1/8+	907	639	N/A	N/A	N/A N/A
10*47051.223.14	1	9-11-8 9-11-8	LARRY D TAUNT AND BLECKT KINL			TH EXPLORATION LLC	1/8+	908	14	N/A	N/A	N/A N/A
10*47051.223.15 10*47051.223.16	1	9-11-8 9-11-8	BETTY LOU STERN AND WILLIAM KEITH STERN			TH EXPLORATION LLC	1/8+	908	64	N/A	N/A	N/A
		9-11-8 9-11-8	RALPH E HUNTER JR AND WILLIAM KLITTI STELLU			TH EXPLORATION LLC	1/8+	908	9	N/A	N/A	N/A N/A
10*47051.223.17		9-11-8 9-11-8	BRITTNEY MENEAR			TH EXPLORATION LLC	1/8+	908	57	N/A	N/A	N/A
10*47051.223.18		9-11-8 9-11-8	JASON RINE AND HEATHER RINE			TH EXPLORATION LLC	1/8+	907	629	N/A	N/A	N/A
10*47051.223.19		9-11-8 9-11-8	BARBARA A BUZZARD			TH EXPLORATION LLC	1/8+	908	24	N/A	N/A	N/A
10*47051.223.20	1	9-11-8 9-11-8	GARY T WARD AND SHARON D WARD			TH EXPLORATION LLC	1/8+	908	19	N/A	N/A	N/A
10*47051.223.21		9-11-8 9-11-8	SALLY COLE			TH EXPLORATION LLC	1/8+	908	74	N/A	N/A	N/A
10*47051.223.22		9-11-8 9-11-8	RONALD S CRIM			TH EXPLORATION LLC	1/8+	908	81	N/A	N/A	N/A
10*47051.223.23		9-11-8 9-11-8	JO DEE K DAVIS			TH EXPLORATION LLC	1/8+	908	136	N/A	N/A	N/A
10*47051.223.24		9-11-8 9-11-8	JOANNE WELCH			TH EXPLORATION LLC	1/8+	908	141	N/A	N/A	N/A
10*47051.223.25		9-11-8 9-11-8	WENDY L SMARKEL			TH EXPLORATION LLC	1/8+	908	69	N/A	N/A	N/A N/A
10*47051.223.26		9-11-8 9-11-8	TIMIJHOBBS			TH EXPLORATION LLC	1/8+	908	277	N/A	N/A	N/A
10*47051.223.27		9-11-8 9-11-8	KAREN S GAST			TH EXPLORATION LLC	1/8+	908	150	N/A	N/A	N/A
10*47051.223.28			PATSY JO RAJU			TH EXPLORATION LLC	1/8+	908	155	N/A	N/A	N/A
10*47051.223.29		9-11-8 9-11-8	LAURIE DRIGGERS MANDERSON			TH EXPLORATION LLC	1/8+	908	165	N/A	N/A	N/A
10*47051.223.30			JANICE M GONTA GAVALIK			TH EXPLORATION LLC	1/8+	908	180	N/A	N/A	N/A N/A
10*47051.223.31		9-11-8 9-11-8	JOSEPH GORBY DAKAN			TH EXPLORATION LLC	1/8+	908	175	N/A	N/A	N/A
10*47051.223.32 10*47051.223.33		9-11-8 9-11-8	NANCY CIAFFAGLIONE HOUSLEY			TH EXPLORATION LLC	1/8+	908	185	N/A	N/A	N/A
	1	9-11-8 9-11-8	JOHN CIAFFAGLIONE			TH EXPLORATION LLC	1/8+	908	170	N/A	N/A	N/A
10*47051.223.34 10*47051.223.35		9-11-8 9-11-8	DEBRA L CIAFFAGLIONE			TH EXPLORATION LLC	1/8+	908	192	N/A	N/A	N/A
		9-11-8 9-11-8	HAROLD S BROWN II AND MARIA A BROWN			TH EXPLORATION LLC	1/8+	907	641	N/A	N/A	N/A
10*47051.223.5 10*47051.223.6		9-11-8 9-11-8	JOSHUA RINE AND REBECCA RINE			TH EXPLORATION LLC	1/8+	907	634	N/A	N/A	N/A
10*47051.223.7		9-11-8 9-11-8	JACK R WILSON JR AND JANE A WILSON			TH EXPLORATION LLC	1/8+	908	4	N/A	N/A	N/A
10*47051.223.8	1	9-11-8 9-11-8	DAVID M WILSON			TH EXPLORATION LLC	1/8+	907	649	N/A	N/A	N/A
10*47051.223.8	-	9-11-8 9-11-8	LINDA DELBERT			TH EXPLORATION LLC	1/8+	908	32	N/A	N/A	N/A
10*15606	1	9-11-8 9-12-2	CHK-MAC LLC			CHESAPEAKE APPALACHIA LLC	1/8+	798	150	N/A	Chesapeake to Chevron: 30/461	Chevron to Tug Hill: 36/148
	L	9-12-2	CHARLES STEVEN JOHNSON AND SHIRLEY LOUISE JO			TH EXPLORATION LLC	1/8+	924	612	N/A	N/A	N/A
10*16145 10*16238	נ נ	9-12-2 9-12-2	SUSAN MARIE JOHNSON AKA SUSAN MARIE HUBER			TH EXPLORATION LLC	1/8+	924	614	N/A	N/A	N/A
10*16238	L L	9-12-2 9-12-2	HAYMAKER PROPERTIES LP			CHEVRON USA INC	1/8+	902	447	N/A	N/A	Chevron to Tug Hill: 37/437
	L	9-12-2 9-12-2	LESLIE E QUIGLEY			TH EXPLORATION LLC	1/8+	905	8	N/A	N/A	N/A
10*47051.309.1	1	9-12-2 9-12-2	LEWIS M QUIGLEY AND MAXINE V QUIGLEY			TH EXPLORATION LLC	1/8+	907	217	N/A	N/A	N/A
10*47051.309.2 10*47051.309.3	1 I	9-12-2 9-12-2	GERALD W QUIGLEY AND VICKI L QUIGLEY			TH EXPLORATION LLC	1/8+	905	12	N/A	N/A N/A	N/A
1117777153340533		9-12-2					10.			197	IN/A	IN/A

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6				Office o	ECEIVED of Oil and Gas							
Lease Name or No	Tag	Parcel	Grantor, Lessor, etc.	•	and tids	Grantee, Lessee, etc.	Royalty	Deed Boo	ok / Page	Assignment	Assignment	Assignment
0 10*47051.222.10	L	9-12-7	CHRISTINA CAIN	APR	9 2018	TH EXPLORATION LLC	1/8+	905	27	N/A	N/A	N/A
- 10*47051.222.11	L	9-12-7	MARK DAVID HUNT		0 2010	TH EXPLORATION LLC	1/8+	904	451	N/A	N/A	N/A
V) 10*47051.222.12	L	9-12-7	MELISSA ELAINE SCHROTH	_ W De	partment of	TH EXPLORATION LLC	1/8+	904	453	N/A	N/A	N/A
10*47051.222.13	L	9-12-7	BRETT J LAUSIN SR	Environme	intal Protection	TH EXPLORATION LLC	1/8+	907	205	N/A	N/A	N/A
10*47051.222.14	L	9-12-7	MICHAEL E LAUSIN AND SHARON G LAUSIN			TH EXPLORATION LLC	1/8+	913	526	N/A	N/A	N/A
10*47051.222.1	L	9-12-7	DONALD D MCCARDLE AND LUCY MCCARDLE			TH EXPLORATION LLC	1/8+	879	314	N/A	N/A	N/A
10*47051.222.2	L	9-12-7	PATRICIA A GULUTZ AND THOMAS L GULUTZ			TH EXPLORATION LLC	1/8+	888	640	N/A	N/A	N/A
10*47051.222.3	L	9-12-7	SHARON L SMITH			TH EXPLORATION LLC	1/8+	894	487	N/A	N/A	N/A
10*47051.222.4	L	9-12-7	KENNETH M MCCARDLE AND DELORES MCCARDLE			TH EXPLORATION LLC	1/8+	888	642	N/A	N/A	N/A
10*47051.222.5	L	9-12-7	DONALD B WESLEY AND SUSAN J WESLEY			TH EXPLORATION LLC	1/8+	895	76	N/A	N/A	N/A
10*47051.222.6	L	9-12-7	DIANA S GRAFTON AND TIMOTHY A GRAFTON			TH EXPLORATION LLC	1/8+	898	571	N/A	N/A	N/A
10*47051.222.7	L	9-12-7	FREDRICK M YEATER AND SHERI C YEATER			TH EXPLORATION LLC	1/8+	898	626	N/A	N/A	N/A
10*47051.222.8	L	9-12-7	LEONARD O HABERBOSCH			TH EXPLORATION LLC	1/8+	902	442	N/A	N/A	N/A
10*47051.222.9	L	9-12-7	TERRIE L LAUSIN			TH EXPLORATION LLC	1/8+	904	591	N/A	N/A	N/A
10*15484	м	9-12-29	LISA R IMHOFF AND CHAD IMHOFF			TH EXPLORATION LLC	1/8+	913	552	N/A	N/A	N/A
10*15681	м	9-12-29	THELMA W BIRDWELL			TH EXPLORATION LLC	1/8+	921	482	N/A	N/A	N/A
10*15685	м	9-12-29	TRACY RAND			TH EXPLORATION LLC	1/8+	906	4	N/A	N/A	N/A
10*16033	м	9-12-29	MELINDA M GREENOUGH AND DOUGLAS CORWIN G	REENOUGH		TH EXPLORATION LLC	1/8+	926	616	N/A	N/A	N/A
10*16036	м	9-12-29	CLARISSA MALONE			TH EXPLORATION LLC	1/8+	926	614	N/A	N/A	N/A
10*16111	м	9-12-29	KATHLEEN D AND STEVEN MONIGOLD			TH EXPLORATION LLC	1/8+	926	619	N/A	N/A	N/A
10*16283	м	9-12-29	RHONDA L PALASOTA AND SAM A PALASOTA			TH EXPLORATION LLC	1/8+	913	583	N/A	N/A	N/A
10*16334	м	9-12-29	LOLA F BLEVINS			TH EXPLORATION LLC	1/8+	914	416	N/A	N/A	N/A
10*16364	м	9-12-29	STEVEN P ROBERTS			TH EXPLORATION LLC	1/8+	914	418	N/A	N/A	N/A
10*16380	м	9-12-29	DONNA BURNS			TH EXPLORATION LLC	1/8+	926	611	N/A	N/A	N/A
10*16525	м	9-12-29	THE JENNIFER TEACHNOR GAFFEY LIVING TRUST DA	TED OCTOBER 30	OTH 2013	TH EXPLORATION LLC	1/8+	926	637	N/A	N/A	N/A
10*16527	м	9-12-29	ROSELLA M HORR AND WILLARD L HORR			TH EXPLORATION LLC	1/8+	927	4	N/A	N/A	N/A
10*16748	м	9-12-29	KATHRYN BROWN AND BRUCE G BROWN			TH EXPLORATION LLC	1/8+	926	639	N/A	N/A	N/A
10*17882	м	9-12-29	MARY E HAMM			TH EXPLORATION LLC	1/8+	924	552	N/A	N/A	N/A
10*17890	м	9-12-29	JANICE MEDER TRST MEDER LIVING			TH EXPLORATION LLC	1/8+	905	545	N/A	N/A	N/A
10*17893	м	9-12-29	ERIC D & AMANDA N PETRUCCI			TH EXPLORATION LLC	1/8+	924	545	N/A	N/A	N/A
10*17978	м	9-12-29	MARGARET INGALLS SCHICK			TH EXPLORATION LLC	1/8+	925	366	N/A	N/A	N/A
10*18018	м	9-12-29	KATHARINE & WILLIAM BUCKHAM			TH EXPLORATION LLC	1/8+	927	280	N/A	N/A	N/A
10*18171	м	9-12-29	MARYANNE I & HOWARD R BAUM			TH EXPLORATION LLC	1/8+	928	74	N/A	N/A	N/A
10*47051.318.1	м	9-12-29	JOSEPH PAUL FOX AND MARGARET H FOX			TH EXPLORATION LLC	1/8+	905	569	N/A	N/A	N/A
10*47051.318.25	м	9-12-29	MARIANN T DARGUSCH AND JONATHON DARGUSCH	l i		TH EXPLORATION LLC	1/8+	905	549	N/A	N/A	N/A
10*47051.318.30	м	9-12-29	CYNTHIA TEACHNOR GRAHAM			TH EXPLORATION LLC	1/8+	905	553	N/A	N/A	N/A
10*47051.318.31	м	9 -12-29	WILLIAM RICHARD FOX			TH EXPLORATION LLC	1/8+	905	561	N/A	N/A	N/A
10*47051.318.33	M	9-12-29	J RONALD FOX			TH EXPLORATION LLC	1/8+	905	565	N/A	N/A	N/A
10*47051.318.35	M	9-12-29				TH EXPLORATION LLC	1/8+	905	573	N/A	N/A	N/A
10*47051.318.36	M	9-12-29	DANNY CARMICHAEL III			TH EXPLORATION LLC	1/8+	905	576	N/A	N/A	N/A
10*47051.318.4	M		MARY ELISE CAMP			TH EXPLORATION LLC	1/8+	905	557	N/A	N/A	N/A
10 001.010.4											-	-

Lease Name or No 10*47051.318.56 10*47051.318.9 10*17831 10*16145 10*16238 10*16932 10*47051.309.1 10*47051.309.2 10*47051.309.3 10*15461	Tag M N O O O O	9-12-29 9-12-29 9-12-25 9-12-28	SALLY MERRICK	APR 9 2018	Grantee, Lesso TH EXPLORATI	e, etc. Royalt	v Dead P		A	Assignment	A
10*47051.318.9 10*17831 10*16145 10*16238 10*16932 10*47051.309.1 10*47051.309.2 10*47051.309.3	M N O O O	9-12-29 9-12-25 9-12-28	JANICE M MEDER		THEVDLODATI		A Deen B	ook / Page	Assignment	Assignment	Assignment
10*47051.318.9 10*17831 10*16145 10*16238 10*16932 10*47051.309.1 10*47051.309.2 10*47051.309.3	N O O	9-12-25 9-12-28	Envi	A/Demender	THEAPLOKAT	DN LLC 1/8+	905	614	N/A	N/A	N/A
10*16145 10*16238 10*16932 10*47051.309.1 10*47051.309.2 10*47051.309.3	0 0 0	9-12-28	TAMMY L MITCHELL AND ADAM J MITCHELL	W Department of	TH EXPLORATI	DN LLC 1/8+	905	545	N/A	N/A	N/A
10*16238 10*16932 10*47051.309.1 10*47051.309.2 10*47051.309.3	0			ronmental Protect	ON TH EXPLORATI	ON LLC 1/8+	921	131	N/A	N/A	N/A
10*16932 10*47051.309.1 10*47051.309.2 10*47051.309.3	0	9-12-28	CHARLES STEVEN JOHNSON AND SHIRLEY LOUISE JOHNSON		TH EXPLORATI	ON LLC 1/8+	924	612	N/A	N/A	N/A
10*47051.309.1 10*47051.309.2 10*47051.309.3	-	7-12-20	SUSAN MARIE JOHNSON AKA SUSAN MARIE HUBER		TH EXPLORATI	ON LLC 1/8+	924	614	N/A	N/A	N/A
10*47051.309.2 10*47051.309.3	0	9-12-28	HAYMAKER PROPERTIES LP		CHEVRON USA	INC 1/8+	902	447	N/A	N/A	Chevron to Tug Hill: 37/43
10*47051.309.3		9 -12-28	LESLIE E QUIGLEY		TH EXPLORATI	ON LLC 1/8+	905	8	N/A	N/A	N/A
	0	9-12-28	LEWIS M QUIGLEY AND MAXINE V QUIGLEY		TH EXPLORATI	ON LLC 1/8+	907	217	N/A	N/A	N/A
10*15461	0	9-12-28	GERALD W QUIGLEY AND VICKI L QUIGLEY		TH EXPLORATI	ON LLC 1/8+	905	12	N/A	N/A	N/A
	Р	9-12-30	SANDRA SUE HALL AND DAVID HALL		TH EXPLORATI	ON LLC 1/8+	9 05	622	N/A	N/A	N/A
10*15462	Ρ	9-12-30	JUDITH F TEMPLE AND LOUIS I TEMPLE		TH EXPLORATI	ON LLC 1/8+	905	617	N/A	N/A	N/A
10*15468	Р	9-12-30	KEITH W STORCH AND DEBORAH A STORCH		TH EXPLORATI	ON LLC 1/8+	905	624	N/A	N/A	N/A
10*15496	Р	9-12-30	FRANK A STORCH JR AND SUSAN STORCH		TH EXPLORATI	ON LLC 1/8+	906	1	N/A	N/A	N/A
10*15497	P		TOM ALLEY		TH EXPLORATI	ON LLC 1/8+	905	644	N/A	N/A	N/A
10*15498	P		DELBERT D RUSH AND BETTY RUTH RUSH		TH EXPLORATI	ON LLC 1/8+	905	647	N/A	N/A	N/A
10*15682	P		THELMA W BIRDWELL		TH EXPLORATE	ON LLC 1/8+	906	9	N/A	N/A	N/A
10*15684	Р		CHARLES R WILLIAMSON JR		TH EXPLORATE	•	906	7	N/A	N/A	N/A
10*15685	P		TRACY RAND		TH EXPLORATE	•	906	4	N/A	N/A	N/A
10*15727	P		TIMOTHY LEE COLLEY		TH EXPLORATI	•	906	12	N/A	N/A	N/A
10*15740	P	9-12-30	LARRY W ALLEY		TH EXPLORATI	•	912	49	N/A	N/A	N/A
10*16032	Р	9-12-30	MELINDA M GREENOUGH AND DOUGLAS CORWIN GREENOUG	н	TH EXPLORATI	· · · · ·	906	26	N/A	N/A	N/A
10*16035	Р		CLARISSA MALONE		TH EXPLORATI	· · · · · · · · · · · · · · · · · · ·	906	23	N/A	N/A	N/A
10*16047	P	9-12-30	PEGGY KOHRMANN AND DAVID KOHRMANN		TH EXPLORATI		906	32	N/A	N/A	N/A
10*16054	P	9-12-30	MEGAN R AUSTIN AND ANTHONY B POWERS		TH EXPLORATI	•	906	29	N/A	N/A	N/A
10*16071	P	9-12-30	VIRGINIA LESLIE BERTRAM		TH EXPLORATI	•	901	370	N/A	N/A	N/A
10*16110	r D	9-12-30	KATHLEEN D AND STEVEN MONIGOLD		TH EXPLORATI		906	35	N/A	N/A	N/A
10*16137	r D	9-12-30	RODNEY K. BANE & CATHIE J. BANE		TH EXPLORATI	•	906	41	N/A	N/A	N/A
10*16184	Г	9-12-30 9-12-30	RAYMOND P RIEK AND GARDALEE RIECK		TH EXPLORATI	•	906	44	N/A	N/A	N/A
	r D		MARLENE BAKER		TH EXPLORATI	•	906	50	N/A	N/A	N/A
10*16189	г р	9-12-30			TH EXPLORATI	•	906	53	N/A	N/A	N/A N/A
10*16232	г 0	9-12-30	NANNETTE BERLETCH AND MATTHEW S BERLETCH JR		TH EXPLORATI		906	56	N/A	N/A	N/A N/A
10*16241	r D		CATHERINE I AND ERNEST M SILVERIO		TH EXPLORATI	•	906	47	N/A	N/A N/A	N/A N/A
10*16243	P	9-12-30	CHRISTOPHER SAUDERS		TH EXPLORATI	•	905	47 612	N/A	N/A N/A	•
10*16280	P	9-12-30			TH EXPLORATI	•	906	59	•	•	N/A
10*16290	۲ 2		JENNIFER ALLEY				905	626	N/A	N/A	N/A
10*16330	P	9-12-30	LISA R IMHOFF AND CHAD IMHOFF		TH EXPLORATI				N/A	N/A	N/A
10*16331	P		LOLA F BLEVINS		TH EXPLORATI		905	630 638	N/A	N/A	N/A
10*16366	P		STEVEN P ROBERTS		TH EXPLORATI		905	628	N/A	N/A	N/A
10*16374	Ρ	9-12-30	KAREN L ZUCKER AND MICHAEL D ZUCKER		TH EXPLORATI	•	905	632	N/A	N/A	N/A
10*16375	Р	9-12-30	GEORGE E HOLMES AND SUSAN HOLMES		TH EXPLORATI		905	635	N/A	N/A	N/A
10*16381 10*16382	P P	9-12-30	DONNA BURNS LINDA M HONE AND VAUGHN HONE SR		TH EXPLORATI TH EXPLORATI	·······	906 906	20 17	N/A N/A	N/A N/A	N/A N/A

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C Lease Name or No	Tag	Parcel	Grantor, Lessor, etc.	Office of C	EVED	Grantee, Lessee, etc.	Royalty	Deed Bo	ok / Page	Assignment	Assignment	Assignment
	P		SUSAN I BAKER	Office of C	and Gas	TH EXPLORATION LLC	1/8+	905	638	N/A	N/A	N/A
, 10*16410 0 10*16418	P	9-12-30	DENZIL ALLEY JR		0 2040	TH EXPLORATION LLC	1/8+	905	641	N/A	N/A	N/A
10*16435	P	9-12-30	DENISE WILLIAMSON	AFR	9 2018	TH EXPLORATION LLC	1/8+	926	622	N/A	N/A	N/A
10*16437	P	9-12-30	BECKY LANDRIS	MA(Dene		TH EXPLORATION LLC	1/8+	926	625	N/A	N/A	N/A
10*16487	P	9-12-30	JOHN WILLIAMSON JR	WV Depar Environmenta	tment of	TH EXPLORATION LLC	1/8+	927	27	N/A	N/A	N/A
10*16488	P	9-12-30	RACHEL AND FRED THORNE JR			TH EXPLORATION LLC	1/8+	926	628	N/A	N/A	N/A
10*16491	Р	9-12-30	BELA N WELLENREITER			TH EXPLORATION LLC	1/8+	921	467	N/A	N/A	N/A
10*16508	P	9-12-30	JUDITH C LORADITCH			TH EXPLORATION LLC	1/8+	926	631	N/A	N/A	N/A
10*16528	Р	9-12-30	ROSELLA M HORR AND WILLARD L HOR	RR		TH EXPLORATION LLC	1/8+	927	1	N/A	N/A	N/A
10*16539	Р	9-12-30	KATHRYN BROWN AND BRUCE G BROW	WN		TH EXPLORATION LLC	1/8+	926	641	N/A	N/A	N/A
10*16541	Р	9-12-30	DEBORAH L TURLEY			TH EXPLORATION LLC	1/8+	926	644	N/A	N/A	N/A
10*16578	Р	9-12-30	JESSE HOLMES			TH EXPLORATION LLC	1/8+	909	502	N/A	N/A	N/A
10*16606	P	9-12-30	WILLIAM T AND BARBARA W PAUL			TH EXPLORATION LLC	1/8+	919	252	N/A	N/A	N/A
10*16607	Р	9-12-30	LOUISE M AND WILSON D MCELHINNY	,		TH EXPLORATION LLC	1/8+	909	72	N/A	N/A	N/A
10*16616	Ρ	9-12-30	WILLIAM BRYAN COLLEY			TH EXPLORATION LLC	1/8+	913	628	N/A	N/A	N/A
10*16671	P	9-12-30	NATHAN AND KARI KOHRMANN			TH EXPLORATION LLC	1/8+	913	40	N/A	N/A	N/A
10*16672	Р	9-12-30	ANNE R AND JOSEPH A MURPHY			TH EXPLORATION LLC	1/8+	910	215	N/A	N/A	N/A
10*16737	Р	9-12-30	ARIC A HOLMES AND CARI M HOLMES			TH EXPLORATION LLC	1/8+	913	389	N/A	N/A	N/A
10*16744	P	9-12-30	THE JENNIFER TEACHNOR GAFFEY LIVI	NG TRUST DATED OCTOBER 30TH	2013	TH EXPLORATION LLC	1/8+	926	634	N/A	N/A	N/A
10*16769	Ρ	9-12-30	CHARLES C SEAMON			TH EXPLORATION LLC	1/8+	910	219	N/A	N/A	N/A
10*16785	P	9-12-30	JOSHUA W SEAMON			TH EXPLORATION LLC	1/8+	910	223	N/A	N/A	N/A
10*16818	Р	9-12-30	BRENDA REED			TH EXPLORATION LLC	1/8+	927	30	N/A	N/A	N/A
10*16823	Р	9-12-30	PEGGY N AND JAMES E GLASER			TH EXPLORATION LLC	1/8+	913	373	N/A	N/A	N/A
10*16886	Р	9-12-30	DALE R ALLEY			TH EXPLORATION LLC	1/8+	927	19	N/A	N/A	N/A
10*16898	Р	9-12-30	VICTOR E ALLEY JR AND DEBRA A ALLE	Y		TH EXPLORATION LLC	1/8+	926	647	N/A	N/A	N/A
10*17172	Р	9-12-30	LINDA K AND MICHAEL HUMES			TH EXPLORATION LLC	1/8+	927	33	N/A	N/A	N/A
10*17177	P .	9 -12-30	JAMES P MILLER			TH EXPLORATION LLC	1/8+	926	608	N/A	N/A	N/A
10*17294	Р	9-12-30	JOHN P HOLMES AND DEBRA A HOLM	ES		TH EXPLORATION LLC	1/8+	927	6	N/A	N/A	N/A
10*17375	Р	9-12-30	GEORGE R CORNELIUS JR AND JANNA	JANOUSEK CORNELIUS		TH EXPLORATION LLC	1/8+	927	36	N/A	N/A	N/A
10*17388	Р	9 -12-30	LORI A FARMER AND DANIEL K FARME	R		TH EXPLORATION LLC	1/8+	927	9	N/A	N/A	N/A
10*17475	Р	9-12-30	LARRY R CRANE			TH EXPLORATION LLC	1/8+	927	13	N/A	N/A	N/A
10*17476	Р	9-12-30	CHRISTINA NESTELL AND CHARLES E N	IESTELL III		TH EXPLORATION LLC	1/8+	927	207	N/A	N/A	N/A
10*17477	Ρ	9-12-30	MICHAEL SAUDERS AND AMI SAUDERS	5		TH EXPLORATION LLC	1/8+	927	39	N/A	N/A	N/A
10*17496	P	9-12-30	STACY L BARNHART			TH EXPLORATION LLC	1/8+	927	16	N/A	N/A	N/A
10*17536	Р	9-12-30	MABEL MCCARTHY			TH EXPLORATION LLC	1/8+	909	512	N/A	N/A	N/A
10*17619	P	9-12-30	BRENDA GILBERT			TH EXPLORATION LLC	1/8+	927	211	N/A	N/A	N/A
10*17620	Р	9 -12-30	DANIEL E WILLIAMSON AND HEATHER	R WILLIAMSON		TH EXPLORATION LLC	1/8+	927	204	N/A	N/A	N/A
10*17665	Р	9-12-30	ANN M & CURTIS STEVENS			TH EXPLORATION LLC	1/8+	927	215	N/A	N/A	N/A
10*17678	Ρ	9-12-30	KATHERINE & DANIEL DEGROOT			TH EXPLORATION LLC	1/8+	927	218	N/A	N/A	N/A
10*17705	P	9 -12-30	EARL & LYDIA ARMENTA FRAZIER			TH EXPLORATION LLC	1/8+	927	200	N/A	N/A	N/A
10*17726	Р	9-12-30	C FREEMAN MCCALL AND SUSAN M M	1CCALL		TH EXPLORATION LLC	1/8+	915	480	N/A	N/A	N/A

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Lease Name or No	Tag	Parcel	Grantor, Lessor, etc.	APR	9 2018	Grantee, Lessee, etc.	Royalty	Deed Boo		Assignment	Assignment	Assignment
V) 10*17809	Ρ	9-12-30	MARY M MORRIS	·	- L010	TH EXPLORATION LLC	1/8+	921	66	N/A	N/A	N/A
10*17815	Ρ		THE TESTAMENTARY TRUST OF CAREY B PAUL III	WV Dep	partment of	TH EXPLORATION LLC	1/8+	919	252	N/A	N/A	N/A
10*17818	Ρ	•	KATHLEEN REILLY MANNIX AND J MICHAEL MANNIX	Environme	ntal Protection	TH EXPLORATION LLC	1/8+	917	128	N/A	N/A	N/A
10*17882	Ρ		MARY E HAMM			TH EXPLORATION LLC	1/8+	924	552	N/A	N/A	N/A
10*17893	P	-	ERIC D & AMANDA N PETRUCCI			TH EXPLORATION LLC	1/8+	924	545	N/A	N/A	N/A
10*47051.318.1	P	•	JOSEPH PAUL FOX AND MARGARET H FOX			TH EXPLORATION LLC	1/8+	905 904	569	N/A	N/A	N/A
10*47051.318.10	Ρ		DONNA JUNE STRAIT			TH EXPLORATION LLC	1/8+		600	N/A	N/A	N/A
10*47051.318.11	Р	•	RICHARD TAYLOR			TH EXPLORATION LLC	1/8+	904	604 606	N/A	N/A	N/A
10*47051.318.12	Ρ		BARBARA J BEVERIDGE			TH EXPLORATION LLC	1/8+	904	606	N/A	N/A	N/A
10*47051.318.15	Ρ	9-12-30	DONNA CHMELYNSKI			TH EXPLORATION LLC	1/8+	904 904	610 614	N/A	N/A	N/A
10*47051.318.16	P	9-12-30				TH EXPLORATION LLC	1/8+	904 904		N/A	N/A	N/A
10*47051.318.17	Р		CORA ALICE DAUBE			TH EXPLORATION LLC	1/8+	904 904	618 622	N/A	N/A	N/A
10*47051.318.18	P	9-12-30				TH EXPLORATION LLC	1/8+	904 904	622 496	N/A	N/A	N/A
10*47051.318.19	P		JUDY LYNN CHIPLINSKI			TH EXPLORATION LLC TH EXPLORATION LLC	1/8+	904 904	496 531	N/A	N/A N/A	N/A
10*47051.318.2	Ρ	9-12-30					1/8+	904 904	500	N/A	N/A N/A	N/A
10*47051.318.20	Р		CHARLES R BENNETT JR AND DONNA S BENNETT			TH EXPLORATION LLC TH EXPLORATION LLC	1/8+ 1/8+	904 904	500	N/A N/A	N/A N/A	N/A N/A
10*47051.318.21	P	9-12-30					•	904 904	504 508	N/A N/A	N/A N/A	•
10*47051.318.22	P	9-12-30				TH EXPLORATION LLC TH EXPLORATION LLC	1/8+	904 904	508	N/A N/A	N/A N/A	N/A
10*47051.318.23	P	9-12-30				TH EXPLORATION LLC	1/8+ 1/8+	904 904	512	N/A N/A	N/A N/A	N/A N/A
10*47051.318.24	P	9-12-30				TH EXPLORATION LLC	1/8+	904 905	549	N/A N/A	N/A N/A	N/A N/A
10*47051.318.25	P	9-12-30				TH EXPLORATION LLC	1/8+	904	549 520	N/A	N/A N/A	N/A
10*47051.318.27	Р	9-12-30				TH EXPLORATION LLC	1/8+ 1/8+	904 904	520	N/A N/A	N/A N/A	N/A N/A
10*47051.318.28	P	9-12-30				TH EXPLORATION LLC	1/8+	904 904	535	N/A N/A	N/A N/A	N/A N/A
10*47051.318.3	P	9-12-30				TH EXPLORATION LLC	1/8+	904 905	553	N/A	N/A	N/A N/A
10*47051.318.30	P	9-12-30				TH EXPLORATION LLC	1/8+	905	561	N/A	N/A N/A	N/A
10*47051.318.31	P	9-12-30				TH EXPLORATION LLC	1/8+	903 904	539	N/A N/A	N/A N/A	N/A N/A
10*47051.318.32	P	9-12-30				TH EXPLORATION LLC	1/8+	905	565	N/A	N/A N/A	N/A
10*47051.318.33	P	9-12-30				TH EXPLORATION LLC	1/8+	905	442	N/A	N/A	N/A
10*47051.318.34	P	9-12-30				TH EXPLORATION LLC	1/8+	905	573	N/A	N/A	N/A
10*47051.318.35	P	9-12-30				TH EXPLORATION LLC	1/8+	905	576	N/A	N/A	N/A
10*47051.318.36	P P	9-12-30				TH EXPLORATION LLC	1/8+	905	580	N/A	N/A	N/A
10*47051.318.37	P P	9-12-30				TH EXPLORATION LLC	1/8+	905	448	N/A	N/A	N/A
10*47051.318.38	۲ 0	9-12-30				TH EXPLORATION LLC	1/8+	905	444	N/A	N/A	N/A
10*47051.318.39	۲ ۲	9-12-30				TH EXPLORATION LLC	1/8+	905	557	N/A	N/A	N/A
10*47051.318.4	۳ n	9-12-30	MARY ELISE CAMP NANCY MARIE DUNN AND GEORGE L DUNN			TH EXPLORATION LLC	1/8+	905	590	N/A	N/A	N/A
10*47051.318.40	P	•	JOHN T CRISWELL AND CATHERINE A CRISWELL			TH EXPLORATION LLC	1/8+	905	582	N/A	N/A N/A	N/A
10*47051.318.41	P	9-12-30				TH EXPLORATION LLC	1/8+	905	586	N/A	N/A	N/A
10*47051.318.42	۲ n		CHAD ERIC BENNETT AND MARY A BENNETT			TH EXPLORATION LLC	1/8+	905	588	N/A	N/A	N/A
10*47051.318.43	P		STACY R BENNETT			TH EXPLORATION LLC	1/8+	905	596	N/A	N/A	N/A
10*47051.318.44	•		PATRICIA KIRCHNER			TH EXPLORATION LLC	1/8+	905	592	N/A	N/A	N/A
10*47051.318.45	Р	9-12-30					2,01	505	332	197	170	196

WW-6A1 Supplement	
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Lease Name or No	Tag	Parcel	Grantor, Lessor, etc.	APR	9 2018	Grantee, Lessee, etc.	Royalty	-	-	Assignment	Assignment	Assignment
10 4/051.510.40	Р	9-12-30	CAROL L BOBBY AND DONALD J BOBBY			TH EXPLORATION LLC	1/8+		503 500	N/A	N/A	N/A
10*47051.318.47	P	9-12-30	FRIEDA A REINBEAU AND RONALD REINBEAU	WV Dep	artment of	TH EXPLORATION LLC	1/8+		598	N/A	N/A	N/A
10*47051.318.48	Р	9-12-30		Livionnei	ntal Protection	TH EXPLORATION LLC TH EXPLORATION LLC	1/8+ 1/8+		600 594	N/A N/A	N/A	N/A
10*47051.318.49	P	9-12-30	SHARLA ROLLINS AND GARY ROLLINS				1/8+		594 438	•	N/A	N/A
10*47051.318.5	P	9-12-30	WILLIAM F EWART JR AND JOAN REED EWART			TH EXPLORATION LLC	1/8+ 1/8+		438 606	N/A N/A	N/A	N/A
10*47051.318.50	P					TH EXPLORATION LLC TH EXPLORATION LLC	1/8+		508 508	N/A	N/A	N/A
10*47051.318.52	P		PETER G STORCH AND LAURIE L STORCH				•			•	N/A	N/A
10*47051.318.53	P	9-12-30	ROSEMARIE BERISFORD			TH EXPLORATION LLC	1/8+		510	N/A	N/A	N/A
10*47051.318.56	P		SALLY MERRICK			TH EXPLORATION LLC TH EXPLORATION LLC	1/8+ 1/8+		614 520	N/A N/A	N/A	N/A
10*47051.318.57	P		RHONDA L PALASOTA AND SAM A PALASOTA				•		596	•	N/A	N/A
10*47051.318.6	P		JOSEPH F STARC JR AND DONNA STARC			TH EXPLORATION LLC	1/8+ 1/8+		598	N/A N/A	N/A	N/A
10*47051.318.7	Р		REED O MILLER AND EFFIE M MILLER			TH EXPLORATION LLC	•			•	N/A	N/A
10*47051.318.8	Р	9-12-30	JOHN M SHALLENBERGER AND JOANNE SHALLENBERGER			TH EXPLORATION LLC	1/8+		541	N/A	N/A	N/A
10*47051.318.9	P	9-12-30	JANICE M MEDER			TH EXPLORATION LLC	1/8+		545	N/A	N/A	N/A
10*47051.312.0	Q	9 -12-37	JAN GRIMES SIMNACHER LEONARD A SIMNACHER			TH EXPLORATION LLC	1/8+		472	N/A	N/A	N/A
10*47051.311.0	R	9-12-23	MICHAEL J GUNTO AND ROSEMARY GUNTO			TH EXPLORATION LLC AMERICAN PETROEUM	1/8+	905	16	N/A	N/A	N/A
10*19724	S	9-12-24	VENABLE ROYALTY LTD AND VENRO LTD			PARTNERS OPERATING LLC	1/8+	935 2	216	N/A	N/A	APP to Tug Hill: 40/408
10*47051.140.1	т	9-12-32	DAVID P CHAPMAN & DEBORAH BORCK-CHAPMAN			TH EXPLORATION LLC	1/8+	866 3	318	N/A	N/A	N/A
10*47051.140.2	Т	9-12-32	DOROTHY SULLIVAN POA JAMES REID SULLIVAN			TH EXPLORATION LLC	1/8+	873	501	N/A	N/A	N/A
10*15477	U	9-14-18	RONALD A WYCINSKI			TH EXPLORATION LLC	1/8+	906 2	241	N/A	N/A	N/A
10*15730	U	9-14-18	FRANCES V CARPENTER			TH EXPLORATION LLC	1/8+	906 2	256	N/A	N/A	N/A
10*15752	U	9-14-18	KIM O CHAMBERS AND DEBRA CHAMBERS			TH EXPLORATION LLC	1/8+	906 2	258	N/A	N/A	N/A
10*16017	U	9-14-18	FLOYD A MCFADDEN			TH EXPLORATION LLC	1/8+	906 2	260	N/A	N/A	N/A
10*16018	U	9-14-18	BARBARA MCFADDEN ALBRIGHT			TH EXPLORATION LLC	1/8+	906 2	262	N/A	N/A	N/A
10*16030	U	9-14-18	JOSEPH F CHMIELEWSKI AND SANDRA CHMIELEWSKI			TH EXPLORATION LLC	1/8+	906 2	264	N/A	N/A	N/A
10*16031	U	9-14-18	CARL J CHMIELEWSKI AND KATHLEEN A CHMIELEWSKI			TH EXPLORATION LLC	1/8+	906 2	266	N/A	N/A	N/A
10*16083	U	9-14-18	CECIL HARRY LILLY, III AND PAMELA KAY KNIGHT LILLY			TH EXPLORATION LLC	1/8+	912	47	N/A	N/A	N/A
10*16085	υ	9-14-18	KATHARYN ANNETTE LILLY LAING AND FREDDIE JOE LAING			TH EXPLORATION LLC	1/8+	912	45	N/A	N/A	N/A
10*16086	υ	9-14-18	KATHARYN DAY LILLY			TH EXPLORATION LLC	1/8+	906 2	272	N/A	N/A	N/A
10*16087	U	9-14-18	MARY PENELOPE LILLY MURPHY			TH EXPLORATION LLC	1/8+	912	41	N/A	N/A	N/A
10*16131	U	9-14-18	ERIC S DOBBS			TH EXPLORATION LLC	1/8+	902	68	N/A	N/A	N/A
10*16144	U	9-14-18	PATTIE S MADRID			TH EXPLORATION LLC	1/8+	906 2	278	N/A	N/A	N/A
10*16180	U	9-14-18	LARRY L CHAMBERS			TH EXPLORATION LLC	1/8+	906 2	280	N/A	N/A	N/A
10*16181	U	9-14-18	NORMA CHRISTINE WHIPP AND GERALD WAYNE BLACK			TH EXPLORATION LLC	1/8+	906 2	281	N/A	N/A	N/A
10*16182	Ū	9-14-18	FIRST CHRISTIAN CHURCH OF MOUNDSVILLE BY ROGER FRAM	NCIS AND RC	BERT ALBERT TRUSTEES	TH EXPLORATION LLC	1/8+	906	283	N/A	N/A	N/A
10*16183	Ū	9-14-18	ALLEN R L DAVIS AND DIANA LEE PATTERSON			TH EXPLORATION LLC	1/8+	906 2	285	N/A	N/A	N/A
10*16239	Ŭ	9-14-18	ANGELA L OLDFIELD AND KENNETH W OLDFIELD			TH EXPLORATION LLC	1/8+	906 2	287	N/A	N/A	N/A
10*16240	Ŭ	9-14-18				TH EXPLORATION LLC	1/8+	906 2	289	N/A	N/A	N/A
10*16285	Ū	9-14-18	JOHN A SHUTZ AND CYNTHIA J SHUTZ			TH EXPLORATION LLC	1/8+	906 2	291	N/A	N/A	N/A
10*16441	U	9-14-18				TH EXPLORATION LLC	1/8+	924 6	619	N/A	N/A	N/A
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Lease Name or No	Tag	Parcel	Grantor, Lessor, etc.	APR	9 2018	Grantee, Lessee, etc.	Royalty			Assignment		Assignment
V) 10*16442	U	9-14-18	FRED T AND JERRY L CHAMBERS		0 2010	TH EXPLORATION LLC	1/8+	924	174	N/A	N/A	N/A
10*16443	U	9-14-18		W Dec	artment of	TH EXPLORATION LLC	1/8+	924	621	N/A	N/A	N/A
10*16444	U	9-14-18		Environmer	tal Protection	TH EXPLORATION LLC	1/8+	924	623	N/A	N/A	N/A
10*16445	U	9-14-18	DOUGLAS C AND GWENDLYN D LEWTON			TH EXPLORATION LLC	1/8+	925 924	123	N/A	N/A	N/A
10*16483	U	9-14-18	JOHN C AND BARBARA H WINTER			TH EXPLORATION LLC	1/8+ 1/8+	924 924	178	N/A	N/A	N/A
10*16486	U 	9-14-18	DAVID ALAN WILKINSON AND PATRICIA LYNN WILKINSON			TH EXPLORATION LLC	•	924 924	180 176	N/A	N/A	N/A
10*16490	U	9-14-18	WILLIAM H AND MERRY C COTTON			TH EXPLORATION LLC	1/8+		-	N/A	N/A	N/A
10*16498	U	9-14-18	SHELLY YEATER			TH EXPLORATION LLC	1/8+	925 906	283	N/A	N/A	N/A
10*16511	U	9-14-18				TH EXPLORATION LLC	1/8+		475	N/A	N/A	N/A
10*16531	U	9-14-18	KATHY DOBBS WELLS			TH EXPLORATION LLC	1/8+	906	472	N/A	N/A	N/A
10*16532	U					TH EXPLORATION LLC	1/8+	906 906	459	N/A	N/A	N/A
10*16533	U		SHIRLEY ANN DOBBS			TH EXPLORATION LLC	1/8+	906 906	469	N/A	N/A	N/A
10*16534	U	9-14-18				TH EXPLORATION LLC	1/8+	906 906	443	N/A	N/A	N/A
10*16535	U	9-14-18				TH EXPLORATION LLC	1/8+		420	N/A	N/A	N/A
10*16537	U	9-14-18	KIM D BOWEN AND MADONNA M BOWEN			TH EXPLORATION LLC	1/8+	907	415	N/A	N/A	N/A
10*16540	U	9-14-18				TH EXPLORATION LLC	1/8+	924	184	N/A	N/A	N/A
10*16569	U	9-14-18				TH EXPLORATION LLC	1/8+	907	425	N/A	N/A	N/A
10*16570	U		ROBERT D BOWEN AND MARCIA M R BOWEN			TH EXPLORATION LLC	1/8+	907	420	N/A	N/A	N/A
10*16576	U	9-14-18				TH EXPLORATION LLC	1/8+	907	484	N/A	N/A	N/A
10*16580	U	9-14-18				TH EXPLORATION LLC	1/8+	907	480	N/A	N/A	N/A
10*16581	U		HELEN L SCHILLING			TH EXPLORATION LLC	1/8+	907	489	N/A	N/A	N/A
10*16582	U	9-14-18				TH EXPLORATION LLC	1/8+	907	429	N/A	N/A	N/A
10*16680	U		RONALD J AND JENNIFER CHAMBERS FICCA			TH EXPLORATION LLC	1/8+	924	186	N/A	N/A	N/A
10*16726	U	9-14-18				TH EXPLORATION LLC	1/8+	924	182	N/A	N/A	N/A
10*16733	U		SARAH L BISHOP			TH EXPLORATION LLC	1/8+	924	172	N/A	N/A	N/A
10*16835	U		ERNEST CARL AUGUSTINE JR			TH EXPLORATION LLC	1/8+	924	188	N/A	N/A	N/A
10*16882	U	9-14-18				TH EXPLORATION LLC	1/8+	924	190	N/A	N/A	N/A
10*16948	U					TH EXPLORATION LLC	1/8+	924	136	N/A	N/A	N/A
10*16949	U		STEVEN R AND BRIANNE L UTT			TH EXPLORATION LLC	1/8+	924	138	N/A	N/A	N/A
10*16950	U	9-14-18				TH EXPLORATION LLC	1/8+	924	134	N/A	N/A	N/A
10*16952	U		RUSSELL D HERVEY			TH EXPLORATION LLC	1/8+	924	132	N/A	N/A	N/A
10*16953	U	9-14-18				TH EXPLORATION LLC	1/8+	924	140	N/A	N/A	N/A
10*16965	U		WILLIAM L WRIGHT AND CAROLINA WRIGHT			TH EXPLORATION LLC	1/8+	914	524	N/A	N/A	N/A
10*16966	U	9-14-18				TH EXPLORATION LLC	1/8+	913	377	N/A	N/A	N/A
10*16967	U	9-14-18				TH EXPLORATION LLC	1/8+	914	612	N/A	N/A	N/A
10*16990	U	9-14-18				TH EXPLORATION LLC	1/8+	924	152	N/A	N/A	N/A
10*16992	U	9-14-18				TH EXPLORATION LLC	1/8+	924	148	N/A	N/A	N/A
10*16993	U		JULIA HOOVER			TH EXPLORATION LLC	1/8+	924	150	N/A	N/A	N/A
10*16995	U	9-14-18				TH EXPLORATION LLC	1/8+	924	146	N/A	N/A	N/A
10*17129	U	9-14-18				TH EXPLORATION LLC	1/8+	924	142	N/A	N/A	N/A
10*17131	U	9-14-18	LAURA E TOTTEN AND LONNIE R TOTTEN			TH EXPLORATION LLC	1/8+	924	154	N/A	N/A	N/A

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Lease Name or No	Tag	Parcel	Grantor, Lessor, etc.	_ WV Depa	artment of	Grantee, Lessee, etc.	Royalty	Deed Bo	ok / Page	Assignment	Assignment	Assignment
10*17134	U	9-14-18	UNITED CHRISTIAN MISSIONARY SOCIETY	Environment	al Protection	TH EXPLORATION LLC	1/8+	924	144	N/A	N/A	N/A
10*17139	U	9-14-18	ALICE G WEINER AND GERALD S WEINER			TH EXPLORATION LLC	1/8+	915	131	N/A	N/A	N/A
10*17209	U	9-14-18	GAYLE S SHANNON			TH EXPLORATION LLC	1/8+	924	168	N/A	N/A	N/A
10*17289	U	9-14-18	HAROLD R HUNT JR AND ELIZABETH A HUNT			TH EXPLORATION LLC	1/8+	924	170	N/A	N/A	N/A
10*17396	U	9-14-18	CHRISTINE L KIDD			TH EXPLORATION LLC	1/8+	924	158	N/A	N/A	N/A
10*17413	U	9-14-18	ROBERT M CHAMBERS AND CHARLOTTE A CHAMBERS			TH EXPLORATION LLC	1/8+	924	160	N/A	N/A	N/A
10*17436	U	9-14-18	ANDREW M HOOVER AND DINAH R HOOVER			TH EXPLORATION LLC	1/8+	924	156	N/A	N/A	N/A
10*17448	U	9-14-18	FREDERICK L HERVEY AND CATHY J HERVEY			TH EXPLORATION LLC	1/8+	924	162	N/A	N/A	N/A
10*17452	υ	9-14-18	ALAN H & MARY K DEGARMO			TH EXPLORATION LLC	1/8+	924	164	N/A	N/A	N/A
10*17487	U	9-14-18	DEBORAH R MOKOSH			TH EXPLORATION LLC	1/8+	924	166	N/A	N/A	N/A
10*17503	υ	9-14-18	JANICE L KUHN			TH EXPLORATION LLC	1/8+	924	122	N/A	N/A	N/A
10*17504	U	9-14-18	GREGG ALAN MILLER AND BETH ANN MILLER			TH EXPLORATION LLC	1/8+	924	118	N/A	N/A	N/A
10*17505	U	9-14-18	MICHAEL R & LEANNE DOBBS			TH EXPLORATION LLC	1/8+	924	116	N/A	N/A	N/A
10*17515	U	9-14-18	GLADYS E DOBBS			TH EXPLORATION LLC	1/8+	923	541	N/A	N/A	N/A
10*17516	U	9-14-18	MARY V DOBBS			TH EXPLORATION LLC	1/8+	923	53 9	N/A	N/A	N/A
10*17517	U	9-14-18	JULIO ENRIQUE & DEBRA K TORRES			TH EXPLORATION LLC	1/8+	923	537	N/A	N/A	N/A
10*17520	υ	9-14-18	LUCY P SULLIVAN			TH EXPLORATION LLC	1/8+	923	533	N/A	N/A	N/A
10*17528	Ŭ	9-14-18	DEAN E GARRISON			TH EXPLORATION LLC	1/8+	923	535	N/A	N/A	N/A
10*17555	Ū	9-14-18	AARON AND JANA K PARRY			TH EXPLORATION LLC	1/8+	924	113	N/A	N/A	N/A
10*17559	U	9-14-18	MARVIN JERRY BLAKE AND LINDA D BLAKE			TH EXPLORATION LLC	1/8+	923	528	N/A	N/A	N/A
10*17560	U	9-14-18	TREVOR HOOKS			TH EXPLORATION LLC	1/8+	924	110	N/A	N/A	N/A
10*17563	Ū	9-14-18	DONALD L WOOD			TH EXPLORATION LLC	1/8+	923	523	N/A	N/A	N/A
10*17579	Ū	9-14-18				TH EXPLORATION LLC	1/8+	923	525	N/A	N/A	N/A
10*17580	Ū	9-14-18	PAUL CRAIG CUNNINGHAM			TH EXPLORATION LLC	1/8+	923	530	N/A	N/A	N/A
10*17581	Ŭ	9-14-18				TH EXPLORATION LLC	1/8+	923	486	N/A	N/A	N/A
10*17582	Ū	9-14-18				TH EXPLORATION LLC	1/8+	924	124	N/A	N/A	N/A
10*17612	Ŭ	9-14-18				TH EXPLORATION LLC	1/8+	923	480	N/A	N/A	N/A
10*17613	Ŭ	9-14-18				TH EXPLORATION LLC	1/8+	924	120	N/A	N/A	N/A
10*17614	Ŭ		DAVID DOBBS			TH EXPLORATION LLC	1/8+	923	489	N/A	N/A	N/A
10*17615	Ŭ		PAULA JO WRIGHT			TH EXPLORATION LLC	1/8+	923	482	N/A	N/A	N/A
10*17616	Ŭ	9-14-18				TH EXPLORATION LLC	1/8+	924	107	N/A	N/A	N/A
10*17617	Ŭ	9-14-18	·			TH EXPLORATION LLC	1/8+	924	129	N/A	N/A	N/A
10*17664	й Ц	9-14-18				TH EXPLORATION LLC	1/8+	923	511	N/A	N/A	N/A
10*17667	Ŭ		THOMAS BRIAN WARRICK			TH EXPLORATION LLC	1/8+	923	509	N/A	N/A	N/A
10*17668	ŭ		KENNETH R DOBBS			TH EXPLORATION LLC	1/8+	923	503	N/A	N/A	N/A
10*17671	и П		JAMES L STOUT			TH EXPLORATION LLC	1/8+	923	484	N/A	N/A	N/A
10*17674			HOWARD L & BETH E WOOD			TH EXPLORATION LLC	1/8+	923	505	N/A	N/A	N/A
			GREGORY D & CAROLYN J WIBLE			TH EXPLORATION LLC	1/8+	923	507	N/A	N/A	N/A
10*17675	υ		JAMES C & DEIDRE G DORIA			TH EXPLORATION LLC	1/8+	923	513	N/A	N/A	N/A
10*17676	U	9-14-18 9-14-18				TH EXPLORATION LLC	1/8+	923	472	N/A	N/A	N/A
10*17700	U		SUE ANN WORD			TH EXPLORATION LLC	1/8+	923	470	N/A	N/A	N/A
10*17701	U	3-14-10					1,01	223	470		170	N/A

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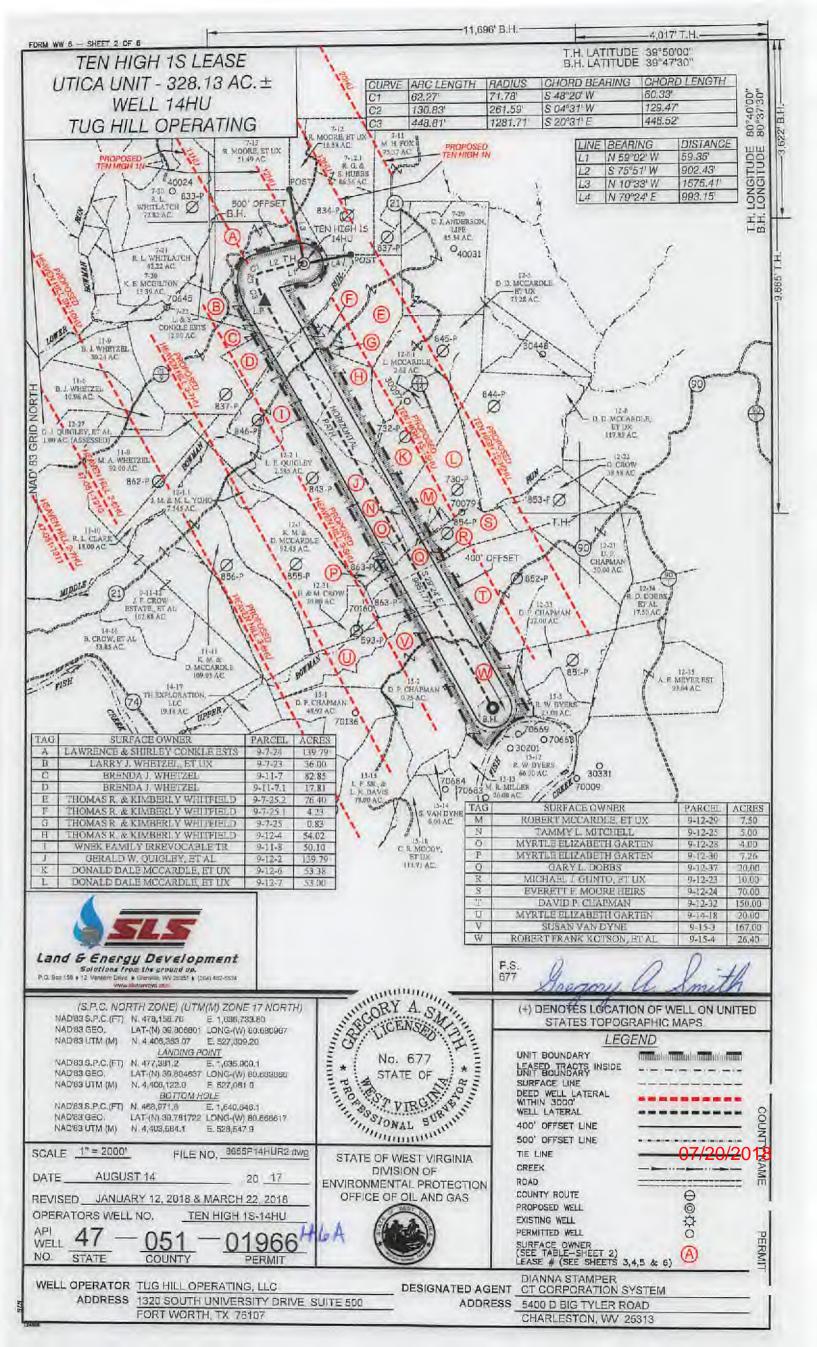
Ţ			RECEIVED Office of Oil and O	as						
ಕ್ರಿ WW-6A1 S	uppl	emen	APR 9 201	}				C	Operator's Well No.	<u>Ten High 1S 14</u>
Lease Name or No	Tag	Parcel	Grantor, Lessor, etc. WV Department	Grantee, Lessee, etc.	Royalty			Assignment	Assignment	Assignment
V 10*17702	U	9-14-18	TAMMY BETH RAMSEY Environmental Prote	ction TH EXPLORATION LLC	1/8+	925	500	N/A	N/A	N/A
10*17703	U	9-14-18	SHIRLEY N COX	TH EXPLORATION LLC	1/8+	923	498	N/A	N/A	N/A
10*17708	U	9-14-18	BETTY LOU NOBLE	TH EXPLORATION LLC	1/8+	924	127	N/A	N/A	N/A
10*17711	U	9-14-18	DEBRA A WENNEMAN AND KURT J WENNEMAN	TH EXPLORATION LLC	1/8+	923	520	N/A	N/A	N/A
10*17731	U	9-14-18	JAMES J MCGHEE AND JEANNINE CHAMBERS MCGHEE	TH EXPLORATION LLC	1/8+	914	519	N/A	N/A	N/A
10*17766	U	9-14-18	EDWARD S & NANCY A ROSENTHAL	TH EXPLORATION LLC	1/8+	923	495	N/A	N/A	N/A
10*17767	U	9-14-18	WILLIAM K & LINDA J MERRITT	TH EXPLORATION LLC	1/8+	923	474	N/A	N/A	N/A
10*17769	U	9-14-18	GLADYS FRAZIER KING	TH EXPLORATION LLC	1/8+	923	492	N/A	N/A	N/A
10*17771	U	9-14-18	CHARLES AND LISA WARRICK	TH EXPLORATION LLC	1/8+	923	477	N/A	N/A	N/A
10*17830	U	9-14-18	BRIAN AND MELINDA MASTERS	TH EXPLORATION LLC	1/8+	925	319	N/A	N/A	N/A
10*17878	U	9-14-18	ROBERT E & SARAH M ROUSH	TH EXPLORATION LLC	1/8+	924	590	N/A	N/A	N/A
10*17879	U	9-14-18	HARRY R WRIGHT JR	TH EXPLORATION LLC	1/8+	924	588	N/A	N/A	N/A
10*17880	U	9-14-18	ANNA M WRIGHT	TH EXPLORATION LLC	1/8+	924	586	N/A	N/A	N/A
10*17881	U	9-14-18	WAYLON L & ANGELA J MURPHEE	TH EXPLORATION LLC	1/8+	924	555	N/A	N/A	N/A
10*17885	U	9-14-18	JOHN RUSSELL BECKER	TH EXPLORATION LLC	1/8+	924	540	N/A	N/A	N/A
10*47051.325.1	U	9-14-18	JUDITH A LEWANDOSKY AND ALAN E LEWANDOSKY	TH EXPLORATION LLC	1/8+	906	225	N/A	N/A	N/A
10*47051.325.2	υ	9-14-18	TIMMY LEE STOUT AND DOROTHY MARIE STOUT	TH EXPLORATION LLC	1/8+	906	222	N/A	N/A	N/A
10*47051.325.3	Ŭ	9-14-18		TH EXPLORATION LLC	1/8+	906	228	N/A	N/A	N/A
10*47051.325.4	Ū	9-14-18	JAMES H WHITE AND RITA FRANKS WHITE	TH EXPLORATION LLC	1/8+	906	230	N/A	N/A	N/A
10*47051.325.5	U	9-14-18	SAMUEL ALAN MCCORD AND WINIFRED A MCKEE	TH EXPLORATION LLC	1/8+	906	232	N/A	N/A	N/A
10*47051.325.6	U	9-14-18	THOMAS O MCCORD	TH EXPLORATION LLC	1/8+	906	235	N/A	N/A	N/A
10*47051.325.7	Ū		SHERON JONES	TH EXPLORATION LLC	1/8+	906	237	N/A	N/A	N/A
10*47051.325.8	Ŭ	9-14-18		TH EXPLORATION LLC	1/8+	906	239	N/A	N/A	N/A
10*15752	v	9-15-3	KIM O CHAMBERS AND DEBRA CHAMBERS	TH EXPLORATION LLC	1/8+	906	258	N/A	N/A	N/A
10*16017	v	9-15-3	FLOYD A MCFADDEN	TH EXPLORATION LLC	1/8+	906	260	N/A	N/A	N/A
10*16018	v	9-15-3	BARBARA MCFADDEN ALBRIGHT	TH EXPLORATION LLC	1/8+	906	262	N/A	N/A	N/A
10*16143	v	9-15-3	MARY LOU CHAMBERS	TH EXPLORATION LLC	1/8+	906	276	N/A	N/A	N/A
10*16144	v	9-15-3	PATTIE S MADRID	TH EXPLORATION LLC	1/8+	906	278	N/A	N/A	N/A
10*16180	v	9-15-3	LARRY L CHAMBERS	TH EXPLORATION LLC	1/8+	906	280	N/A	N/A	N/A
10*16181	v	9-15-3	NORMA CHRISTINE WHIPP AND GERALD WAYNE BLACK	TH EXPLORATION LLC	1/8+	906	281	N/A	N/A	N/A
10*16181	v	9-15-3	FIRST CHRISTIAN CHURCH OF MOUNDSVILLE BY ROGER FRANCIS AND ROBERT ALBE	RT TRUSTEES TH EXPLORATION LLC	1/8+	906	283	N/A	N/A	N/A
10*16239	v	9-15-3	ANGELA L OLDFIELD AND KENNETH W OLDFIELD	TH EXPLORATION LLC	1/8+	906	287	N/A	N/A	N/A
10*16285	v	9-15-3	JOHN A SHUTZ AND CYNTHIA J SHUTZ	TH EXPLORATION LLC	1/8+	906	291	N/A	N/A	N/A
10*16441	v	9-15-3	GEORGE FRANKLIN AND NANCY ANN REED	TH EXPLORATION LLC	1/8+	924	619	N/A	N/A	N/A
10*16442	v	9-15-3	FRED T AND JERRY L CHAMBERS	TH EXPLORATION LLC	1/8+	924	174	N/A	N/A	N/A
10*16442	v	9-15-3 9-15-3	BARBARA BROWN CHAMBERS	TH EXPLORATION LLC	1/8+	924	621	N/A	N/A	N/A
10*16443	v	9-15-3 9-15-3	CATHERINE ELLEN CHAMBERS	TH EXPLORATION LLC	1/8+	924	623	N/A	N/A	N/A
10*16444	v	9-15-3 9-15-3	DOUGLAS C AND GWENDLYN D LEWTON	TH EXPLORATION LLC	1/8+	925	123	N/A	N/A	N/A
	v	9-15-3 9-15-3	JOHN C AND BARBARA H WINTER	TH EXPLORATION LLC	1/8+	924	178	N/A	N/A	N/A
10*16483	v	9-15-3 9-15-3	DAVID ALAN WILKINSON AND PATRICIA LYNN WILKINSON	TH EXPLORATION LLC	1/8+	924	180	N/A	N/A	N/A
10*16486	v		WILLIAM H AND MERRY C COTTON	TH EXPLORATION LLC	1/8+	924	176	N/A	N/A	N/A
10*16490	v	9-15-3			2,01	247	2.0		176	197

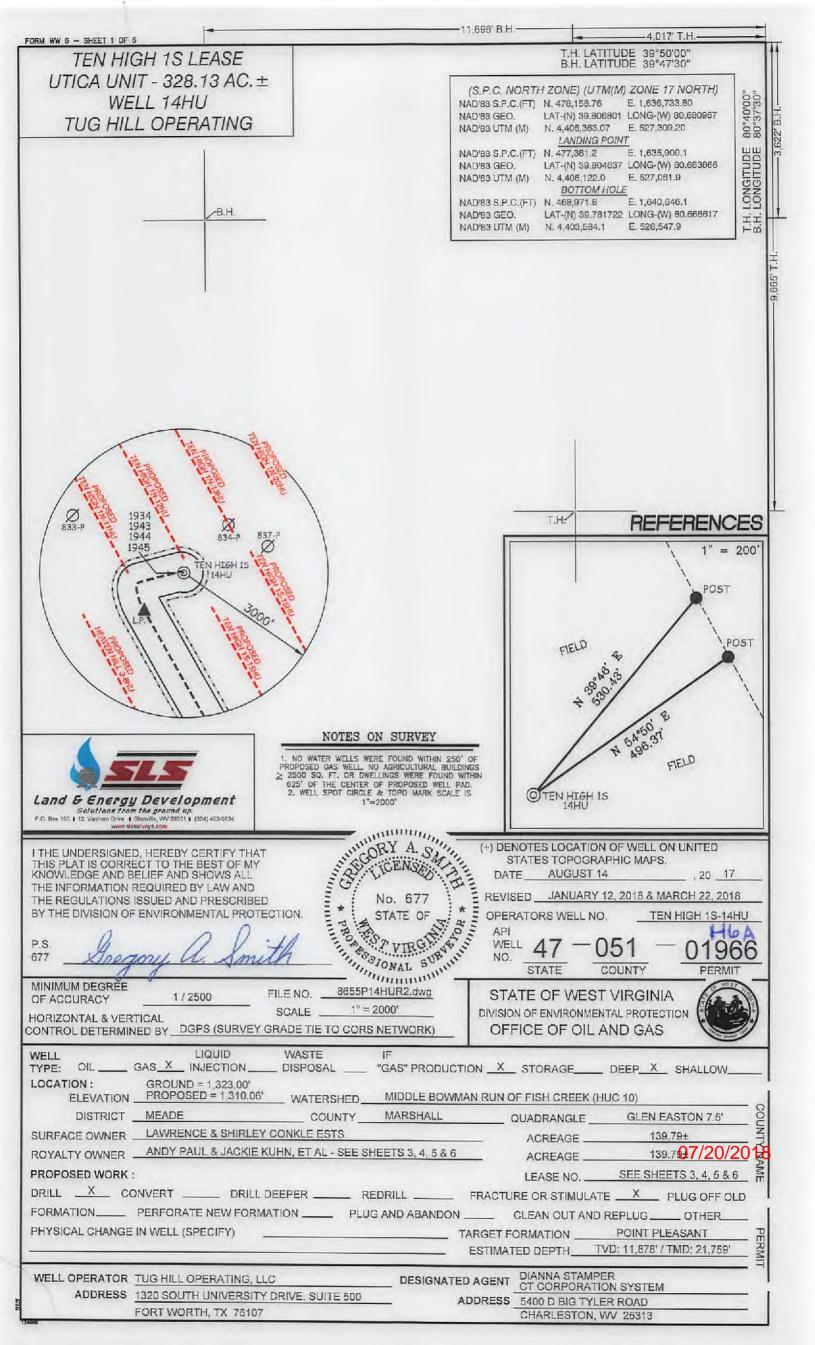
၅ချွWW-6A1 Su	ıppl	emen	t	RECEIVED Office of Oil and Gas				C	Operator's Well No.	Ten High 1S 14HU
OLease Name or No	Tag	Parcel	Grantor, Lessor, etc.	APR 9 2018	Grantee, Lessee, etc.	Royalty	Deed Book / Page	Assignment	Assignment	Assignment
10*16540	V	9-15-3	JAMES A WINTER AND CONNIE G WINTER		TH EXPLORATION LLC	1/8+	924 184	N/A	N/A	N/A
	v	9-15-3 9-15-3	HAROLD C MCFADDEN	W Department of	TH EXPLORATION LLC	1/8+	907 480	N/A	N/A	N/A
€ 10*16580 10*16680	v	9-15-3 9-15-3	RONALD J AND JENNIFER CHAMBERS FICCA	Environmental Protection	TH EXPLORATION LLC	1/8+	924 186	N/A	N/A	N/A
10*16726	v	9-15-3 9-15-3	LESLY K WHITE		TH EXPLORATION LLC	1/8+	924 182	N/A	N/A	N/A
10*16728	v	9-15-3 9-15-3	SARAH L BISHOP		TH EXPLORATION LLC	1/8+	924 172	N/A	N/A	N/A
10*16735	v	9-15-3 9-15-3	ERNEST CARL AUGUSTINE JR		TH EXPLORATION LLC	1/8+	924 188	N/A	N/A	N/A
10*16948	v	9-15-3	FREDERICK M LEWTON		TH EXPLORATION LLC	1/8+	924 136	N/A	N/A	N/A
	v	9-15-3 9-15-3	STEVEN R AND BRIANNE L UTT		TH EXPLORATION LLC	1/8+	924 138	N/A	N/A	N/A
10*16949	v	9-15-3 9-15-3	JAY E AND CECILIA E LEWTON		TH EXPLORATION LLC	1/8+	924 134	N/A	N/A	N/A
10*16950	v	9-15-3 9-15-3	RUSSELL D HERVEY		TH EXPLORATION LLC	1/8+	924 132	N/A	N/A	N/A
10*16952	v	9-15-3 9-15-3	DONALD T AND JEAN K HOGAN		TH EXPLORATION LLC	1/8+	924 140	N/A	N/A	N/A
10*16953	v	9-15-3 9-15-3	ROSEMARY H BEAVERS		TH EXPLORATION LLC	1/8+	924 152	N/A	N/A	N/A
10*16990	v	9-15-3 9-15-3	LINDA C ABRAHAM		TH EXPLORATION LLC	1/8+	924 148	N/A	N/A	N/A
10*16992	v	9-15-3 9-15-3	JULIA HOOVER		TH EXPLORATION LLC	1/8+	924 150	N/A	N/A	N/A
10*16993	v	9-15-5 9-15-3	DIANE ELSIE RAMSEY		TH EXPLORATION LLC	1/8+	924 146	N/A	N/A	N/A
10*16995	v	9-15-5 9-15-3	ROBERTA JANE PARKINSON		TH EXPLORATION LLC	1/8+	924 142	N/A	N/A	N/A
10*17129	v	9-15-3 9-15-3	LAURA E TOTTEN AND LONNIE R TOTTEN		TH EXPLORATION LLC	1/8+	924 154	N/A	N/A	N/A
10*17131	v	9-15-5 9-15-3	UNITED CHRISTIAN MISSIONARY SOCIETY		TH EXPLORATION LLC	1/8+	924 14	N/A	N/A	NA
10*17134	v	9-15-3 9-15-3	GAYLE S SHANNON		TH EXPLORATION LLC	1/8+	924 168	N/A	N/A	N/A
10*17209	v	9-15-3 9-15-3	HAROLD R HUNT JR AND ELIZABETH A HUNT		TH EXPLORATION LLC	1/8+	924 170	N/A	N/A	N/A
10*17289	v	9-15-3 9-15-3	CHRISTINE L KIDD		TH EXPLORATION LLC	1/8+	924 158	N/A	N/A	N/A
10*17396	v	9-15-5 9-15-3	ROBERT M CHAMBERS AND CHARLOTTE A CHAMBERS		TH EXPLORATION LLC	1/8+	924 160	N/A	N/A	N/A
10*17413	v	9-15-5 9-15-3	ANDREW M HOOVER AND DINAH R HOOVER		TH EXPLORATION LLC	1/8+	924 156	N/A	N/A	N/A
10*17436	v		FREDERICK L HERVEY AND CATHY J HERVEY		TH EXPLORATION LLC	1/8+	924 162	N/A	N/A	N/A
10*17448	v	9-15-3 9-15-3	ALAN H & MARY K DEGARMO		TH EXPLORATION LLC	1/8+	924 164	N/A	N/A	N/A
10*17452	v	9-15-3 9-15-3	JOSELYN M KEELY		TH EXPLORATION LLC	1/8+	929 364	N/A	N/A	N/A
10*17486	v	9-15-3 9-15-3	DEBORAH R MOKOSH		TH EXPLORATION LLC	1/8+	924 166	N/A	N/A	N/A
10*17487	v	9-15-3 9-15-3	DONALD L WOOD		TH EXPLORATION LLC	1/8+	923 523	N/A	N/A	N/A
10*17563	v	9-15-3 9-15-3	UNITED DISCIPLES OF CHRIST CHURCH		TH EXPLORATION LLC	1/8+	924 129	N/A	N/A	N/A
10*17617	v	9-15-3 9-15-3	HOWARD L WOOD AND BETH E WOOD		TH EXPLORATION LLC	1/8+	923 505	N/A	N/A	N/A
10*17674	v	9-15-3 9-15-3	GREGORY DEANE WIBLE AND CAROLYN JEAN WIBLE		TH EXPLORATION LLC	1/8+	923 507	N/A	N/A	N/A
10*17675	v	9-15-5 9-15-3	SUE ANN WORD		TH EXPLORATION LLC	1/8+	923 470	N/A	N/A	N/A
10*17701	v				TH EXPLORATION LLC	1/8+	925 500	N/A	N/A	N/A
10*17702	•	9-15-3	BETH W WISHARD & GREG WISHARD		TH EXPLORATION LLC	1/8+	932 584	N/A	N/A	N/A
10*18416	v v	9-15-3	CHRISTIAN CHURCH DISCIPLES OF CHRIST		TH EXPLORATION LLC	1/8+	943 6	N/A	N/A	N/A
10*19523	v	9-15-3			TH EXPLORATION LLC	1/8+	936 505	N/A	N/A	N/A
10*19539	•	9-15-3	SUSAN VAN DYNE NKA SUSAN ASTON THE ESTATE OF CHARLIN GUDGEL		TH EXPLORATION LLC	1/8+	948 301	N/A	N/A	N/A
10*19946	V	9-15-3			TH EXPLORATION LLC	1/8+	948 212	N/A	N/A	N/A N/A
10*19952	V	9-15-3	THE JOHN C BURNS SUPPLEMENTAL NEEDS TRUST WILLIAM JUDSON HERVEY III AND THERESA HERVEY		TH EXPLORATION LLC	1/8+	953 98	N/A	N/A N/A	N/A N/A
10*21109	v	9-15-3			TH EXPLORATION LLC	1/8+	953 100	N/A	N/A N/A	
10*21110	v	9-15-3			TH EXPLORATION LLC	1/8+	953 495	N/A N/A	N/A N/A	N/A N/A
10*21869	v	9-15-3	DAVID A WEBER AND JUDITH V WEBER			1/07	JJJ 4JJ	N/A	N/A	N/A

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10*21931	V	9 -15-3	DONALD M BURNS SUPPLEMENT NEEDS TRUST	APR	9 2018	TH EXPLORATION LLC	1/8+	953	491	N/A	N/A	N/A
り10*21932	v	9-15-3	VAUGHN D BURNS SUPPLEMENT NEEDS TRUST			TH EXPLORATION LLC	1/8+	953	487	N/A	N/A	N/A
10*22192	v	9-15-3	WILLIAM SHEPHERD AND JERRY LEA SHEPHERD	WV De	partment of	TH EXPLORATION LLC	1/8+	954	347	N/A	N/A	N/A
10*47051.325.1	v	9-15-3	JUDITH A LEWANDOSKY AND ALAN E LEWANDOSKY	Environme	ntal Protection	TH EXPLORATION LLC	1/8+	906	225	N/A	N/A	N/A
10*47051.325.3	v	9-15-3	NICHOLAS D PAVLIK AND GLORIA K PAVLIK			TH EXPLORATION LLC	1/8+	906	228	N/A	N/A	N/A
10*47051.325.4	v	9-15-3	JAMES H WHITE AND RITA FRANKS WHITE			TH EXPLORATION LLC	1/8+	906	230	N/A	N/A	N/A
10*47051.325.5	v	9-15-3	SAMUEL ALAN MCCORD AND WINIFRED A MCKEE			TH EXPLORATION LLC	1/8+	906	232	N/A	N/A	N/A
10*47051.325.6	v	9-15-3	THOMAS O MCCORD			TH EXPLORATION LLC	1/8+	906	235	N/A	N/A	N/A
10*47051.325.7	v	9-15-3	SHERON JONES			TH EXPLORATION LLC	1/8+	906	237	N/A	N/A	N/A
10*47051.325.8	v	9-15-3	RICK PAVLIK			TH EXPLORATION LLC	1/8+	906	239	N/A	N/A	N/A
10*16402	w	9-15-4	VALIE L WAGNER			TH EXPLORATION LLC	1/8+	921	464	N/A	N/A	N/A
10*16421	w	9-15-4	SAMUEL EDGAR LEWIS AND ELIZABETH LEWIS			TH EXPLORATION LLC	1/8+	921	449	N/A	N/A	N/A
10*16491	w	9-15-4	BELA N WELLENREITER			TH EXPLORATION LLC	1/8+	921	467	N/A	N/A	N/A
10*17325	W	9-15-4	PHYLLIS ADAMS AND JOSEPH ADAMS			TH EXPLORATION LLC	1/8+	909	520	N/A	N/A	N/A
10*17341	w	9-15-4	JUDITH V RICHARDSON AND DENNIS L ROBICHAUD			TH EXPLORATION LLC	1/8+	921	456	N/A	N/A	N/A
10*17412	w	9-15-4	CHARLES L SHILLITO			TH EXPLORATION LLC	1/8+	921	458	N/A	N/A	N/A
10*17439	W	9-15-4	WILLARD D MCCALL JR AND ADELE HUEY MCCALL			TH EXPLORATION LLC	1/8+	921	454	N/A	N/A	N/A
10*17509	w	9-15-4	BRIAN A MCCALL			TH EXPLORATION LLC	1/8+	921	451	N/A	N/A	N/A
10*17525	w	9-15-4	PAUL W STIFEL AND MARY M GROVER-STIFEL			TH EXPLORATION LLC	1/8+	921	460	N/A	N/A	N/A
10*18294	w	9-15-4	MARY M AND WINFRED K MARTIN			TH EXPLORATION LLC	1/8+	929	342	N/A	N/A	N/A
10*22089	w	9-15-4	MARCIA A LUKE			TH EXPLORATION LLC	1/8+	961	333	N/A	N/A	N/A
10*22108	w	9-15-4	KATHLEEN A MCNEILL AND MICHAEL MCNEILL			TH EXPLORATION LLC	1/8+	961	511	N/A	N/A	N/A
10*22124	W	9-15-4	WILLIAM B EVENS JR AND PENNY EVENS			TH EXPLORATION LLC	1/8+	PEN	DING	N/A	N/A	N/A
10*22257	w	9-15-4	CHARLES F ALLEY TRUST			TH EXPLORATION LLC	1/8+	PEN	DING	N/A	N/A	N/A
10*22380	w	9-15-4	JUDITH S KNIGHT			TH EXPLORATION LLC	1/8+	9 62	276	N/A	N/A	N/A
10*47051.318.46	W	9-15-4	CAROL L BOBBY AND DONALD J BOBBY			TH EXPLORATION LLC	1/8+	905	603	N/A	N/A	N/A
10*47051.318.48	w	9-15-4	DEBORAH SUE KYLE 231 EAST 24TH AVENUE			TH EXPLORATION LLC	1/8+	905	600	N/A	N/A	N/A





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3 30*15864 A 5:7:24 4 30*15866 A 5:7:24 5 30*16049 A 5:7:28	THERESA ANNE HUGHES DRENDA J WHETZEL DAYINY SHAWH KEENS AND ANM LYNN KERNS	1163 1165 505	543 635 518	124 129 130	10*16689 10*16690 10*16720	E	9-7-252 9-7-252 9-7-252	IOHN C FOUNDS RICA RDO ORTIZ DONNA ELAINE BRAS	
7 10*16139 A 9.7-24 # 30*16140 A 9-7-34	LARRY W KURN AND VICKIE B KURN, HUSBAND AND WAFE HUBEKT DEAK KURN AND AND MEAKINN ANDY RAU, S. JACKIS KURN HOWARD V KURN AND KARAY L KURN.	905 405 205 205	522 524 525 578	191 192 123 134	10*15734 10*15742 10*15747 10*15747	E	9-7-152 9-7-152	CHARLES & RINE AND PAUL E WILSON WILLIAM DALE ERASK HEREFURKIAN AND	
9 10*15141 A 9-7-34 10 10*16933 A 9-7-34 11 10*16935 A 9-7-24 12 10*17955 A 9-7-24 17 10*17920 A 9-7-24	ROBERTA ANN AND DAVID SIGIED	915 917 917	237 468 470	135 136 137	10"15798 10"15880 10"15800	E	97-23.2 9-7-25.2 9-7-25.2	PATRICK A RANKIN A JAMES KENNETH JACK	ND ROBIN A RANKIN ISON AND JULE JACKSON AMMTY BUCHA RDSON
13 10*18256 A 9:7-24 14 10*4785129510 A 5:7-34 15 10*4785129511 A 5:7-34	ILFREYSTEPHEN GOOUMAN DEDIA JPALONO REGINA D FISUEROA AND DAVID FIGUEROA	428 305	1 470 435	138 139 140	10*16808 10*16808 10*16807	1	\$7-252 \$7-252		
17 10*4705129810 A 9-7-24 18 10*470512953 A 9-7-24	EARLO VELLAAN THE SOLLYCE WOOD REVOCABLE TRUST BY NICH ICLASED (ARLES WOOD AS TRUST HAREL ARTONA MOORE REVNOLDS LICYTO B MOORE	905 20 904 204 204	432 641 612 439	141 142 145 144	10*16819 10*16819 10*16819	E	\$-7-257 \$-7-257	MICHAELLORTIZ HAROLD W PYLE TERESA ORTIZ BIGGS	anute
19 10*47051:195.4 A 9-7.24 20 30*47051:295.5 A 30.724 21 10*47051:295.6 A 87.724 22 10*47051:295.7 A 87.74		304 304 304	430 675 638 460	144 145 146 147	10*15816 10*15816 10*15837 10*15838	E E	9-7-752 9-7-752	SHEILA BRASKETT WE RICK A AND LENORE/ TERRY LAND SHELMA ROBERT & FUNARI	ASTORIS
	JAANES CHIMAELEICH IN AND KAREN HIMAELEICK: BRUKE OSCHUMK	804 821 125	465 478 325	145 149 150	10*16439 10*16439 10*16468	1 1 1 1 1 1 1	9-7-252 9-7-252 9-7-252	IANES & FOUNDS AN TINA MOORE MICHAEL W STORTS A	AND JESSICA MISTORTS
25 40*16115 0 9-7-23 27 10*16247 8 9-7-23 28 10*172415 8 9-7-23	CAROL RIGGLE PARSELY AND LAMES DENNIS PARSLEY DILLON PITSENBARGER	925 1125 919	319 327 241	151 152 153	10*16470 10*16460 10*16402	E E	9-7-25.2 9-7-25.2	MARK E AND LESLEY / NEVERLY ANN STORT MARY BARCAW DUK	1
28 10*17506 8 9-7-23 30 10*47507 8 9-7-23 31 20*47051.256.1 8 9-7-23 32 10*47051.256.1 8 9-7-23	BRENDA I WATETZEL	512 512 884 905	230 235 145 35	154 155 156 157	10*16972 10*16976 10*16977 10*16977		9-7-25.2 9-7-25.2	DENNIS PAND BARD LESTER GAND CONST JEREMY COCHENOUR LAURIE EZELL PERKY	TANCE & MICROLSON
32 10*47051.266.11 8 9-7-23 34 10*47051.256.12 1 9-7-23 35 10*47051.256.13 9 9-7-23	ICHN L MASON STEVEN A BENHER WILLIAM W CROID AND GLENDA L CRAIG	505 505 505	37 39 41	158 159 160	10*16991 10*16991	1 1	9-7-25.2 9-7-25.2 5-7-25.2	BRITTANY RICHARDSI MARYELLEN FOUNDS THOMAS RANKIN	ON AND LAUREN FOUNDS
36 10*47051.256.14 8 3-7-23 37 10*47051.256.15 8 3-7-23 38 10*47051.256.16 D 3-7-23 39 10*47051.256.17 8 9-7-23		905 104 905 904	43 455 45 457	161 162 163 164	10*17150 10*17155 10*17156	1	9-7-252 8-7-252	CINDY L BAAGER JESSE LEON JR AND T HENRI NELL JACKSON	I VENT BARNES
ID 10*47051.256.17 6 9-7-23 40 10*47051.256.18 8 9-7-23 41 10*47051.256.19 6 9-7-23 42 10*47051.256.19 6 9-7-23 42 10*47051.256.20 6 9-7-23		913 907 907	522 207 209	165 165 167	10*17157 10*17194 10*17295 10*17295	E I	57252	JAMES NITERY(S) III A THOMAS G AND DIAN GANURAJEAN WILSO PATRICKS GALLAGES	NEW BAYLESS
43 10*4706129621 0 3-7-23 44 10*4708129622 8 3-7-23 45 10*4705125632 8 3-7-23	LACK L MABON AND JEAN MIMASON IRVERTY HOPSON ROMATL BOMAR	904 913 913	626 581 556	168 169 170	10+17274 10+17278 10+17276	- +	9-7-252 9-7-252 9-7-252	DAVID H WILSON IOHN R REEVES AND BERTHA EZELL WYAT	MONA GREEVES
45 10°47053.254.24 0 9-7-23 47 10°47051.256.7 0 9-7-23 46 10°47051.256.8 8 9-7-23	CATHERINE BONAE PETIT BULIE MARENY SUE BUNAER NAMEUA ANN MASON	300 300 300	628 29 31	171 177 177	10*17278 10*17579 10*17577	1	\$-7-252 \$-7-252		THE IN AND ELIZABETH A SZELLE
40 10*47051.236.3 5 3-7.23 50 20*15768 C 9-11-7 51 20*16/01 C 9-11-7 52 20*36125 C 9-11-7	WARDA MASCH SUNSTIME INDICE DISCHARE TOMMY BOWAR AND TANKA 5 DONAR CARLW HARRIS	905 921 925 935	33 478 325 329	174 175 176 177	10*17416 10*17418 10*17440 10*17440	I I	9-7-752 9-7-752	ANDREW MORTE DENNISM WILSON RENDRA WALISA RALPH J WILSON	
51 10°16047 C 9-11-7 54 10°16145 C 9-11-7 55 10°17405 C 9-11-7 55 10°17506 C 9-11-7	CARCURAGELE PARSLEY AND JAMES DENNIS PARSLEY DILLON PITSENBARGER	925 810 910	337 241 229	178 179 180	10*17442 10*17442 10*17443 10*17444	I	9-7-252 9-7-252	SHANE ALLEN AND N MICHELLE MORROW- KELLY FOUNDS CAMP	BAEK
56 10*17107 C 9-11-7 57 10*47051.256.1 C 9-11-7 58 10*47051.256.10 C 9-11-7	IRENDA J WHETZEL GRACELAURA BONAR	915 881 505	235 145 35	181 182 188	10*1740 10*1740 10*1740		9-7-252 9-7-252 9-7-252	PHYLUS J BLAKE TERESA EZELLE RALY/ RICHARD I PYLE	AND DAVID & RALYA
50 10*47051.256.11 C 3-11-7 50 30*47051.256.12 C 9-21-7 61 20*47061.256.23 C 9-21-7 62 40*47061.256.23 C 9-21-7 62 40*47061.256.14 C 9-21-7	IOTHELANSON STEVEN A DOINGR WILLIAM W CRAIG AN 9 GLENDA LORAIG HUGHER BUZZAD	505 505 905 905	37 30 41 42	1M 185 185 185	10*1744 10*1745 10*17556	1	9-7-252 9-7-252	IEFFREY L REEVES AN	
52 40147081.298.14 C 9.1.7 63 40147081.256.18 C 9.1.67 54 30147081.256.18 C 9.1.67 55 30147081.256.18 C 9.1.67 55 30147081.256.18 C 9.1.67	CINABIOTTE & BRAMACLI CINABIOTTE & BRAMACLI MAYINE & ICHNICON	904 905 904	455 45 45 457	188	30*1752 30*17552 10*17554 30*17554	1	9-7-252 9-7-252		L AND LUCILLE D F2HL D FATHERA A BEVACIUA KATHERA L TYRELL
56 30*47051.258.18 C 5:18-7 67 30*47051.258.18 C 5:18-7 58 30*47051.258.19 C 5:18-7	JOI'N WILLIAM DONAE AND SIGNLEY BOHAN MICHAEL DAVID PALES AND CYNTRIA A PYLES JEFFREX THOMAS PYLES AND TERISA A PYLES	913 912 902	522 207 209	181 152 138	10*17%4 30*17%4 30*17%4	- 1	8-7-242 9-7-242	IAMES KONALONICA IESSE ALLEN PACKSO	LOLSON AND TRACEY E NICKOLSON N AND EUZABETH O JACKSON AND BARBARA T ERDOBSY
HI 10*47051_154_21 C 9-11-7 70 10*47051_256_22 C 8-11-7 71 10*47051_256_23 C 5-11-7 72 10*47051_256_24 C 5-11-7	BEVERLYL HOPSON ROBERT L BOHAR	904 912 813	525 381 356	194 195 195	10*17544 10*17529 10*17677	E	97-252 97-252	IA MES MUADUSON MARY CHRISTINE MC BEORGE M GONTALI	
73 10*47051256.7 C 5:11-0 73 10*47051256.7 C 5:11-7 74 10*47051256.8 C 5:11-7 75 10*47051256.8 C 5:11-7		904 9/8 9/8 9/5	528 24 31 33	297 298 199 200	18*17744 10*16/23 10*16/23 10*47/051.22	E	9-7-252 9-7-252	SAM PRESERVERELL CHRISTOPIER & IACO DALE P & EXNTHIALI AUCE GURBY MARTIN	WARD
26 10*15746 D 3-11-7.1	INDER DISCHURR TOMMY BONAR AND TANYA S IICINAR	921 925 928	478 325 329	201 202 208	10*47051.22 10*47051.22 10*47051.22	8.11 E 8.15 E	8-7-25.2	AMES A GOREY	
29 10*16347 0 9.117.0 80 10*17415 D 0*12-37 81 10*17956 D 9:147.0	DILLON PITSENBAAGEN CHASKIA F HARRIS AND JAMES MINARAIS	975 910 910	327 281 219	204 205 206	10*47051.22 20*47051.22 30*47051.22	3.30 E 3.35 E	9-7-23.2 9-7-23.2	GARY T WARD AND S LAUNE DAIGGERS M NANCY CIAFFAGLICA	ANDERSON
82 30*17807 0 9-14-7.1 83 32*47061.258.1 D 9-16-7.1 84 30*47051.258.10 D 9-16-7.1 85 30*47051.258.10 D 9-16-7.1 94 30*47051.258.10 D 9-16-7.1	DRENDA J WHETZEL BRACELAURA BOHAR	910 881 905 905	225 145 35 37	203 208 209 210	10*47/051.22 10*47/051.22 10*47/051.22 10*47/051.30	3.6 F 1.9 F		DEBRA LCIAFFAGUO JOSHUA RINE AND RI LINDA DELBERT THOMAS R WHITTEL	EBEC CA RINE
B6 30*47/251.256.12 D 9-11-7.4 B7 30*47/251.256.13 D 5-12-7.1 B3 20*47/251.256.14 D 5-12-7.1	STEVEN A BOHRER WEILAM W CRAIG AND GLINDA LODAIG INGALK BULZARD	975 975 975	30 41 43	211 212 213	10* 47051,30 10* 47051,30 10* 47051,30	9,2 E 8,1 F	9-7-252	FIMBERLY & WHITFIEL THOMAS R WHITFIEL FIMILE RLY & WHITFIEL	۵ ۵
B0 20*47051.255.15 D b.11-7.1 90 20*477051.255.15 O 5.11-7.1 81 20*477051.255.17 U 5.11-7.1 82 20*477051.255.17 U 5.11-7.1 82 20*477051.255.18 O 5.11-7.1	CHARLOTTE B HUMMELL MAXINE GJOHNSON	904 925 904	455 45 457	214 215 216	10*67051,80 10*67051,30 30*15481	92 G H	912-6	THOMAS R WHITFIEL FOMBLILY A WHITFIE DEAN P RIGBY AND S	D 10
B2 B0*47081155.18 D B-16-7.1 B3 50*47051256.29 D 9-16-7.1 S4 30*47051256.20 D 9-16-7.1 S4 30*47051256.20 D 9-16-7.1 S5 30*47051256.21 D 9-16-7.1	MICHAEL DAVID PALES AND CYNTIMA A PALES IEFFREY THOMAS PALES AND TERESA A PALES	913 907 907 904	522 207 208 545	217 218 219 220	10*15443 30*15840 30*15750	H	9-12-4	SUSAN HELSON JOHN OMER BOLTZ SANDRAK TRULL MATTI ERUTH JACKSK	5.0 ANS/FATT
36 37.4703128.22 0 8-11-7.3 97 30.4705128.23 0 8-11-7.3 98 30.47051256.24 0 8-11-7.3	SEVERLY HOPSON NUMBERT : BONAN	913 913 904	581 556 624	221	10*16038 10*16118 10*16297 10*16296	H	9-12-4	RUBY REDUE LACKSO ROBERT A LEADBETT	
	FAMELA ANN MASON WANDA MASON SUNSHINE	905 105 925	29 31 31	224 225 226	10*16381 10*16414 10*16415	H	13-12-4 19-12-4 19-12-4	ROMENT STIPHEN DR MARY ELIZABETH OR TEHENCE 7 ANDERSO	
102 10°1541 E 8-7-25.2 103 10°1541 E 8-7-25.2 104 10°15666 E 9-7-25.2 105 10°15666 E 9-7-25.2	SUSAN NELSON	938 538 938 938	197 253 160 229	217 218 279 230	30*16416 10*16416 10*16416 10*16476	. <u>H</u>	9-12-4 9-12-4 9-12-4 9-12-4	CYNTHIA HUIDSON ROBERT J RIGBY RALPH LAND JUANIT MAJUON LAND EMIL	
106 10*1625 E 9.7.25.2 107 10*16118 E 5-7-25.2 108 10*16277 E 5-7-25.2		50E 505 50E	291 293 235	231 232 238	10*16514 30*16514 30*16515	H	8-12-4	ALEX BUSIELL AND JO ANNA MARIEJACISS WILSON ANDREW JA	DVCE A CAMPBELL DN
108 20°36208 1 5-7-25.4 110 10°36813 E 5-7-25.3 111 10°36814 E 5-7-25.3 112 10°36414 E 5-7-25.3	ROBERT STEPHEN DRIGGERS	901 903 938	254 224 208	234 235 236	10*16343 10*16802 10*18860	н	9-17-4	NOBERT G & ELLEN RO RICHARD THOMAS AN MICHAEL P PALE	ND YICKI I MIMS
113 10°16415 E 377252 114 10°16416 F 9.7252 114 10°16424 F 9.7252 115 10°16448 F 9.7252	CYNTHA HUDSON Norekt i r Crav	908 908 908 908	213 319 241 584	237 238 239 240	30*16967 30*16988 30*16989 30*16989	H		CHARLES F AND GAIL JACK I AND MERRILEI JOHN 5 AND RATRICE CHERVLE M TRACEY	EFYLE
315 30*56478 E 8-7-35.2 317 30*56514 E 9-7-25.2 318 30*58515 E 9-7-25.2	ALER RUSSELLAND JUYCE A CAMPELL ANNA MARIEJACESEN	93 93 53	245 248 251	241 242 243	10*15685 10*16689 10*16699	H H	9-12-4 9-12-4 9-12-4	SHERFYL PYLE BAIR JOHN C FOLINDS INCARDO ORDZ	
113 10 ⁴ 16516 L 9.7 25.4 110 10 ⁵ 16565 E 8-7-25.2 121 10 ⁵ 16565 E 9-7-25.2 122 10 ⁶ 16565 F 9-7-25.2	ADBERT & & ELLEN FOUNDS RICHARD THOMAS AND VICK 12 MINIS	912 902 908 908	253 260 863	244 245 746	10*16720 10*16720 10*16742	H H H	9-12-4 9-12-4 9-12-4	DONNA ELAINE BIAS CHARLES A BINE AND PAUL C WILSON	D RUTH E RINE
123 10/16467 E 3-7-252 124 10/16668 E 3-7-252	EBARLESE AND GAULANN PYLE JACKY AND MENRAE MYLE JOHN SAND DRATHEASE ADDD	506 509 509	255 266 257 268	247 248 249 250	10*16707 10*16704 10*16800 10*16800	N N	5-12-4 5-12-4		IND BOSIN & BANKIN ISSON AND JULIE JACKSON
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FORM WW 6 - SHEET 4 OF 6

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D3 D2*12744 1 5-32-8 SAA3 MEDI OV EXCEL 521 A0 D2*477554 1 5-32-8 SAA3 MEDI OV EXCEL 521 A0 D2*477554 1 5-32-8 SAA3 MEDI OV EXCEL 527 A1 D2*47554 1 5-32-8 SCAA5 MEDI OV EXCEL 527 A1 D2*47554 1 5-32-8 SCAE54 627 500
4L 10*47051.323.30 1 9-35-8 RORERT EGORIY 208
44.1 10*40051225132 1 5-11-4 ALICE GORBY JAATTIN 500 444 10*42061225133 f 5-11-4 JAMES A BURRY 908
45 10/42/051.223.14 / 9.11.8 AUSTIM IDNE AND BECOVINUE 907 44 10/42/051.223.15 / 9.11.8 LANKY 0 TAUNT AND MARCY LTAUNT 908
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40 10°42051.223.18 (9-11-8 BRITINEY MENKAR 908 50 10°42051.223.18 (9-11-8 DATON IR NE AND HEATHER PINE 907
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153 10%2051273.22 F 9-11-8 SALLY/COLE 904 54 10%42051273.22 I 9-11-8 SALLY/COLE 906 54 10%42051273.22 I 9-11-8 RDAALDS CRIAL 906
15 10*4765122524 1 9-11-8 x/O Dill & BAV/S 508 161 10*4705122725 1 9-31-8 x/O AMME WEIGH 508 15 10*4705122725 1 9-31-8 x/O AMME WEIGH 508 15 10*4705127225 1 9-31-8 x/O AMME WEIGH 508
57 10:74063.223.26 1 9:11.8 M2RUPX 55MRKL 208 58 10:74051.223.27 1 0:41.9 TM43 HORES 208 50 10:74051.223.27 1 0:41.9 TM43 HORES 508 50 10:74051.223.27 1 0:41.9 TM43 HORES 508
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162 10147051.223 31 1 5-13-8 JANKCT M GONTA GAVALIK 568 163 10142051.223 33 1 5-13-8 JOSEPH GORIN DAXAM 568
64. 1042051.222.33 1 5-13-8 VANCY CAFFAGIIONE 10215/LV 968. 64. 1042051.222.34 F 9-13-8 JOIN CAFFAGIIONE 968.
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177 10*47051309.2 1 512-2 LEWIS M GUIGLEY AND MAKINEY QUIGLEY 907 78 10*47051300.3 1 512-2 GERALD W GUIGLEY AND VIED L GUIGLEY 905
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10*16340 M 9-12-29	STEV IN A AGETRIS Conna Burns The Lennifus teaching gaffly living tillst dat 20 october both 2018 -	926 431 926 431 926 937	675 10*67051 314 31 P 9-12-10 679 10*67051 315 32 P 9-12-20	WILLIAM INCHARD FOX SHARON KELLER JOEV KELLER IR	905. 904
30*16521 M 9-12-25 20*16748 M 9-12-25	ROSELLA MHORE AND WILLARD LINDER KATHEVN BROWN AND DRUCE G BROWN	107 4 106 535 304 552	611 10*47051.318.34 P 9-12-32	2 DUNNALD FOX 2 DONNA SMITH WEEKLEY 2 ANNA MAE PATTERSON	202 202 202
10117860 M 9-12-25	MARY E HAMM IANGE MEDER TRIST MEDER LIVING ERIC D & AMANDA N PETRIJCCI	903 <u>545</u> 924 545	EED 10*47051.31#36 P 5-12-30 644 10*47051.31#37 P 5-12-30	DANNY CARMICHAEL II GENELDA MASON	905 905
10*15718 M 9-12-29	MARGARET INGALLS SCHICK KATHARINE & WILLIAM BUCKHAM ZARIYATINE I & HOWARD R BALM	925 365 927 280 928 74	616 10747051315.39 P	SHERWOOD MASON RILA AINE MASON DONNA K DUNN AND JAMES OLINN MARY EUSE CAMP	405 305 305
10*47051318.1 M 9-12-29 10*4705131625 M 9-12-29	JOSEPH PALL FOX AND MARGABETH FOX MARIANN TOARGUSCH AND JON ATHON DARELINGH	RCS 568 905 545	618 10*47031.318.40 # 3-13-34 619 10*47031.318.41 # 5-13-34	NANCY MARE DUNN AND GEORGE & DUNN DOWN T CRESWELL AND CATHERING A DRISWELL	505 3011 705
10*47051 214 51 M 9-12-29	WILLIAMRICHARD FOR WILLIAMRICHARD FOR I RONALD FOR	905 555 905 561 906 565	541 10° 47011.218.43 P 5-12-3	0 TARA E CAUSEY 0 CHARS ERIC BENNETT AND MARY A BENNETT 0 STACY A RENNETT	ini ini
10*4701131835 M 9-12-29 10*4701131836 M 9-12-29	ANNA MAE PATTERSON DANNY CRAMCHAD.III	905 571 905 576	543 10*47051.318.45 P 9-12-5 544 10*47051.518.45 P 9-12-3	PATRICIA KIRCHNER CARDLE BORRY AND DONALD J BOREY	505 505 505
20*47051318.56 M B-11-29	MARY FLISE CAMP SALLY MERRICK JANICE MIMEDER	2035 537 2035 614 (435 545	646 10"47081,818.48 P 9-12-3 E47 10"47081,518.49 P 0-12-3	9 FRIEDA A BUINSEAU AND BUNALD BEINBEAU 9 DEBORAN SUE KYLE 233 CAST 74TH AVENUE 9 SHAREA ROLLINS AND GARY BOLLINS	90% 80%
10"17831 N 3-12-25 10"18145 O 5-12-28	TANMY L MITCHELL AND ADAM I MITCHELL CHARLES STEVEN JOHNSON AND SHIRLEY LDUISE JOHNSON	971 181 928 612	E48 10*47051.318.30 F 9-12-3	O WILLIAM F DWART JR ANG JOAN REED EWART O SHELA SINIMONS O STELLA SINIMONS	905 905 905
10*16481 0 912-28	SUSAN MARIE JOHNSON AKA BALAN MARIE HUBER Hayimaker Propertiks LP Leeller quigtey	924 614 922 447 905 B	651 10*67051.318.53 P 9-12-3 652 10*67051.318.56 P 9-12-3	0 PETER & STORCH AND LAURIE LESTORCH 0 ROSEMANE BERISPORD 0 SALLY MERRICK	905 903
10*47034.309.2 O 9-12-25 10*47031.309.3 O 9-12-25	LEWIS MIGUIGLEY AND MAXINEY QUIGLEY GERALD W QUIGLEY AND WICK'L QUIGLEY SANDRA SUE HALL AND DAVID HALL	907 217 905 12 909 622	554 10*47051315.6 P 9-12-3	0 RHONDA L PALAEGTA AND SAM A PALASOTA 0 JOSEPH F STARCJRAND DONINA STARC 0 REED G MILLER AND EFHE M MILLER	905 934 934
10*15462 P 9-12-30 10*15468 P 9-12-30	JUDITH # TEMPLE AND LOUIS I TEMPLE RETH W STORCH AND DEBORAH A STORCH	1625 537 302 624	655 10*47051318,8 P 9-11-3 657 10*47051318,9 P 9-11-3	0 JOHN MUSHALLENBERGER AND JOANNE SHALLENBERGER 0 JANICE M MEDER	905 905
20*15406 F 0+12-30 10*15487 F 5+12-30 10*15498 F 0+12-30	HANK & STORCH JR AND SUSAN STORCH. SOM ALLOY DELAURT D RUSH AND RETTY NUTH RUSH	905 1 905 644 905 647	618 10*47051312.0 Q 911-3 649 10*47051312.0 8 8437/2 650 3 8417/2	MICHARLI GUNTO AND ROSEMARY GUNTO	904 905 905
10*1582 P 5-12-35 30*15884 P 5-12-35	THEIMA W KIRDWELL CHARLES K WILLAMSON JR	906 5	661 10*47091.145.1 T 9-12-3 662 10*47091.145.2 T 9-12-3	2 DAVID P CHAPMAN & DEBORAH BOROK CHAPMAN 2 DORDTHYSULLIVAN POAJAMES REID SULLIVAN	8/8 873
10*1577 P 3-17-30	TRACY RAND TIMOTHYLEE COLLEY LARRY WALLEY	906 12 902 49	464 10*16730 U 9-14.1	B RONAUS & WYCINSKI B FRANCES V CARPENTER E KIMO CHAMBERS AND DEBUA CHAMBERS	906 906 506
10*16052 P 9-12-30 10*16855 P 9-12-30	MELINDA MIGHENOUGH AND DOUGLAS CORWIN GREENOUGH CLARUZA IMLONE	906 25 906 23	466 10*16017 U 9-14-1 667 10*16018 U 9-14-1	E FLOYD A WEFADDEN 8. BARRARA MEFADDEN ALBRIGHT	906 906
10*16054 P 9-12-3D	PEGGY KOHRMANN AND DAVID KOHRMANN MIGAN RAUSTIN AND ANTHONY & POWERS VIRGINIA LESLIE BERTRAM	906 32 906 25 901 570	669 10*16091 U 5-14-1	ADSEAN F CHMIELEWSKI AND SANDRA CHMIELEWSKI CARLJ CHMIELEWSKI AND RATHLEEN A CHMIELEWSKI CECIL KAARY ULLY, III AND PAMELA RAY ENIGHT ULLY	906 906 902
30*16110 P 9-12-30	KATHLEEN O AND STEVEN MONIFOLD RODNEY E. BANE & CATHIE I. BANE	908 35 906 41	671 10*16065 11 8:34-1 672 10*16068 U 9-34-1	8 KATHARWA ANNETTE LILLY LAING AND PREDDIE JOE LAING 8 KATHARWA DAY LILLY	905
30*16149 P 9-12-30	RAYMOND P NEX AND GARDALEE RICCK MARLINE BACER DANIELL ALLEY AND TERESA ALLEY	906 90 906 90 906 93	673 10°16087 U 91441 604 10°16131 U 51441 675 10°15144 U 51441		912 902 906
10*16341 P 9-12-30 10*16343 P 9-12-30	NANNETTE BERLETEN AND MATTHEWS BERLETEN JIL EATHERINE I AND ERNEST M NEVERIO	206 22 305 47	675 10°15144 0 5144 676 10°15145 U 5144 677 10°15141 U 5144	B LARRY LEHAMBERS B NORMA CHRISTINE WHITE AND GERALD WAYNE BLACK	906 905
10*16290 P 9-12-50	CHRISTOPHERSAUDERS JEINNIFER ALLEY USA II INNOIFE AND CHAD IMHOPE	1005 512 1826 59 5025 82.6	678 10*16182 U 5-14-1 679 10*16188 U 5-16-1	FIRST CHRISTIAN CHINCH OF MOUNDSVILLE BY NOGER FRANCIS AND N TRUSTEES ALLEN R L DAVIS AND DIAMA LEE PATTERSON	OBERTALBERT SOL
30*16351 P 9-12-30 10*16366 P 9-12-30	LOLA FRIEVINS STEVIN P NONERTS	905 #30 905 #24	680 10*14215 U 5-14-1 681 10*16245 U 5-14-1	ANGELA LOLDRELD AND KENNETH WOLDRELD BONNESUE PATTERSON SWISHER	206 506
10*16375 # 5-12-30	KAREN LEUCKER AND MICHAEL OZUGUR GEORGER HOLMES AND SUGAN HOLMES DONNA BURNS	105 632 105 635 106 20	682 10*18285 U 9-141 683 10*18485 U 9-14-1 684 10*16447 U 1-14-3		906
10*16410 P 9-12-30	LINDA M HONE AND VAUGHN HONESR SUSAN I BAKER	906 1/ 905 638	685 10*16443 U 9-14-1 686 10*16444 U 5-14-1	B BARBARA BROWN CHAMBERS B CATHERINE ELLEN CHAMBERS	924 124
	DENTILALLEY JIK DENTSE WILLIAMSON RECKY LANDRIS	905 644 936 622 938 625	684 10*16489 U F141	IE DOUGLAS CAND GWENDLIN D KEWTON 13 JOHN CAND BARBARAH WINTER 14 DAVID ALAN WILKINSDH AND PATRICIA LYNN WILKINSON	925 924 924
	JOHM WILLIAMKON JR RACIEL AND PRED THORNE JR	107 27 926 528	681 10*16490 U 8-14-1 681 10*16498 U 8-14-1	A WILLIAM HAND MERSYC COTTON SHELLY YEATER	404 925
10*16508 P 9-12-30	BELA N WELLENRETTER BOOTH C LURACITCH ROBELLA M HORE AND WILLARD L HORR	921 467 326 531 327 I	602 10716311 U 91441 603 10716331 U 91441 604 10716332 U 94441		306 306 306
10*16819 P 9-12-30 10*16541 P 9-12-30	KATHRYN BROWN AND BRUCE O BROWN Deboran L Turley	925 641 335 644	685 10*16593 U 9-14-1 686 10*16534 U 9-14-1	8 SHRLEY ANN BODDS 8 TERRY LEE LASAVAGE	3% 25
10*16605 # 9-12-10	JESSE HOLMCS WILLIAMT AND BARBARA W PAUL LOUISE M AND WILSON D ARCELHWAY	019 253 020 72	694 10*16537 U 5-14-1	8 CHARLES E CAREON AND MARY KAY CARSON 8 KIM D BOWEN AND MADONNA M BOWEN 8 DAMES A WINTER AND CONNIE G WINTER	226 207 224
10*16671 9 9-12-30	WILLIAM DRYAN COLLEY NA TILAN AND KARY COHEMANN	915 12.8 913 40	700 10*16566 U P-14-1 701 10*16370 U 9-14-1	A JANICE C BALE IF ROBERT D BOWEN AND MARCIA MR BOWEN	907 907
20*15737 F 9-12-30	ANNE B AND LOSEPH A MURPHY ARIC A HOLMES AND CARL M HOLMES THE JENNIFER TEACHNOR GAFFEY LIVING TRUST DATED OCTOBER 20TH 2013	190. 22.5 937. 340 936. 634		IL LINDA & MAYER AND MICHAEL WI MINER II INAAOLO C MCFADDEN III HELEN LSCHILLING	907 907 907
10*15765 P 9-12-30 10*16765 P 9-12-30 10*16765 P 9-12-30 10*16818 P 5-12-30	CHARLES C SEAMON JOSHUA WISEAMON BARNDA MIED	930 219 930 223	705 10*16542 U 9-14-1 706 10*16540 U 9-14-1	6 DORA BROCK BRAMMER 8 RONALD JAND JENNIFER CHAMBERS FICCA.	907 904
10*16623 # 9-12-50	BEGGTN KND JAMES EGLASER DALE 8 ALLEY	922 20 923 278 927 19	707 10*16725 11 5-14-1 708 10*16733 0 5-14-1 709 10*16535 0 5-14-1	A SARA/(LOEHOP	204 304 324
10*17172 P 9-12-50	VICTOR E ALLEY IR AND DEBRA A ALLEY. LINDA K AND SACHAEL HUMES JAME'S # M LLEB	926 647 907 33	710 10*16582 U 9-14-1 711 10*16948 U 9-14-1	B JAMES LEROY AND DARLENE DOORS OWENS B FRIDERICE MILEWIDN	224 224
10*17256 P 3-12-50 10*17256 P 3-12-50 10*17275 P 3-12-50	ADHN F KOLMET AND DEBAK A HOLMES GENRE F CORNELIUS / AND JAUNA JANDUSCH CORNELIUS	926 608 927 6 927 36		IS STEVEN R AND BRANNEL LUTT IS JAY E AND CECILIA ELEWTON IS INUSKILL O HERVER	224 324 324
	LORI A FARMER AND DANIEL K FARMER LARRY K CRADE	927 8 927 13	715 10*16953 U 0-14-1 736 10*16965 U 0-14-1	8 DONALD TAND IEAN K HOGAN 8 WILLIAME WRIGHTAND CAROLINA WRIGHT	924 914
10*17477 # 9-12-30	CHRISTINA NESTELLAND CHARLES E NESTELLIN MICHAELSAUDERS AND AMSSAUDERS STACY L BARNHART	927 207 927 39 927 15	717 10*16966 U 5-14-1 718 10*16967 U 5-14-1 719 10*16967 U 5-14-1	A TARA JEANNE MINOR AND JENNIFERA KNAPP	913 914 504
30*17/30 9 5-12-30 20*17/319 9 5-12-30 30*17/520 F 9-12-30	NAREL SECARTHY BRENDA GUBSET	809 512 907 111	719 10*16992 U 0-14-1 721 10*16993 U 0-14-1	8 LINDA CABAANAAA 8 JUUA HOOVER	924 124
10*17665 P 9-12-30	DANIELE WILLIAMSON AND HEATHER R WILLIAMSON ANN MA CURITS STEVENS EATHERINE & DANIEL DEGROOT	907 204 907 215 907 218		8 DIANE LISHE KAMSEY 8. ROBERTA BANE PARKINGON 8. LAURA E TUTTUT AND LONKIL R. TOTTEN	924 924 924
10*17705 # 9-12-30 30*17728 # 3-12-30 20*17709 F 3-12-30	EAN A LYDIA, ARMENTA FRADER E TRIENAAN MECALLAND SUGAN MINICCAIL MARY MINISTRIS	987 700 585 480	725 10*17334 0 2-19-1 726 10*17339 U 3-16-1	a UNITED CHRISTIAN MISSIONARY SOCIETY a AUCE & WEINER AND GERALD S WEINER	92A 925
10*17815 P 9-15-30 30*17815 P 9-12-30	THE TESTANENTARY TRUST OF CAREY B PAUL BE KATHLEEN RELLY MANNIX AND I MICHAEL MANNIX	921 66 919 252 917 128	727 10*17268 11 5414-1 725 10*17289 13 8-14-1 729 10*17259 13 5-34-1	A HARDED & HUNT IR AND EL ZABETH A HUNT	1924 1924 1924
30*17001 P 9-12-30	MARY EJIAMM EBIC D & AMANDA N PETRUCCI	974 552 924 545	780 10*17418 U 9-34-1 781 30*17416 U 9-34-1	8 ROBERT M CHAMBERS AND CHAILEDTTE & CHAMBERS 3 ANDREW MHDDVER AND DHAH R HOOVER	924 短4
20*4/051,818.10 # 3-12-3D	JOSEPH PAUL FOX AND MARGARETH FOX DONNA JUNE STRAFT RICHARD TAYLOR	903 568 904 500 904 504	782 10*17448 8 9-04-1 783 10*17452 8 9-04-1 784 10*17457 8 9-04-1		974 1714 1924
10*47/051 314 15 P 9-12-30	BARDARA I BEVENDIGE DONNA CHMELINSKI BULA F YOST	914 505 904 610	735 10*17503 U 9-34-1 736 10*17504 U 9-34-1	E JANICE LKUMM 5 GREGGALAN MELLER AND BETH ANN MELLER	97.4 92.4
10*47051338.57 F 3-12-30 20*47051338.58 F 3-13-30	CORA AUCEDADRE MICHAEL WAYNE ALLEY AND LINDA AULEY	904 614 904 618 909 642	737 28*17505 U 9-14-1 738 28*17515 U 9-54-1 749 38*17515 U 9-54-1		92A 923 1031
30447051.515.2 P 912-30	LUCY LYNN CHIPLINIAC CHR STALL SCHAFER CHARLES R BENNETT III AND LIONNA'S BENNETT	304 496 904 581 904 300	740 30*37517 U 3-54-1 741 30*37520 U 9-14-1	I JUJO EVRIDUE & DEBRA K TORRES I LUCY P SULLIVAN	973 973
10*47051.318.21 F 8-12-30 10*47051.318.22 F 8-12-30	DORETTA RUSH ELIZABETH STARC	4/2 100 1/2 100	743 10°17555 U 9-24-1 744 10°17559 U 9-24-1	E DEAN E GANRISON 8 AARON AND JANA K MARRY 8 MARVIN JERRY BLAKE AND UNDA DIBLAKE	923 924 922
10*47051 338.74 F 5-12-50	EMAIA CRUWELL CARLA MARALLEY MARIANN'T DARGUSCH AND JONATHON DARGUSCH	908 512 908 516 908 549	745 10*1/560 U 9-24-1 746 10*17988 U 9-14-1	I TREVDE HOOKS I DONALS LWOOD	324 923
10*4708131627 F 9-12-30	VARIAL AMERICANALA			the second se	923 923
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TUNNING	SCHILL OF LIMING, LLG		DESIGNATED AGENT	CT CORPORATION SYSTEM	
	320 SOUTH UNIVERSITY DRIVE, SI	JITE 500	ADDRESS	5400 D BIG TYLER ROAD	

TEN HIGH 1S LEASE UTICA UNIT - 328.13 AC WELL 14HU TUG HILL OPERATING	2.±		Land & Energy Development Solutions from the ground Up. P.D. Box 156 + 12 Vanhem Drive + Olemville, VV 28251 + (204) 462-5634
	No. Lass Rians or Pro. Las. Pastel No. 1011742 U 3-1415 201 750 1011742 U 3-1415 201 751 1011051 U 3-1415 201 752 1011061 U 3-1415 201 754 1011261 U 3-1415 201 755 1011264 U 5-1415 201 756 10112704 U 5-1415 201 759 10112704 U 5-1415 201 750 10112701 U 5-1415 201 761 10112701 U 5-1415 201 762 10112701 U 5-1415 201 763 10117701 U 5-1415 201 770 10117702 U 5-1415 201 771 10117702 U 5-1415 201 772 101177701 U 5-1415	ULA 12 WIGHT ULA 25 KURA 44 MICK 1470 OKUSH 15 OF CHRIST CHURCH DOUPHIN FARSON 1470 OKUSH 15 OK CHRIST CHURCH DOUPHIN FARSON 1470 OKUSH 1470 OKUSH 1470 OKUSH 1470 OKUSH 1470 OKUSH 1470 OKUSH 1470 OKUSH 1470 OKUSH 1	Uped MusA/Pres 024 124 024 124 024 124 024 120 924 120 924 120 924 120 924 120 925 440 925 142 924 120 924 120 925 142 925 142 925 400 925 505 925 404 925 402 925 402 925 402 925 402 925 402 925 423 925 424 925 424 925 423 925 424 925 424 925 424 925 424 925 424 926 524 926 <td< th=""></td<>
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51-01966



July 18, 2017

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

RE: Ten High 1S-14HU

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 21/9 and 21/11 in the area reflected on the Ten High 1S-14HU 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 at 304-376-0111 or by email at <u>amiller@tug-hillop.com</u>.

Sincerely,

Amy L. Miller Permit Specialist – Appalachia

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WV Department of Environmental Protection

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

Date of Notice Certification	n: 06/21/2017
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API No. 47- 051	- O191010
Operator's Well No	. Ten High 1S-14HU
Well Pad Name:	Ten High

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State:	West Virginia	TTE CALLED BO	Easting:	527,311.49		
County:	Marshall	UTM NAD 83	Northing:	4,406,355.98		
District:	Meade	Public Road Acc	ess:	Shepherd Ridge Lane (Co. Rt. 21/9)		
Quadrangle:	Gien Easton 7.5	Generally used f	arm name:	LAWRENCE & SHIRLEY CONKLE, ESTS		
Watershed-	(HUC 10) Fish Creek			The second se		

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article article have been completed by the applicant.

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY	OOG OFFICE USE ONLY
□ 1. NOTICE OF SEISMIC ACTIVITY OF ■ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/ NOT REQUIRED
$\blacksquare~$ 2. Notice of entry for plat survey of $\square~$ No plat survey was conducted	RECEIVED
□ 3. NOTICE OF INTENT TO DRILL or ■ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	RECEIVED/ NOT REQUIRED
WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
4. NOTICE OF PLANNED OPERATION	RECEIVED
5. PUBLIC NOTICE	RECEIVED
6. NOTICE OF APPLICATION	

Required Attachments:

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

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WV Department of Environmental Protection WW-6AC (1/12)

Certification of Notice is hereby given:

THEREFORE, I Amy L. Miller (Inter 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 Blvd, Southepointe Plaza II, Suite 200		
By:	Amy Miller			Canonsburg, PA 15317		
Its:	Permit Specialist - Appalachia		Facsimile:	724-338-2030		
Telephone:	724-749-8388		Email:	amiller@tug-hillop.com		
Ci My Co	NWEALTHAGE STEWINSYLVANIA NOTARIAL SEAL Jennifer Lupi, Notary Public Isli Twp., Washington County mmiasion Expires March 12, 2018 EINSTLVANIA ASSOCIATION OF NOTARIES	_	ibed and swo	provide the providence of the second se		

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 <u>depprivacyofficer@wv.gov</u>.

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WV Department of Environmental Protection

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: <u>3/28/2018</u> Date Permit Application Filed: <u>4/3/2018</u>

Notice	of:
--------	-----

\checkmark	PERMIT FOR ANY	CERTIFICATE OF APPROVAL FOR THE
	WELL WORK	CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

 PERSONAL
 Image: Registered service
 Image: Method of Delivery that requires a receipt or signature confirmation

 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:

SURF A	ACE OWNER(s)
Name:	Estate of Lawrence & Shirley Mae Conkle c/o Roy Conkle
Address:	75 Arlington Avenue
	Moundsville, WV 26041
Name:	Roy A. Conkle, Sr., and Lorie A.
Address:	75 Arlington Avenue
	Moundsville, WV 26041 *See Attached*
SURF A	ACE OWNER(s) (Road and/or Other Disturbance)
Name:	Robert G. Hubbs and Scarlett E. Otte
Address:	132 Shepherds Ridge Lane
	Glen Easton, WV 26039
Name:	
Address:	
	ACE OWNER(s) (Impoundments or Pits)
Name: N	lone
Address:	

DOAL.	OWNER OR LESSEE
	Murray Energy Corporation
Address:	46226 National Road
	St. Clairsville, OH 43950
COAL	OPERATOR
Name: S	ame as above coal owner
Address:	
SURFA	CE OWNER OF WATER WELL
AND/OR	WATER PURVEYOR(s)
Name: *	See supplement page 1A attached
Address:	
OPERA	TOR OF ANY NATURAL GAS STORAGE FIELD
Name: N	one
Address:	

*Please attach additional forms if necessary

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9 2018 APR

API NO. 47-051 - 01966 OPERATOR WELL NO. Ten High 1S-14HU Well Pad Name: Ten High

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 fime 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/oiland-gas/pages/default.aspx.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred lifty 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



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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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WV Department of Environmental Protection

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

API NO. 47-051 - 01956 OPERATOR WELL NO. Ten High 1S-14HU Well Pad Name: Ten High

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-

<u>Permits/Pages/default.aspx</u> 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.

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MAI Donertment of

Notice is hereby given by:

elephone: 724-749-8388	
mail: amiller@tug-hillop.com	anystuller

Address: 380 Southepointe Blvd, Southpointe 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 <u>depprivacyofficer@wv.gov</u>.

COMMONWEALTH OF PENNSYLVANIA NOTARIAL SEAL MAUREEN A STEAD Notary Public CECIL TWP, WASHINGTON COUNTY My Commission Expires Jan 28, 2019

Subscribed and sworn before me th	nis 3	day of	APRIL	2018
Manneen A St	ead		N	otary Public
My Commission Expires		1/281	19	

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WV Department of Environmental Protection

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Exhibit WW-6A

Tug Hill Operating, LLC 380 Southpointe Blvd, Suite 200 Cannonsburg, PA 15137

Residences within Two-Thousand Feet (2,000')

Well:Ten High 1S – 14HUDistrict:Meade (House #'s 1-3)State:WV

There are three (3) residences, no businesses, no churches, no schools or no emergency facilities within two-thousand feet (2,000') of the above referenced well location.

House 1	House 2	House 3
TM 7 Pcl. 24	TM 7 Pcl. 25	TM 7 Pcl. 25
Lawrence & Shirley Conkle Ests	Thomas R. & Kimberly Whitfield	Thomas R. & Kimberly Whitfield
Phone: 304-845-1808; 304-848-1808	Phone: 304-843-1753	Phone: 304-843-1753
Physical Address:	Physical Address:	Physical Address:
77B Shepards Lane	53 Sallys Backbone Rd.	53 Sallys Backbone Rd.
932 Shepherd Ridge Ln.	1834 Sally's Backbone Rd.	1838 Sally's Backbone Rd.
Glen Easton, WV 26039	Glen Easton, WV 26039	Glen Easton, WV 26039
Tax Address:	Tax Address:	Tax Address:
75 Arlington Ave.	1838 Sallys Backbone Rd.	Same
Moundsville, WV 26041	Glen Easton, WV 26039	

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WV Department of Environmental Protection

Operator Well Nos. TEN HIGH 1S-14HU

WW-6A Notice of Application Attachment 1 of 1

Surface Owner(s):

.

Name:Teresa Anne Hughes and Michael J.Address:252 Conkle DriveGlen Easton, WV 26039

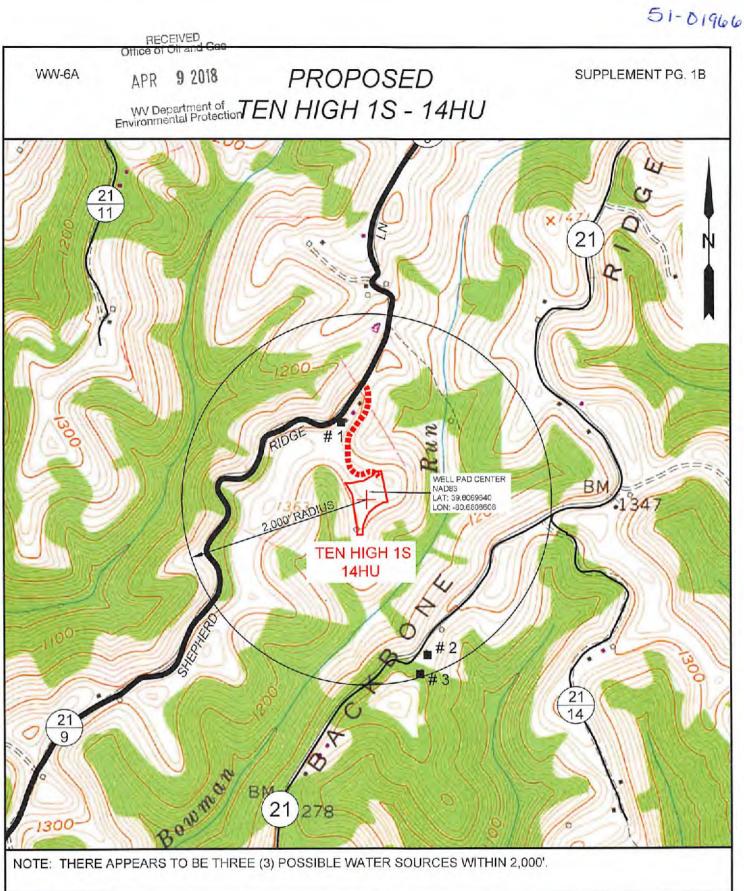
Brenda Joyce Whetzel 1863 Shepherds Ridge Lane Glen Easton, WV 26039

Larry Lee Conkle and Donna D. 154 Conkle Drive Glen Easton, WV 26039

> RECEIVED Office of Oil and Gas

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WA/ Department of Environmental Historion



Land & Energy Development	TOPO SECTION: GLEN EASTON 7.5'		OPERATOR: PREPARED FOR: TUG HILL OPERATING, LLC		TUG HUL	
						COUNTY
	MARSHALL	MEADE	OPERATING			
	Solutions from the ground up.	DRAWN BY	JOB NO.	DATE	SCALE	
P.O. Box 150 • 12 Vanham Drive • Glenvilla, WV 26351 • (304) 462-55 www.sissurveys.com	K.G.M.	8655	08-14-17	1" - 1000'	07/20/20	

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

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry Date of Notice: December 9, 2016 Date of Planned Entry: December 20, 2016

Delivery method pursuant to West Virginia Code § 22-6A-10a

PERSONAL	REGISTERED	1	METHOD OF DELIVERY THAT REQUIRES A
SERVICE	MAIL		RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a). Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that 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, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

Notice is	hereby provided to:	RECEIVED Office of Oil and Gas
SUR SUR	FACE OWNER(S) ESTATE OF LAWRENCE & SHIRLEY MAE CONKLE do Roy Donkie	COAL OWNER OR LESSEE Name: MURRAY ENERGY CORPORATION APR 9 2018
Address:	75 ARLINGTON AVENUE	Address: 46225 NATIONAL ROAD
	MOUNDSVILLE, WV 26041	Address: 46225 NATIONAL ROAD WV Department of ST. CLAIRSVILLE, OH 43950 WV Departmental Protection
Name:	ROY A CONKLE, SR.	
Address:	75 ARLINGTON AVENUE	MINERAL OWNER(s)
	MOUNDSVILLE, WV 26041	Name: ESTATE OF LAWRENCE & SHIRLEY MAE CONKLE NO Ray Conkie
Name:	LARRY CONKLE	Address: 75 ARLINGTON AVENUE
Address:	154 CONKLE DRIVE	MOUNDSVILLE, WV 26041 **SEE ATTACHED**
	GLEN EASTON, WV 26039 **SEE ATTACHED**	*please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State:	WEST VIRGINIA	Approx. Latitude & Longitude:	LAT 39.8067775 LONG -80.6809192
County:	MARSHALL	Public Road Access:	SHEPHERD RIDGE LANE (Co. RT. 21/9)
District:	MEADE	Watershed:	HUC-10 FISH CREEK
Quadrangle:	GLEN EASTON 7.5'	Generally used farm name:	LAWRENCE CONKLE, SR.
and the second sec			

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 57th 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 hereby given by:

Well Operator:	TUG HILL OPERATING, LLC	Address:	380 SOUTHPOINTE BLVD., SOUTHPOINTE PLAZA II, SUITE 200
Telephone:	(724) 749-8388		CANONSBURG, PA15317
Email: j	white@tug-hillop.com	Facsimile:	(724) 388-2030

Oil and Gas Privacy Notice:

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

Operator Well No. TEN HIGH 1S-14HU

WW-6A3 Notice of Entry for Plat Survey Attachment 1 of 1

Surface Owner(s):

Name: Teresa Hughes Address: 252 Conkle Drive Glen Easton, WV 26039

> Brenda Joyce Wetzel RD 1, Box 79 Glen Easton, WV 26039

Surface Owner(s) Access Road:

Name: Robert G. Hubbs and Scarlett E. Otte 132 Sheperd Ridge Lane Glen Easton, WV 26039

Mineral Owner(s):

Name: Roy A. Conkle, Sr. 75 Arlington Avenue Moundsville, WV 26041

> Larry Conkle 154 Conkle Drive Glen Easton, WV 26039

> Teresa Hughes 252 Conkle Drive Glen Easton, WV 26039

Brenda Joyce Wetzel RD 1, Box 79 Glen Easton, WV 26039

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WV Department of Environmental Protection

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF PLANNED OPERATION</u>

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.Date of Notice:08/14/2017Date Permit Application Filed:08/18/2017

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

CERTIFIED MAIL	HAN
RETURN RECEIPT REOUESTED	DEL

HAND DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name: Roy A. Conkle, Sr., and Lorie A.
Address: 75 Arlington Avenue
Moundsville, WV 26041 **See Attached**

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	West Virginia	LITY CALAD 02	Easting:	527.311.49
County:	Marshall	- UTM NAD 83	Northing:	4,406,355.98
District:	Meade	Public Road Acc	cess:	Shepherd Ridge Lane (Co. Rt. 21/9)
Quadrangle:	Glen Easton 7.5'	Generally used f	farm name:	LAWRENCE & SHIRLEY CONKLE, ESTS
Watershed:	(HUC 10) Fish Creek	Electrony		

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. 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 <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

Well Operator:	Tug Hill Operating, LLC	Address:	380 Southpointe Blvd, Southepointe Plaza II, Suite 200	_
Telephone:	724-749-8388		Canonsburg, PA 15317	
Email:	amiller@tug-hillop.com	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 <u>depprivacyofficer@wv.gov</u>.

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WV Department of Environmental 1079/20/2018

Operator Well Nos. TEN HIGH 1S-14HU

WW-6A5 Notice of Planned Operation Attachment 1 of 1

Surface Owner(s):

Name:Teresa Anne Hughes and Michael J.Address:252 Conkle DriveGlen Easton, WV 26039

Brenda Joyce Whetzel 1863 Shepherds Ridge Lane Glen Easton, WV 26039

Larry Lee Conkle and Donna D. 154 Conkle Drive Glen Easton, WV 26039

Robert G. Hubbs and Scarlett E. Otte 132 Shepherds Ridge Lane Glen Easton, WV 26039

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WV Department 2018 Environmental Protection

51-0191010



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways 1900 Kanawha Boulevard East • Building Five • Room 110

Charleston, West Virginia 25305-0430 • (304) 558-3505

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

May 16, 2017

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

Subject: DOH Permit for the Ten High 1N Pad, Marshall County Ten High 1S Unit-14HU Well site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2017-0127 which has been issued to Tug Hill Operating, LLC for access to the State Road for a well site located off of Marshall County Route 21/9 SLS.

The operator has signed a STATEWIDE 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,

any K. Clayton

Gary K. Clayton, P.E. Regional Maintenance Engineer Central Office O&G Coordinator



Cc: Jonathan White Tug Hill Operating, LLC CH, OM, D-6 File





PLANNED ADDITIVES TO BE USED IN FRACTURING OR STIMULATION

Well No. Ten High 1S-1	4HU		
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 sizes)	Proppant	Crystalline silica (quartz) CAS# 14808-60-7
S-8C, Sand	Silica Sand (100 mesh)	Sand	Silica – CAS# 14808-60-7
GW-3LDF		Gellant - Water	Petroleum Distillate Blend – Proprietary, (Not Associated with Diesel Fuel) Guar gum – CAS# 009000-30-0
FRW-18		Friction Reducer	Hydrotreated light distillate CAS# 064742-47-8
Scaletrol		Scale Inhibitor	Ethylene glycol – CAS# 000107-21-1 Diethylene glycol – CAS# 000111-46-6



380 SOUTHPOINTE BLVD · SUITE 200 · CANONSBURG, PA 15317 · T 724.485-2000 · F 724.39.20018