



west virginia department of environmental protection

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

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

Tuesday, October 22, 2019
WELL WORK PERMIT
Horizontal 6A / New Drill

TUG HILL OPERATING, LLC
380 SOUTHPOINTE BLVD

CANONSBURG, PA 15317

Re: Permit approval for KEITH STERN N-14HU
47-051-02252-00-00

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

A blue ink signature of James A. Martin, written in a cursive style, is placed over the name and title of the Chief.

Operator's Well Number: KEITH STERN N-14HU
Farm Name: TH EXPLORATION LLC
U.S. WELL NUMBER: 47-051-02252-00-00
Horizontal 6A New Drill
Date Issued: 10/22/2019

PERMIT CONDITIONS

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

CONDITIONS

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

PERMIT CONDITIONS

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



west virginia department of environmental protection

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

Barry K. Lay, Chairman
dep.wv.gov

September 17, 2019

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

RE: Application for Deep Well Permit – API #47-051-02252

COMPANY: Tug Hill Operating, LLC

FARM: TH Exploration, LLC Keith Stern N-14HU

COUNTY: Marshall DISTRICT: Meade QUAD: Glen Easton

The deep well review of the application for the above company is Approved to drill to Trenton for Point Pleasant completion.

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
3. Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of all deep wells: **yes; Docket 285-281 Exception Location Hearing
4. Provided a plat showing that the proposed location is a distance of 400 feet from the nearest lease line or unit boundary with the exception of the toe which is 10 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,

A handwritten signature in blue ink that reads "Susan Rose".

Susan Rose
Administrator

****Ten High 1S-14HU 47-051-01966; Heaven Hill 3-6HU 47-051-01968; Heaven Hill 3-7HU 47-051-01969; Heaven Hill 3-8HU 47-051-01967; Heaven Hill 3N-10HU 47-051-02016; Heaven Hill 2-6HU 47-051-01910; Heaven Hill 2-7HU 47-051-01911; Heaven Hill 2-8HU 47-051-01912; Heaven Hill 2W-12HU 47-051-01952; Heaven Hill 2W-13HU 47-051-01957; Keith Stern N-15HU 47-051-02241; Keith Stern N-16HU 47-051-02242; Keith Stern S-19HU 47-051-02244; Keith Stern S-18HU 47-051-02243; OE Burge U MSH 501H 47-051-01853**

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: Keith Stern N-14HU Well Pad Name: Keith Stern

3) Farm Name/Surface Owner: TH Exploration, LLC Public Road Access: Fish Creek Road (County Route 74)

4) Elevation, current ground: 741.50' Elevation, proposed post-construction: 744.65'

5) Well Type (a) Gas Oil Underground Storage
Other

(b) If Gas Shallow Deep
Horizontal

JS
6/19/19

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):

Point Pleasant is the target formation at a depth of 11,109' - 11,231' - thickness of 122' and anticipated pressure of approx. 9500 psi.

8) Proposed Total Vertical Depth: 11,381'

9) Formation at Total Vertical Depth: Trenton

10) Proposed Total Measured Depth: 18,819'

11) Proposed Horizontal Leg Length: 6,743.37'

12) Approximate Fresh Water Strata Depths: 70' ; 390'

13) Method to Determine Fresh Water Depths: Offset well reports or noticeable flow at the flowline or when need to start soaping

14) Approximate Saltwater Depths: 1,740'

15) Approximate Coal Seam Depths: Sewickley Coal - 304' ; Pittsburgh Coal - 397'

16) Approximate Depth to Possible Void (coal mine, karst, other): none

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes No

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(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

WV Department of
Environmental Protection

WW-6B
(04/15)

4705-02252
API NO. 47- 051
OPERATOR WELL NO. Keith Stern N-14HU
Well Pad Name: Keith Stern

18)

CASING AND TUBING PROGRAM

TYPE	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
Conductor	30"	NEW	BW	BW	120'	120'	259FT^3(CTS)
Fresh Water	20"	NEW	J55	106.5#	490'	490'	846 FT^3(CTS)
Coal	13 3/8"	NEW	J55	54.5#	2203'	2203'	1,559FT^3(CTS)
Intermediate	9 5/8"	NEW	HPP110	47#	10,400'	10,400'	3,366FT^3(CTS)
Production	5 1/2"	NEW	P110	23#	18,819'	18,819'	4,488FT^3(CTS)
Tubing	2 7/8"	NEW	P110	6.5#		10,711'	
Liners							

ju
6/19/19

TYPE	<u>Size (in)</u>	<u>Wellbore Diameter (in)</u>	<u>Wall Thickness (in)</u>	<u>Burst Pressure (psi)</u>	<u>Anticipated Max. Internal Pressure (psi)</u>	<u>Cement Type</u>	<u>Cement Yield (cu. ft./k)</u>
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"			11,385	11,624		
Liners							

PACKERS

Kind:	N/A			RECEIVED Office of Oil and Gas
Sizes:	N/A			JUN 24 2019
Depths Set:	N/A			WV Department of Environmental Protection

WW-6B
(10/14)

4705302252
API NO. 47-051

OPERATOR WELL NO. Keith Stern N-14HU

Well Pad Name: Keith Stern

JS
6/19/19

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

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

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

Well to be completed with approximately 16,855,000 lb proppant and 260,591 bbl of water. Max rate = 80 bpm; max psi = 12,000#.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 10.35 acres

22) Area to be disturbed for well pad only, less access road (acres): 4.32 acres

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

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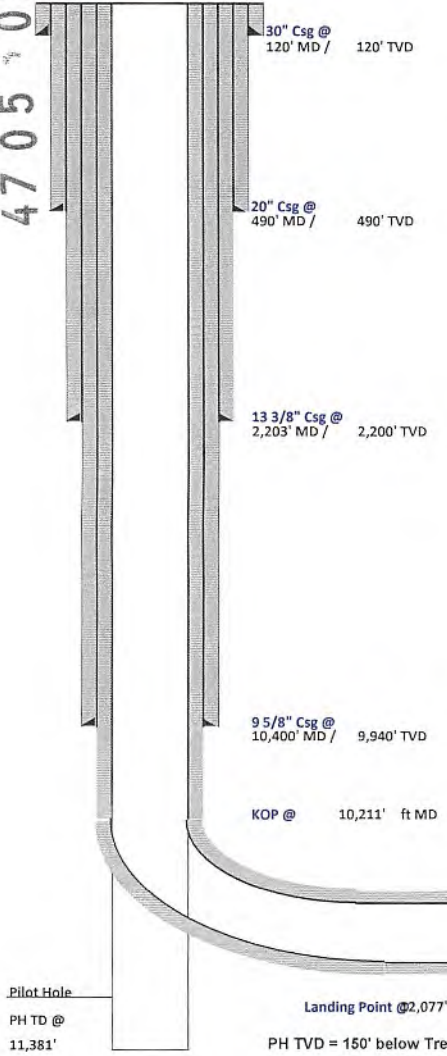
*Note: Attach additional sheets as needed.

4705-02252



WELL NAME: Keith Stern N-14HU
STATE: WV **COUNTY:** Marshall
DISTRICT: Meade
DF Elev: 744' **GL Elev:** 744'
TD: 18,819'
TH Latitude: 39.77479655
TH Longitude: -80.69218531
BH Latitude: 39.78873
BH Longitude: -80.702444

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FORMATION TOPS	
Formation	Depth TVD
Deepest Fresh Water	390'
Sewickley Coal	304'
Pittsburgh Coal	397'
Big Lime	1,611'
Berea	2,116'
Tully	6,137'
Marcellus	6,242'
Onondaga	6,293'
Salina	7,018'
Lockport	8,071'
Utica	10,828'
Point Pleasant	11,109'
Landing Depth	11,164'
Trenton	11,231'
Pilot Hole TD	11,381'

CASING SUMMARY							
Type	Hole Size (in)	Csg Size (in)	Depth (MD)	Depth (TVD)	Weight (lb/ft)	Grade	Top of Cement
Conductor	36	30	120'	120'	BW	BW	Surface
Surface	26	20	490'	490'	106.5	J55	Surface
Intermediate 1	17 1/2	13 3/8	2,203'	2,200'	54.5	J55	Surface
Intermediate 2	12 1/4	9 5/8	10,400'	9,940'	47	HPP110	Surface
Production	8 1/2	5 1/2	18,819'	11,047'	23	HCP110	Surface

CEMENT SUMMARY			DRILLING DETAILS		
	Sacks	Class	Density	Fluid Type	Centralizer Notes
Conductor	338	A	15.6	Air	None
Surface	908	A	15.6	Air	3 Centralizers at equal distance
Intermediate 1	1,690	A	15	Air	1 Centralizer every other jt
Intermediate 2	2,875	A	14.5	Air	1 Centralizer every other jt
Production	3,937	A	15	Air / SOB M	1 every other joint in lateral; 1 per joint in curve; 1 every other jt to sfc

Handwritten signature and date: 5/20/19

Pilot Hole
 PH TD @ 11,381'
 Landing Point @ 2,077' MD / 11,164' TVD
 PH TVD = 150' below Trenton Top

Lateral TD @ 18,819' ft MD
 11,047' ft TVD



Tug Hill Operating, LLC Casing and Cement Program

Keith Stern N-14HU

Casing

	String	Grade	Bit Size	Depth (Measured)	Cement Fill Up
Conductor	30"	BW	36"	120'	CTS
Surface	20"	J55	26"	490'	CTS
Intermediate 1	13 3/8"	J55	17 1/2"	2,203'	CTS
Intermediate 2	9 5/8"	HPP110	12 1/4"	10,400'	CTS
Production	5 1/2"	HCP110	8 1/2"	18,819'	CTS

Cement

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

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

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

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

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Well Site Safety Plan

Tug Hill Operating, LLC

Handwritten signature and date: 5/20/19

Well Name: Keith Stern N-14HU

Pad Location: Keith Stern

Marshall County, West Virginia

UTM (meters), NAD83, Zone 17:

NORTHING -4,402,807.63

EASTING -526,361.11

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Well: Keith Stern N-14 HU (slot D)
Site: Keith Stern
Project: Marshall County, West Virginia.
Design: rev2

Geodetic System: Universal Transverse Mercator (US Survey Feet)
 Datum: NAD83 West Virginia - HARN
 Ellipsoid: GRS 1960
 Zone: Zone 17N (84 W to 78 W)

System Datum: Mean Sea Level
 Depth Reference: GL @ 744.00usft
 Northing 14444878.03
 Easting 1726903.06
 Latitude 39.77479655
 Longitude -80.69218531

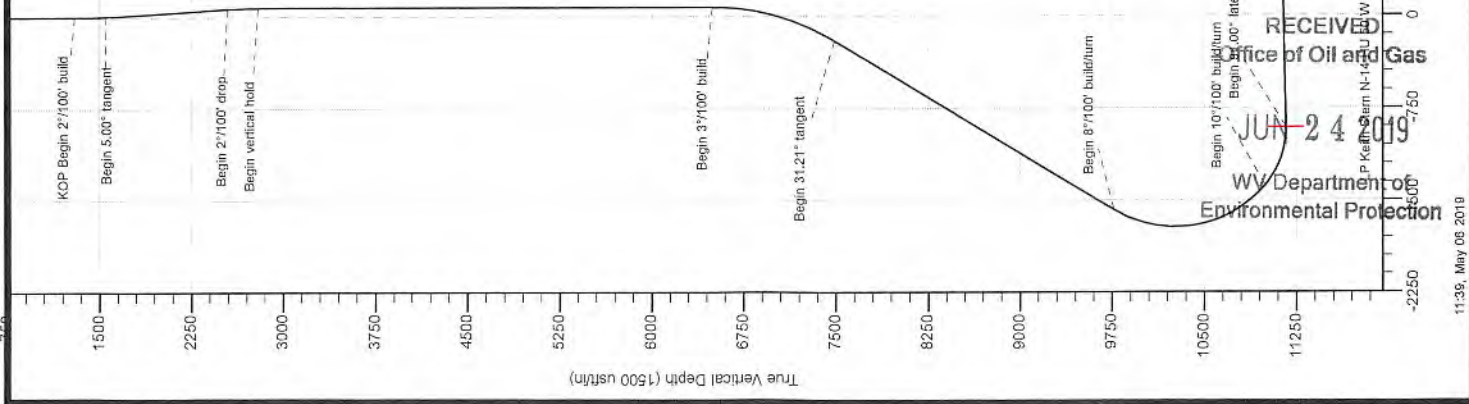
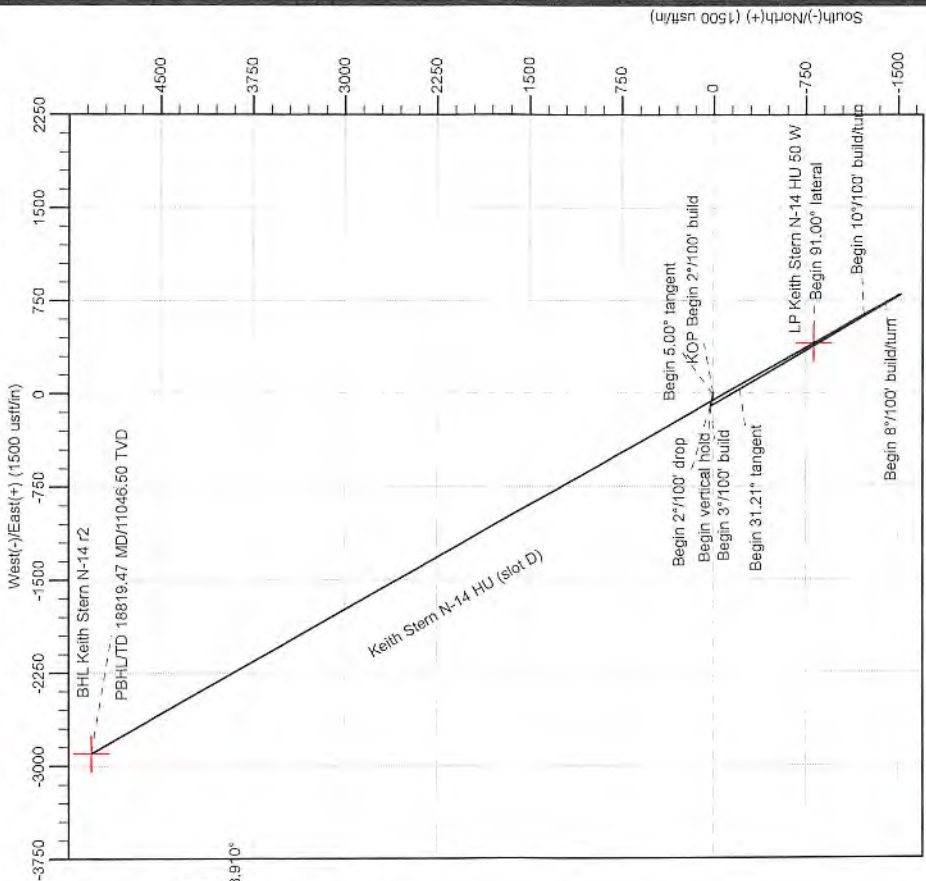
Total Corr (M->G): To convert a Magnetic Direction to a Grid Direction, Subtract 8.91°



Azimuths to Grid North
 True North: -0.20°
 Magnetic North: -8.91°
 Magnetic Field Strength: 52102.25nT
 Dip Angle: 66.90°
 Date: 1/18/2018
 Model: IGRF2015

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N+S	+E+W	Dleg	TFace	VSec	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	
2	1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.000	0.00	KOP Begin 2°/100' build
3	1550.00	5.00	285.00	1549.68	2.82	-10.53	2.00	285.000	7.68	Begin 5.00° tangent
4	2350.00	5.00	285.00	2545.89	25.38	-94.72	2.00	285.000	89.09	Begin 2°/100' drop
5	2800.00	0.00	285.00	2795.56	28.20	-105.25	2.00	180.000	76.77	Begin vertical hold
6	6504.44	0.00	285.00	6500.00	28.20	-105.25	2.00	285.000	76.77	Begin 3°/100' build
7	7544.86	31.21	149.92	7489.72	-211.03	33.29	3.00	149.925	-199.68	Begin 31.21° tangent
8	10211.37	31.21	149.92	9770.26	-1406.82	725.78	0.00	0.000	-581.49	Begin 8°/100' build/turn
9	11564.85	50.00	331.03	10996.54	-1225.30	634.64	6.00	-179.143	-1378.68	Begin 10°/100' build/turn
10	12077.35	91.00	330.66	11164.00	-812.45	404.09	8.00	-0.568	-905.85	Begin 91.00° lateral
11	18819.47	91.00	330.66	11046.50	5063.81	-2899.24	0.00	0.000	6835.05	PBHLTD 18819.47 MD/11046.50 TVD



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Planning Report - Geographic

Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Keith Stern N-14 HU (slot D)
Company:	Tug Hill Operating LLC	TVD Reference:	GL @ 744.00usft
Project:	Marshall County, West Virginia.	MD Reference:	GL @ 744.00usft
Site:	Keith Stern	North Reference:	Grid
Well:	Keith Stern N-14 HU (slot D)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev2		

Project	Marshall County, West Virginia.		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD83 West Virginia - HARN		
Map Zone:	Zone 17N (84 W to 78 W)		

Site	Keith Stern				
Site Position:		Northing:	14,444,890.33 usft	Latitude:	39.77483004
From:	Lat/Long	Easting:	1,726,932.47 usft	Longitude:	-80.69208048
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.197 °

Well	Keith Stern N-14 HU (slot D)					
Well Position	+N/-S	0.00 usft	Northing:	14,444,878.03 usft	Latitude:	39.77479655
	+E/-W	0.00 usft	Easting:	1,726,903.06 usft	Longitude:	-80.69218531
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	744.00 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/18/2018	-8.713	66.896	52,102.18475048

Design	rev2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	330.21

Plan Survey Tool Program	Date	5/6/2019		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	18,819.47 rev2 (Original Hole)	MWD	
			MWD - Standard	

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Company:	Tug Hill Operating LLC	TVD Reference:	GL @ 744.00usft
Project:	Marshall County, West Virginia.	MD Reference:	GL @ 744.00usft
Site:	Keith Stern	North Reference:	Grid
Well:	Keith Stern N-14 HU (slot D)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev2		

Plan Sections										
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	0.000	
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,550.00	5.00	285.00	1,549.68	2.82	-10.53	2.00	2.00	0.00	285.000	
2,550.00	5.00	285.00	2,545.88	25.38	-94.72	0.00	0.00	0.00	0.000	
2,800.00	0.00	285.00	2,795.56	28.20	-105.25	2.00	-2.00	0.00	180.000	
6,504.44	0.00	285.00	6,500.00	28.20	-105.25	0.00	0.00	0.00	285.000	
7,544.86	31.21	149.92	7,489.72	-211.03	33.29	3.00	3.00	0.00	149.925	
10,211.37	31.21	149.92	9,770.26	-1,406.82	725.78	0.00	0.00	0.00	0.000	
11,564.85	50.00	331.03	10,996.54	-1,225.30	634.64	6.00	1.39	-13.22	-179.143	
12,077.35	91.00	330.66	11,164.00	-812.45	404.09	8.00	8.00	-0.07	-0.568	
18,819.47	91.00	330.66	11,046.50	5,063.81	-2,899.24	0.00	0.00	0.00	0.000	BHL Keith Stern N-14

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Planning Report - Geographic

Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Keith Stern N-14 HU (slot D)
Company:	Tug Hill Operating LLC	TVD Reference:	GL @ 744.00usft
Project:	Marshall County, West Virginia.	MD Reference:	GL @ 744.00usft
Site:	Keith Stern	North Reference:	Grid
Well:	Keith Stern N-14 HU (slot D)	Survey Calculation Method:	Minimum Curvature
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	
0.00	0.00	0.00	0.00	0.00	0.00	14,444,878.03	1,726,903.06	39.77479655	-80.69218531	
100.00	0.00	0.00	100.00	0.00	0.00	14,444,878.03	1,726,903.06	39.77479655	-80.69218531	
200.00	0.00	0.00	200.00	0.00	0.00	14,444,878.03	1,726,903.06	39.77479655	-80.69218531	
300.00	0.00	0.00	300.00	0.00	0.00	14,444,878.03	1,726,903.06	39.77479655	-80.69218531	
400.00	0.00	0.00	400.00	0.00	0.00	14,444,878.03	1,726,903.06	39.77479655	-80.69218531	
500.00	0.00	0.00	500.00	0.00	0.00	14,444,878.03	1,726,903.06	39.77479655	-80.69218531	
600.00	0.00	0.00	600.00	0.00	0.00	14,444,878.03	1,726,903.06	39.77479655	-80.69218531	
700.00	0.00	0.00	700.00	0.00	0.00	14,444,878.03	1,726,903.06	39.77479655	-80.69218531	
800.00	0.00	0.00	800.00	0.00	0.00	14,444,878.03	1,726,903.06	39.77479655	-80.69218531	
900.00	0.00	0.00	900.00	0.00	0.00	14,444,878.03	1,726,903.06	39.77479655	-80.69218531	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	14,444,878.03	1,726,903.06	39.77479655	-80.69218531	
1,100.00	0.00	0.00	1,100.00	0.00	0.00	14,444,878.03	1,726,903.06	39.77479655	-80.69218531	
1,200.00	0.00	0.00	1,200.00	0.00	0.00	14,444,878.03	1,726,903.06	39.77479655	-80.69218531	
1,300.00	0.00	0.00	1,300.00	0.00	0.00	14,444,878.03	1,726,903.06	39.77479655	-80.69218531	
KOP Begin 2°/100' build										
1,400.00	2.00	285.00	1,399.98	0.45	-1.69	14,444,878.48	1,726,901.37	39.77479781	-80.69219130	
1,500.00	4.00	285.00	1,499.84	1.81	-6.74	14,444,879.84	1,726,896.32	39.77480158	-80.69220928	
1,550.00	5.00	285.00	1,549.68	2.82	-10.53	14,444,880.85	1,726,892.53	39.77480440	-80.69222275	
Begin 5.00° tangent										
1,600.00	5.00	285.00	1,599.49	3.95	-14.74	14,444,881.98	1,726,888.32	39.77480754	-80.69223772	
1,700.00	5.00	285.00	1,699.11	6.21	-23.16	14,444,884.24	1,726,879.90	39.77481381	-80.69226765	
1,800.00	5.00	285.00	1,798.73	8.46	-31.58	14,444,886.49	1,726,871.48	39.77482009	-80.69229759	
1,900.00	5.00	285.00	1,898.35	10.72	-40.00	14,444,888.75	1,726,863.06	39.77482636	-80.69232752	
2,000.00	5.00	285.00	1,997.97	12.97	-48.41	14,444,891.00	1,726,854.64	39.77483263	-80.69235746	
2,100.00	5.00	285.00	2,097.59	15.23	-56.83	14,444,893.26	1,726,846.23	39.77483891	-80.69238739	
2,200.00	5.00	285.00	2,197.21	17.48	-65.25	14,444,895.51	1,726,837.81	39.77484518	-80.69241733	
2,300.00	5.00	285.00	2,296.83	19.74	-73.67	14,444,897.77	1,726,829.39	39.77485146	-80.69244726	
2,400.00	5.00	285.00	2,396.45	22.00	-82.09	14,444,900.03	1,726,820.97	39.77485773	-80.69247720	
2,500.00	5.00	285.00	2,496.07	24.25	-90.51	14,444,902.28	1,726,812.55	39.77486401	-80.69250713	
2,550.00	5.00	285.00	2,545.88	25.38	-94.72	14,444,903.41	1,726,808.34	39.77486714	-80.69252210	
Begin 2°/100' drop										
2,600.00	4.00	285.00	2,595.72	26.39	-98.51	14,444,904.42	1,726,804.55	39.77486997	-80.69253557	
2,700.00	2.00	285.00	2,695.58	27.75	-103.56	14,444,905.78	1,726,799.50	39.77487373	-80.69255355	
2,800.00	0.00	285.00	2,795.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
Begin vertical hold										
2,900.00	0.00	0.00	2,895.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
3,000.00	0.00	0.00	2,995.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
3,100.00	0.00	0.00	3,095.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
3,200.00	0.00	0.00	3,195.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
3,300.00	0.00	0.00	3,295.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
3,400.00	0.00	0.00	3,395.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
3,500.00	0.00	0.00	3,495.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
3,600.00	0.00	0.00	3,595.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
3,700.00	0.00	0.00	3,695.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
3,800.00	0.00	0.00	3,795.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
3,900.00	0.00	0.00	3,895.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
4,000.00	0.00	0.00	3,995.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
4,100.00	0.00	0.00	4,095.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
4,200.00	0.00	0.00	4,195.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
4,300.00	0.00	0.00	4,295.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
4,400.00	0.00	0.00	4,395.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
4,500.00	0.00	0.00	4,495.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
4,600.00	0.00	0.00	4,595.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
4,700.00	0.00	0.00	4,695.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	

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Planning Report - Geographic

Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Keith Stern N-14 HU (slot D)
Company:	Tug Hill Operating LLC	TVD Reference:	GL @ 744.00usft
Project:	Marshall County, West Virginia.	MD Reference:	GL @ 744.00usft
Site:	Keith Stern	North Reference:	Grid
Well:	Keith Stern N-14 HU (slot D)	Survey Calculation Method:	Minimum Curvature
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	
4,800.00	0.00	0.00	4,795.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
4,900.00	0.00	0.00	4,895.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
5,000.00	0.00	0.00	4,995.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
5,100.00	0.00	0.00	5,095.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
5,200.00	0.00	0.00	5,195.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
5,300.00	0.00	0.00	5,295.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
5,400.00	0.00	0.00	5,395.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
5,500.00	0.00	0.00	5,495.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
5,600.00	0.00	0.00	5,595.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
5,700.00	0.00	0.00	5,695.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
5,800.00	0.00	0.00	5,795.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
5,900.00	0.00	0.00	5,895.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
6,000.00	0.00	0.00	5,995.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
6,100.00	0.00	0.00	6,095.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
6,200.00	0.00	0.00	6,195.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
6,300.00	0.00	0.00	6,295.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
6,400.00	0.00	0.00	6,395.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
6,500.00	0.00	0.00	6,495.56	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
6,504.44	0.00	0.00	6,500.00	28.20	-105.25	14,444,906.23	1,726,797.81	39.77487499	-80.69255954	
Begin 3°/100' build										
6,600.00	2.87	149.92	6,595.52	26.13	-104.05	14,444,904.16	1,726,799.01	39.77486930	-80.69255530	
6,700.00	5.87	149.92	6,695.22	19.54	-100.23	14,444,897.57	1,726,802.83	39.77485117	-80.69254181	
6,800.00	8.87	149.92	6,794.38	8.45	-93.81	14,444,886.48	1,726,809.25	39.77482064	-80.69251908	
6,900.00	11.87	149.92	6,892.74	-7.12	-84.79	14,444,870.91	1,726,818.27	39.77477780	-80.69248717	
7,000.00	14.87	149.92	6,990.02	-27.12	-73.21	14,444,850.91	1,726,829.85	39.77472275	-80.69244619	
7,100.00	17.87	149.92	7,085.96	-51.51	-59.09	14,444,826.52	1,726,843.97	39.77465566	-80.69239623	
7,200.00	20.87	149.92	7,180.29	-80.20	-42.47	14,444,797.83	1,726,860.59	39.77457670	-80.69233745	
7,300.00	23.87	149.92	7,272.75	-113.13	-23.40	14,444,764.90	1,726,879.66	39.77448610	-80.69226998	
7,400.00	26.87	149.92	7,363.10	-150.20	-1.94	14,444,727.83	1,726,901.12	39.77438409	-80.69219404	
7,500.00	29.87	149.92	7,451.08	-191.31	21.87	14,444,686.72	1,726,924.93	39.77427097	-80.69210981	
7,544.86	31.21	149.92	7,489.72	-211.03	33.29	14,444,667.00	1,726,936.35	39.77421669	-80.69206940	
Begin 31.21° tangent										
7,600.00	31.21	149.92	7,536.88	-235.76	47.61	14,444,642.27	1,726,950.67	39.77414865	-80.69201873	
7,700.00	31.21	149.92	7,622.40	-280.60	73.58	14,444,597.43	1,726,976.64	39.77402525	-80.69192686	
7,800.00	31.21	149.92	7,707.93	-325.45	99.55	14,444,552.58	1,727,002.61	39.77390185	-80.69183498	
7,900.00	31.21	149.92	7,793.45	-370.29	125.52	14,444,507.74	1,727,028.58	39.77377845	-80.69174310	
8,000.00	31.21	149.92	7,878.98	-415.14	151.49	14,444,462.89	1,727,054.55	39.77365504	-80.69165122	
8,100.00	31.21	149.92	7,964.50	-459.98	177.46	14,444,418.05	1,727,080.52	39.77353164	-80.69155935	
8,200.00	31.21	149.92	8,050.03	-504.83	203.43	14,444,373.20	1,727,106.49	39.77340824	-80.69146747	
8,300.00	31.21	149.92	8,135.55	-549.67	229.40	14,444,328.36	1,727,132.46	39.77328484	-80.69137560	
8,400.00	31.21	149.92	8,221.08	-594.52	255.37	14,444,283.51	1,727,158.43	39.77316144	-80.69128372	
8,500.00	31.21	149.92	8,306.60	-639.36	281.34	14,444,238.67	1,727,184.40	39.77303804	-80.69119184	
8,600.00	31.21	149.92	8,392.13	-684.21	307.31	14,444,193.83	1,727,210.37	39.77291464	-80.69109997	
8,700.00	31.21	149.92	8,477.65	-729.05	333.28	14,444,148.98	1,727,236.34	39.77279124	-80.69100809	
8,800.00	31.21	149.92	8,563.18	-773.89	359.25	14,444,104.14	1,727,262.31	39.77266784	-80.69091622	
8,900.00	31.21	149.92	8,648.70	-818.74	385.22	14,444,059.29	1,727,288.28	39.77254444	-80.69082435	
9,000.00	31.21	149.92	8,734.23	-863.58	411.19	14,444,014.45	1,727,314.25	39.77242104	-80.69073247	
9,100.00	31.21	149.92	8,819.75	-908.43	437.16	14,443,969.60	1,727,340.22	39.77229763	-80.69064060	
9,200.00	31.21	149.92	8,905.28	-953.27	463.13	14,443,924.76	1,727,366.19	39.77217423	-80.69054873	
9,300.00	31.21	149.92	8,990.80	-998.12	489.10	14,443,879.91	1,727,392.16	39.77205083	-80.69045685	
9,400.00	31.21	149.92	9,076.33	-1,042.96	515.07	14,443,835.07	1,727,418.13	39.77192743	-80.69036498	
9,500.00	31.21	149.92	9,161.85	-1,087.81	541.04	14,443,790.22	1,727,444.10	39.77180403	-80.69027311	
9,600.00	31.21	149.92	9,247.38	-1,132.65	567.01	14,443,745.38	1,727,470.07	39.77168063	-80.69018124	
9,700.00	31.21	149.92	9,332.90	-1,177.50	592.98	14,443,700.53	1,727,496.04	39.77155722	-80.69008937	

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Planning Report - Geographic

Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Keith Stern N-14 HU (slot D)
Company:	Tug Hill Operating LLC	TVD Reference:	GL @ 744.00usft
Project:	Marshall County, West Virginia.	MD Reference:	GL @ 744.00usft
Site:	Keith Stern	North Reference:	Grid
Well:	Keith Stern N-14 HU (slot D)	Survey Calculation Method:	Minimum Curvature
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	
9,800.00	31.21	149.92	9,418.43	-1,222.34	618.95	14,443,655.69	1,727,522.01	39.77143382	-80.68999750	
9,900.00	31.21	149.92	9,503.95	-1,267.19	644.92	14,443,610.85	1,727,547.98	39.77131042	-80.68990562	
10,000.00	31.21	149.92	9,589.48	-1,312.03	670.89	14,443,566.00	1,727,573.95	39.77118702	-80.68981375	
10,100.00	31.21	149.92	9,675.00	-1,356.87	696.86	14,443,521.16	1,727,599.91	39.77106362	-80.68972188	
10,200.00	31.21	149.92	9,760.53	-1,401.72	722.83	14,443,476.31	1,727,625.88	39.77094021	-80.68963001	
10,211.37	31.21	149.92	9,770.25	-1,406.82	725.78	14,443,471.21	1,727,628.84	39.77092618	-80.68961957	
Begin 8°/100' build/turn										
10,300.00	25.90	149.74	9,848.07	-1,443.43	747.06	14,443,434.60	1,727,650.11	39.77082542	-80.68954430	
10,400.00	19.90	149.43	9,940.15	-1,476.98	766.73	14,443,401.05	1,727,669.79	39.77073311	-80.68947469	
10,500.00	13.90	148.86	10,035.79	-1,501.93	781.61	14,443,376.10	1,727,684.67	39.77066444	-80.68942205	
10,600.00	7.90	147.46	10,133.94	-1,518.02	791.53	14,443,360.01	1,727,694.59	39.77062015	-80.68938695	
10,700.00	1.94	137.46	10,233.53	-1,525.08	796.38	14,443,352.95	1,727,699.44	39.77060074	-80.68936978	
10,800.00	4.13	336.82	10,333.46	-1,523.01	796.11	14,443,355.02	1,727,699.16	39.77060641	-80.68937072	
10,900.00	10.12	333.15	10,432.65	-1,511.86	790.71	14,443,366.18	1,727,693.77	39.77063710	-80.68938977	
11,000.00	16.11	332.19	10,529.99	-1,491.73	780.26	14,443,386.30	1,727,683.32	39.77069249	-80.68942671	
11,100.00	22.11	331.75	10,624.44	-1,462.85	764.87	14,443,415.19	1,727,667.93	39.77077195	-80.68948115	
11,200.00	28.11	331.49	10,714.94	-1,425.53	744.70	14,443,452.50	1,727,647.75	39.77087462	-80.68955248	
11,300.00	34.11	331.31	10,800.52	-1,380.19	719.97	14,443,497.84	1,727,623.03	39.77099937	-80.68963992	
11,400.00	40.11	331.18	10,880.23	-1,327.32	690.96	14,443,550.71	1,727,594.01	39.77114484	-80.68974252	
11,500.00	46.11	331.08	10,953.20	-1,267.50	657.98	14,443,610.53	1,727,561.03	39.77130944	-80.68985915	
11,564.85	50.00	331.03	10,996.54	-1,225.30	634.64	14,443,652.73	1,727,537.70	39.77142555	-80.68994169	
Begin 10°/100' build/turn										
11,600.00	52.81	331.00	11,018.47	-1,201.27	621.33	14,443,676.76	1,727,524.38	39.77149167	-80.68998877	
11,700.00	60.81	330.91	11,073.16	-1,128.17	580.72	14,443,749.86	1,727,483.78	39.77169281	-80.69013238	
11,800.00	68.81	330.83	11,115.69	-1,049.19	536.71	14,443,828.84	1,727,439.76	39.77191013	-80.69028805	
11,900.00	76.81	330.77	11,145.21	-965.86	490.14	14,443,912.17	1,727,393.19	39.77213940	-80.69045277	
12,000.00	84.81	330.70	11,161.17	-879.81	441.92	14,443,998.22	1,727,344.98	39.77237617	-80.69062331	
12,077.35	91.00	330.66	11,164.00	-812.45	404.09	14,444,065.58	1,727,307.14	39.77256153	-80.69075713	
Begin 91.00° lateral										
12,100.00	91.00	330.66	11,163.60	-792.71	392.99	14,444,085.32	1,727,296.05	39.77261585	-80.69079638	
12,200.00	91.00	330.66	11,161.86	-705.55	343.99	14,444,172.48	1,727,247.05	39.77285567	-80.69096968	
12,300.00	91.00	330.66	11,160.12	-618.39	295.00	14,444,259.64	1,727,198.06	39.77309549	-80.69114298	
12,400.00	91.00	330.66	11,158.37	-531.24	246.00	14,444,346.79	1,727,149.06	39.77333531	-80.69131629	
12,500.00	91.00	330.66	11,156.63	-444.08	197.01	14,444,433.95	1,727,100.07	39.77357513	-80.69148959	
12,600.00	91.00	330.66	11,154.89	-356.92	148.01	14,444,521.11	1,727,051.07	39.77381496	-80.69166290	
12,700.00	91.00	330.66	11,153.15	-269.76	99.02	14,444,608.27	1,727,002.07	39.77405478	-80.69183621	
12,800.00	91.00	330.66	11,151.40	-182.61	50.02	14,444,695.42	1,726,953.08	39.77429460	-80.69200952	
12,900.00	91.00	330.66	11,149.66	-95.45	1.03	14,444,782.58	1,726,904.08	39.77453442	-80.69218283	
13,000.00	91.00	330.66	11,147.92	-8.29	-47.97	14,444,869.74	1,726,855.09	39.77477423	-80.69235614	
13,100.00	91.00	330.66	11,146.17	78.87	-96.96	14,444,956.90	1,726,806.09	39.77501405	-80.69252945	
13,200.00	91.00	330.66	11,144.43	166.02	-145.96	14,445,044.05	1,726,757.10	39.77525387	-80.69270276	
13,300.00	91.00	330.66	11,142.69	253.18	-194.96	14,445,131.21	1,726,708.10	39.77549369	-80.69287608	
13,400.00	91.00	330.66	11,140.95	340.34	-243.95	14,445,218.37	1,726,659.11	39.77573351	-80.69304939	
13,500.00	91.00	330.66	11,139.20	427.50	-292.95	14,445,305.53	1,726,610.11	39.77597333	-80.69322271	
13,600.00	91.00	330.66	11,137.46	514.65	-341.94	14,445,392.68	1,726,561.12	39.77621315	-80.69339603	
13,700.00	91.00	330.66	11,135.72	601.81	-390.94	14,445,479.84	1,726,512.12	39.77645296	-80.69356935	
13,800.00	91.00	330.66	11,133.98	688.97	-439.93	14,445,567.00	1,726,463.13	39.77669278	-80.69374267	
13,900.00	91.00	330.66	11,132.23	776.13	-488.93	14,445,654.16	1,726,414.13	39.77693260	-80.69391599	
14,000.00	91.00	330.66	11,130.49	863.28	-537.92	14,445,741.31	1,726,365.14	39.77717241	-80.69408931	
14,100.00	91.00	330.66	11,128.75	950.44	-586.92	14,445,828.47	1,726,316.14	39.77741223	-80.69426264	
14,200.00	91.00	330.66	11,127.00	1,037.60	-635.91	14,445,915.63	1,726,267.14	39.77765205	-80.69443596	
14,300.00	91.00	330.66	11,125.26	1,124.76	-684.91	14,446,002.79	1,726,218.15	39.77789186	-80.69460929	
14,400.00	91.00	330.66	11,123.52	1,211.91	-733.90	14,446,089.94	1,726,169.15	39.77813168	-80.69478262	
14,500.00	91.00	330.66	11,121.78	1,299.07	-782.90	14,446,177.10	1,726,120.16	39.77837150	-80.69495595	

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Planning Report - Geographic

Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Keith Stern N-14 HU (slot D)
Company:	Tug Hill Operating LLC	TVD Reference:	GL @ 744.00usft
Project:	Marshall County, West Virginia.	MD Reference:	GL @ 744.00usft
Site:	Keith Stern	North Reference:	Grid
Well:	Keith Stern N-14 HU (slot D)	Survey Calculation Method:	Minimum Curvature
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	
14,600.00	91.00	330.66	11,120.03	1,386.23	-831.89	14,446,264.26	1,726,071.16	39.77861131	-80.69512928	
14,700.00	91.00	330.66	11,118.29	1,473.39	-880.89	14,446,351.42	1,726,022.17	39.77885112	-80.69530261	
14,800.00	91.00	330.66	11,116.55	1,560.54	-929.89	14,446,438.57	1,725,973.17	39.77909094	-80.69547594	
14,900.00	91.00	330.66	11,114.81	1,647.70	-978.88	14,446,525.73	1,725,924.18	39.77933075	-80.69564928	
15,000.00	91.00	330.66	11,113.06	1,734.86	-1,027.88	14,446,612.89	1,725,875.18	39.77957057	-80.69582261	
15,100.00	91.00	330.66	11,111.32	1,822.02	-1,076.87	14,446,700.05	1,725,826.19	39.77981038	-80.69599595	
15,200.00	91.00	330.66	11,109.58	1,909.17	-1,125.87	14,446,787.20	1,725,777.19	39.78005020	-80.69616929	
15,300.00	91.00	330.66	11,107.83	1,996.33	-1,174.86	14,446,874.36	1,725,728.20	39.78029001	-80.69634263	
15,400.00	91.00	330.66	11,106.09	2,083.49	-1,223.86	14,446,961.52	1,725,679.20	39.78052982	-80.69651597	
15,500.00	91.00	330.66	11,104.35	2,170.64	-1,272.85	14,447,048.68	1,725,630.21	39.78076963	-80.69668931	
15,600.00	91.00	330.66	11,102.61	2,257.80	-1,321.85	14,447,135.83	1,725,581.21	39.78100945	-80.69686265	
15,700.00	91.00	330.66	11,100.86	2,344.96	-1,370.84	14,447,222.99	1,725,532.21	39.78124926	-80.69703599	
15,800.00	91.00	330.66	11,099.12	2,432.12	-1,419.84	14,447,310.15	1,725,483.22	39.78148907	-80.69720934	
15,900.00	91.00	330.66	11,097.38	2,519.27	-1,468.83	14,447,397.31	1,725,434.22	39.78172888	-80.69738268	
16,000.00	91.00	330.66	11,095.64	2,606.43	-1,517.83	14,447,484.46	1,725,385.23	39.78196869	-80.69755603	
16,100.00	91.00	330.66	11,093.89	2,693.59	-1,566.82	14,447,571.62	1,725,336.23	39.78220851	-80.69772938	
16,200.00	91.00	330.66	11,092.15	2,780.75	-1,615.82	14,447,658.78	1,725,287.24	39.78244832	-80.69790273	
16,300.00	91.00	330.66	11,090.41	2,867.90	-1,664.82	14,447,745.93	1,725,238.24	39.78268813	-80.69807608	
16,400.00	91.00	330.66	11,088.66	2,955.06	-1,713.81	14,447,833.09	1,725,189.25	39.78292794	-80.69824943	
16,500.00	91.00	330.66	11,086.92	3,042.22	-1,762.81	14,447,920.25	1,725,140.25	39.78316775	-80.69842279	
16,600.00	91.00	330.66	11,085.18	3,129.38	-1,811.80	14,448,007.41	1,725,091.26	39.78340756	-80.69859614	
16,700.00	91.00	330.66	11,083.44	3,216.53	-1,860.80	14,448,094.56	1,725,042.26	39.78364737	-80.69876950	
16,800.00	91.00	330.66	11,081.69	3,303.69	-1,909.79	14,448,181.72	1,724,993.27	39.78388718	-80.69894285	
16,900.00	91.00	330.66	11,079.95	3,390.85	-1,958.79	14,448,268.88	1,724,944.27	39.78412699	-80.69911621	
17,000.00	91.00	330.66	11,078.21	3,478.01	-2,007.78	14,448,356.04	1,724,895.28	39.78436679	-80.69928957	
17,100.00	91.00	330.66	11,076.47	3,565.16	-2,056.78	14,448,443.19	1,724,846.28	39.78460660	-80.69946293	
17,200.00	91.00	330.66	11,074.72	3,652.32	-2,105.77	14,448,530.35	1,724,797.28	39.78484641	-80.69963629	
17,300.00	91.00	330.66	11,072.98	3,739.48	-2,154.77	14,448,617.51	1,724,748.29	39.78508622	-80.69980965	
17,400.00	91.00	330.66	11,071.24	3,826.64	-2,203.76	14,448,704.67	1,724,699.29	39.78532603	-80.69998302	
17,500.00	91.00	330.66	11,069.49	3,913.79	-2,252.76	14,448,791.82	1,724,650.30	39.78556584	-80.70015638	
17,600.00	91.00	330.66	11,067.75	4,000.95	-2,301.75	14,448,878.98	1,724,601.30	39.78580564	-80.70032975	
17,700.00	91.00	330.66	11,066.01	4,088.11	-2,350.75	14,448,966.14	1,724,552.31	39.78604545	-80.70050312	
17,800.00	91.00	330.66	11,064.27	4,175.27	-2,399.75	14,449,053.30	1,724,503.31	39.78628526	-80.70067649	
17,900.00	91.00	330.66	11,062.52	4,262.42	-2,448.74	14,449,140.45	1,724,454.32	39.78652506	-80.70084986	
18,000.00	91.00	330.66	11,060.78	4,349.58	-2,497.74	14,449,227.61	1,724,405.32	39.78676487	-80.70102323	
18,100.00	91.00	330.66	11,059.04	4,436.74	-2,546.73	14,449,314.77	1,724,356.33	39.78700467	-80.70119660	
18,200.00	91.00	330.66	11,057.30	4,523.90	-2,595.73	14,449,401.93	1,724,307.33	39.78724448	-80.70136997	
18,300.00	91.00	330.66	11,055.55	4,611.05	-2,644.72	14,449,489.08	1,724,258.34	39.78748429	-80.70154335	
18,400.00	91.00	330.66	11,053.81	4,698.21	-2,693.72	14,449,576.24	1,724,209.34	39.78772409	-80.70171672	
18,500.00	91.00	330.66	11,052.07	4,785.37	-2,742.71	14,449,663.40	1,724,160.35	39.78796390	-80.70189010	
18,600.00	91.00	330.66	11,050.33	4,872.53	-2,791.71	14,449,750.56	1,724,111.35	39.78820370	-80.70206348	
18,700.00	91.00	330.66	11,048.58	4,959.68	-2,840.70	14,449,837.71	1,724,062.35	39.78844350	-80.70223686	
18,800.00	91.00	330.66	11,046.84	5,046.84	-2,889.70	14,449,924.87	1,724,013.36	39.78868331	-80.70241024	
18,819.47	91.00	330.66	11,046.50	5,063.81	-2,899.24	14,449,941.84	1,724,003.82	39.78873000	-80.70244400	

PBHL/TD 18819.47 MD/11046.50 TVD

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Planning Report - Geographic

Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Keith Stern N-14 HU (slot D)
Company:	Tug Hill Operating LLC	TVD Reference:	GL @ 744.00usft
Project:	Marshall County, West Virginia.	MD Reference:	GL @ 744.00usft
Site:	Keith Stern	North Reference:	Grid
Well:	Keith Stern N-14 HU (slot D)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev2		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
BHL Keith Stern N-14 r2 - plan hits target center - Point	0.00	0.00	11,046.50	5,063.81	-2,899.24	14,449,941.84	1,724,003.82	39.78873000	-80.70244400
LP Keith Stern N-14 HU - plan misses target center by 0.01usft at 12077.34usft MD (11164.00 TVD, -812.46 N, 404.09 E) - Point	0.00	0.00	11,164.00	-812.45	404.10	14,444,065.58	1,727,307.16	39.77256153	-80.69075708

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
1,300.00	1,300.00	0.00	0.00	KOP Begin 2°/100' build
1,550.00	1,549.68	2.82	-10.53	Begin 5.00° tangent
2,550.00	2,545.88	25.38	-94.72	Begin 2°/100' drop
2,800.00	2,795.56	28.20	-105.25	Begin vertical hold
6,504.44	6,500.00	28.20	-105.25	Begin 3°/100' build
7,544.86	7,489.72	-211.03	33.29	Begin 31.21° tangent
10,211.37	9,770.25	-1,406.82	725.78	Begin 8°/100' build/turn
11,564.85	10,996.54	-1,225.30	634.64	Begin 10°/100' build/turn
12,077.35	11,164.00	-812.45	404.09	Begin 91.00° lateral
18,819.47	11,046.50	5,063.81	-2,899.24	PBHL/TD 18819.47 MD/11046.50 TVD

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WW-9
(4/16)

API Number 47 - 051 - _____
Operator's Well No. Keith Stern N-14HU

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Tug Hill Operating, LLC OP Code 494510851

Watershed (HUC 10) Fish Creek Quadrangle Glen Easton 7.5'

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: AST Tanks with proper containment will be used for staging fresh water for frac and flow back water

Will a synthetic liner be used in the pit? Yes No If so, what ml.? AST Tanks will be used with proper containment

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number UIC 2459, UIC 965, UIC 359, UIC 2D0732540, UIC 2D0732523)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Will closed loop system be used? If so, describe: Yes - For Vertical and Horizontal Drilling

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air for vertical / Oil for Horizontal

-If oil based, what type? Synthetic, petroleum, etc. Synthetic Oil Base

Additives to be used in drilling medium? Barite for weight

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. All drill cuttings to be disposed of in a Landfill

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-Landfill or offsite name/permit number? Wetzel County Sanitary Landfill (SWF-1021 / WV0109185) and Westmoreland Sanitary Landfill, LLC (SAN1405 / PA DEP EC#1386426)

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto 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 or imprisonment.

OFFICE OF OIL AND GAS

Company Official Signature *Jim Pancake*

Company Official (Typed Name) Jim Pancake

Company Official Title Vice President Geoscience

JAN 14 2019

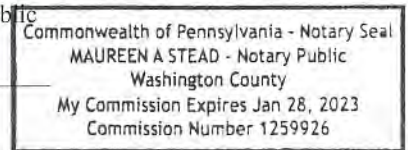
Department of Environmental Protection

Subscribed and sworn before me this 29 day of MAY, 2019

Maureen A Stead

Notary Public

My commission expires 1/28/23



Tug Hill Operating, LLC

Proposed Revegetation Treatment: Acres Disturbed 19.18 Prevegetation pH 6.0

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch 2.5 Tons/acre

Seed Mixtures

Temporary		Permanent	
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 x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *Jim Anderson*
Comments: _____

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Environmental Protection

Title: Oil and Gas Inspector

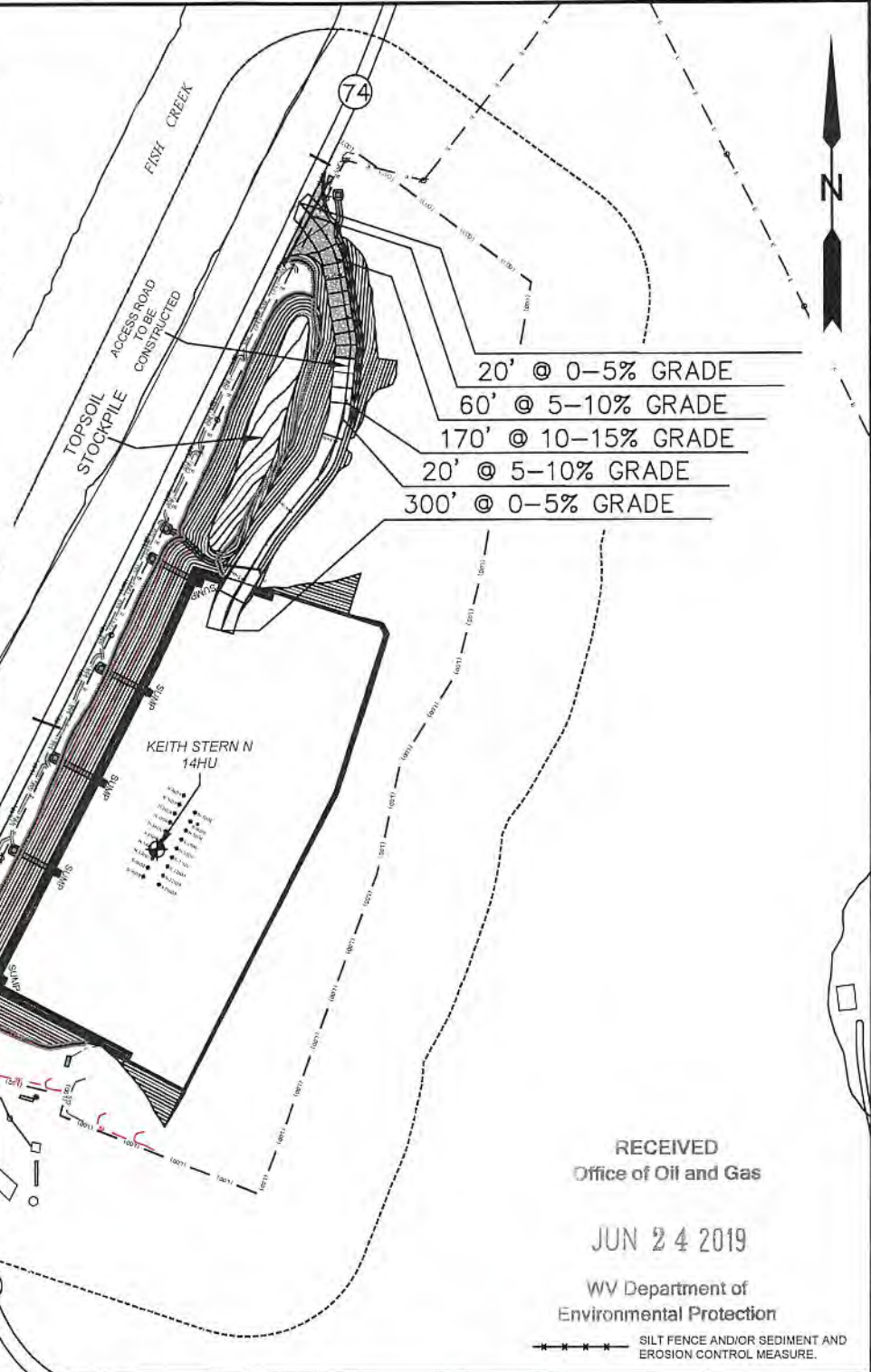
Date: 5/20/19

Field Reviewed? () Yes () No

PROPOSED KEITH STERN N - 14HU

NOTES:

1. -- DENOTES INSTALL 18" PVC CULVERT AND APPLY APPROPRIATE SEDIMENT OUTLET CONTROL (RIP RAP SPLASH PAD)
2. DRAWING NOT TO SCALE
3. REFERENCE IS HEREBY MADE TO THE WV D.E.P. OFFICE OF OIL & GAS, "EROSION AND SEDIMENT CONTROL FIELD MANUAL" FOR REQUIREMENTS AND BMPs FOR AVERAGE FIELD CONDITIONS CONCERNING THE MAINTENANCE OF EXISTING ROADS AND THE CONSTRUCTION OF PROPOSED ROADS. FIELD CONDITIONS MAY REQUIRE VARIANCE FROM THESE GUIDELINES AND THE EARTHWORK CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION TO THE INSPECTOR AND THE OPERATOR SHOULD THESE CONDITIONS OCCUR.
4. INSTALL CULVERTS AS SHOWN ON RECLAMATION PLAN OR AS FIELD CONDITIONS REQUIRE.
5. ENTRANCES ONTO PUBLIC ROADS SHALL BE CONSTRUCTED OR MAINTAINED IN ACCORDANCE WITH WV D.O.T. REGULATIONS. ADDITIONAL PERMITS MAY BE REQUIRED.
6. TEMPORARILY SEED AND MULCH ALL SLOPS UPON CONSTRUCTION OF LOCATION.
7. ALL CUT AND FILL SLOPES ARE 2H : 1V SLOPE.
8. ALL TREES 6-INCHES AND ABOVE ARE TO BE CUT AND STACKED. BRUSH SLASHINGS ARE TO BE UTILIZED DOWN SLOPE OF SITE AND STRUCTURES TO ACT AS A CONTROL BARRIER IF AVAILABLE.
9. SEE KEITH STERN N SITE PLAN PREPARED BY KELLEY SURVEYING. FOR COMPLETE CONSTRUCTION & EROSION AND SEDIMENT CONTROL DETAILS.



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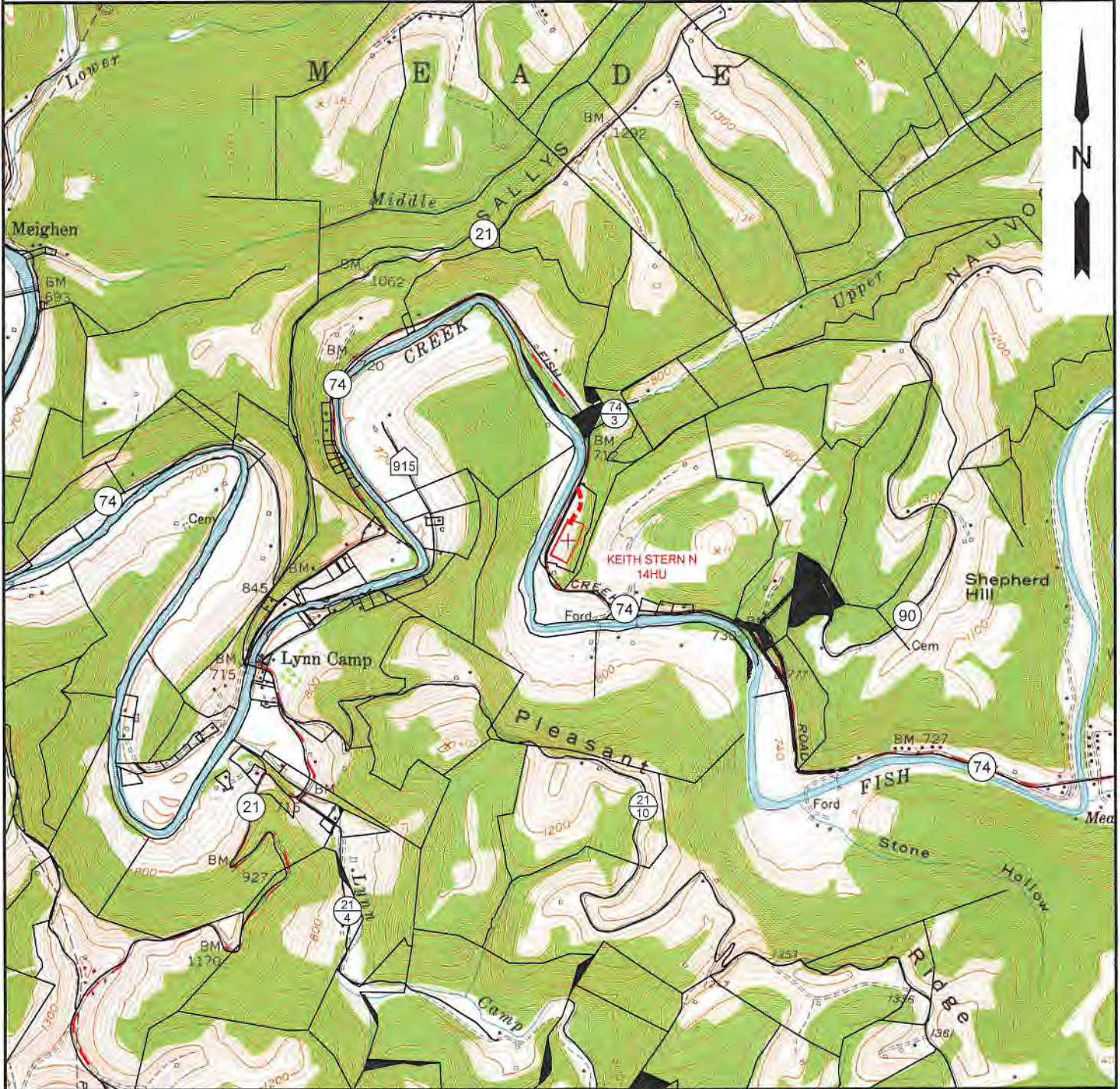
SILT FENCE AND/OR SEDIMENT AND
EROSION CONTROL MEASURE.

SLS
Land & Energy Development
Solutions from the ground up.
P.O. Box 150 #12 Vanhorn Drive • Glenville, WV 26351 • (304) 462-5634
www.slsurveys.com

TOPO SECTION:		OPERATOR:	
GLEN EASTON 7.5'		PREPARED FOR: TUG HILL OPERATING, LLC 380 SOUTHPOINTE BLVD SUITE 200 CANONSBURG, PA 15317	
COUNTY	DISTRICT		
MARSHALL	MEADE		
DRAWN BY	JOB NO.	DATE	SCALE
K.G.M.	8811	05/29/2019	NONE

TUG HILL
OPERATING

PROPOSED KEITH STERN N - 14HU



NOTE: CLOSEST WATER PURVEYOR
GRANDVIEW - DOOLIN PUBLIC SERVICE DISTRICT
PROCTOR, WV

LAT: 39.7137712
LON: -80.8258327
LOCATED: S 60°11'49" W AT 43,719.31' FROM THE CENTER OF KEITH STERN N WELL PAD LOCATION.

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www.slsurveys.com

TOPO SECTION:		OPERATOR:	
GLEN EASTON 7.5'		PREPARED FOR:	
COUNTY	DISTRICT	TUG HILL OPERATING, LLC	
MARSHALL	MEADE	380 SOUTHPOINTE BLVD	
DRAWN BY		SUITE 200	
K.G.M.	JOB NO.	CANONSBURG, PA 15317	
	8811	DATE	SCALE
		05/29/2019	1" = 2000'

JUN 24 2019
TUG HILL
WV Department of
Environmental Protection

**KEITH STERN N LEASE
UTICA UNIT - 452.76 AC±
WELL 14HU
TUG HILL OPERATING**

10,054' B.H.

7,172' T.H.

T.H. LATITUDE 39°47'30"
B.H. LATITUDE 39°47'30"

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD'83 S.P.C.(FT)	N. 466,543.66	E. 1,633,427.68
NAD'83 GEO.	LAT-(N) 39.774797	LONG-(W) 80.692185
NAD'83 UTM (M)	N. 4,402,807.63	E. 526,361.11
<u>LANDING POINT</u>		
NAD'83 S.P.C.(FT)	N. 465,724.3	E. 1,633,818.3
NAD'83 GEO.	LAT-(N) 39.772562	LONG-(W) 80.690757
NAD'83 UTM (M)	N. 4,402,560.0	E. 526,484.3
<u>BOTTOM HOLE</u>		
NAD'83 S.P.C.(FT)	N. 471,656.9	E. 1,630,612.5
NAD'83 GEO.	LAT-(N) 39.788730	LONG-(W) 80.702444
NAD'83 UTM (M)	N. 4,404,351.1	E. 525,477.4

T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°40'00"
1,070' T.H.
6,146' B.H.

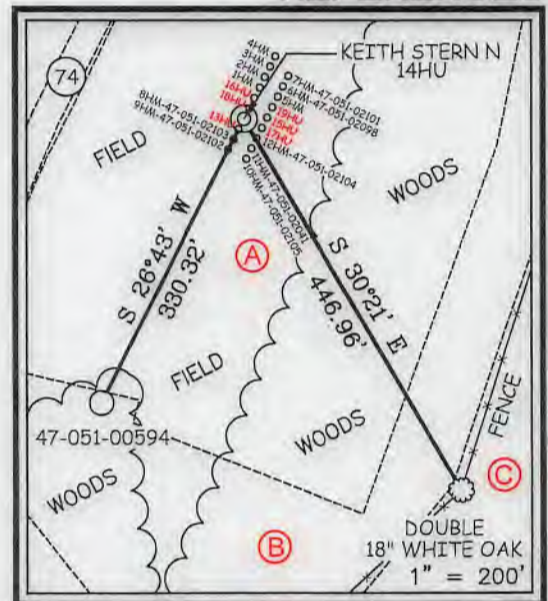
MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-10-12	RAY A. WHETZAL, JR., ET AL.	36.51
9-11-3	RAY A. WHETZAL, JR., ET AL.	33.33
9-13-11.1	SAMUEL & HEATHER SUHODOLSKI	0.49
9-13-14	MARGARET K. FOX - LIFE	3.00
9-14-12	KENNETH N. & TERESA A. SMERTNECK	1.02
9-14-3	MICHAEL L. ALVAREZ	NORTH P/O 3 PCLS
9-14-4	MICHAEL L. ALVAREZ	3 PCLS & 1/8 AC.
9-14-5	MICHAEL L. ALVAREZ	200 X 60 PCL
9-14-6	MICHAEL L. ALVAREZ	120 X 200 PCL
9-14-7	JOHN T. ERAZMUS, III	0.25
9-14-8	JOHNNY C. HOLCOMB & JOHNNY C. HOLCOMB, II	2/5 AC.
9-14-9	JOHN E. DUFFY, ET UX	2/5 AC.
9-14-10	ROBERT L. DUFFY - LIFE	25/100 AC.
9-14-11.1	PATRICK J. SCHELLHASE - TRUST	7.617
9-14-11.2	LOYE A. BLAKE	4.00
9-14-20.2	WILLIAM K. STERN, ET UX	1.525
9-14-26	PATRICK J. SCHELLHASE EST - TRUST	12.588
9-14-27	PATRICK J. SCHELLHASE EST - TRUST	3.004
9-14-28	CHARLES R. SCHELLHASE, ET UX	3.029
9-14-45	GEORGE R. TAYLOR, ET UX	10.98
9-14-46.1	MARHA JANE FAZZARO	1.512
9-15-40.1	ADAM WALTER BARTOSZEWICZ	13.50
9-15-43	PHILLIP L. MCCABE	11.716
9-17-4.1	DAVID M. FRABRIZIO	5.780
9-17-4.4	MARGARET A. TOLER - LIFE	1.318

T.H.

NOTES ON SURVEY

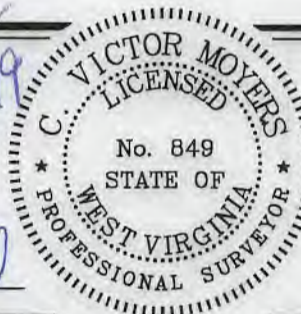
- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE ARE 1"=2000'
- PROPOSED LATERAL OR TOP HOLE OF KEITH STERN N-14HU IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF THE FOLLOWING:
PROPOSED KEITH STERN N-13HU, 15HU & 16HU,
PROPOSED KEITH STERN S-17HU, 18HU & 19HU,
PROPOSED KNOB CREEK N-13HU,
PROPOSED KNOB CREEK S-16HU,
HEAVEN HILL 2W-12HU (47-051-01952),
HEAVEN HILL 2W-13HU (47-051-01957),
HEAVEN HILL 2-6HU (47-051-01910),
HEAVEN HILL 2-7HU (47-051-01911)
& HEAVEN HILL 2-8HU (47-051-01912)

REFERENCES



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 849 *C. Victor Moyers*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE MAY 29, 20 19
REVISED JUNE 10, 2019 & JUNE 17, 2019
OPERATORS WELL NO. KEITH STERN N-14HU
API WELL NO. 47 - 51 - 02252
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8811P14HUR3.dwg
KEITH STERN N-14HU-REV3
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

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

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: GROUND = 739.30' ELEVATION PROPOSED = 744.65' WATERSHED FISH CREEK (HUC 10) DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'

SURFACE OWNER TH EXPLORATION, LLC ACREAGE 10.05±
ROYALTY OWNER TH EXPLORATION, LLC, ET AL - SEE WW-6A1 ACREAGE 10.05±

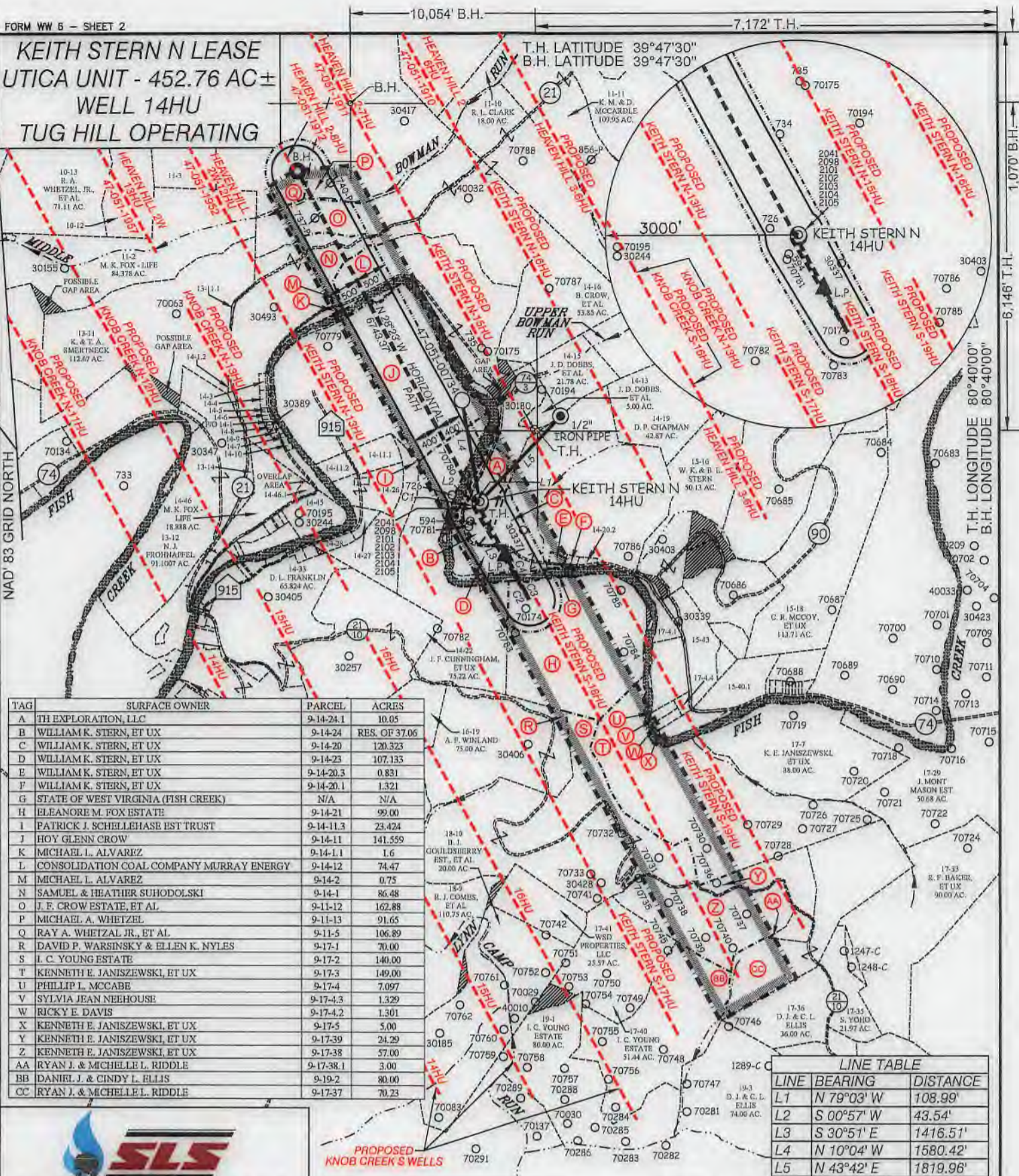
PROPOSED WORK: LEASE NO. SEE WW-6A1
DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION POINT PLEASANT ESTIMATED DEPTH TVD: 11,381' / TMD: 18,819'

WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5400 D BIG TYLER ROAD
FORT WORTH, TX 76107 CHARLESTON, WV 25313

COUNTY NAME PERMIT

**KEITH STERN N LEASE
UTICA UNIT - 452.76 AC±
WELL 14HU
TUG HILL OPERATING**



TAG	SURFACE OWNER	PARCEL	ACRES
A	ITH EXPLORATION, LLC	9-14-24.1	10.05
B	WILLIAM K. STERN, ET UX	9-14-24	RES. OF 37.06
C	WILLIAM K. STERN, ET UX	9-14-20	120.323
D	WILLIAM K. STERN, ET UX	9-14-23	107.133
E	WILLIAM K. STERN, ET UX	9-14-20.3	0.831
F	WILLIAM K. STERN, ET UX	9-14-20.1	1.321
G	STATE OF WEST VIRGINIA (FISH CREEK)	N/A	N/A
H	ELEANORE M. FOX ESTATE	9-14-21	99.00
I	PATRICK J. SCHELLEHASE EST TRUST	9-14-11.3	23.424
J	HOY GLENN CROW	9-14-11	141.559
K	MICHAEL L. ALVAREZ	9-14-1.1	1.6
L	CONSOLIDATION COAL COMPANY MURRAY ENERGY	9-14-12	74.47
M	MICHAEL L. ALVAREZ	9-14-2	0.75
N	SAMUEL & HEATHER SUHODOLSKI	9-14-1	86.48
O	J. F. CROW ESTATE, ET AL	9-11-12	162.88
P	MICHAEL A. WHETZEL	9-11-13	91.65
Q	RAY A. WHETZAL JR., ET AL	9-11-5	106.89
R	DAVID P. WARNSKY & ELLEN K. NYLES	9-17-1	70.00
S	L. C. YOUNG ESTATE	9-17-2	140.00
T	KENNETH E. JANISZEWSKI, ET UX	9-17-3	149.00
U	PHILLIP L. MCCABE	9-17-4	7.097
V	SYLVIA JEAN NEEHOUSE	9-17-4.3	1.329
W	RICKY E. DAVIS	9-17-4.2	1.301
X	KENNETH E. JANISZEWSKI, ET UX	9-17-5	5.00
Y	KENNETH E. JANISZEWSKI, ET UX	9-17-39	24.29
Z	KENNETH E. JANISZEWSKI, ET UX	9-17-38	57.00
AA	RYAN J. & MICHELLE L. RIDDLER	9-17-38.1	3.00
BB	DANIEL J. & CINDY L. ELLIS	9-19-2	80.00
CC	RYAN J. & MICHELLE L. RIDDLER	9-17-37	70.23

LINE	BEARING	DISTANCE
L1	N 79°03' W	108.99'
L2	S 00°57' W	43.54'
L3	S 30°51' E	1416.51'
L4	N 10°04' W	1580.42'
L5	N 43°42' E	1819.96'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	84.12'	164.03'	S 17°59' E	83.20'
C2	227.15'	14242.55'	S 31°05' E	227.15'
C3	229.82'	4998.06'	N 27°35' W	229.80'
C4	556.47'	110908342.44'	N 28°23' W	556.47'

P.O. Box 150 | 52 Vannom Drive | Glenville, WV 26031 | (804) 462-5634
www.slsww.com

P.S. 849 *C. Victor Moyers*

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)			
NAD'83 S.P.C.(FT)	N. 466,543.66	E. 1,633,427.68	
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(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

LEGEND	
UNIT BOUNDARY	—
LEASED TRACTS INSIDE	—
UNIT BOUNDARY	—
SURFACE LINE	—
PROPOSED UTICA	---
WELL LATERAL	---
400' OFFSET LINE	---
500' OFFSET LINE	---
TIE LINE	---
CREEK	—
ROAD	—
COUNTY ROUTE	—
PROPOSED WELL	⊙
EXISTING WELL	⊙
PERMITTED WELL	⊙
SURFACE OWNER (SEE TABLE)	⊙
LEASE # (SEE ADDITIONAL SHEETS)	⊙

SCALE 1" = 2000' FILE NO. 8811P14HUR3.dwg
KEITH STERN N-14HU-REV3
DATE MAY 29 20 19
REVISED JUNE 10, 2019 & JUNE 17, 2019
OPERATORS WELL NO. KEITH STERN N-14HU
API WELL 47
NO. STATE COUNTY PERMIT

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

WELL OPERATOR TUG HILL OPERATING, LLC ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107	DESIGNATED AGENT DIANNA STAMPER ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313
---	--

**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

**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 *Amy Miller*

Its: Permitting Specialist - Appalachia Region

RECEIVED
Office of Oil and Gas
JUN 24 2019
WV Department of
Environmental Protection
Page 1 of _____

**KEITH STERN N LEASE
UTICA UNIT - 452.76 AC±
WELL 14HU
TUG HILL OPERATING**



No.	Lease ID	Tag	Parcel	Grantor, Lessor, Etc.	Deed Book/Page
1	10*15605	A	9-14-24.1	ISAAC CROW ET UX	74 394
2	10*15605	B	9-14-24	ISAAC CROW ET UX	74 394
3	10*15509	C	9-14-20	WILLIAM K STERN AND BETTY L STERN	718 320
4	10*15812	D	9-14-23	WILLIAM K STERN AND BETTY L STERN	687 220
5	10*16436	D	9-14-23	REAGAN D YEATTS AND CHRISTOPHER M YEATTS	961 339
6	10*18269	D	9-14-23	GENELDA MASON	942 460
7	10*18299	D	9-14-23	CAROL L BOBBY AND DONALD J BOBBY	929 281
8	10*18354	D	9-14-23	DEBORAH L TURLEY	931 352
9	10*18355	D	9-14-23	JUDITH F TEMPLE AND LOUIS I TEMPLE	931 350
10	10*18356	D	9-14-23	LARRY W ALLEY	931 348
11	10*18357	D	9-14-23	DEBORAH SUE KYLE	931 346
12	10*18358	D	9-14-23	SHARLA ROLLINS AND GARY ROLLINS	931 358
13	10*18419	D	9-14-23	CARLA MAE ALLEY	932 539
14	10*18420	D	9-14-23	VICTOR E ALLEY JR AND DEBRA A ALLEY	932 582
15	10*18421	D	9-14-23	DONNA JUNE STRAIT AND GARY E STRAIT	932 588
16	10*18429	D	9-14-23	GEORGE L DUNN AND NANCY MARIE DUNN	932 601
17	10*18430	D	9-14-23	JAMES DUNN AND DONNA K DUNN	932 604
18	10*18432	D	9-14-23	ROSEMARIE BERISFORD	932 572
19	10*18484	D	9-14-23	BRENDA REED	933 107
20	10*18485	D	9-14-23	BARBARA JO BEVERIDGE	933 109
21	10*18490	D	9-14-23	STACY L BARNHART	933 123
22	10*18491	D	9-14-23	LORI A FARMER AND DANIEL K FARMER	933 131
23	10*18512	D	9-14-23	CHRISTINA NESTELL AND CHARLES E NESTELL III	933 565
24	10*18515	D	9-14-23	WILLIAM P DAUBE	933 573
25	10*18518	D	9-14-23	SUSAN I BAKER	933 580
26	10*18520	D	9-14-23	CHRISTOPHER SAUDERS	933 584
27	10*18612	D	9-14-23	NANNETTE BERLECH	932 542
28	10*18617	D	9-14-23	SHEILA SIMMONS AND JEFFREY R SIMMONS	934 613
29	10*18644	D	9-14-23	FRANK A STORCH JR AND SUSAN STORCH	936 149
30	10*18645	D	9-14-23	SANDRA SUE HALL AND DAVID HALL	936 155
31	10*18647	D	9-14-23	PETER G STORCH AND LAURIE L STORCH	936 152
32	10*18648	D	9-14-23	LAWRENCE E CHIAPPETTA AND PATRICIA A CHIAPPETTA	936 161
33	10*18649	D	9-14-23	RODNEY K BANE AND CATHIE J BANE	936 164
34	10*18652	D	9-14-23	BECKY LANDRIS	936 172
35	10*18653	D	9-14-23	DALE R ALLEY	936 174
36	10*18673	D	9-14-23	RACHEL THORNE AND FRED THORNE JR	938 574
37	10*18674	D	9-14-23	JOHN T CRISWELL AND CATHERINE A CRISWELL	938 579
38	10*18675	D	9-14-23	JEFFREY BRYAN CRISWELL	938 582
39	10*18676	D	9-14-23	JENNIFER SHAWN GLOVER	938 576
40	10*18677	D	9-14-23	PATRICIA DOFKA	938 585
41	10*18678	D	9-14-23	WILLIAM LINSLEY CRISWELL	938 588
42	10*18763	D	9-14-23	VAUGHN HONE SR & LINDA MARIE HONE	938 225
43	10*18766	D	9-14-23	TOM ALLEY	938 223
44	10*18797	D	9-14-23	DORETTA RUSH	937 622
45	10*18808	D	9-14-23	PATRICIA KIRCHNER	937 644
46	10*18809	D	9-14-23	JUDITH C LORADITCH	937 647
47	10*19392	D	9-14-23	RODNEY W RUSH AND CRYSTAL D RUSH	940 336
48	10*19400	D	9-14-23	BULA F YOST	940 342
49	10*19405	D	9-14-23	ANN MARIE STEVENS AND CURTIS STEVENS	939 287
50	10*19417	D	9-14-23	SYLVIA R SPALENY AND ROBERT A SPALENY	939 595
51	10*19423	D	9-14-23	KEITH W STORCH AND DEBORAH A STORCH	934 600
52	10*19477	D	9-14-23	DEBORAH A MILLER	941 320
53	10*19479	D	9-14-23	DENISE WILLIAMSON	941 329
54	10*19510	D	9-14-23	REED O MILLER	933 571
55	10*19525	D	9-14-23	AUGUSTUS R MCMAHON III AND MICHELE M MCMAHON TRUSTEES OF THE AUGUSTUS R MCMAHON III LIVING TRUST	943 509
56	10*19527	D	9-14-23	AUGUSTUS RUSH MCMAHON III TRUSTEE OF THE PAMELA J MCMAHON REVOCABLE TRUST	953 339
57	10*19530	D	9-14-23	SHAROL K CASADA	943 1
58	10*19531	D	9-14-23	DELBERT D RUSH AND BETTY RUTH RUSH	942 615
59	10*19625	D	9-14-23	DURR SUCKEL & ELIZABETH SUCKEL	944 150
60	10*19626	D	9-14-23	LAURIE R BROWN	944 153
61	10*19676	D	9-14-23	RONALD W REINBEAU	944 456
62	10*19677	D	9-14-23	NEIL SCHAFER AND CHRISTAL L SHAFER	944 147
63	10*19681	D	9-14-23	TIMOTHY LEE COLLEY	944 140
64	10*19683	D	9-14-23	TERESA ALLEY	944 145
65	10*19686	D	9-14-23	KAREN J AND MICHAEL E BRUGGEMAN	944 142
66	10*19712	D	9-14-23	CHAZ AARON COLLEY AND DANA COLLINS	957 139
67	10*19723	D	9-14-23	REID ELATRACHE AND TONYA ELATRACHE	957 131
68	10*19859	D	9-14-23	ELIZABETH A STARC	945 603
69	10*19860	D	9-14-23	ALICIA N STARC	945 601
70	10*19861	D	9-14-23	JOSEPH F STARC JR AND DONNA STARC	945 605
71	10*19862	D	9-14-23	STACY R BENNETT	945 608
72	10*19864	D	9-14-23	JOE Y KELLER JR AND SHARON MARIE KELLER	945 610
73	10*19935	D	9-14-23	SARA E STARC	948 553
74	10*19936	D	9-14-23	SHERWOOD MASON NILA JUNE MASON	948 255
75	10*19940	D	9-14-23	EMMA JO CRISWELL	948 551
76	10*21028	D	9-14-23	BRENDA GILBERT	951 159
77	10*21094	D	9-14-23	KATHERINE DEGROOT AND DANIEL DEGROOT	951 151
78	10*21111	D	9-14-23	DONNA G AND PAUL L CHMELYNKI	951 154
79	10*21209	D	9-14-23	CHARLES R WILLIAMSON JR	951 157
80	10*21228	D	9-14-23	CHARLES F HORNER & LORAINNE G HORNER	952 434
81	10*21229	D	9-14-23	TARA E CAUSEY	952 432
82	10*21395	D	9-14-23	DANIEL L LANDRIS AND JOAN L LANDRIS	956 625
83	10*21395	D	9-14-23	MICHAEL D ZUCKER	956 647
84	10*21441	D	9-14-23	JOSEPH A MURPHY AND VIRGINIA ANNE MURPHY	956 631
85	10*21443	D	9-14-23	ROBERT L LANDRIS AND LIBERTY JANE LANDRIS	956 628
86	10*21490	D	9-14-23	DANIEL E WILLIAMSON AND HEATHER R WILLIAMSON	957 153
87	10*21493	D	9-14-23	DENZIL ALLEY JR	958 64
88	10*21497	D	9-14-23	KATHLEEN G WILLIAMSON	957 324
89	10*21837	D	9-14-23	WILLIAM BRYAN COLLEY	959 627
90	10*21873	D	9-14-23	MICHAEL WAYNE ALLEY AND LINDA ALLEY	953 501
91	10*21961	D	9-14-23	JOHN WILLIAMSON JR	960 24
92	10*21972	D	9-14-23	CATHERINE I AND ERNEST M SILVERIO	960 586
93	10*21979	D	9-14-23	CHARLES C SEAMON	954 340
94	10*21991	D	9-14-23	THE JOANN REILLY TRUST KIMBERLY MAEZ TRUSTEE	953 341
95	10*21997	D	9-14-23	MICHAEL SAUDERS AND AMI SAUDERS	953 506
96	10*22004	D	9-14-23	RALPH EDWARD WILLIAMSON	953 507
97	10*22037	D	9-14-23	JOSHUA W SEAMON	953 503
98	10*22053	D	9-14-23	LARRY R CRANE	953 344

RECEIVED
Office of Oil and Gas
JUN 24 2019
WV Department of
Environmental Protection

FILE NO. 8811P14HUR3.dwg
KEITH STERN N-14HU-REV3

DATE MAY 29, 20 19

REVISED JUNE 10, 2019 & JUNE 17, 2019

OPERATORS WELL NO. KEITH STERN N-14HU

API WELL NO. 47 STATE COUNTY PERMIT



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

P.S. 849 *C. Victor Moyers*

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COUNTY NAME
PERMIT

**KEITH STERN N LEASE
UTICA UNIT - 452.76 AC±
WELL 14HU
TUG HILL OPERATING**



99	10*22089	D	9-14-23	MARCIA A LUKE	961	333
100	10*22110	D	9-14-23	JENNIFER ALLEY FISHER & ROBERT D FISHER	961	347
101	10*22127	D	9-14-23	JUDITH L BENEDICT AND LOUIS G BENEDICT	961	343
102	10*22150	D	9-14-23	CHAD ERIC BENNETT AND MARY A BENNETT	954	338
103	10*22257	D	9-14-23	CHARLES F ALLEY TRUST EMMANUEL PREVOLES TRUSTEE	970	26
104	10*22328	D	9-14-23	SUSAN L GOLDSBERRY	962	549
105	10*22329	D	9-14-23	SALLY M COTEREL-CHANAY	962	547
106	10*22380	D	9-14-23	JUDITH S KNIGHT	962	276
107	10*22411	D	9-14-23	EARL FRAZIER AND LYDIA ARMENTA	963	128
108	10*22461	D	9-14-23	BRIAN R MORGAN	964	453
109	10*22501	D	9-14-23	LUNDA K AND MICHAEL HUMES	948	372
110	10*22502	D	9-14-23	JAMES P MILLER	946	215
111	10*22775	D	9-14-23	DIANNA LEA SHEPARD	970	30
112	10*22778	D	9-14-23	DANNY E COCHRAN AND LORI ANN COCHRAN	972	40
113	10*22833	D	9-14-23	RANDY W MORRIS SR AND CHERYL MORRIS	966	465
114	10*22848	D	9-14-23	JULIA RAE BROOKS	977	30
115	10*22854	D	9-14-23	SUSAN EXLINE	977	32
116	10*22878	D	9-14-23	AUBREY E REILLY	977	26
117	10*22879	D	9-14-23	BRENDAN Q REILLY	977	28
118	10*23148	D	9-14-23	IDA A ALLEY AND J F ALLEY	117	45
119	10*15957	E	9-14-20.3	BRADLEY CROW AND BETTY L CROW	768	350
120	10*15958	E	9-14-20.3	GLADYS CROW	769	609
121	10*15959	E	9-14-20.3	LEWIS M QUIGLEY AND MAXINE V QUIGLEY	769	603
122	10*15960	E	9-14-20.3	CONNIE HECKLE	770	547
123	10*15961	E	9-14-20.3	H GLENN CROW	770	565
124	10*15962	F	9-14-20.1	BRADLEY CROW AND BETTY L CROW	768	362
125	10*15963	F	9-14-20.1	LEWIS M QUIGLEY AND MAXINE V QUIGLEY	769	416
126	10*15964	F	9-14-20.1	GLADYS CROW	769	410
127	10*15965	F	9-14-20.1	H GLENN CROW	770	535
128	10*15966	F	9-14-20.1	CONNIE HECKLE	770	541
129	10*23458	G	WV - FISH CREEK	WEST VIRGINIA DIVISION OF NATURAL RESOURCES	1019	373
130	10*47051.243.1	H	9-14-21	MARY A FOX	879	332
131	10*47051.243.2	H	9-14-21	PAUL G FOX	879	335
132	10*47051.243.3	H	9-14-21	MARK H FOX	879	338
133	10*47051.243.4	H	9-14-21	DAVID E FOX	876	55
134	10*47051.243.5	H	9-14-21	LOUIS T FOX AND KAREN A FOX	876	58
135	10*47051.243.6	H	9-14-21	THOMAS J FOX	876	61
136	10*23053	I	9-14-11.3	CE YOUNG	63	146
137	10*23053	J	9-14-11	CE YOUNG	63	146
138	10*19621	K	9-14-1.1	MARY RUTH FROHNAPFEL	938	595
139	10*19622	K	9-14-1.1	KENNETH D SIBURT JR AND LORI SIBURT	938	597
140	10*19623	K	9-14-1.1	SANDRA SIBURT FROWEN & GEORGE FROWEN	938	600
141	10*19627	K	9-14-1.1	RONALD S YOUNG	944	192
142	10*19655	K	9-14-1.1	CHESTNUT HOLDINGS INC	949	309
143	10*19678	K	9-14-1.1	WILLIAM O. JOBES	944	188
144	10*19679	K	9-14-1.1	DAVID A DARRAH SR AND ANITA SLOUGH-DARRAH	946	54
145	10*19725	K	9-14-1.1	MAMIE V ARNOLD	944	454
146	10*21213	K	9-14-1.1	JAMES B SIBURT AND DELILA D SIBURT	957	177
147	10*21214	K	9-14-1.1	VICKI J CHERRY AND RICKEY E CHERRY	949	139
148	10*21215	K	9-14-1.1	ALAN K SIBURT ET UX	949	136
149	10*21216	K	9-14-1.1	RODNEY L SIBURT	949	142
150	10*21559	K	9-14-1.1	GUY L BUZZARD TRUSTEE THE GUY L BUZZARD 2017 IRREVOCABLE TRUST	957	388
151	10*22464	K	9-14-1.1	DONNA KYLE	964	470
152	10*22465	K	9-14-1.1	LOIS KURPIL FKA LOIS HERCULES	964	472
153	10*22466	K	9-14-1.1	JUDITH MAY CONNER	964	468
154	10*22516	K	9-14-1.1	SHARON RUSSELL	964	464
155	10*22518	K	9-14-1.1	GEORGE EDWARDS	964	466
156	10*22856	K	9-14-1.1	CHARLES W MILLER AND ESTHER JEAN MILLER	977	51
157	10*23435	K	9-14-1.1	LLOYD C. ARNOLD & JUDITH C. ARNOLD	1008	301
158	10*23087	L	9-14-12	REASON AND CATHERINE V YOUNG	68	69
159	10*19621	M	9-14-2	MARY RUTH FROHNAPFEL	938	595
160	10*19622	M	9-14-2	KENNETH D SIBURT JR AND LORI SIBURT	938	597
161	10*19623	M	9-14-2	SANDRA SIBURT FROWEN & GEORGE FROWEN	938	600
162	10*19627	M	9-14-2	RONALD S YOUNG	944	192
163	10*19655	M	9-14-2	CHESTNUT HOLDINGS INC	949	309
164	10*19678	M	9-14-2	WILLIAM O. JOBES	944	188
165	10*19679	M	9-14-2	DAVID A DARRAH SR AND ANITA SLOUGH-DARRAH	946	54
166	10*19725	M	9-14-2	MAMIE V ARNOLD	944	454
167	10*21213	M	9-14-2	JAMES B SIBURT AND DELILA D SIBURT	957	177
168	10*21214	M	9-14-2	VICKI J CHERRY AND RICKEY E CHERRY	949	139
169	10*21215	M	9-14-2	ALAN K SIBURT ET UX	949	136
170	10*21216	M	9-14-2	RODNEY L SIBURT	949	142
171	10*21559	M	9-14-2	GUY L BUZZARD TRUSTEE THE GUY L BUZZARD 2017 IRREVOCABLE TRUST	957	388
172	10*22464	M	9-14-2	DONNA KYLE	964	470
173	10*22465	M	9-14-2	LOIS KURPIL FKA LOIS HERCULES	964	472
174	10*22466	M	9-14-2	JUDITH MAY CONNER	964	468
175	10*22516	M	9-14-2	SHARON RUSSELL	964	464
176	10*22518	M	9-14-2	GEORGE EDWARDS	964	466
177	10*22856	M	9-14-2	CHARLES W MILLER AND ESTHER JEAN MILLER	977	51
178	10*23435	M	9-14-2	LLOYD C. ARNOLD & JUDITH C. ARNOLD	1008	301
179	10*19621	N	9-14-1	MARY RUTH FROHNAPFEL	938	595
180	10*19622	N	9-14-1	KENNETH D SIBURT JR AND LORI SIBURT	938	597
181	10*19623	N	9-14-1	SANDRA SIBURT FROWEN & GEORGE FROWEN	938	600
182	10*19627	N	9-14-1	RONALD S YOUNG	944	192
183	10*19655	N	9-14-1	CHESTNUT HOLDINGS INC	949	309
184	10*19678	N	9-14-1	WILLIAM O. JOBES	944	188
185	10*19679	N	9-14-1	DAVID A DARRAH SR AND ANITA SLOUGH-DARRAH	946	54
186	10*19725	N	9-14-1	MAMIE V ARNOLD	944	454
187	10*21213	N	9-14-1	JAMES B SIBURT AND DELILA D SIBURT	957	177
188	10*21214	N	9-14-1	VICKI J CHERRY AND RICKEY E CHERRY	949	139
189	10*21215	N	9-14-1	ALAN K SIBURT ET UX	949	136
190	10*21216	N	9-14-1	RODNEY L SIBURT	949	142
191	10*21559	N	9-14-1	GUY L BUZZARD TRUSTEE THE GUY L BUZZARD 2017 IRREVOCABLE TRUST	957	388
192	10*22464	N	9-14-1	DONNA KYLE	964	470
193	10*22465	N	9-14-1	LOIS KURPIL FKA LOIS HERCULES	964	472
194	10*22466	N	9-14-1	JUDITH MAY CONNER	964	468
195	10*22516	N	9-14-1	SHARON RUSSELL	964	464
196	10*22518	N	9-14-1	GEORGE EDWARDS	964	466
197	10*22856	N	9-14-1	CHARLES W MILLER AND ESTHER JEAN MILLER	977	51
198	10*23435	N	9-14-1	LLOYD C. ARNOLD & JUDITH C. ARNOLD	1008	301
199	10*15510	O	9-11-12	ELAINE PHELPS ET VIR	718	326

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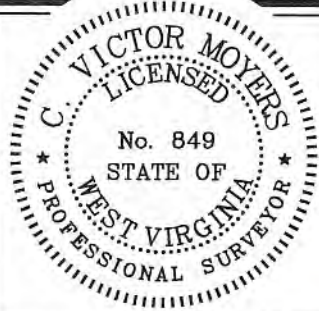
FILE NO. 8811P14HUR3.dwg
KEITH STERN N-14HU-REV3

DATE MAY 29, 20 19

REVISED JUNE 10, 2019 & JUNE 17, 2019

OPERATORS WELL NO. KEITH STERN N-14HU

API WELL NO. 47 STATE COUNTY PERMIT



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



P.S. 849 *C. Victor Moyers*

WELL OPERATOR TUG HILL OPERATING, LLC
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500
FORT WORTH, TX 76107

DESIGNATED AGENT DIANNA STAMPER
ADDRESS CT CORPORATION SYSTEM
5400 D BIG TYLER ROAD
CHARLESTON, WV 25313

COUNTY NAME
PERMIT

**KEITH STERN N LEASE
UTICA UNIT - 452.76 AC±
WELL 14HU
TUG HILL OPERATING**



200	10*15511	O	9-11-12	DAVID E CROW	718	376
201	10*15512	O	9-11-12	FRANCES COFFEY	718	378
202	10*15513	O	9-11-12	KAY KEYES	718	330
203	10*15514	O	9-11-12	L PAUL CROW	718	336
204	10*15515	O	9-11-12	DESIRE L CROW	718	334
205	10*15516	O	9-11-12	ROSE MARIE KIELGCZEWSKI	718	354
206	10*15517	O	9-11-12	DIANNE GELLNER & GARY GELLNER	718	345
207	10*15518	O	9-11-12	JAMES P HOLLIDAY AND JACQUELINE HOLLIDAY	718	347
208	10*15519	O	9-11-12	JOHN CROW	726	580
209	10*15520	O	9-11-12	TIMOTHY CROW	726	582
210	10*19685	O	9-11-12	MORGAN H MOSSER AND NANCY MOSSER	944	445
211	10*21093	O	9-11-12	DUNCAN S LINN AND POLLY LU BROWN	952	157
212	10*21492	O	9-11-12	JUDITH RISK	957	282
213	10*21494	O	9-11-12	EILEEN M SLATE AND DALE A SLATE	957	284
214	10*21495	O	9-11-12	E JEN BAIRD AND GEORGE S BAIRD AMENDED REVOCABLE TRUST AGREEMENT	966	618
215	10*21843	O	9-11-12	JOHN B HOAGLAND AND PATRICIA A HOAGLAND	959	620
216	10*21923	O	9-11-12	DOROTHY JEAN BURKLE BOYD	953	468
217	10*22090	O	9-11-12	KATHERINE ANN BOYD BLAKE	953	473
218	10*22153	O	9-11-12	JOEY A SCHOTTLER AND THOMAS A SCHOTTLER	953	470
219	10*22462	O	9-11-12	ROBERT CALDWELL MEAD	964	490
220	10*22608	O	9-11-12	SARAH BAIRD LINN	966	620
221	10*22666	O	9-11-12	JOSEPH W LINN JR AND TAMMY S LINN	968	230
222	10*22771	O	9-11-12	KATHARINE B SILBAUGH AND DANIEL JURAYI	970	24
223	10*22855	O	9-11-12	KIM O MAGHAN AND JAMES G MAGHAN	977	49
224	10*23024	O	9-11-12	KATHRYN A TAGGART AND EVERETT TAGGART JR	977	289
225	10*23059	O	9-11-12	GAIL W STEWART	977	287
226	10*23165	O	9-11-12	EDITH BOYD ORR AND WENDELL FRANKLIN ORR	984	68
227	10*23389	O	9-11-12	LEESA O THOMPSON	972	45
228	10*23427	O	9-11-12	SANDY VINCENT AND STEVEN VINCENT	1008	307
229	10*23652	O	9-11-12	KATHARINE ATWOOD AND MICHAEL GRITTON	1009	291
230	10*23686	O	9-11-12	RANDALL T ULLOM AND ROSALIE FERMO-ULLOM	1010	400
231	10*23687	O	9-11-12	ELIZABETH F BAIRD	1010	402
232	10*23688	O	9-11-12	MELISSA DUBOIS BAIRD	1010	404
233	10*23692	O	9-11-12	WILLIAM ATWOOD AND ELIZABETH ATWOOD	1010	408
234	10*23693	O	9-11-12	JOHN ATWOOD AND ANNETTE ATWOOD	1010	406
235	10*24222	O	9-11-12	SALVATION ARMY	1022	371
236	10*24282	O	9-11-12	CLARA OSBORNE DOUGLAS	1023	481
237	10*24296	O	9-11-12	KATHARINE D LINN	1023	522
238	10*24400	O	9-11-12	JANE W VARDY ET AL	1024	317
239	10*47051.123.1	O	9-11-12	LLOYD G BAKER	865	389
240	10*47051.123.2	O	9-11-12	JAMES P HOLLIDAY AND JACQUELINE HOLLIDAY	873	143
241	10*16258	P	9-11-13	CHESTNUT HOLDINGS INC	848	234
242	10*15584	Q	9-11-5	VICKIE MASON	686	239
243	10*15585	Q	9-11-5	SHARON L WHETZAL	687	147
244	10*15586	Q	9-11-5	MARY A SOUTH	690	615
245	10*15587	Q	9-11-5	ROBERT L WHETZAL	690	559
246	10*15588	Q	9-11-5	RAY A WHETZAL JR	693	571
247	10*15589	Q	9-11-5	MARK L WHETZAL	693	576
248	10*47051.108.1	Q	9-11-5	MICHAEL A WHETZEL	885	51
249	10*47051.108.5	Q	9-11-5	BRENDA J WHETZEL	885	95
250	10*17135	R	9-17-1	ELLEN K NYLES	919	625
251	10*17136	R	9-17-1	DAVID P WARSINSKY	919	627
252	10*15910	S	9-17-2	SHIRLEY KOONTZ	701	303
253	10*15911	S	9-17-2	ROBERT W. GRAY	715	441
254	10*15912	S	9-17-2	DELORES I RICHTER	715	448
255	10*15913	S	9-17-2	LULA MCGUIRE	715	449
256	10*15914	S	9-17-2	JUDY CALLOWAY	715	450
257	10*15915	S	9-17-2	JUDY WARNER	715	451
258	10*15916	S	9-17-2	CHRISTI LYNN CLAYTON	715	452
259	10*15917	S	9-17-2	CINDY LOU SMITH	715	453
260	10*15918	S	9-17-2	ARTHUR EMORY	715	457
261	10*15919	S	9-17-2	CAROLYN SUE HENRY	715	454
262	10*15920	S	9-17-2	DENNIS KOTKE	715	458
263	10*17233	S	9-17-2	TIMOTHY MCDOWELL	713	355
264	10*17234	S	9-17-2	GAREN P. MCDOWELL	716	280
265	10*17235	S	9-17-2	WINONA RIDDLE	715	353
266	10*17236	S	9-17-2	TEXYN L MILLER	716	270
267	10*17237	S	9-17-2	JENNIFER WHEATON	715	610
268	10*17238	S	9-17-2	LISA ANN MCDOWELL	715	341
269	10*17239	S	9-17-2	ANITA RAE MILLER	715	336
270	10*17240	S	9-17-2	BONNIE GRISEL	715	331
271	10*17241	S	9-17-2	BARBARA K BURLEY	716	290
272	10*17242	S	9-17-2	GERALD L MILLER	716	285
273	10*17243	S	9-17-2	DAVID MCDOWELL	717	26
274	10*17244	S	9-17-2	KAREN CECIL	716	295
275	10*17245	S	9-17-2	CHAD E LONGFELLOW	833	218
276	10*17666	S	9-17-2	LILA FAYE BONAR SNODGRASS AND DONALD T SNODGRASS	949	172
277	10*17673	S	9-17-2	JAMES PERRY COCHRAN	932	567
278	10*17707	S	9-17-2	JACQUELYN S FERRARI AND JOHN C FERRARI	949	177
279	10*17709	S	9-17-2	CAROL GONGOLA	949	167
280	10*17981	S	9-17-2	MICHAEL E SWIFT AND MELODY A SWIFT	925	372
281	10*18099	S	9-17-2	RAE ELLEN FLOYD AND KENNETH FLOYD	927	233
282	10*18107	S	9-17-2	ANITA MAE MASON	927	238
283	10*18167	S	9-17-2	NEIL CALL AND MELINDA CALL	927	492
284	10*18168	S	9-17-2	SANDRA YANAGAWA	927	498
285	10*18169	S	9-17-2	KAREN K WILLIAMS	927	628
286	10*18192	S	9-17-2	STEPHEN S MASON AND CAROLE K MASON	928	625
287	10*18193	S	9-17-2	CAROLYN LEE FUREY AND MARTIN J FUREY	949	158
288	10*18194	S	9-17-2	PAMELA BEYLER AND CHAD R BEYLER	928	630
289	10*18198	S	9-17-2	MARY THERESA SOLEAU AND THOMAS SOLEAU	928	643
290	10*18199	S	9-17-2	LAWRENCE J VAUGHN AND GAIL L VAUGHN	928	532
291	10*18260	S	9-17-2	GEMMA RUDY AND TIMOTHY RUDY	928	584
292	10*18261	S	9-17-2	TIMOTHY MCDOWELL AND CYNTHIA MCDOWELL	928	557
293	10*18262	S	9-17-2	KAREN MCDOWELL CECIL AND JAMES E CECIL	928	555
294	10*18263	S	9-17-2	LISA ANN MCDOWELL AND ROBERT JOSEPH HILL	928	551
295	10*18264	S	9-17-2	DAVID MCDOWELL AND CRYSTAL MCDOWELL	928	549
296	10*18295	S	9-17-2	THOMAS R BAKER AND VICKIE L BAKER	929	262
297	10*18417	S	9-17-2	CHERYL L HILL	932	577
298	10*18487	S	9-17-2	NANCY L STANGEL AND JOHN J STANGEL	933	113
299	10*18488	S	9-17-2	CHARLINE M ENGLE AND KEVIN E ENGLE	933	118
300	10*18508	S	9-17-2	PATRICIA LUANNE BONAR	925	351

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P.S. 849 *C. Victor Moyers*

WELL OPERATOR TUG HILL OPERATING, LLC ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107

DESIGNATED AGENT DIANNA STAMPER CT CORPORATION SYSTEM ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

COUNTY NAME
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**KEITH STERN N LEASE
UTICA UNIT - 452.76 AC±
WELL 14HU
TUG HILL OPERATING**



301	10*18517	S	9-17-2	LORI SHANAHAN AND PATRICK SHANAHAN	933	575
302	10*18619	S	9-17-2	LOIS ELAINE WICKHAM	934	617
303	10*18620	S	9-17-2	MICHAEL A WALKER	934	620
304	10*18621	S	9-17-2	MARK A WALKER	934	622
305	10*18622	S	9-17-2	CHAD A YOUNG	934	624
306	10*18623	S	9-17-2	NEIL ROBERT YOUNG	934	626
307	10*18624	S	9-17-2	CLARA SUE YOUNG	934	629
308	10*18655	S	9-17-2	PATRICIA L LEHN	936	95
309	10*18656	S	9-17-2	PAMELA CALL	936	100
310	10*18658	S	9-17-2	ELIZABETH JANE KELLER	936	107
311	10*18762	S	9-17-2	TRACY L BARNBY	938	481
312	10*19373	S	9-17-2	JESSICA WHEATON	931	411
313	10*19408	S	9-17-2	CAROLYN J YOUNG	940	149
314	10*19508	S	9-17-2	STONE HILL MINERALS HOLDINGS LLC	941	446
315	10*19532	S	9-17-2	CYNTHIA K KIRCHHOFF	942	637
316	10*19618	S	9-17-2	RONALD W YOUNG	937	371
317	10*19619	S	9-17-2	ERIC J YOUNG	937	377
318	10*19620	S	9-17-2	RONALD R YOUNG AND GERALDINE YOUNG	937	365
319	10*19624	S	9-17-2	JOHN T YINGLING	944	209
320	10*19668	S	9-17-2	MELISSA D FLETCHER & SCOTT A FLETCHER	938	326
321	10*19713	S	9-17-2	MARSHA BERISFORD	944	452
322	10*19879	S	9-17-2	MARY V GILSON AND WALTER M GILSON	945	588
323	10*19933	S	9-17-2	MARY ANN GRIFFITH	948	555
324	10*21226	S	9-17-2	PENNY YODER AND KEVIN LYNN YODER	951	605
325	10*21342	S	9-17-2	LELAND SINCLAIR YOUNG	946	52
326	10*21400	S	9-17-2	DENNIS REASBECK AND BARBARA REASBECK	956	645
327	10*21487	S	9-17-2	FLOYD D ANDERSON & CAROLYN SUE ANDERSON	957	294
328	10*21488	S	9-17-2	ALEXA B YOUNG	957	296
329	10*21517	S	9-17-2	SUSAN C YOUNG	949	201
330	10*21572	S	9-17-2	CARLA J SIMMS	957	452
331	10*21574	S	9-17-2	ALICE F WINLAND	957	404
332	10*21575	S	9-17-2	MICHAEL S OTT AND SYBIL OTT	957	449
333	10*21738	S	9-17-2	CRYSTAL DAWN YOUNG	957	409
334	10*21741	S	9-17-2	HOLLY A YOUNG	957	411
335	10*21749	S	9-17-2	GRANT D RICHARDS AND KERRI S RICHARDS	957	459
336	10*21842	S	9-17-2	JOSEPH NOKOVICH	959	635
337	10*21844	S	9-17-2	ROBERTA YOUNG	959	629
338	10*21927	S	9-17-2	BLACK GOLD GROUP LTD	964	474
339	10*21928	S	9-17-2	JOHN D COX AND CONNIE J COX	953	511
340	10*21940	S	9-17-2	ALYSIA JORDAN & TERRY M JORDAN	953	346
341	10*21967	S	9-17-2	ROGER G ALLEN AND DONNA KAY ALLEN	960	571
342	10*21970	S	9-17-2	CHRISTOPHER DAUGHERTY & JENNIFER R DAUGHERTY	960	578
343	10*21971	S	9-17-2	MARY LOU KITTELBERGER AND FREDERICK W KITTELBERGER	960	580
344	10*21975	S	9-17-2	RAYMOND A KUDERSKI AND KELLI J KUDERSKI	960	582
345	10*21984	S	9-17-2	SANFORD METZ	960	576
346	10*21986	S	9-17-2	RONALD D KOONTZ & BETH ANN KOONTZ	960	569
347	10*22052	S	9-17-2	RONALD R YOUNG	960	573
348	10*22088	S	9-17-2	BRANNEN DAUGHERTY	961	345
349	10*22147	S	9-17-2	LARRY R BONAR AND DEBRA L BONAR	957	406
350	10*22154	S	9-17-2	DONALD EUGENE ANDERSON	953	509
351	10*22599	S	9-17-2	BRYANT R SWIFT AND KATHY SWIFT	966	456
352	10*22600	S	9-17-2	AIDEN BOYD YOUNG JENNIFER A YOUNG, PETITIONER	966	462
353	10*22776	S	9-17-2	JAMES ROBERT WELLS	970	19
354	10*22849	S	9-17-2	NEIL MCELROY AND SUE MASON MCELROY	977	44
355	10*22851	S	9-17-2	JOHN J HELLSTERN AND LYNN D HELLSTERN	977	39
356	10*22853	S	9-17-2	RONALD LEE HENSLEY AND MARY ANN HENSLEY	977	34
357	10*23076	S	9-17-2	JACK R BERISFORD AKA RANDY BERISFORD	984	43
358	10*23260	S	9-17-2	IDA M TRAVIS ET AL DAVID C WHITE AS SPECIAL COMMISSIONER	988	73
359	10*23539	S	9-17-2	STONE HILL MINERALS HOLDINGS LLC	1010	224
360	10*23668	S	9-17-2	THE ESTATE OF RUTH N LUTHER SUZANNE L WOZNIAK EXECUTRIX	1009	286
361	10*15832	T	9-17-3	ANITA DIANE ANTILL AND TERRY ANTILL	742	121
362	10*15835	T	9-17-3	LUCINDA RAE ALLEN AND DAVID A ALLEN	742	104
363	10*15847	T	9-17-3	ROGER BRIGHT AND SUSAN LEIMER - DECEASED	743	285
364	10*15848	T	9-17-3	HOMER L SIMMONS AND GLADYS R SIMMONS	745	194
365	10*15855	T	9-17-3	ALICE THIPPHAVONG AND VISITH THIPPHAVONG	747	635
366	10*15856	T	9-17-3	LEO C HILKE AND BETTY M HILKE	747	629
367	10*15870	T	9-17-3	JOHN H HILKE AND AUDA HILKE	750	206
368	10*15872	T	9-17-3	SUSAN H KEY	751	191
369	10*15836	U	9-17-4	LUCINDA RAE ALLEN AND DAVID A ALLEN	742	79
370	10*15837	U	9-17-4	ANITA DIANE ANTILL AND TERRY ANTILL	742	85
371	10*15842	U	9-17-4	HOMER L SIMMONS AND GLADYS R SIMMONS	742	329
372	10*16007	U	9-17-4	MARY LOU KITTELBERGER AND FREDERICK W KITTELBERGER	799	436
373	10*16008	U	9-17-4	DONNA KAY ALLEN AND ROGER ALLEN	801	222
374	10*17169	U	9-17-4	ALMA L VAN SCYOC	692	404
375	10*17171	U	9-17-4	OPAL MICKY	690	631
376	10*17173	U	9-17-4	LLOYD R. EVANS	694	526
377	10*17500	U	9-17-4	TRACY L AND KEITH W BARNBY	916	116
378	10*17666	U	9-17-4	LILA FAYE BONAR SNODGRASS AND DONALD T SNODGRASS	949	172
379	10*17673	U	9-17-4	JAMES PERRY COCHRAN	932	567
380	10*17707	U	9-17-4	JACQUELYN S FERRARI AND JOHN C FERRARI	949	177
381	10*17709	U	9-17-4	CAROL GONGOLA	949	167
382	10*17765	U	9-17-4	ROBERTA YOUNG	949	163
383	10*17840	U	9-17-4	RONALD D KOONTZ & BETH ANN KOONTZ	942	432
384	10*17886	U	9-17-4	ANNETTE CAIN HANKINS AND HOWARD RONALD HANKINS	924	536
385	10*17887	U	9-17-4	LEO C HILKE AND BETTY M HILKE	924	531
386	10*17977	U	9-17-4	BRANNEN DAUGHERTY	925	359
387	10*17980	U	9-17-4	ANITA RAE MILLER	925	370
388	10*17981	U	9-17-4	MICHAEL E SWIFT AND MELODY A SWIFT	925	372
389	10*18031	U	9-17-4	LEE ANNE MILLER	927	222
390	10*18092	U	9-17-4	DAVID MCDOWELL AND CRYSTAL MCDOWELL	927	283
391	10*18093	U	9-17-4	JENNIFER WHEATON	927	289
392	10*18094	U	9-17-4	BONNIE GRISELL	927	231
393	10*18095	U	9-17-4	TEXYN L MILLER AND GEORGIA A MILLER	927	287
394	10*18098	U	9-17-4	LISA ANN MCDOWELL AND ROBERT JOSEPH HILL	939	263
395	10*18099	U	9-17-4	RAE ELLEN FLOYD AND KENNETH FLOYD	927	233
396	10*18107	U	9-17-4	ANITA MAE MASON	927	238
397	10*18167	U	9-17-4	NEIL CALL AND MELINDA CALL	927	492
398	10*18168	U	9-17-4	SANDRA YANAGAWA	927	498
399	10*18169	U	9-17-4	KAREN K WILLIAMS	927	628
400	10*18170	U	9-17-4	KAREN MCDOWELL CECIL AND JAMES E CECIL	927	633
401	10*18192	U	9-17-4	STEPHEN S MASON AND CAROLE K MASON	928	625

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Office of Oil and Gas
JUN 24 2019
WV Department of
Environmental Protection

FILE NO. 8811P14HUR3.dwg
KEITH STERN N-14HU-REV3

DATE MAY 29, 20 19

REVISED JUNE 10, 2019 & JUNE 17, 2019

OPERATORS WELL NO. KEITH STERN N-14HU

API WELL NO. 47 STATE COUNTY PERMIT



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

P.S. 849 *C. Victor Moyers*

WELL OPERATOR TUG HILL OPERATING, LLC ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107

DESIGNATED AGENT DIANNA STAMPER CT CORPORATION SYSTEM ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

COUNTY NAME
PERMIT

**KEITH STERN N LEASE
UTICA UNIT - 452.76 AC±
WELL 14HU
TUG HILL OPERATING**



402	10*18193	U	9-17-4	CAROLYN LEE FUREY AND MARTIN J FUREY	949	158
403	10*18194	U	9-17-4	PAMELA BEYLER AND CHAD R BEYLER	928	630
404	10*18197	U	9-17-4	BARBARA K BURLEY AND DAVID K BURLEY	928	641
405	10*18198	U	9-17-4	MARY THERESA SOLEAU AND THOMAS SOLEAU	928	643
406	10*18199	U	9-17-4	LAWRENCE J VAUGHN AND GAIL L VAUGHN	928	532
407	10*18260	U	9-17-4	GEMMA RUDY AND TIMOTHY RUDY	928	584
408	10*18295	U	9-17-4	THOMAS R BAKER AND VICKIE L BAKER	929	262
409	10*18298	U	9-17-4	MAUREEN GREGG	929	273
410	10*18300	U	9-17-4	ROBERT W ODOM AND CASSANDRA L ODOM	929	283
411	10*18361	U	9-17-4	MARY JO CAIN	931	407
412	10*18417	U	9-17-4	CHERYL L HILL	932	577
413	10*18487	U	9-17-4	NANCY L STANGEL AND JOHN J STANGEL	933	113
414	10*18488	U	9-17-4	CHARLINE M ENGLE AND KEVIN E ENGLE	933	118
415	10*18508	U	9-17-4	PATRICIA LUANNE BONAR	925	351
416	10*18517	U	9-17-4	LORI SHANAHAN AND PATRICK SHANAHAN	933	575
417	10*18613	U	9-17-4	JANE LOUISE CAIN AND DANIEL CARL HOLTZ	934	603
418	10*18655	U	9-17-4	PATRICIA L LEHN	936	95
419	10*18656	U	9-17-4	PAMELA CALL	936	100
420	10*18658	U	9-17-4	ELIZABETH JANE KELLER	936	107
421	10*18659	U	9-17-4	CATHERINE P MASON	936	112
422	10*18799	U	9-17-4	CHARLES J DARMAFALL DECEASED	937	634
423	10*18805	U	9-17-4	CINDY STEVENS TOZIER	937	628
424	10*19373	U	9-17-4	JESSICA WHEATON	931	411
425	10*19403	U	9-17-4	LAWRENCE R LOTZ	951	114
426	10*19404	U	9-17-4	HOWARD M CAIN AND EMMA JEAN CAIN	939	283
427	10*19476	U	9-17-4	WINONA RIDDLE	941	331
428	10*19689	U	9-17-4	EDMOND TURGEON JR AND CATHY STEVENS TURGEON	944	156
429	10*19702	U	9-17-4	WV MINERALS INC	951	108
430	10*19718	U	9-17-4	CHRISTOPHER DAUGHERTY & JENNIFER R DAUGHERTY	944	412
431	10*19879	U	9-17-4	MARY V GILSON AND WALTER M GILSON	945	588
432	10*19933	U	9-17-4	MARY ANN GRIFFITH	948	555
433	10*19937	U	9-17-4	JAMES D STEVENS AND DOROTHY M STEVENS	949	151
434	10*19938	U	9-17-4	JOHN H STEVENS AND LYNDA L STEVENS	949	144
435	10*21026	U	9-17-4	NANCY M MORGAN	951	110
436	10*21211	U	9-17-4	NILA JEAN BAYLES	951	118
437	10*21841	U	9-17-4	ENERGY DEEP RESOURCES INC	959	631
438	10*21842	U	9-17-4	JOSEPH NOKOVICH	959	635
439	10*21927	U	9-17-4	BLACK GOLD GROUP LTD	964	474
440	10*21940	U	9-17-4	ALYSIA JORDAN & TERRY M JORDAN	953	346
441	10*22376	U	9-17-4	MARGARET KUCHARZ AND JAMES C KUCHARZ	962	270
442	10*22412	U	9-17-4	CHAD E LON GFELLOW	963	124
443	10*22599	U	9-17-4	BRYANT R SWIFT AND KATHY SWIFT	966	456
444	10*22776	U	9-17-4	JAMES ROBERT WELLS	970	19
445	10*22849	U	9-17-4	NEIL MCELROY AND SUE MASON MCELROY	977	44
446	10*22851	U	9-17-4	JOHN J HELLSTERN AND LYNN D HELLSTERN	977	39
447	10*22853	U	9-17-4	RONALD LEE HENSLEY AND MARY ANN HENSLEY	977	34
448	10*23076	U	9-17-4	JACK R BERISFORD AKA RANDY BERISFORD	984	43
449	10*23260	U	9-17-4	IDA M TRAVIS ET AL DAVID C WHITE AS SPECIAL COMMISSIONER	988	73
450	10*23668	U	9-17-4	THE ESTATE OF RUTH N LUTHER SUZANNE L WOZNIAK EXECUTRIX	1009	286
451	10*47051.219.1	U	9-17-4	DAVID LEE FRANKLIN	874	312
452	10*47051.219.27	U	9-17-4	MARSHA BERISFORD	902	425
453	10*47051.219.33	U	9-17-4	JOHN H HILKE AND ALIDA HILKE	898	602
454	10*47051.219.36	U	9-17-4	GAREN MCDOWELL AND ELIZABETH MCDOWELL	898	615
455	10*47051.219.37	U	9-17-4	SUSAN H KEY	898	621
456	10*47051.219.38	U	9-17-4	TIMOTHY MCDOWELL AND CYNTHIA MCDOWELL	902	431
457	10*47051.219.39	U	9-17-4	ALICE THIPPHAVONG AND VISITH THIPPHAVONG	902	437
458	10*15836	V	9-17-4.3	LUCINDA RAE ALLEN AND DAVID A ALLEN	742	79
459	10*15837	V	9-17-4.3	ANITA DIANE ANTILL AND TERRY ANTILL	742	85
460	10*15842	V	9-17-4.3	HOMER L SIMMONS AND GLADYS R SIMMONS	742	329
461	10*16007	V	9-17-4.3	MARY LOU KITTELBERGER AND FREDERICK W KITTELBERGER	799	436
462	10*16008	V	9-17-4.3	DONNA KAY ALLEN AND ROGER ALLEN	801	222
463	10*17169	V	9-17-4.3	ALMA L VAN SCYOC	692	404
464	10*17171	V	9-17-4.3	OPAL MICKY	690	631
465	10*17173	V	9-17-4.3	LLOYD R. EVANS	694	526
466	10*17500	V	9-17-4.3	TRACY LAND KEITH W BARNBY	916	116
467	10*17666	V	9-17-4.3	LILA FAYE BONAR SNODGRASS AND DONALD T SNODGRASS	949	172
468	10*17673	V	9-17-4.3	JAMES PERRY COCHRAN	932	567
469	10*17707	V	9-17-4.3	JACQUELYN S FERRARI AND JOHN C FERRARI	949	177
470	10*17709	V	9-17-4.3	CAROL GONGOLA	949	167
471	10*17765	V	9-17-4.3	ROBERTA YOUNG	949	163
472	10*17840	V	9-17-4.3	RONALD D KOONTZ & BETH ANN KOONTZ	942	432
473	10*17886	V	9-17-4.3	ANNETTE CAIN HANKINS AND HOWARD RONALD HANKINS	924	536
474	10*17887	V	9-17-4.3	LEO C HILKE AND BETTY M HILKE	924	531
475	10*17977	V	9-17-4.3	BRANNEN DAUGHERTY	925	359
476	10*17980	V	9-17-4.3	ANITA RAE MILLER	925	370
477	10*17981	V	9-17-4.3	MICHAEL E SWIFT AND MELODY A SWIFT	925	372
478	10*18031	V	9-17-4.3	LEE ANNE MILLER	927	222
479	10*18092	V	9-17-4.3	DAVID MCDOWELL AND CRYSTAL MCDOWELL	927	283
480	10*18093	V	9-17-4.3	JENNIFER WHEATON	927	289
481	10*18094	V	9-17-4.3	BONNIE GRISELL	927	231
482	10*18095	V	9-17-4.3	TEXYN L MILLER AND GEORGIA A MILLER	927	287
483	10*18098	V	9-17-4.3	LISA ANN MCDOWELL AND ROBERT JOSEPH HILL	939	263
484	10*18099	V	9-17-4.3	RAE ELLEN FLOYD AND KENNETH FLOYD	927	233
485	10*18107	V	9-17-4.3	ANITA MAE MASON	927	238
486	10*18167	V	9-17-4.3	NEIL CALL AND MELINDA CALL	927	492
487	10*18168	V	9-17-4.3	SANDRA YANAGAWA	927	498
488	10*18169	V	9-17-4.3	KAREN K WILLIAMS	927	628
489	10*18170	V	9-17-4.3	KAREN MCDOWELL CECIL AND JAMES E CECIL	927	633
490	10*18192	V	9-17-4.3	STEPHEN S MASON AND CAROLE K MASON	928	625
491	10*18193	V	9-17-4.3	CAROLYN LEE FUREY AND MARTIN J FUREY	949	158
492	10*18194	V	9-17-4.3	PAMELA BEYLER AND CHAD R BEYLER	928	630
493	10*18197	V	9-17-4.3	BARBARA K BURLEY AND DAVID K BURLEY	928	641
494	10*18198	V	9-17-4.3	MARY THERESA SOLEAU AND THOMAS SOLEAU	928	643
495	10*18199	V	9-17-4.3	LAWRENCE J VAUGHN AND GAIL L VAUGHN	928	532
496	10*18260	V	9-17-4.3	GEMMA RUDY AND TIMOTHY RUDY	928	584
497	10*18295	V	9-17-4.3	THOMAS R BAKER AND VICKIE L BAKER	929	262
498	10*18298	V	9-17-4.3	MAUREEN GREGG	929	273
499	10*18300	V	9-17-4.3	ROBERT W ODOM AND CASSANDRA L ODOM	929	283
500	10*18361	V	9-17-4.3	MARY JO CAIN	931	407
501	10*18417	V	9-17-4.3	CHERYL L HILL	932	577
502	10*18487	V	9-17-4.3	NANCY L STANGEL AND JOHN J STANGEL	933	113

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OPERATORS WELL NO. KEITH STERN N-14HU

API WELL NO. 47 STATE _____ COUNTY _____ PERMIT _____



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DIVISION OF ENVIRONMENTAL PROTECTION
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P.S. 849 C. Victor Moyers

WELL OPERATOR TUG HILL OPERATING, LLC ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107

DESIGNATED AGENT DIANNA STAMPER CT CORPORATION SYSTEM ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

COUNTY NAME _____ PERMIT _____

**KEITH STERN N LEASE
UTICA UNIT - 452.76 AC±
WELL 14HU
TUG HILL OPERATING**



503	10*18488	V	9-17-4.3	CHARLINE M ENGLE AND KEVIN E ENGLE	933	118
504	10*18508	V	9-17-4.3	PATRICIA LUJANNE BONAR	925	351
505	10*18517	V	9-17-4.3	LORI SHANAHAN AND PATRICK SHANAHAN	933	575
506	10*18613	V	9-17-4.3	JANE LOUISE CAIN AND DANIEL CARL HOLTZ	934	603
507	10*18655	V	9-17-4.3	PATRICIA L LEHN	936	95
508	10*18656	V	9-17-4.3	PAMELA CALL	936	100
509	10*18658	V	9-17-4.3	ELIZABETH JANE KELLER	936	107
510	10*18659	V	9-17-4.3	CATHERINE P MASON	936	112
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513	10*19373	V	9-17-4.3	JESSICA WHEATON	931	411
514	10*19403	V	9-17-4.3	LAWRENCE R LOTZ	951	114
515	10*19404	V	9-17-4.3	HOWARD M CAIN AND EMMA JEAN CAIN	939	283
516	10*19476	V	9-17-4.3	WINONA RIDDLE	941	331
517	10*19689	V	9-17-4.3	EDMOND TURGEON JR AND CATHY STEVENS TURGEON	944	156
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523	10*19938	V	9-17-4.3	JOHN H STEVENS AND LYNDA L STEVENS	949	144
524	10*21026	V	9-17-4.3	NANCY M MORGAN	951	110
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526	10*21841	V	9-17-4.3	ENERGY DEEP RESOURCES INC	959	631
527	10*21842	V	9-17-4.3	JOSEPH NOKOVICH	959	635
528	10*21927	V	9-17-4.3	BLACK GOLD GROUP LTD	964	474
529	10*21940	V	9-17-4.3	ALYSIA JORDAN & TERRY M JORDAN	953	346
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535	10*22851	V	9-17-4.3	JOHN J HELLSTERN AND LYNN D HELLSTERN	977	39
536	10*22853	V	9-17-4.3	RONALD LEE HENSLEY AND MARY ANN HENSLEY	977	34
537	10*23076	V	9-17-4.3	JACK R BERISFORD AKA RANDY BERISFORD	984	43
538	10*23260	V	9-17-4.3	IDA M TRAVIS ET AL DAVID C WHITE AS SPECIAL COMMISSIONER	988	73
539	10*23688	V	9-17-4.3	THE ESTATE OF RUTH N LUTHER SUZANNE L WOZNIAK EXECUTRIX	1009	286
540	10*47051.219.1	V	9-17-4.3	DAVID LEE FRANKLIN	874	312
541	10*47051.219.27	V	9-17-4.3	MARSHA BERISFORD	902	425
542	10*47051.219.33	V	9-17-4.3	JOHN H HILKE AND ALIDA HILKE	898	602
543	10*47051.219.36	V	9-17-4.3	GAREN MCDOWELL AND ELIZABETH MCDOWELL	898	615
544	10*47051.219.37	V	9-17-4.3	SUSAN H KEY	898	621
545	10*47051.219.38	V	9-17-4.3	TIMOTHY MCDOWELL AND CYNTHIA MCDOWELL	902	431
546	10*47051.219.39	V	9-17-4.3	ALICE THIPPHAVONG AND VISITH THIPPHAVONG	902	437
547	10*15836	W	9-17-4.2	LUCINDA RAE ALLEN AND DAVID A ALLEN	742	79
548	10*15837	W	9-17-4.2	ANITA DIANE ANTILL AND TERRY ANTILL	742	85
549	10*15842	W	9-17-4.2	HOMER L SIMMONS AND GLADYS R SIMMONS	742	329
550	10*16007	W	9-17-4.2	MARY LOU KITTELBERGER AND FREDERICK W KITTELBERGER	799	436
551	10*16008	W	9-17-4.2	DONNA KAY ALLEN AND ROGER ALLEN	801	222
552	10*17169	W	9-17-4.2	ALMA L VAN SCYOC	692	404
553	10*17171	W	9-17-4.2	OPAL MICKEY	690	631
554	10*17173	W	9-17-4.2	LLOYD R EVANS	694	526
555	10*17500	W	9-17-4.2	TRACY LAND KEITH W BARNBY	916	116
556	10*17666	W	9-17-4.2	LILA FAYE BONAR SNOODGRASS AND DONALD T SNOODGRASS	949	172
557	10*17673	W	9-17-4.2	JAMES PERRY COCHRAN	932	567
558	10*17707	W	9-17-4.2	JACQUELYN S FERRARI AND JOHN C FERRARI	949	177
559	10*17709	W	9-17-4.2	CAROL GONGOLA	949	167
560	10*17765	W	9-17-4.2	ROBERTA YOUNG	949	163
561	10*17840	W	9-17-4.2	RONALD D KOONTZ & BETH ANN KOONTZ	942	432
562	10*17886	W	9-17-4.2	ANNETTE CAIN HANKINS AND HOWARD RONALD HANKINS	924	536
563	10*17887	W	9-17-4.2	LEO C HILKE AND BETTY M HILKE	924	531
564	10*17977	W	9-17-4.2	BRANNEN DAUGHERTY	925	359
565	10*17980	W	9-17-4.2	ANITA RAE MILLER	925	370
566	10*17981	W	9-17-4.2	MICHAEL E SWIFT AND MELODY A SWIFT	925	372
567	10*18031	W	9-17-4.2	LEE ANNE MILLER	927	222
568	10*18092	W	9-17-4.2	DAVID MCDOWELL AND CRYSTAL MCDOWELL	927	283
569	10*18093	W	9-17-4.2	JENNIFER WHEATON	927	289
570	10*18094	W	9-17-4.2	BONNIE GRISELL	927	231
571	10*18095	W	9-17-4.2	TEXYN L MILLER AND GEORGIA A MILLER	927	287
572	10*18098	W	9-17-4.2	LISA ANN MCDOWELL AND ROBERT JOSEPH HILL	939	263
573	10*18099	W	9-17-4.2	RAE ELLEN FLOYD AND KENNETH FLOYD	927	233
574	10*18107	W	9-17-4.2	ANITA MAE MASON	927	238
575	10*18167	W	9-17-4.2	NEIL CALL AND MELINDA CALL	927	492
576	10*18168	W	9-17-4.2	SANDRA YANAGAWA	927	498
577	10*18169	W	9-17-4.2	KAREN K WILLIAMS	927	628
578	10*18170	W	9-17-4.2	KAREN MCDOWELL CECIL AND JAMES E CECIL	927	633
579	10*18192	W	9-17-4.2	STEPHEN S MASON AND CAROLE K MASON	928	625
580	10*18193	W	9-17-4.2	CAROLYN LEE FUREY AND MARTIN J FUREY	949	158
581	10*18194	W	9-17-4.2	PAMELA BEYLER AND CHAD R BEYLER	928	630
582	10*18197	W	9-17-4.2	BARBARA K BURLEY AND DAVID K BURLEY	928	641
583	10*18198	W	9-17-4.2	MARY THERESA SOLEAU AND THOMAS SOLEAU	928	643
584	10*18199	W	9-17-4.2	LAWRENCE J VAUGHN AND GAIL L VAUGHN	928	532
585	10*18260	W	9-17-4.2	GEMMA RUDY AND TIMOTHY RUDY	928	584
586	10*18295	W	9-17-4.2	THOMAS R BAKER AND VICKIE L BAKER	929	262
587	10*18298	W	9-17-4.2	MAUREEN GREGG	929	273
588	10*18300	W	9-17-4.2	ROBERT W ODOM AND CASSANDRA L ODOM	929	283
589	10*18361	W	9-17-4.2	MARY JO CAIN	931	407
590	10*18417	W	9-17-4.2	CHERYL L HILL	932	577
591	10*18487	W	9-17-4.2	NANCY L STANGEL AND JOHN J STANGEL	933	113
592	10*18488	W	9-17-4.2	CHARLINE M ENGLE AND KEVIN E ENGLE	933	118
593	10*18508	W	9-17-4.2	PATRICIA LUJANNE BONAR	925	351
594	10*18517	W	9-17-4.2	LORI SHANAHAN AND PATRICK SHANAHAN	933	575
595	10*18613	W	9-17-4.2	JANE LOUISE CAIN AND DANIEL CARL HOLTZ	934	603
596	10*18655	W	9-17-4.2	PATRICIA L LEHN	936	95
597	10*18656	W	9-17-4.2	PAMELA CALL	936	100
598	10*18658	W	9-17-4.2	ELIZABETH JANE KELLER	936	107
599	10*18659	W	9-17-4.2	CATHERINE P MASON	936	112
600	10*18799	W	9-17-4.2	CHARLES J DARMAFALL DECEASED	937	634
601	10*18805	W	9-17-4.2	CINDY STEVENS TOZIER	937	628
602	10*19373	W	9-17-4.2	JESSICA WHEATON	931	411
603	10*19403	W	9-17-4.2	LAWRENCE R LOTZ	951	114

RECEIVED
Office of Oil and Gas

JUN 24 2019

WV Department of
Environmental Protection

COUNTY NAME

PERMIT

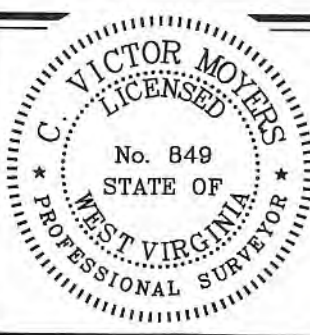
FILE NO. 8811P14HUR3.dwg
KEITH STERN N-14HU-REV3

DATE MAY 29, 20 19

REVISED JUNE 10, 2019 & JUNE 17, 2019

OPERATORS WELL NO. KEITH STERN N-14HU

API WELL NO. 47 STATE COUNTY PERMIT



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



P.S. 849 *C. Victor Moyers*

WELL OPERATOR TUG HILL OPERATING, LLC
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500
FORT WORTH, TX 76107

DESIGNATED AGENT DIANNA STAMPER
ADDRESS 5400 D BIG TYLER ROAD
CHARLESTON, WV 25313

**KEITH STERN N LEASE
UTICA UNIT - 452.76 AC±
WELL 14HU
TUG HILL OPERATING**



604	10*19404	W	9-17-4.2	HOWARD M CAIN AND EMMA JEAN CAIN	939	283
605	10*19476	W	9-17-4.2	WINONA RIDDLE	941	331
606	10*19689	W	9-17-4.2	EDMOND TURGEON JR AND CATHY STEVENS TURGEON	944	156
607	10*19702	W	9-17-4.2	WV MINERALS INC	951	108
608	10*19718	W	9-17-4.2	CHRISTOPHER DAUGHERTY & JENNIFER R DAUGHERTY	944	412
609	10*19879	W	9-17-4.2	MARY V GILSON AND WALTER M GILSON	945	588
610	10*19933	W	9-17-4.2	MARY ANN GRIFFITH	948	555
611	10*19937	W	9-17-4.2	JAMES D STEVENS AND DOROTHY M STEVENS	949	151
612	10*19938	W	9-17-4.2	JOHN H STEVENS AND LYNDA L STEVENS	949	144
613	10*21026	W	9-17-4.2	NANCY M MORGAN	951	110
614	10*21211	W	9-17-4.2	NILA JEAN BAYLES	951	118
615	10*21841	W	9-17-4.2	ENERGY DEEP RESOURCES INC	959	631
616	10*21842	W	9-17-4.2	JOSEPH NOKOVICH	959	635
617	10*21927	W	9-17-4.2	BLACK GOLD GROUP LTD	964	474
618	10*21940	W	9-17-4.2	ALYSSA JORDAN & TERRY M JORDAN	953	346
619	10*22376	W	9-17-4.2	MARGARET KUCHARZ AND JAMES C KUCHARZ	962	270
620	10*22412	W	9-17-4.2	CHAD E LONGFELLOW	963	124
621	10*22599	W	9-17-4.2	BRYANT R SWIFT AND KATHY SWIFT	966	456
622	10*22776	W	9-17-4.2	JAMES ROBERT WELLS	970	19
623	10*22849	W	9-17-4.2	NEIL MCELROY AND SUE MASON MCELROY	977	44
624	10*22851	W	9-17-4.2	JOHN J HELLSTERN AND LYNN D HELLSTERN	977	39
625	10*22853	W	9-17-4.2	RONALD LEE HENSLEY AND MARY ANN HENSLEY	977	34
626	10*23076	W	9-17-4.2	JACK R BERISFORD AKA RANDY BERISFORD	984	43
627	10*23260	W	9-17-4.2	IDA M TRAVIS ET AL DAVID C WHITE AS SPECIAL COMMISSIONER	988	73
628	10*23668	W	9-17-4.2	THE ESTATE OF RUTH N LUTHER SUZANNE L WOZNIAK EXECUTRIX	1009	286
629	10*47051.219.1	W	9-17-4.2	DAVID LEE FRANKLIN	874	312
630	10*47051.219.27	W	9-17-4.2	MARSHA BERISFORD	902	425
631	10*47051.219.33	W	9-17-4.2	JOHN H HILKE AND ALJDA HILKE	898	602
632	10*47051.219.36	W	9-17-4.2	GAREN MCDOWELL AND ELIZABETH MCDOWELL	898	615
633	10*47051.219.37	W	9-17-4.2	SUSAN H KEY	898	621
634	10*47051.219.38	W	9-17-4.2	TIMOTHY MCDOWELL AND CYNTHIA MCDOWELL	902	431
635	10*47051.219.39	W	9-17-4.2	ALICE THIPPHAVONG AND VISITH THIPPHAVONG	902	437
636	10*15836	X	9-17-5	LUCINDA RAE ALLEN AND DAVID A ALLEN	742	79
637	10*15837	X	9-17-5	ANITA DIANE ANTILL AND TERRY ANTILL	742	85
638	10*15842	X	9-17-5	HOMER L SIMMONS AND GLADYS R SIMMONS	742	329
639	10*16007	X	9-17-5	MARY LOU KITTELBERGER AND FREDERICK W KITTELBERGER	799	436
640	10*17169	X	9-17-5	ALMA L VAN SCYOC	692	404
641	10*17171	X	9-17-5	OPAL MICKEY	690	681
642	10*17173	X	9-17-5	LLOYD R. EVANS	694	526
643	10*17500	X	9-17-5	TRACY LAND KEITH W BARNBY	916	116
644	10*17665	X	9-17-5	LILA FAYE BONAR SNODGRASS AND DONALD T SNODGRASS	949	172
645	10*17673	X	9-17-5	JAMES PERRY COCHRAN	932	567
646	10*17707	X	9-17-5	JACQUELYN S FERRARI AND JOHN C FERRARI	949	177
647	10*17709	X	9-17-5	CAROL GONGOLA	949	167
648	10*17765	X	9-17-5	ROBERTA YOUNG	949	163
649	10*17840	X	9-17-5	RONALD D KOONTZ & BETH ANN KOONTZ	942	432
650	10*17886	X	9-17-5	ANNETTE CAIN HANKINS AND HOWARD RONALD HANKINS	924	536
651	10*17887	X	9-17-5	LEO C HILKE AND BETTY M HILKE	924	531
652	10*17977	X	9-17-5	BRANNEN DAUGHERTY	925	359
653	10*17980	X	9-17-5	ANITA RAE MILLER	925	370
654	10*17981	X	9-17-5	MICHAEL E SWIFT AND MELODY A SWIFT	925	372
655	10*18019	X	9-17-5	SUSAN H KEY	927	272
656	10*18020	X	9-17-5	ALICE THIPPHAVONG AND VISITH THIPPHAVONG	927	270
657	10*18031	X	9-17-5	LEE ANNE MILLER	927	222
658	10*18092	X	9-17-5	DAVID MCDOWELL AND CRYSTAL MCDOWELL	927	283
659	10*18093	X	9-17-5	JENNIFER WHEATON	927	289
660	10*18094	X	9-17-5	BONNIE GRISELL	927	231
661	10*18095	X	9-17-5	TEXNY L MILLER AND GEORGIA A MILLER	927	287
662	10*18098	X	9-17-5	LISA ANN MCDOWELL AND ROBERT JOSEPH HILL	939	263
663	10*18099	X	9-17-5	RAE ELLEN FLOYD AND KENNETH FLOYD	927	233
664	10*18107	X	9-17-5	ANITA MAE MASON	927	238
665	10*18113	X	9-17-5	JOHN H HILKE	927	159
666	10*18167	X	9-17-5	NEIL CALL AND MELUNDA CALL	927	492
667	10*18168	X	9-17-5	SANDRA YANAGAWA	927	498
668	10*18169	X	9-17-5	KAREN K WILLIAMS	927	628
669	10*18170	X	9-17-5	KAREN MCDOWELL CECIL AND JAMES E CECIL	927	633
670	10*18192	X	9-17-5	STEPHEN S MASON AND CAROLE K MASON	928	625
671	10*18193	X	9-17-5	CAROLYN LEE FUREY AND MARTIN J FUREY	949	158
672	10*18194	X	9-17-5	PAMELA BEYLER AND CHAD R BEYLER	928	630
673	10*18197	X	9-17-5	BARBARA K BURLEY AND DAVID K BURLEY	928	641
674	10*18199	X	9-17-5	MARY THERESA SOLEAU AND THOMAS SOLEAU	928	643
675	10*18199	X	9-17-5	LAWRENCE J VAUGHN AND GAIL L VAUGHN	928	532
676	10*18260	X	9-17-5	GEMMA RUDY AND TIMOTHY RUDY	928	584
677	10*18295	X	9-17-5	THOMAS R BAKER AND VICKIE L BAKER	929	262
678	10*18298	X	9-17-5	MAUREEN GREGG	929	273
679	10*18300	X	9-17-5	ROBERT W ODOM AND CASSANDRA L ODOM	929	283
680	10*18361	X	9-17-5	MARY JO CAIN	931	407
681	10*18417	X	9-17-5	CHERYL L HILL	932	577
682	10*18487	X	9-17-5	NANCY L STANGEL AND JOHN J STANGEL	933	113
683	10*18488	X	9-17-5	CHARLINE M ENGLE AND KEVIN E ENGLE	933	118
684	10*18508	X	9-17-5	PATRICIA LUJANNE BONAR	925	351
685	10*18517	X	9-17-5	LORI SHANAHAN AND PATRICK SHANAHAN	933	575
686	10*18613	X	9-17-5	JANE LOUISE CAIN AND DANIEL CARL HOLTZ	934	603
687	10*18655	X	9-17-5	PATRICIA LLEHN	936	95
688	10*18656	X	9-17-5	PAMELA CALL	936	100
689	10*18658	X	9-17-5	ELIZABETH JANE KELLER	936	107
690	10*18659	X	9-17-5	CATHERINE P MASON	936	112
691	10*18799	X	9-17-5	CHARLES J DARMAFALL DECEASED	937	634
692	10*18805	X	9-17-5	CINDY STEVENS TOZIER	937	628
693	10*19373	X	9-17-5	JESSICA WHEATON	931	411
694	10*19403	X	9-17-5	LAWRENCE R LOTZ	951	114
695	10*19404	X	9-17-5	HOWARD M CAIN AND EMMA JEAN CAIN	939	283
696	10*19476	X	9-17-5	WINONA RIDDLE	941	331
697	10*19689	X	9-17-5	EDMOND TURGEON JR AND CATHY STEVENS TURGEON	944	156
698	10*19702	X	9-17-5	WV MINERALS INC	951	108
699	10*19718	X	9-17-5	CHRISTOPHER DAUGHERTY & JENNIFER R DAUGHERTY	944	412
700	10*19879	X	9-17-5	MARY V GILSON AND WALTER M GILSON	945	588
701	10*19933	X	9-17-5	MARY ANN GRIFFITH	948	555
702	10*19937	X	9-17-5	JAMES D STEVENS AND DOROTHY M STEVENS	949	151
703	10*19938	X	9-17-5	JOHN H STEVENS AND LYNDA L STEVENS	949	144
704	10*21026	X	9-17-5	NANCY M MORGAN	951	110

FILE NO. 8811P14HUR3.dwg
KEITH STERN N-14HU-REV3

DATE MAY 29, 20 19

REVISED JUNE 10, 2019 & JUNE 17, 2019

OPERATORS WELL NO. KEITH STERN N-14HU

API WELL NO. 47
STATE COUNTY PERMIT



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



P.S. 849 *C. Victor Moyers*

WELL OPERATOR TUG HILL OPERATING, LLC
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500
FORT WORTH, TX 76107

DESIGNATED AGENT DIANNA STAMPER
ADDRESS CT CORPORATION SYSTEM
5400 D BIG TYLER ROAD
CHARLESTON, WV 25313

COUNTY NAME

PERMIT

**KEITH STERN N LEASE
UTICA UNIT - 452.76 AC±
WELL 14HU
TUG HILL OPERATING**



705	10*21211	X	9-17-5	NILA JEAN BAYLES	951	118
706	10*21841	X	9-17-5	ENERGY DEEP RESOURCES INC	959	631
707	10*21842	X	9-17-5	JOSEPH NOKOVICH	959	635
708	10*21927	X	9-17-5	BLACK GOLD GROUP LTD	964	474
709	10*21940	X	9-17-5	ALYSIA JORDAN & TERRY M JORDAN	953	346
710	10*22376	X	9-17-5	MARGARET KUCHARZ AND JAMES C KUCHARZ	962	270
711	10*22412	X	9-17-5	CHAD E LONGFELLOW	963	124
712	10*22599	X	9-17-5	BRYANT R SWIFT AND KATHY SWIFT	966	456
713	10*22776	X	9-17-5	JAMES ROBERT WELLS	970	19
714	10*22849	X	9-17-5	NEIL MCELROY AND SUE MASON MCELROY	977	44
715	10*22851	X	9-17-5	JOHN J HELLSTERN AND LYNN D HELLSTERN	977	39
716	10*22853	X	9-17-5	RONALD LEE HENSLEY AND MARY ANN HENSLEY	977	34
717	10*23076	X	9-17-5	JACK R BERISFORD AKA RANDY BERISFORD	984	43
718	10*23260	X	9-17-5	IDA M TRAVIS ET AL DAVID C WHITE AS SPECIAL COMMISSIONER	988	73
719	10*23668	X	9-17-5	THE ESTATE OF RUTH N LUTHER SUZANNE L WOZNIAK EXECUTRIX	1009	286
720	10*47051.219.1	X	9-17-5	DAVID LEE FRANKLIN	874	312
721	10*47051.219.27	X	9-17-5	MARSHA BERISFORD	902	425
722	10*47051.219.36	X	9-17-5	GAREN MCDOWELL AND EUZABETH MCDOWELL	898	615
723	10*47051.185.1	Y	9-17-39	HOMER L SIMMONS AND GLADYS R SIMMONS	885	68
724	10*47051.185.2	Y	9-17-39	LUCINDA RAE ALLEN AND DAVID A ALLEN	894	482
725	10*47051.185.3	Y	9-17-39	ANITA DIANE ANTILL AND TERRY ANTILL	885	71
726	10*47051.185.1	Z	9-17-38	HOMER L SIMMONS AND GLADYS R SIMMONS	885	68
727	10*47051.185.2	Z	9-17-38	LUCINDA RAE ALLEN AND DAVID A ALLEN	894	482
728	10*47051.185.3	Z	9-17-38	ANITA DIANE ANTILL AND TERRY ANTILL	885	71
729	10*47051.185.1	AA	9-17-38.1	HOMER L SIMMONS AND GLADYS R SIMMONS	885	68
730	10*47051.185.2	AA	9-17-38.1	LUCINDA RAE ALLEN AND DAVID A ALLEN	894	482
731	10*47051.185.3	AA	9-17-38.1	ANITA DIANE ANTILL AND TERRY ANTILL	885	71
732	10*18610	BB	9-19-2	NEIL ROBERT YOUNG	934	636
733	10*18614	BB	9-19-2	MICHAEL A WALKER	934	607
734	10*18615	BB	9-19-2	MARK A WALKER	934	609
735	10*18616	BB	9-19-2	CHAD A YOUNG	934	611
736	10*18625	BB	9-19-2	LOIS ELAINE WICKHAM	934	632
737	10*18626	BB	9-19-2	CLARA SUE YOUNG	934	634
738	10*19409	BB	9-19-2	CAROLYN J YOUNG	939	291
739	10*19667	BB	9-19-2	ERIC J YOUNG	937	375
740	10*19669	BB	9-19-2	RONALD W YOUNG	937	373
741	10*19670	BB	9-19-2	RONALD R YOUNG AND GERALDINE YOUNG	937	368
742	10*19671	BB	9-19-2	MELISSA D FLETCHER & SCOTT A FLETCHER	938	316
743	10*21343	BB	9-19-2	LELAND SINCLAIR YOUNG	945	649
744	10*21489	BB	9-19-2	ALEXA B YOUNG	957	299
745	10*21518	BB	9-19-2	SUSAN C YOUNG	949	203
746	10*21568	BB	9-19-2	LARRY R BONAR AND DEBRA L BONAR	957	399
747	10*21573	BB	9-19-2	CARLA J SIMMS	957	397
748	10*21576	BB	9-19-2	ALICE F WINLAND	957	395
749	10*21577	BB	9-19-2	MICHAEL S OTT AND SYBIL OTT	957	446
750	10*21739	BB	9-19-2	CRYSTAL DAWN YOUNG	957	413
751	10*21740	BB	9-19-2	HOLLY A YOUNG	957	415
752	10*21742	BB	9-19-2	GRANT D RICHARDS AND KERRI S RICHARDS	957	456
753	10*21743	BB	9-19-2	SHIRLEY KOONTZ POA KELLU KOONTZ BENLINE	957	454
754	10*22022	BB	9-19-2	PENNY YODER AND KEVIN LYNN YODER	952	356
755	10*22057	BB	9-19-2	RONALD R YOUNG	960	584
756	10*22600	BB	9-19-2	AIDEN BOYD YOUNG JENNIFER A YOUNG, PETITIONER	966	462
757	10*15802	CC	9-17-37	TOM GOULDSBERRY	683	640
758	10*15803	CC	9-17-37	CHARLOTTE CROW	683	631
759	10*15804	CC	9-17-37	JOE GOULDSBERRY	683	637
760	10*15805	CC	9-17-37	MARY ELLEN CHAMBERS	694	82
761	10*15806	CC	9-17-37	JOANNE FOX	683	634
762	10*15807	CC	9-17-37	GLORIS VAN SCYOC	685	190
763	10*15808	CC	9-17-37	ANGELA YOHO	685	193
764	10*15809	CC	9-17-37	RYAN J AND MICHELE L RIDDLE	687	225
765	10*15810	CC	9-17-37	FLOSSIE P RUTAN	690	266
766	10*15811	CC	9-17-37	SANDRA M WINSLOW	719	51
767	10*21969	CC	9-17-37	MARK WESLEY RICHARDSON	960	507

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FILE NO. 8811P14HUR3.dwg
KEITH STERN N-14HU-REV3

DATE MAY 29, 20 19

REVISED JUNE 10, 2019 & JUNE 17, 2019

OPERATORS WELL NO. KEITH STERN N-14HU

API WELL NO. 47

STATE _____ COUNTY _____ PERMIT _____



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



P.S.
849

C. Victor Moyers

WELL OPERATOR TUG HILL OPERATING, LLC
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500
FORT WORTH, TX 76107

DESIGNATED AGENT DIANNA STAMPER
CT CORPORATION SYSTEM
ADDRESS 5400 D BIG TYLER ROAD
CHARLESTON, WV 25313

COUNTY NAME

PERMIT

47 05 + 022 5 2

1071935	D	9-14-23	SAM E STANC	THE EXPLORATION LLC	1/84	948	533	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A					
1071935	D	9-14-23	SHERWOOD MASON MAYLUE BASKIN	THE EXPLORATION LLC	1/84	948	255	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
1071990	D	9-14-23	EMMA J. CORNWELL	THE EXPLORATION LLC	1/84	948	551	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
1071028	D	9-14-23	BRENDA GILBERT	THE EXPLORATION LLC	1/84	951	139	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
1071004	D	9-14-23	KATHERINE DEBROOT AND DANIEL DEBROOT	THE EXPLORATION LLC	1/84	951	151	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1071111	D	9-14-23	JONNA G. AND PAUL L CHAMBERS	THE EXPLORATION LLC	1/84	951	154	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1071209	D	9-14-23	CHARLES W WILLIAMSON JR	THE EXPLORATION LLC	1/84	951	157	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1071228	D	9-14-23	CHARLES P HORNBER & CORDELL S HORNBER	THE EXPLORATION LLC	1/84	952	434	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1071229	D	9-14-23	TARA E CAUSEY	THE EXPLORATION LLC	1/84	952	432	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1071295	D	9-14-23	DANIEL L LAMBERS AND JOAN L LAMBERS	THE EXPLORATION LLC	1/84	956	625	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1071296	D	9-14-23	MICHAEL O DICKER	THE EXPLORATION LLC	1/84	956	647	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1071641	D	9-14-23	JOSPH A AMPBY AND MIRGHANAME AMPBY	THE EXPLORATION LLC	1/84	955	631	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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1071843	D	9-14-23	ROBERT LUNDQVIST AND LIBERTY JANE LUNDQVIST	THE EXPLORATION LLC	1/80	955	828	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A											
1071860	D	9-14-23	DANIEL E WILLIAMSON AND KATHERINE WILLIAMSON	THE EXPLORATION LLC	1/80	957	133	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
1071863	D	9-14-23	ORNDUL ALLEY JR	THE EXPLORATION LLC	1/80	958	64	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
1071867	D	9-14-23	KARHUJENG WILLIAMSON	THE EXPLORATION LLC	1/80	957	328	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
1071869	D	9-14-23	WILLIAM BRIAN COLLEY	THE EXPLORATION LLC	1/80	959	637	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A					
1071873	D	9-14-23	MICHAEL WYNNE ALLEY AND LINDA ALLEY	THE EXPLORATION LLC	1/80	953	501	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
1071881	D	9-14-23	JOHN WILLIAMSON JR	THE EXPLORATION LLC	1/80	960	26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
1071972	D	9-14-23	CATHERINE AND ERNEST M SILVERO	THE EXPLORATION LLC	1/80	960	596	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
1071979	D	9-14-23	CHARLES SEAMON	THE EXPLORATION LLC	1/80	954	300	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1071991	D	9-14-23	THE DANIEL RYAN TRUST KIMBERLY MAZZE TRUSTEE	THE EXPLORATION LLC	1/80	953	341	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
1071997	D	9-14-23	MICHAEL SAUNDERS AND AMY SAUNDERS	THE EXPLORATION LLC	1/80	953	556	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1072004	D	9-14-23	SCOTT BRUNO WILLIAMSON	THE EXPLORATION LLC	1/80	953	507	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

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1072301	D	9-14-23	JUNCA & AND MICHAEL HUMES	AMERICAN PETROLEUM PARTNERS LLC	1/86	368	372	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	42/109 American Petroleum Partners Operating Co TH Exploration LLC	42/109 American Petroleum Partners Operating Co TH Exploration LLC
1072307	D	9-14-23	JAMES W WILSON	AMERICAN PETROLEUM PARTNERS LLC	1/86	366	315	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	42/109 American Petroleum Partners Operating Co TH Exploration LLC	42/109 American Petroleum Partners Operating Co TH Exploration LLC
1072375	D	9-14-23	DANINA LEASHERRAD	TH EXPLORATION LLC	1/86	300	30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1072376	D	9-14-23	DANIE E COCHMAN AND GLEN ANN COCHMAN	TH EXPLORATION LLC	1/86	372	40	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1072383	D	9-14-23	PAUL W MORRIS SR AND COURT MORRIS	TH EXPLORATION LLC	1/86	366	485	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1072388	D	9-14-23	JULIA MCEWOCKS	TH EXPLORATION LLC	1/86	377	30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1072384	D	9-14-23	SUZAN KLINE	TH EXPLORATION LLC	1/86	377	32	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1072378	D	9-14-23	ALBERT E BILLY	TH EXPLORATION LLC	1/86	377	26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1072379	D	9-14-23	BRIAN O BILLY	TH EXPLORATION LLC	1/86	377	28	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1072348	D	9-14-23	IDA A MATEY AND J ALVEY	HOPE NATURAL GAS CO	1/86	117	45	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1072397	E	9-14-20-3	BRYANT CROW AND BETTY CROW	CHEBAYAKE Appalachia LLC	1/86	768	350	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1072398	E	9-14-20-3	GARY SCSOV	CHEBAYAKE Appalachia LLC	1/86	769	609	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hope Natural Gas Company to Consolidated Gas Supply Corp. 3/7/23 Consolidated Gas Supply Corp to Consolidated Gas Transmission Corp. 5/6/26 Consolidated Gas Transmission Corp to Consolidated Gas Development Company. 3/19/8 CHE Development Company merged into CHE Producing Company 4/17/200 CHE Producing Company merged into Dominion Production & Overseas Properties Inc. 4/17/200 Dominion Exploration & production Inc changed its name to Central Gas Company. 10/26/8 Central Gas Company merged with and into CHE Gas Company LLC. 3/17/10 CHE Gas Company LLC merged with and into TH Exploration LLC. 4/27/80 CHE Gas Company LLC merged with and into CHE Gas Company LLC. 4/27/80 CHE Gas Company LLC merged with and into CHE Gas Company LLC. 4/27/80												31/279 Chesapeake Appalachia LLC to Statoil Overseas Properties Inc. 4/17/200 33/424 Statoil USA Overseas Properties Inc. 10/26/8 33/110 Chesapeake Appalachia LLC to SWN Production Company LLC 19/624 Cent. of Merger - SWN Exchange to SWN Production Company LLC 36/433 SWN Production Company LLC to TH Exploration LLC 36/455 Statoil USA Overseas Properties Inc. to TH Exploration LLC												

4705 + 02252

10*19822	M	9-14-2	KENNETH D. SIBURT JR AND LOIS SIBURT	THE EXPLORATION, LLC	1/8%	938	597	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*19821	M	9-14-2	MARIE RUTH RICHMOND	THE EXPLORATION, LLC	1/8%	938	595	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*19823	M	9-14-2	JAMONIA SIBURT PROWSE & GEORGE CRISTIANI	THE EXPLORATION, LLC	1/8%	938	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*19827	M	9-14-2	RONALD STOLING	THE EXPLORATION, LLC	1/8%	944	132	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*19825	M	9-14-2	CHESTNUT HOLDINGS INC	THE EXPLORATION, LLC	1/8%	949	399	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*19828	M	9-14-2	WILLIAM G. JOHNS	THE EXPLORATION, LLC	1/8%	944	188	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*19829	M	9-14-2	DAVID A. DERRICK SR AND ANITA SLOUGH DERRICK	THE EXPLORATION, LLC	1/8%	946	54	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*19725	M	9-14-2	WALTER V. ARNOLD	THE EXPLORATION, LLC	1/8%	944	454	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*19133	M	9-14-2	JAMES SIBURT AND DECUA DERRICK	THE EXPLORATION, LLC	1/8%	957	177	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*19134	M	9-14-2	VANCEI CHERRY AND RICEY E. CHERRY	THE EXPLORATION, LLC	1/8%	949	139	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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10*23215	M	9-14-2	ALAN E. SIBERT ET UX	THE EMPLOYMENT, LLC	1/89	969	138	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA									
10*23216	M	9-14-2	RONALD E. SIBERT	THE EMPLOYMENT, LLC	1/89	969	142	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
10*23259	M	9-14-2	GARY L. BAZZANO NATHAN BRIANNO SHERIDAN BRUCE RICHARD BRECKENRIDGE TRUST	THE EMPLOYMENT, LLC	1/89	957	388	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
10*23264	M	9-14-2	CONNOR KYLE	THE EMPLOYMENT, LLC	1/89	964	470	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
10*23265	M	9-14-2	LOS ANGELES MAYOR KIMBLE	THE EMPLOYMENT, LLC	1/89	964	422	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
10*23266	M	9-14-2	LUCY H. MAW CONNER	THE EMPLOYMENT, LLC	1/89	964	468	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
10*23216	M	9-14-2	SHARON ROSSER	THE EMPLOYMENT, LLC	1/89	964	464	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
10*23218	M	9-14-2	GEORGE EDWARDS	THE EMPLOYMENT, LLC	1/89	964	466	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
10*23265	M	9-14-2	CHARLES W. WILDER AND ESTHER JEAN WILDER	THE EMPLOYMENT, LLC	1/89	977	51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
10*23235	M	9-14-2	LUCY C. ARNOLD & JUDITH C. ARNOLD	THE EMPLOYMENT, LLC	1/89	1008	301	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10*23261	N	9-14-1	MARK M. H. WILSON	THE EMPLOYMENT, LLC	1/89	958	595	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*18822	N	9-14-1	KENNETH J. SIBERT JR AND DORIS SIBERT	THE EMPLOYMENT, LLC	1/89	958	597	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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JO*19608	5	9-17-2	CAROLYN YOUNG	THE CORPORATION LLC	1/8*	940	149	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A									
JO*19608	5	9-17-2	ROSE HILL AMERAS PROPERTIES LLC	THE CORPORATION LLC	1/8*	941	446	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A							
JO*19612	5	9-17-2	CYNTHIA K EINHORFF	THE CORPORATION LLC	1/8*	942	937	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
JO*19618	5	9-17-2	RONALD W YOUNG	THE CORPORATION LLC	1/8*	917	371	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
JO*19619	5	9-17-2	ERIC YOUNG	THE CORPORATION LLC	1/8*	917	377	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A					
JO*19620	5	9-17-2	RONALD S YOUNG AND GERALDINE YOUNG	THE CORPORATION LLC	1/8*	917	385	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A					
JO*19624	5	9-17-2	JOHN T TINGLING	THE CORPORATION LLC	1/8*	944	299	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
JO*19628	5	9-17-2	MELISSA D HENDER & SCOTT M HENDER	THE CORPORATION LLC	1/8*	918	138	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
JO*19713	5	9-17-2	MARISA BERTROND	THE CORPORATION LLC	1/8*	944	452	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
JO*19879	5	9-17-2	MARY V GILSON AND WALTER M GILSON	THE CORPORATION LLC	1/8*	945	558	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
JO*19933	5	9-17-2	MARTIN AMERAS	THE CORPORATION LLC	1/8*	948	555	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
JO*21236	5	9-17-2	FRANK WORSER AND RON LUMMICOBI	THE CORPORATION LLC	1/8*	951	468	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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4706	02252	5	9-17-2	LEAND SINGLETON YOUNG	THE EROGATION LLC	128-	966	32	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
4706	02252	5	9-17-2	DENNIS REBEREK AND SHARON REBEREK	THE EROGATION LLC	128-	956	645	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		5	9-17-2	RONNIE ANDERSON & CAROL ANN ANDERSON	THE EROGATION LLC	128-	957	294	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		5	9-17-2	ALEXA YOUNG	THE EROGATION LLC	128-	957	296	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
		5	9-17-2	SUDAN C YOUNG	THE EROGATION LLC	128-	949	201	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
		5	9-17-2	CECAL SWANK	THE EROGATION LLC	128-	957	452	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
		5	9-17-2	MICHAEL SCOTT AND STELL OTT	THE EROGATION LLC	128-	957	469	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
		5	9-17-2	MICHEL WINKLANO	THE EROGATION LLC	128-	957	460	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
		5	9-17-2	CRYSTAL DAWN YOUNG	THE EROGATION LLC	128-	957	409	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
		5	9-17-2	HOLLIV A YOUNG	THE EROGATION LLC	128-	957	411	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
		5	9-17-2	GAMM D RICHMOND AND KERRI S RICHMOND	THE EROGATION LLC	128-	957	459	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
		5	9-17-2	JOSEPH HERRONHOFER	THE EROGATION LLC	128-	959	653	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			

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JP23127	5	9-17-2	LUKE F. BOWMAN AND DEBRA L. BOWMAN	THE ERIEGATORIAN LLC	128*	977	456	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A									
JP23124	5	9-17-2	DONALD EUGENE ANDERSON	THE ERIEGATORIAN LLC	128*	993	599	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A					
JP23289	5	9-17-2	BRUNY F. SMYTH AND SHERI SWIFT	THE ERIEGATORIAN LLC	128*	965	455	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
JP23260	5	9-17-2	ADRIAN BORN DURING RICHARD A. YOUNG, PETITIONER	THE ERIEGATORIAN LLC	128*	966	452	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A					
JP23278	5	9-17-2	JAMES ROBERT WATKINS	THE ERIEGATORIAN LLC	128*	970	19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A					
JP23289	5	9-17-2	WILL V. LECHELY AND DOR MAURON WAGNER	THE ERIEGATORIAN LLC	128*	977	44	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
JP23281	5	9-17-2	JOHN J. HELSTERN AND LYNN D. HELSTERN	THE ERIEGATORIAN LLC	128*	977	39	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
JP23283	5	9-17-2	RONALD E. HIRSHLEY AND MAURAN HIRSHLEY	THE ERIEGATORIAN LLC	128*	977	34	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
JP23276	5	9-17-2	JACK J. HERRON, M.A. RICHARD BERESFORD	THE ERIEGATORIAN LLC	128*	984	43	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
JP23280	5	9-17-2	DANIEL TRINNET F. DAVO CHRISTIE S. SPICHA COMMISSIONER	THE ERIEGATORIAN LLC	128*	988	73	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
JP23289	5	9-17-2	STEVEN HILL MIERELAS HOLDINGS LLC	THE ERIEGATORIAN LLC	128*	1030	124	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
JP23288	5	9-17-2	THE ESTATE OF RICHARD W. DANKA DECEDENT	THE ERIEGATORIAN LLC	128*	1099	288	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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1071827	U	9-17-4	LEO CHAFF AND BETTYM HINE	THE CORPORATION LLC	1/8+	924	531	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1071827	U	9-17-4	BRANNEE DUNCORTY	THE CORPORATION LLC	1/8+	925	399	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1071829	U	9-17-4	AMITA MEHROTRA	THE CORPORATION LLC	1/8+	925	370	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1071831	U	9-17-4	MICHAEL SWEET AND MICHOYLA SWIFT	THE CORPORATION LLC	1/8+	925	372	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1071831	U	9-17-4	LEE ANNE ELLER	THE CORPORATION LLC	1/8+	927	223	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1071832	U	9-17-4	DANIEL MACKAY AND CRYSTAL MACKAY	THE CORPORATION LLC	1/8+	927	283	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1071833	U	9-17-4	JENNIFER WHEATON	THE CORPORATION LLC	1/8+	927	289	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1071834	U	9-17-4	RONNIE GOSSEL	THE CORPORATION LLC	1/8+	927	231	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1071835	U	9-17-4	TRINIA HALEY AND GEOFFRAY HALEY	THE CORPORATION LLC	1/8+	927	287	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1071836	U	9-17-4	USA ANN MCCONELL AND ROBERT JOSEPH HILL	THE CORPORATION LLC	1/8+	929	283	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1071839	U	9-17-4	RAE ELLEN HODG AND KENNETH HODG	THE CORPORATION LLC	1/8+	927	231	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1071840	U	9-17-4	AMITA MEHROTRA	THE CORPORATION LLC	1/8+	927	228	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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1072889	U	9-17-4	HEI WEEBOY AND SIE MAKON MCLEARY	THE EPOCATION LLC	148*	977	44	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
1072891	U	9-17-4	JOHN HELSTEN AND LYNN HELSTEN	THE EPOCATION LLC	148*	977	39	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1072893	U	9-17-4	TRAVIS LEISINGER AND BRENDA WINTERBERRY	THE EPOCATION LLC	148*	977	34	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1072905	U	9-17-4	JACK BERSOND MA RAYD BERSOND	THE EPOCATION LLC	148*	964	49	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1072906	U	9-17-4	DAMIAN TRAVESTI ALDAMO CAMHE AS SPECIAL COMMISSIONER	THE EPOCATION LLC	148*	968	75	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1072908	U	9-17-4	THE ESTATE OF RUTH WOODRIDGE BENTON WOODRIDGE BENTON	THE EPOCATION LLC	148*	1009	286	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1072911	U	9-17-4	DAVID LEE FRANKLIN	THE EPOCATION LLC	148*	874	312	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1072912	U	9-17-4	MARISA BERSOND	THE EPOCATION LLC	148*	902	452	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
1072913	U	9-17-4	SONJA HALE AND ALIDA HALE	THE EPOCATION LLC	148*	888	602	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
1072915	U	9-17-4	GABRIEL MCCORMELL AND ELDON MCCORMELL	THE EPOCATION LLC	148*	888	452	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
1072917	U	9-17-4	SONJA HALEY	THE EPOCATION LLC	148*	888	421	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
1072919	U	9-17-4	NATHAN MCCORMELL AND SETH MCCORMELL	THE EPOCATION LLC	148*	902	431	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

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JP1382	V	5-17-43	ANTHONY E. KATZ AND TERESA M. KATZ	CHESAPEAKE APPLICABLE LTC	1/8	743	85	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
JP1387	V	5-17-43	ANTHONY E. KATZ AND TERESA M. KATZ	CHESAPEAKE APPLICABLE LTC	1/8	743	85	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
JP1388	V	5-17-43	ANTHONY E. KATZ AND TERESA M. KATZ	CHESAPEAKE APPLICABLE LTC	1/8	743	85	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
JP1389	V	5-17-43	ANTHONY E. KATZ AND TERESA M. KATZ	CHESAPEAKE APPLICABLE LTC	1/8	743	85	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
JP1390	V	5-17-43	ANTHONY E. KATZ AND TERESA M. KATZ	CHESAPEAKE APPLICABLE LTC	1/8	743	85	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
JP1391	V	5-17-43	ANTHONY E. KATZ AND TERESA M. KATZ	CHESAPEAKE APPLICABLE LTC	1/8	743	85	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
JP1392	V	5-17-43	ANTHONY E. KATZ AND TERESA M. KATZ	CHESAPEAKE APPLICABLE LTC	1/8	743	85	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
JP1393	V	5-17-43	ANTHONY E. KATZ AND TERESA M. KATZ	CHESAPEAKE APPLICABLE LTC	1/8	743	85	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
JP1394	V	5-17-43	ANTHONY E. KATZ AND TERESA M. KATZ	CHESAPEAKE APPLICABLE LTC	1/8	743	85	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
JP1395	V	5-17-43	ANTHONY E. KATZ AND TERESA M. KATZ	CHESAPEAKE APPLICABLE LTC	1/8	743	85	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
JP1396	V	5-17-43	ANTHONY E. KATZ AND TERESA M. KATZ	CHESAPEAKE APPLICABLE LTC	1/8	743	85	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
JP1397	V	5-17-43	ANTHONY E. KATZ AND TERESA M. KATZ	CHESAPEAKE APPLICABLE LTC	1/8	743	85	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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10719269	V	9-17-13	EDWARD T. GIBSON & WALTER M. GIBSON PARTNERSHIP	THE EXERCISE COMPANY LLC	1/8 ⁺	944	156	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A									
10719270	V	9-17-13	WV ANTRACITE, INC.	THE EXERCISE COMPANY LLC	1/8 ⁺	951	108	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
10719118	V	9-17-13	CHESTER & KENNETH BISHOP PARTNERSHIP	THE EXERCISE COMPANY LLC	1/8 ⁺	944	412	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
10719289	V	9-17-13	MARY T. GIBSON AND WALTER M. GIBSON	THE EXERCISE COMPANY LLC	1/8 ⁺	945	538	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
10719293	V	9-17-13	MARY ANN GIBSON	THE EXERCISE COMPANY LLC	1/8 ⁺	948	555	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
10719297	V	9-17-13	JAMES C. STEWART AND ROBERT W. STEWART	THE EXERCISE COMPANY LLC	1/8 ⁺	949	151	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10719288	V	9-17-13	JOHN H. STEWART AND LYDIA STEWART	THE EXERCISE COMPANY LLC	1/8 ⁺	949	144	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1072008	V	9-17-13	NANCY M. MORGAN	THE EXERCISE COMPANY LLC	1/8 ⁺	951	110	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1072111	V	9-17-13	NOLA JEAN BARTIS	THE EXERCISE COMPANY LLC	1/8 ⁺	951	118	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10721841	V	9-17-13	EBERHARD DEEPP RESOURCES INC	THE EXERCISE COMPANY LLC	1/8 ⁺	959	651	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10721843	V	9-17-13	JOSEPH MORGANI	THE EXERCISE COMPANY LLC	1/8 ⁺	959	652	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10721937	V	9-17-13	BLACK GOLD GROUP LTD	THE EXERCISE COMPANY LLC	1/8 ⁺	964	424	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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07-2313	V	9-17-43	CHAD CONDELOW	THE CORPORATION LLC	1/8-	963	134	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
07-2329	V	9-17-43	BRUNN R SWIFT AND KATHY SWIFT	THE CORPORATION LLC	1/8-	965	455	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
07-2326	V	9-17-43	JAMES ROBERT WELLS	THE CORPORATION LLC	1/8-	970	19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
07-2389	V	9-17-43	NEL WELSH AND RIE MASON MCELROY	THE CORPORATION LLC	1/8-	977	44	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
07-2381	V	9-17-43	JOHN H HULSTERN AND LYNN D HULSTERN	THE CORPORATION LLC	1/8-	977	39	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
07-2383	V	9-17-43	RONALD E RINKER AND BRANTY ANN RINKER	THE CORPORATION LLC	1/8-	977	34	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
07-2376	V	9-17-43	JACK E BERSOND AND RANDI BERSOND	THE CORPORATION LLC	1/8-	984	43	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
07-2380	V	9-17-43	IDA M TRIVETT ALI AND CHARLE K SPICHAL COMMISSIONER	THE CORPORATION LLC	1/8-	985	73	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
07-2388	V	9-17-43	THE STATE OF RHINH LAUREN SQUARTZ AND BRYAN SQUARTZ	THE CORPORATION LLC	1/8-	1009	298	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
07-4951-135.1	V	9-17-43	DAVID LEE FRANKLIN	THE CORPORATION LLC	1/8-	874	313	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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10T7880	W	9-17-13	JAYLA BEE MILLER	THE EXPLORATION LLC	1/84	925	370	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
10T7881	W	9-17-13	MICHAEL L SWIFT AND MELISSA A SWIFT	THE EXPLORATION LLC	1/84	925	372	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
10T7891	W	9-17-13	LEE ANNE MILLER	THE EXPLORATION LLC	1/84	927	322	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
10T7892	W	9-17-13	DAVID MCCOY AND CRYSTAL MCCOY	THE EXPLORATION LLC	1/84	927	283	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
10T7893	W	9-17-13	RUBEN WICKSON	THE EXPLORATION LLC	1/84	927	388	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
10T7894	W	9-17-13	BONNIE GIBBELL	THE EXPLORATION LLC	1/84	927	231	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10T7895	W	9-17-13	TERRY WALTER AND GEORGIA WALTER	THE EXPLORATION LLC	1/84	927	287	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10T7896	W	9-17-13	USA NINA MCCOY AND ROBERT MCCOY	THE EXPLORATION LLC	1/84	929	263	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10T8009	W	9-17-13	RAE ELLIOTT AND KENNETH LLOYD	THE EXPLORATION LLC	1/84	927	233	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10T8107	W	9-17-13	AMITA WARE	THE EXPLORATION LLC	1/84	927	238	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10T8107	W	9-17-13	KEI CAL AND MELINDA CAL	THE EXPLORATION LLC	1/84	927	482	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10T8185	W	9-17-13	SONIA YAMAGAWA	THE EXPLORATION LLC	1/84	927	488	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

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DP18186	W	9-17-43	KAREN WILLIAMS	THE CORPORATION LLC	126	927	528	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A																
DP18187	W	9-17-43	MAREN MCCONELL AND MARIS O'CONNOR	THE CORPORATION LLC	126	927	533	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
DP18188	W	9-17-43	STEPHEN K MASON AND CAROL K MASON	THE CORPORATION LLC	126	928	525	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A									
DP18189	W	9-17-43	CAROL JEE HURTY AND MARTIN J HURTY	THE CORPORATION LLC	126	909	155	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A									
DP18190	W	9-17-43	PAULETTE ARTER AND GREG MERTIN	THE CORPORATION LLC	126	928	520	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A									
DP18191	W	9-17-43	BARBARA BUELEY AND DAVID BUELEY	THE CORPORATION LLC	126	928	541	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
DP18192	W	9-17-43	MARY HELENA SOLEAU AND THOMAS SOLEAU	THE CORPORATION LLC	126	928	543	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A								
DP18193	W	9-17-43	LAWRENCE J WILSON AND DALE WILSON	THE CORPORATION LLC	126	928	533	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A							
DP18194	W	9-17-43	GEMMA BRYAN AND THOMAS BRYAN	THE CORPORATION LLC	126	928	534	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
DP18195	W	9-17-43	THOMAS BAKER AND VICKI E BAKER	THE CORPORATION LLC	126	929	262	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
DP18196	W	9-17-43	HAILEIGH BRIDGES	THE CORPORATION LLC	126	929	272	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
DP18197	W	9-17-43	ROBERT W COOPER AND OSGONDA L COOPER	THE CORPORATION LLC	126	929	283	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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LP-19933	W	5-17-42	CHOT STEVENS TORBER THE CORPORATION LLC	1289	937	628	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
LP-19903	W	5-17-42	RESCA WILSON THE CORPORATION LLC	1289	931	411	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LP-19904	W	5-17-42	LAMERGE ELIOTZ THE CORPORATION LLC	1289	951	114	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
LP-19904	W	5-17-42	HOWARD W. CAIN AND GMAA JEAN CAIN THE CORPORATION LLC	1289	939	283	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
LP-19908	W	5-17-42	WYONIA ROOZE THE CORPORATION LLC	1289	941	331	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
LP-19889	W	5-17-42	EDMOND TURSCON JR LINDA STEVENS TURSCON THE CORPORATION LLC	1289	944	135	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
LP-19902	W	5-17-42	WV NURSERY INC THE CORPORATION LLC	1289	951	108	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
LP-19918	W	5-17-42	CHESTER DAUGHERTY & ASSOCIATES DAUGHERTY THE CORPORATION LLC	1289	944	413	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
LP-19879	W	5-17-42	MARY JEANSON AND WALTER MCGILLO THE CORPORATION LLC	1289	945	398	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
LP-19933	W	5-17-42	MARY ANN GREGG THE CORPORATION LLC	1289	948	555	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
LP-19937	W	5-17-42	JAMES D STEVENS AND LINDA STEVENS THE CORPORATION LLC	1289	949	151	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
LP-19938	W	5-17-42	JONNY STEVENS AND LINDA STEVENS THE CORPORATION LLC	1289	949	144	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			

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JPT001.11931		W	5-17-42	DAVID L. FRANKLIN	THE ESTATE OF DAVID L. FRANKLIN	TH EFGOATION LLC	1/8 ⁺	871	312	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
JPT001.11932		W	5-17-42	MARGA BERGROD	THE ESTATE OF MARGA BERGROD	TH EFGOATION LLC	1/8 ⁺	502	425	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
JPT001.11933		W	5-17-42	JOHN H. HILL AND ALIDA HILL	THE ESTATE OF JOHN H. HILL AND ALIDA HILL	TH EFGOATION LLC	1/8 ⁺	898	607	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
JPT001.11936		W	5-17-42	GREGG M. MCCOY AND ELIZABETH MCCOY	THE ESTATE OF GREGG M. MCCOY AND ELIZABETH MCCOY	TH EFGOATION LLC	1/8 ⁺	888	615	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
JPT001.11937		W	5-17-42	SUSAN HIGBY	THE ESTATE OF SUSAN HIGBY	TH EFGOATION LLC	1/8 ⁺	898	621	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
JPT001.11938		W	5-17-42	THOMAS M. MCCOY AND CHRISTINA MCCOY	THE ESTATE OF THOMAS M. MCCOY AND CHRISTINA MCCOY	TH EFGOATION LLC	1/8 ⁺	907	637	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
JPT001.11939		W	5-17-42	MARCUS H. HARRISON AND WESTON HARRISON	THE ESTATE OF MARCUS H. HARRISON AND WESTON HARRISON	TH EFGOATION LLC	1/8 ⁺	907	437	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
JPT1806		X	5-17-42	LINDA K. ALLEN AND DAVID A. ALLEN	THE ESTATE OF LINDA K. ALLEN AND DAVID A. ALLEN	THE EFGOATION LLC	1/8 ⁺	742	79	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

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IP#12188	X	9-17-15	ANTHONY ANTONI AND TERESA ANTONI	CESPEAKE APPLICATA LLC	1/8-	721	85	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A											
IP#12187	X	9-17-15	MONTE SIMONS AND DORETTA SIMONS	CESPEAKE APPLICATA LLC	1/8-	721	329	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
IP#12186	X	9-17-15	MARY LOU HITEBERGER and WILLIAM M HITEBERGER	CESPEAKE APPLICATA LLC	1/8-	729	436	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IP#12185	X	9-17-15	AMAL LYNN SCOTC	CESPEAKE APPLICATA LLC	1/8-	693	424	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
IP#12171	X	9-17-15	GRAHAM MOGERT	CESPEAKE APPLICATA LLC	1/8-	699	631	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
IP#12172	X	9-17-15	LONDA EWMS	CESPEAKE APPLICATA LLC	1/8-	694	526	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
IP#12160	X	9-17-15	TRACY L AND KATH W BARNER	THE EXPOSITION LLC	1/8-	916	118	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
IP#12165	X	9-17-15	LILA AKE BOWEN SPOONKUS AND DONALD SPOONKUS	THE EXPOSITION LLC	1/8-	949	123	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
IP#12161	X	9-17-15	JAMES REBER COOKMAN	THE EXPOSITION LLC	1/8-	932	567	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
IP#12162	X	9-17-15	JACQUELINE FERRARI AND DON C FERRARI	THE EXPOSITION LLC	1/8-	949	177	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
IP#12169	X	9-17-15	DAVID GONCALVES	THE EXPOSITION LLC	1/8-	949	167	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
IP#12165	X	9-17-15	ROBERTA YOUNG	THE EXPOSITION LLC	1/8-	949	163	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			

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LOT1260	X	9-17-5	RONALD D KOONTZ & BETH ANN KOONTZ	THE CORPORATION LLC	1/8-	943	493	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A											
LOT1266	X	9-17-5	AMBERLEIGH HARRIS AND HOWARD RONALD HARRIS	THE CORPORATION LLC	1/8-	931	536	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
LOT1267	X	9-17-5	LEO CHARLE AND BETTIE HURF	THE CORPORATION LLC	1/8-	914	511	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
LOT1277	X	9-17-5	BENNIE DAUGHERTY	THE CORPORATION LLC	1/8-	925	399	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
LOT1269	X	9-17-5	MARITANE MILLER	THE CORPORATION LLC	1/8-	926	370	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
LOT1281	X	9-17-5	MICHAEL E SWIFT AND MARGUERITE SWIFT	THE CORPORATION LLC	1/8-	925	372	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
LOT12619	X	9-17-5	SOON HEY	THE CORPORATION LLC	1/8-	927	272	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
LOT12620	X	9-17-5	ALICE THOMPSON AND SCOTT THOMPSON	THE CORPORATION LLC	1/8-	927	270	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
LOT12621	X	9-17-5	LEE ANNE MILLER	THE CORPORATION LLC	1/8-	927	222	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LOT12623	X	9-17-5	DAVID MCDOWELL AND CRISTAL MCDOWELL	THE CORPORATION LLC	1/8-	927	283	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
LOT12629	X	9-17-5	EMERSON WILKINSON	THE CORPORATION LLC	1/8-	927	289	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LOT12694	X	9-17-5	BONNIE GIBBELL	THE CORPORATION LLC	1/8-	927	231	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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LO#18086	X	9-17-15	TERNYL MILLER AND GEORGIA MILLER	THE EXPOSITION LLC	184	927	287	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
LO#18088	X	9-17-15	LEAH MCCOY AND ROBERT JOSEPHAL	THE EXPOSITION LLC	184	929	283	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
LO#18099	X	9-17-15	PAUL ELLIOTT AND KENNETH HAYDON	THE EXPOSITION LLC	184	927	233	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
LO#18107	X	9-17-15	AMTA MAE MASON	THE EXPOSITION LLC	184	927	238	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
LO#18113	X	9-17-15	JOHN HISEL	THE EXPOSITION LLC	184	927	159	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
LO#18107	X	9-17-15	MICHAEL AND VERONICA CALL	THE EXPOSITION LLC	184	927	492	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
LO#18164	X	9-17-15	SANDRA YAMAMOTO	THE EXPOSITION LLC	184	927	488	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
LO#18169	X	9-17-15	ROBERT WILLIAMS	THE EXPOSITION LLC	184	927	652	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
LO#18179	X	9-17-15	SHERYL MARSHALL COLE AND MICHAEL COLE	THE EXPOSITION LLC	184	927	633	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
LO#18192	X	9-17-15	STEPHEN S MASON AND CANDICE MASON	THE EXPOSITION LLC	184	928	452	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
LO#18193	X	9-17-15	CAROL W. LEFFLER AND MARTIN JUDRY	THE EXPOSITION LLC	184	949	158	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LO#18194	X	9-17-15	MARLA BERGER AND CASEY STERN	THE EXPOSITION LLC	184	928	889	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

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1074339	X	9-17-5	BARBARA K GIBBLE AND DAVID R GIBBLE	TH EPCORATION LLC	178*	928	641	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1074399	X	9-17-5	MARK THERESA SCODIA AND THOMAS SCODIA	TH EPCORATION LLC	178*	928	643	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1074399	X	9-17-5	LAMARCE T VAUGHN AND GAIL VAUGHN	TH EPCORATION LLC	178*	928	537	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1074399	X	9-17-5	GEMMA RYOT AND THOMAS RYOT	TH EPCORATION LLC	178*	928	534	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1074395	X	9-17-5	THOMAS RYOT AND NICOLE SARLES	TH EPCORATION LLC	178*	929	383	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1074398	X	9-17-5	MURGEN BERGIS	TH EPCORATION LLC	178*	929	277	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1074390	X	9-17-5	ROBERT W ODUM AND CASSANDRA L ODUM	TH EPCORATION LLC	178*	929	289	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1074391	X	9-17-5	MARTIN D SMITH	TH EPCORATION LLC	178*	931	407	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1074347	X	9-17-5	CAROL L HILL	TH EPCORATION LLC	178*	932	577	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1074447	X	9-17-5	NANCY SPANGLER AND JOHN SPANGLER	TH EPCORATION LLC	178*	933	111	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1074448	X	9-17-5	CHRISTINE M ENGEL AND KEVIN ENGEL	TH EPCORATION LLC	178*	933	118	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1074503	X	9-17-5	PATRICK UMBRE SQUIRE	TH EPCORATION LLC	178*	935	351	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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DP19823	X	9-17-15	WV NUBELS INC	THE EXPLORATION LLC	128'	951	108	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
DP19828	X	9-17-15	FRANCO TURBON 8 AND CAHNT STEERIS TURBON	THE EXPLORATION LLC	128'	944	156	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DP19828	X	9-17-15	CHRISTOPHER BRADSHAW & COMPANY	THE EXPLORATION LLC	128'	944	412	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DP19829	X	9-17-15	MARY V GUSON AND WALTER M GUSON	THE EXPLORATION LLC	128'	945	528	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
DP19923	X	9-17-15	MARY ANI GREEN	THE EXPLORATION LLC	128'	948	555	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
DP19927	X	9-17-15	DAVID S STEERIS AND DONOVAN STEERIS	THE EXPLORATION LLC	128'	949	351	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
DP19928	X	9-17-15	JOHN H STEERIS AND LYNDIA STEERIS	THE EXPLORATION LLC	128'	949	144	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
DP19928	X	9-17-15	NANCY MADSON	THE EXPLORATION LLC	128'	951	110	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
DP21211	X	9-17-15	NEIL EMMAN BATES	THE EXPLORATION LLC	128'	951	118	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
DP21841	X	9-17-15	EMERY DEEP RESOURCES INC	THE EXPLORATION LLC	128'	959	631	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
DP21842	X	9-17-15	JOSEPH NEWCOM	THE EXPLORATION LLC	128'	959	655	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
DP21872	X	9-17-15	BLACK GOLD GROUP LTD	THE EXPLORATION LLC	128'	964	474	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

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WV02213	X	9-11-15	CHAD LOWMELOW	THE CORPORATION LLC	128-	969	134	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WV02399	X	9-11-15	BRYAN R SWIFT AND KATHY SWIFT	THE CORPORATION LLC	128-	865	455	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WV02376	X	9-11-15	JAMES ROBERT WELLS	THE CORPORATION LLC	128-	970	19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WV02369	X	9-11-15	NEIL MCELROY AND SUE MAGN MCELROY	THE CORPORATION LLC	128-	977	44	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WV02281	X	9-11-15	JOHN HELSTERN AND LYNN O HELSTERN	THE CORPORATION LLC	128-	977	39	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WV02283	X	9-11-15	RONALD E HINSLEY AND SALLY HINSLEY	THE CORPORATION LLC	128-	977	34	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WV02376	X	9-11-15	LEE E BERGOND MA RANDY BERGOND	THE CORPORATION LLC	128-	884	43	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WV02380	X	9-11-15	IDA M TRAVETT AL DAVIS CHRISTE M SPEICH COMMISSIONER	THE CORPORATION LLC	128-	888	73	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WV02866	X	9-11-15	THE STATE OF RHINH LANDER SQUARE E WICHAM KRISTINA	THE CORPORATION LLC	128-	1029	195	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WV02513S.1	X	9-11-15	DANIEL FRANKLIN	THE CORPORATION LLC	128-	874	312	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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ASSIGNMENT AND CONVEYANCE

This Assignment and Conveyance (this "*Assignment*") is from SWN PRODUCTION COMPANY, LLC, a Texas limited liability company ("*Assignor*"), to TH Exploration, LLC, a Texas limited liability company ("*Assignee*"), and is executed on December 18, 2017 (the "*Effective Date*"). Assignor and Assignee may be referred to herein collectively as the "*Parties*," or individually as a "*Party*." Capitalized terms used herein but not otherwise defined herein (including in Section 3.7) shall have the meanings given such terms in that certain Acreage Trade Agreement between the Assignor and the Assignee dated August 24, 2017 (the "*Acreage Trade Agreement*").

ARTICLE 1 ASSIGNMENT OF ASSETS

Section 1.1 Assignment. For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor hereby GRANTS, BARGAINS, ASSIGNS, CONVEYS AND TRANSFERS unto Assignee all of Assignor's right, title and interest in and to (i) the oil and gas leases described in more detail on Exhibit A attached hereto (the "*Leases*") INsofar AND ONLY INsofar as they cover those lands described on Exhibit A (the "*Leasehold Rights*") and (ii) any surface use agreements that relate to such Leasehold Rights (collectively with the Leasehold Rights, the "*Conveyed Assets*").

TO HAVE AND TO HOLD the Conveyed Assets, together with all and singular the rights, privileges, contracts and appurtenances, in any way appertaining or belonging thereto, unto Assignee, its successors and assigns, forever, subject, to the terms and conditions of this Assignment.

Section 1.2 Assignment Subject to Acreage Trade Agreement. This Assignment is made in accordance with and is subject to the terms, covenants and conditions contained in that certain Acreage Trade Agreement. In the event of a conflict between the provisions of the Acreage Trade Agreement and this Assignment, the provisions of the Acreage Trade Agreement shall control. The execution and delivery of this Assignment by Assignor, and the execution and acceptance of this Assignment by Assignee, shall not operate to release or impair any surviving rights or obligations of either Party with respect to the other under the Acreage Trade Agreement.

ARTICLE 2 SPECIAL WARRANTY OF TITLE AND DISCLAIMERS

Section 2.1 Special Warranty of Title. Assignor hereby agrees to warrant and defend Defensible Title to the Leases unto Assignee, its successors and assigns, against every Person whomsoever lawfully claiming or to claim the same or any part thereof by, through or under Assignor or any of its Affiliates, but not otherwise.

Section 2.2 Disclaimers of Warranties and Representations.

(a) EXCEPT AS EXPRESSLY REPRESENTED OTHERWISE IN SECTION VI OF THE ACREAGE TRADE AGREEMENT OR THIS ASSIGNMENT, ASSIGNOR MAKES NO, AND HEREBY EXPRESSLY DISCLAIMS, ANY REPRESENTATION OR

STATE OF WEST VIRGINIA §
 §
COUNTY OF MARSHALL §

Jan Pest
MARSHALL County 12:43:01 PM
Instrument No 1404876
Date Recorded 05/20/2016
Document Type ASN
Pages Recorded 20
Book-Page 36-148
Recording Fee \$20.00
Additional \$8.00

ASSIGNMENT AND CONVEYANCE

THIS ASSIGNMENT AND CONVEYANCE (the "Assignment") is made and entered into this 17th day of May, 2016 (the "Effective Date"), by and between CHEVRON U.S.A. INC. (hereinafter "Assignor") and TH EXPLORATION, LLC (hereinafter "Assignee") pursuant to the terms of that certain Acreage Trade Agreement between the Assignor and the Assignee dated May 2, 2016 (the "Acreage Trade Agreement"). Capitalized terms used but not defined herein and defined in the Acreage Trade Agreement shall have the meanings given to such terms in the Acreage Trade Agreement.

WITNESSETH:

WHEREAS, Assignor desires to assign, set over, and transfer to Assignee all of Assignor's right, title, and interest in and to those certain Oil and Gas Leases situated in Marshall County, West Virginia, as described in Exhibit "A", and as depicted in Exhibits "A-1" and "A-2", attached hereto and made a part hereof (hereinafter the "Leases"); and

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

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

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

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

2. Special Warranty. Assignor represents and warrants that Assignor has not conveyed or otherwise encumbered (other than Permitted Encumbrances) its interest in the Conveyed Interests since the time that Assignor obtained its interests in the Leases. Assignor does covenant, promise and agree, to and with the Assignee, its respective successors and assigns, to forever specially warrant and defend the title to the Leases or portions thereof included under this Assignment, unto the Assignee and its respective successors and assigns, against the lawful claims of Assignor, and all persons claiming, or to claim, the same or any part thereof, by, through or under Assignor.

#217
for now

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ASSIGNMENT AND CONVEYANCE

This Assignment and Conveyance (this "*Assignment*") is from STATOIL USA ONSHORE PROPERTIES INC., a Delaware corporation ("*Assignor*"), to TH Exploration, LLC, a Texas limited liability company ("*Assignee*"), and is executed on August 22, 2016 (the "*Effective Date*"). Assignor and Assignee may be referred to herein collectively as the "*Parties*," or individually as a "*Party*." Capitalized terms used herein but not otherwise defined herein (including in Section 3.7) shall have the meanings given such terms in that certain Acreage Trade Agreement between the Assignor and the Assignee dated June 19, 2016 (the "*Acreage Trade Agreement*").

ARTICLE 1 ASSIGNMENT OF ASSETS

Section 1.1 Assignment. For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor hereby GRANTS, BARGAINS, ASSIGNS, CONVEYS AND TRANSFERS unto Assignee all of Assignor's right, title and interest in and to (i) the oil and gas leases described in more detail on Exhibit A attached hereto (the "*Leases*") INSOFAR AND ONLY INSOFAR as they cover the Target Formations and INSOFAR AND ONLY INSOFAR as they cover those lands described on Exhibit A (the "*Leasehold Rights*") and (ii) any surface use agreements that relate to such Leasehold Rights (collectively with the Leasehold Rights, the "*Conveyed Assets*"). Assignor does hereby reserve unto itself the right and subsurface easement to drill through the Leasehold Rights to access the those depths and formations in the Leases other than the Target Formations and (y) to shoot seismic, sonic, or other energy or waves through the Leasehold Rights and to receive, record and evaluate such energy or waves, including those reflected from or in any way pertaining to the reserved depths, and to utilize any and all other exploration technologies that image the subsurface of the leasehold including the reserved depths and to receive, record and evaluate all images resulting therefrom.

TO HAVE AND TO HOLD the Conveyed Assets, together with all and singular the rights, privileges, contracts and appurtenances, in any way appertaining or belonging thereto, unto Assignee, its successors and assigns, forever, subject, to the terms and conditions of this Assignment.

Section 1.4 Assignment Subject to Acreage Trade Agreement. This Assignment is made in accordance with and is subject to the terms, covenants and conditions contained in that certain Acreage Trade Agreement. In the event of a conflict between the provisions of the Acreage Trade Agreement and this Assignment, the provisions of the Acreage Trade Agreement shall control. The execution and delivery of this Assignment by Assignor, and the execution and acceptance of this Assignment by Assignee, shall not operate to release or impair any surviving rights or obligations of either Party with respect to the other under the Acreage Trade Agreement.

ARTICLE 2 SPECIAL WARRANTY OF TITLE AND DISCLAIMERS

Section 2.1 Special Warranty of Title. Assignor hereby agrees to warrant and defend Defensible Title to the Leases unto Assignee, its successors and assigns, against every Person whomsoever lawfully claiming or to claim the same or any part thereof by, through or under Assignor or any of its Affiliates, but not otherwise.

Section 2.2 Disclaimers of Warranties and Representations.

(a) EXCEPT AS EXPRESSLY REPRESENTED OTHERWISE IN SECTION VI OF THE ACREAGE TRADE AGREEMENT OR THIS ASSIGNMENT, ASSIGNOR MAKES NO, AND HEREBY EXPRESSLY DISCLAIMS, ANY REPRESENTATION OR WARRANTY, EXPRESS, IMPLIED OR STATUTORY, INCLUDING AS TO (I) TITLE TO THE LEASEHOLD RIGHTS, (II) THE CONTENTS, CHARACTER OR NATURE OF ANY

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WV Department of
Environmental Protection

STATE OF WEST VIRGINIA §
§
COUNTY OF MARSHALL §

ASSIGNMENT AND CONVEYANCE

THIS ASSIGNMENT AND CONVEYANCE (the "**Assignment**") is made and entered into this 18th day of May, 2018, and made effective December 12, 2017 (the "**Effective Date**"), by and between **AMERICAN PETROLEUM PARTNERS OPERATING, LLC**, (hereinafter "**Assignor**") and **THE EXPLORATION, LLC** (hereinafter "**Assignee**") pursuant to the terms of that certain Acreage Trade Agreement between the Assignor and the Assignee dated December 12, 2017 (the "**Acreage Trade Agreement**"). Capitalized terms used but not defined herein and defined in the Acreage Trade Agreement shall have the meanings given to such terms in the Acreage Trade Agreement.

WITNESSETH:

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

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

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

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

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

2. **Special Warranty**. Assignor represents and warrants that Assignor has not conveyed or otherwise encumbered (other than Permitted Encumbrances) its interest in the

Marshall County
Jan Pest, Clerk
Instrument 1440860
05/25/2018 @ 02:36:09 PM
ASSIGNMENTS
Book 42 @ Page 109
Pages Recorded 9
Recording Cost \$ 15.00

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WV-ACR-0009

PARTIAL ASSIGNMENT OF OIL AND GAS LEASES

This **PARTIAL ASSIGNMENT OF OIL AND GAS LEASES** (hereinafter, "**Assignment**"), made the 31 day of May, 2018 (hereinafter, "**Effective Date**"), is by and between **CNX GAS COMPANY LLC**, a Virginia limited liability company, whose address is 1000 CONSOL Energy Drive, Suite 400, Canonsburg, Pennsylvania 15317 (hereinafter "**Assignor**") and **TH EXPLORATION, LLC**, a Texas limited liability company, whose address is 1320 S. University Drive, Suite 500, Fort Worth, TX 76107 (hereinafter "**Assignee**"). All references in this Assignment to "**Party**" or "**Parties**" shall be deemed at all times to mean Assignor or Assignee or both. Capitalized terms used but not defined herein shall have the meaning given such terms in the Acreage Trade Agreement, by and between Assignor and Assignee dated April 9, 2018 (the "**ATA**").

WHEREAS, Assignor desires to assign all of Assignor's right, title and interest in and to those Oil and Gas Lease(s) as same may have been previously or will in the future be modified, extended, or amended (hereinafter, "**Lease**" or "**Leases**"), covering certain tracts of land (hereinafter, "**Lands**") located in Marshall County, West Virginia; such Leases and Lands covered thereby being more particularly described on Exhibit "A" attached hereto and made a part hereof insofar and only insofar as such Leases cover the Target Formations (as defined below).

NOW, THEREFORE, for and in consideration of TEN AND NO/100 DOLLARS (\$10.00) and other valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor does hereby GRANT, BARGAIN, ASSIGN, TRANSFER, AND CONVEY unto Assignee the following "**Assigned Rights**":

- (a) All of Assignor's right, title, and interest in and to those Leases set forth on Exhibit A attached hereto INsofar AND ONLY INsofar as to the particular Target Formation(s) (defined below) described and delineated on Exhibit A for each Lease:
 - i. "**Target Formation(s)**" means, with respect to each Lease, two hundred feet (200') above the top and two hundred feet (200') below the base of the Marcellus Formation or the Utica Formation or both, as specified for each Lease on Exhibit A. For the purposes of this Assignment, the Marcellus Formation shall be defined as the formation commonly known as the Marcellus Shale Formation, with the top of the Marcellus Shale Formation defined as the correlative stratigraphic equivalent to that point found at 6517 feet (6517') measured depth on the Halliburton Simms U-5H Composite DLL_DEN_NEU Log dated June 14, 2014 (the "**Log**")

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ASSIGNMENT AND CONVEYANCE

This Assignment and Conveyance (this "*Assignment*") is from STATOIL USA ONSHORE PROPERTIES INC., a Delaware corporation ("*Assignor*"), to TH Exploration, LLC, a Texas limited liability company ("*Assignee*"), and is executed on August 22, 2016 (the "*Effective Date*"). Assignor and Assignee may be referred to herein collectively as the "*Parties*," or individually as a "*Party*." Capitalized terms used herein but not otherwise defined herein (including in Section 3.7) shall have the meanings given such terms in that certain Acreage Trade Agreement between the Assignor and the Assignee dated June 19, 2016 (the "*Acreage Trade Agreement*").

ARTICLE 1 ASSIGNMENT OF ASSETS

Section 1.1 Assignment. For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor hereby GRANTS, BARGAINS, ASSIGNS, CONVEYS AND TRANSFERS unto Assignee all of Assignor's right, title and interest in and to (i) the oil and gas leases described in more detail on Exhibit A attached hereto (the "*Leases*") INsofar AND ONLY INsofar as they cover the Target Formations and INsofar AND ONLY INsofar as they cover those lands described on Exhibit A (the "*Leasehold Rights*") and (ii) any surface use agreements that relate to such Leasehold Rights (collectively with the Leasehold Rights, the "*Conveyed Assets*"). Assignor does hereby reserve unto itself the right and subsurface easement to drill through the Leasehold Rights to access the those depths and formations in the Leases other than the Target Formations and (y) to shoot seismic, sonic, or other energy or waves through the Leasehold Rights and to receive, record and evaluate such energy or waves, including those reflected from or in any way pertaining to the reserved depths, and to utilize any and all other exploration technologies that image the subsurface of the leasehold including the reserved depths and to receive, record and evaluate all images resulting therefrom.

TO HAVE AND TO HOLD the Conveyed Assets, together with all and singular the rights, privileges, contracts and appurtenances, in any way appertaining or belonging thereto, unto Assignee, its successors and assigns, forever, subject, to the terms and conditions of this Assignment.

Section 1.4 Assignment Subject to Acreage Trade Agreement. This Assignment is made in accordance with and is subject to the terms, covenants and conditions contained in that certain Acreage Trade Agreement. In the event of a conflict between the provisions of the Acreage Trade Agreement and this Assignment, the provisions of the Acreage Trade Agreement shall control. The execution and delivery of this Assignment by Assignor, and the execution and acceptance of this Assignment by Assignee, shall not operate to release or impair any surviving rights or obligations of either Party with respect to the other under the Acreage Trade Agreement.

ARTICLE 2 SPECIAL WARRANTY OF TITLE AND DISCLAIMERS

Section 2.1 Special Warranty of Title. Assignor hereby agrees to warrant and defend Defensible Title to the Leases unto Assignee, its successors and assigns, against every Person whomsoever lawfully claiming or to claim the same or any part thereof by, through or under Assignor or any of its Affiliates, but not otherwise.

Section 2.2 Disclaimers of Warranties and Representations.

(a) EXCEPT AS EXPRESSLY REPRESENTED OTHERWISE IN SECTION VI OF THE ACREAGE TRADE AGREEMENT OR THIS ASSIGNMENT, ASSIGNOR MAKES NO, AND HEREBY EXPRESSLY DISCLAIMS, ANY REPRESENTATION OR WARRANTY, EXPRESS, IMPLIED OR STATUTORY, INCLUDING AS TO (I) TITLE TO THE LEASEHOLD RIGHTS, (II) THE CONTENTS, CHARACTER OR NATURE OF ANY

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ASSIGNMENT AND CONVEYANCE

This Assignment and Conveyance (this "*Assignment*") is from STATOIL USA ONSHORE PROPERTIES INC., a Delaware corporation ("*Assignor*"), to TH Exploration, LLC, a Texas limited liability company ("*Assignee*"), and is executed on December 18, 2017 (the "*Effective Date*"). Assignor and Assignee may be referred to herein collectively as the "*Parties*," or individually as a "*Party*." Capitalized terms used herein but not otherwise defined herein (including in Section 3.7) shall have the meanings given such terms in that certain Acreage Trade Agreement between the Assignor and the Assignee dated August 24, 2017 (the "*Acreage Trade Agreement*").

**ARTICLE 1
ASSIGNMENT OF ASSETS**

Section 1.1 Assignment. For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor hereby **GRANTS, BARGAINS, ASSIGNS, CONVEYS AND TRANSFERS** unto Assignee all of Assignor's right, title and interest in and to (i) the oil and gas leases described in more detail on Exhibit A attached hereto (the "*Leases*") INsofar AND ONLY INsofar as they cover those lands described on Exhibit A (the "*Leasehold Rights*") and (ii) any surface use agreements that relate to such Leasehold Rights (collectively with the Leasehold Rights, the "*Conveyed Assets*").

TO HAVE AND TO HOLD the Conveyed Assets, together with all and singular the rights, privileges, contracts and appurtenances, in any way appertaining or belonging thereto, unto Assignee, its successors and assigns, forever, subject, to the terms and conditions of this Assignment.

Section 1.2 Assignment Subject to Acreage Trade Agreement. This Assignment is made in accordance with and is subject to the terms, covenants and conditions contained in that certain Acreage Trade Agreement. In the event of a conflict between the provisions of the Acreage Trade Agreement and this Assignment, the provisions of the Acreage Trade Agreement shall control. The execution and delivery of this Assignment by Assignor, and the execution and acceptance of this Assignment by Assignee, shall not operate to release or impair any surviving rights or obligations of either Party with respect to the other under the Acreage Trade Agreement.

**ARTICLE 2
SPECIAL WARRANTY OF TITLE AND DISCLAIMERS**

Section 2.1 Special Warranty of Title. Assignor hereby agrees to warrant and defend Defensible Title to the Leases unto Assignee, its successors and assigns, against every Person whomsoever lawfully claiming or to claim the same or any part thereof by, through or under Assignor or any of its Affiliates, but not otherwise.

Section 2.2 Disclaimers of Warranties and Representations.

(a) EXCEPT AS EXPRESSLY REPRESENTED OTHERWISE IN SECTION VI OF THE ACREAGE TRADE AGREEMENT OR THIS ASSIGNMENT, ASSIGNOR MAKES NO, AND HEREBY EXPRESSLY DISCLAIMS, ANY REPRESENTATION OR

47 05 + 02252



August 3, 2018

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

RE: Keith Stern N-14HU

Subject: Road Crossing Letter

Dear Laura:

Tug Hill Operating, LLC will not be drilling, extracting or producing any minerals under any WV County or State Routes in the area reflected on the Keith Stern N-14HU well plat.

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

Sincerely,

A handwritten signature in blue ink that reads "Amy L. Miller".

Amy L. Miller
Permitting Specialist – Appalachia Region

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

Date of Notice Certification: 06/07/2019

API No. 47- 051 -

Operator's Well No. Keith Stern N-14HU

Well Pad Name: Keith Stern

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:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>526,361.11</u>
County:	<u>Marshall</u>		Northing:	<u>4,402,807.63</u>
District:	<u>Meade</u>	Public Road Access:	<u>Fish Creek Road (County Route 74)</u>	
Quadrangle:	<u>Glen Easton 7.5'</u>	Generally used farm name:	<u>TH Exploration, LLC</u>	
Watershed:	<u>Fish Creek (HUC 10)</u>			

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 have been completed by the applicant.

<p>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:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 100px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p>OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
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Office of Oil and Gas

Required Attachments:

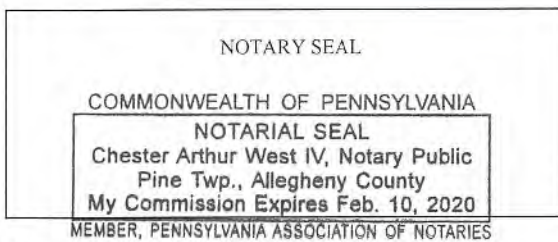
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication 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.

WW-6AC
(1/12)

Certification of Notice is hereby given:

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

Well Operator:	<u>Tug Hill Operating, LLC</u>	Address:	<u>380 Southpointe Boulevard, Plaza II, Suite 200</u>
By:	<u>Amy L. Miller <i>Amy Miller</i></u>		<u>Canonsburg, PA 15317</u>
Its:	<u>Permitting Specialist - Appalachia Region</u>	Facsimile:	<u>724-338-2030</u>
Telephone:	<u>724-749-8388</u>	Email:	<u>amiller@tug-hillop.com</u>



Subscribed and sworn before me this 7th day of JUNE 2019.

[Signature] Notary Public

My Commission Expires 2-10-2020

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.

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Office of Oil and Gas

JUN 24 2019

West Virginia Department of
Environmental Protection

WW-6A
(9-13)

API NO. 47- 051
OPERATOR WELL NO. Kelth Stern N-14HU
Well Pad Name: Kelth Stern

**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: 6/3/2019 Date Permit Application Filed: 6/5/2019

Notice of:

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

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

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A 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:

SURFACE OWNER(s)

Name: TH Exploration, LLC (Access Road and Well Pad)
Address: 380 Southpointe Boulevard, Plaza II, Suite 200
Canonsburg, PA 15318

Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: _____
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: CONSOL Energy, Inc. Attn: Casey Saunders
Address: 1000 CONSOL Energy Drive
Canonsburg, PA 15317

COAL OPERATOR

Name: _____ JUN 24 2019
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: *See attached list
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____
Address: _____

*Please attach additional forms if necessary

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Office of Oil and Gas

WV Department of
Environmental Protection

WW-6A
(8-13)

API NO. 47- 051 -
OPERATOR WELL NO, Keith Stern N-14HU
Well Pad Name: Keith Stern

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

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

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Department of Environmental Protection

WW-6A
(8-13)

API NO. 47-051 - _____
OPERATOR WELL NO. Keith Stern N-14HU
Well Pad Name: Keith Stern

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

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.**

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JUN 24 2019

WV Department of
Environmental Protection

WW-6A
(8-13)

API NO. 47-051 -
OPERATOR WELL NO. Keith Stern N-14HU
Well Pad Name: Keith Stern

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

JUN 24 2019

WV Department of
Environmental Protection

WW-6A
(8-13)

API NO. 47- 051 -
OPERATOR WELL NO. Keith Stern N-14HU
Well Pad Name: Keith Stern

Notice is hereby given by:

Well Operator: Tug Hill Operating, LLC
Telephone: 724-749-8388
Email: amiller@tug-hill.com *anyhill*

Address: 380 Southpointe Boulevard, Plaza II, Suite 200
Canonsburg, PA 15317
Facsimile: 724-338-2030

Oil and Gas Privacy Notice:

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

Commonwealth of Pennsylvania - Notary Seal
MAUREEN A STEAD - Notary Public
Washington County
My Commission Expires Jan 28, 2023
Commission Number 1259926

Subscribed and sworn before me this 3 day of JUNE, 2019.

Maureen A Stead Notary Public

My Commission Expires 1/28/23

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Exhibit WW-6A**Supplement Pg. 1A**

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

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

Well: KEITH STERN N – 14HU
 District: Meade (House #'s 1-5)
 State: WV

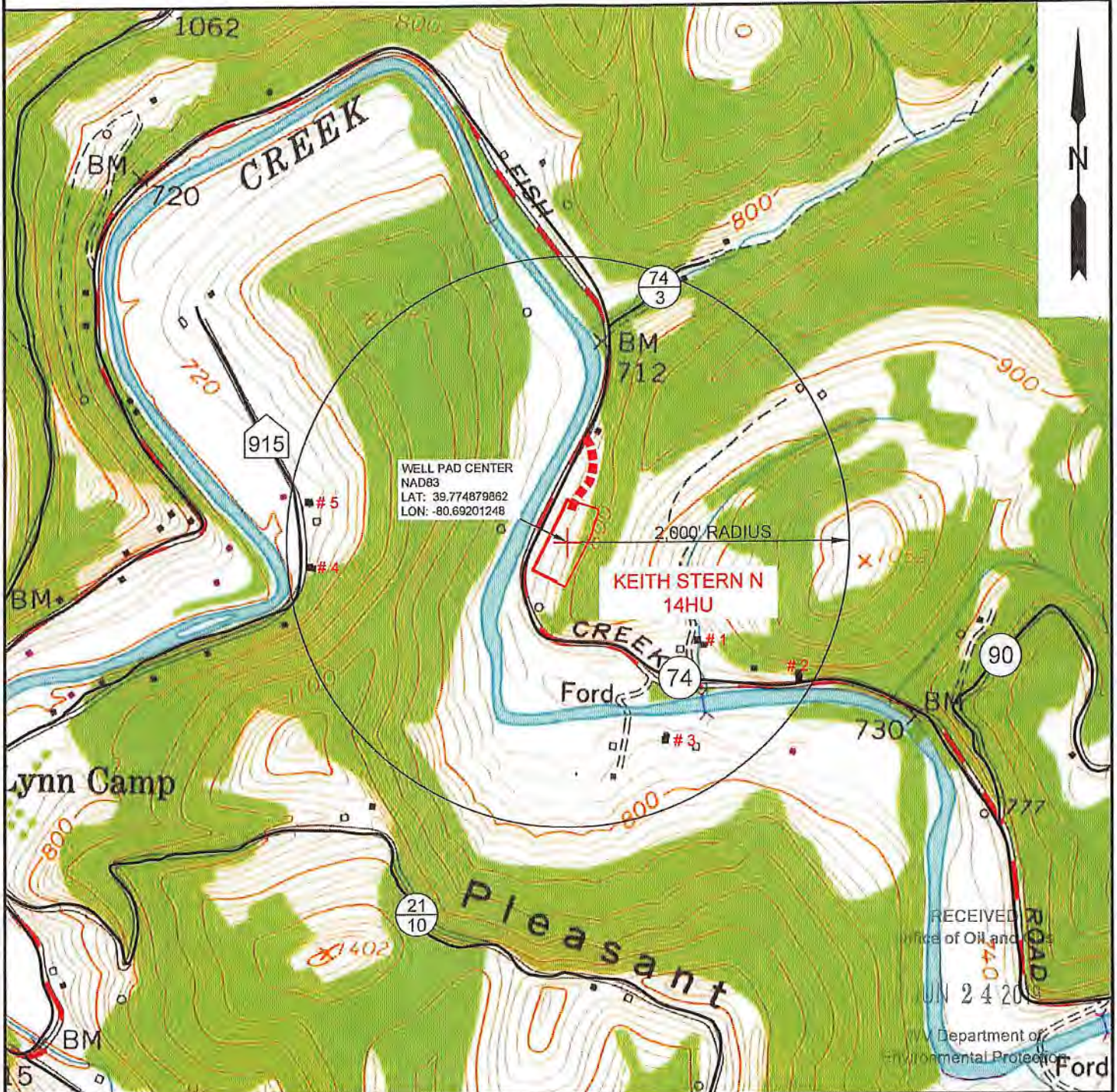
There are five (5) residences, no businesses, no churches, no schools or no emergency facilities within two-thousand feet (2,000') of the above referenced well location.

House 1 TM 14 Pcl. 20 William K. Stern, Et Ux Phone: 304-843-1478 (Per Address – Keith, Betty & Ginger Sue Stern) Physical Address: 14912 Fish Creek Rd. Glen Easton, WV 26039 Tax Address: Same	House 2 TM 14 Pcl. 20.1 William K. Stern, Et Ux Phone: 304-843-1478 (Per Address – Keith, Betty & Ginger Sue Stern) Physical Address: 15056 Fish Creek Rd. Glen Easton, WV 26039 Tax Address: 14912 Fish Creek Rd. Glen Easton, WV 26039	House 3 TM 14 Pcl. 21 Eleanore M. Fox Est. Phone: 304-845-6016 (Per Tax Address – Thomas Fox) Physical Address: None Found – Appears to be an old home. Tax Address: 100 Lynn Camp Ln. Glen Easton, WV 26039-9707
House 4 TM 14 Pcl. 27 Patrick J. Shellhase Phone: 304-845-0742; 304-810-0258 Physical Address: 593 Crow Dr. Glen Easton, WV 26039 Tax Address: 2300 7 th St. Moundsville, WV 26041	House 5 TM 14 Pcl. 25 Patricia A. Dugas Phone: None Found Physical Address: 681 Crow Dr. Glen Easton, WV 26039 Tax Address: Same	<div style="text-align: right;"> RECEIVED Office of Oil and Gas </div>

JUN 24 2019

WV Department of
 Environmental Protection

PROPOSED KEITH STERN N - 14HU



NOTE: THERE APPEARS TO BE FIVE (5) POSSIBLE WATER SOURCES WITHIN 2,000'.

SLS
Land & Energy Development
Solutions from the ground up.
P.O. Box 150 • 12 Vanhorn Drive • Glenville, WV 26351 • (304) 462-9634
www.slsurveys.com

TOPO SECTION:		OPERATOR:	
GLEN EASTON 7.5'		PREPARED FOR:	
COUNTY	DISTRICT	TUG HILL OPERATING, LLC	
MARSHALL	MEADE	380 SOUTHPOINTE BLVD	
DRAWN BY		DATE	SCALE
K.G.M.		05/29/2019	1" = 1000'

TUG HILL
OPERATING

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Office of Oil and Gas
JUN 24 2019
WV Department of
Environmental Protection

WW-70
Rev. 7/01

Affidavit of Personal Service

State Of Pennsylvania

County Of Washington

The undersigned, being first duly sworn, says that the undersigned served a true and complete copy of all sides of--

- (1) Notice on Form WW-2(A) ___/ WW-3(A) ___/ WW-4(A) ___/ WW-5(A) ___/ WW-6(A) X, WW-6A5
- (2) Application on Form WW-2(B) ___/ WW-3(B) ___/ WW-4(B) ___/ WW-5(B) ___/ WW-6(B) ___
- (3) Plat showing the well location on Form WW-6, and
- (4) Construction and Reclamation Plan on Form WW-9

--all with respect to operator's Well No. Keith Stern N-14HU located in Meade District, Marshall County, West Virginia, upon the person or organization named--

TH Exploration, LLC

--by delivering the same in Washington County, State of Pennsylvania on the 3rd day of June, 2019 in the manner specified below.

[COMPLETE THE APPROPRIATE SECTION]

For an individual:

Handing it to him ___/ her ___/ or, because he ___/ she ___/ refused to take it when offered it, by leaving it in his ___/ her ___/ presence.

Handing it to a member of his or her family above the age of 16 years named _____ who resides at the usual place of abode of the person to be served, and asking the family member to give it to the person to be served as soon as possible.

For a partnership:

Handing it to _____, a partner of the partnership or, because the partner refused to take it when I handed it over, by leaving it in the presence of the partner.

For a limited partnership:

Handing it to the general partner, named _____, or, because the general partner refused to take it when I tried to hand it over, by leaving it in the presence of the general partner.

For a corporation:

Handing it to the corporation's employee / officer ___/ director ___/ attorney in fact ___/ named Dana DeLallo.

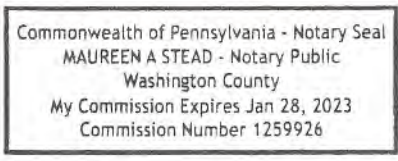
[Signature]
(Signature of person executing service)

Taken, subscribed and sworn before me this 7 day of JUNE
My commission expires 1/28/23

[Signature]
Notary Public

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Office of Oil and Gas
2019
JUN 24 2019
WV Department of Environmental Protection

(AFFIX SEAL IF NOTARIZED OUTSIDE THE STATE)



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: 12/11/17 **Date of Planned Entry:** 12/18/17

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

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A 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:

SURFACE OWNER(s)
Name: TH Exploration, LLC (Access Road and Well Pad)
Address: 380 Southpointe Boulevard, Plaza II, Suite 200
 Canonsburg, PA 15318
Name: _____
Address: _____
Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: Consol Energy, Inc.
Address: CNX Center, 1000 Consol Energy Drive
 Canonsburg, PA 15317

MINERAL OWNER(s)
Name: William K. and Betty L. Stern
Address: 14912 Fish Creek Road
 Glen Easton, WV 26039

*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:	39.7748867; -80.6920362
County:	Marshall	Public Road Access:	Fish Creek Road (County Route 74)
District:	Meade	Watershed:	Fish Creek (HUC 10)
Quadrangle:	Glen Easton 7.5'	Generally used farm name:	TH Exploration, LLC

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 7th 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.

JUN 24 2019

Notice is hereby given by:

Well Operator: Tug Hill Operating, LLC
Telephone: 724-749-8388
Email: amiller@tug-hill.com

Address: 380 Southpointe Boulevard, Plaza II, Suite 200
 Canonsburg, PA 15317
Facsimile: 724-338-2030

WV Department of
Environmental Protection

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.

WW-70
Rev. 7/01

Affidavit of Personal Service

State Of Pennsylvania

County Of Washington

The undersigned, being first duly sworn, says that the undersigned served a true and complete copy of all sides of--

- (1) Notice on Form WW-2(A) ___/ WW-3(A) ___/ WW-4(A) ___/ WW-5(A) ___/ WW-6(A) X, WW-6A5
- (2) Application on Form WW-2(B) ___/ WW-3(B) ___/ WW-4(B) ___/ WW-5(B) ___/ WW-6(B) ___
- (3) Plat showing the well location on Form WW-6, and
- (4) Construction and Reclamation Plan on Form WW-9

--all with respect to operator's Well No. Keith Stern N-14HU located in Meade District, Marshall County, West Virginia, upon the person or organization named--

TH Exploration, LLC

--by delivering the same in Washington County, State of Pennsylvania on the 3rd day of June, 20 19 in the manner specified below.

[COMPLETE THE APPROPRIATE SECTION]

For an individual:

Handing it to him ___/ her ___/ or, because he ___/ she ___/ refused to take it when offered it, by leaving it in his ___/ her ___/ presence.

Handing it to a member of his or her family above the age of 16 years named _____ who resides at the usual place of abode of the person to be served, and asking the family member to give it to the person to be served as soon as possible.

For a partnership:

Handing it to _____, a partner of the partnership or, because the partner refused to take it when I handed it over, by leaving it in the presence of the partner.

For a limited partnership:

Handing it to the general partner, named _____, or, because the general partner refused to take it when I tried to hand it over, by leaving it in the presence of the general partner.

For a corporation:

Handing it to the corporation's employee / officer ___/ director ___/ attorney in fact ___/ named Dana Delallo.

[Signature]
(Signature of person executing service)

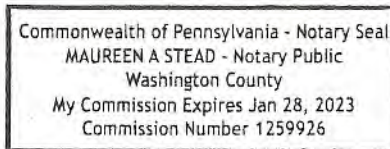
Taken, subscribed and sworn before me this 7 day of JUNE
My commission expires 1/28/23

20 19
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[Signature]
Notary Public

JUN 24 2019

(AFFIX SEAL IF NOTARIZED OUTSIDE THE STATE)



WV Department of Environmental Protection



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

Byrd E. White, III
Secretary of Transportation

June 11, 2019

Jimmy Wriston, P. E.
Deputy Secretary/
Acting Commissioner

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 Keith Stern Pad, Marshall County
Keith Stern N-14HU Well site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2018-0068 issued to Tug Hill Operating for access to the State Road for a well site located off of Marshall County Route 74 SLS.

This operator is in compliance with §22-6A-20 of the WV Code. 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 October 1, 2018.

Very Truly Yours,

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

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WV Department of
Environmental Protection

Cc: Amy Miller
Tug Hill Operating
CH, OM, D-6
File



PLANNED ADDITIVES TO BE USED IN FRACTURING OR STIMULATION

Well No. Keith Stern N-14HU

PRODUCT NAME:	CHEMICAL DESCRIPTION:	PRODUCT USE:	HAZARDOUS COMPONENT:
GBW-20C	Hemicellulase Breaker	Breaker - Water	None
ALPHA 1427		Biocide	Glutaraldehyde – CAS#000111-30-8 Quaternary 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

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