

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

Permit approval for KEITH STERN S-19HU Re:

47-051-02244-00-00

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

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

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

James A. Martin

Chief

Operator's Well Number: KEITH STERN S-19HU

Farm Name: TH EXPLORATION, LLC

Horizontal 6A New Drill

U.S. WELL NUMBER: 47-051-02244-00-00

Date Issued: 10/22/2019

Promoting a healthy environment.

API Number: 4705102244

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.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

API Number: 4705102244

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, cessation of drilling, 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 #47-051-02244

COMPANY:

Tug Hill Operating, LLC

FARM:

TH Exploration, LLC

Keith Stern S-19HU

COUNTY:

Marshall

DISTRICT: Meade

QUAD: Glen Easton

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

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

- 1. Comments to Notice of Deviation filed? No
- 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 and showing the following wells drilled to or capable of producing from the objective formation within 3,000 feet of the proposed location.

Sincerely,

Susan Rose 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-14HU 47-051-02252; Keith Stern N-15HU 47-051-02241; Keith Stern N-16HU 47-051-02242; Keith Stern S-18HU 47-051-02243; OE Burge U MSH 501H 47-051-01853

WW-6B (04/15)

API NO. 47-051		
OPERATOR WELL	NO.	Keith Stern S-19HU
Well Pad Name:	Keith 5	Stern

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

1) Well Operator: Tug Hill Ope	erating, LLC	494510851	Marshall	Meade	Glen Easton 7.5'
		Operator ID	County	District	Quadrangle
2) Operator's Well Number: Keit	th Stern S-19H	IU Well Pa	ad Name: Keit	th Stern	
3) Farm Name/Surface Owner: 1	ΓΗ Exploration	, LLC Public Ro	ad Access: Fi	sh Creek Ro	ad (County Route 74)
4) Elevation, current ground: 7	741.50' E	Elevation, proposed	l post-construc	tion: 744.6	5'
5) Well Type (a) Gas x Other	Oil _	Uno	lerground Stor	rage	
(b)If Gas Shall	low	Deep	Х		
	zontal x			Ju	=11/19
6) Existing Pad: Yes or No No			3		5/11
 Proposed Target Formation(s), Point Pleasant is the target formation at a depth of 11,132 - 1 				Pressure(s):	
-					
8) Proposed Total Vertical Depth	: 11,404'				
9) Formation at Total Vertical De	epth: Trenton				
10) Proposed Total Measured De	pth: 18,538'				
11) Proposed Horizontal Leg Len	igth: 6,723.5	(!			
12) Approximate Fresh Water Str	rata Depths:	70' ; 390'			
13) Method to Determine Fresh V	Vater Depths:	Offset well reports or r	oticeable flow at t	the flowline or v	when need to start soaping
14) Approximate Saltwater Depth	ns: 1,740'				
15) Approximate Coal Seam Dep	ths: Sewickle	y Coal - 304' ; Pit	sburgh Coal	- 397'	
16) Approximate Depth to Possib	ole Void (coal n	nine, karst, other):	none		
17) Does Proposed well location directly overlying or adjacent to a			N	No X	
(a) If Yes, provide Mine Info:	Name:				
2000	Depth:				DECEMED.
	Seam:				Office of Oil and Ga
	Owner:				JUN 1 3 2019

WV Department of Environmental Protection WW-6B (04/15) API NO. 47- 051 OPERATOR WELL NO. Keith Stern S-19HU
Well Pad Name: Keith Stern

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30"	NEW	BW	BW	120'	120'	259FT^3(CTS)
Fresh Water	20"	NEW	J55	106.5#	490'	490'	846 FT^3(CTS)
Coal	13 3/8"	NEW	J55	54.5#	2200'	2200'	1,559FT^3(CTS)
Intermediate	9 5/8"	NEW	HPP110	47#	10,162'	10,162'	3,292FT^3(CTS)
Production	5 1/2"	NEW	P110	23#	18,538'	18,538'	4,419FT^3(CTS)
Tubing	2 7/8"	NEW	P110	6.5#		11,451'	
Liners							

Dilli9

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	36"	1.0	2,333	1,866	CLASS A	1.2
Fresh Water	20"	26"	.5	2,410	1,928	SEE # 24	1.2
Coal	13 3/8"	17 1/2"	.38	2,740	2,192	SEE #24	1.2
Intermediate	9 5/8"	12 1/4"	.472	10,730	6,968	SEE #24	1.99
Production	5 1/2"	8 1/2"	.415	16,510	10,864	SEE #24	1.18
Tubing	2 7/8"			11,385	11,624		
Liners							

PACKERS

Kind:	N/A	
Sizes:	N/A	
Depths Set:	N/A	RECEIVED Office of Oil and Ga

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WV Department of Environmental Protection

WW-6B
(10/14)

API NO. 47- 051 OPERATOR WELL NO. Keith Stern S-19HU
Well Pad Name: Keith Stern

DE1119

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 16,805,000 lb proppant and 259,818 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.



30" Csg @ 120' MD / 120' TVD

13 3/8" Csg @ 2,202' MD / 2,200' TVD

9 5/8" Csg @ 10,162' MD / 9,952' TVD

KOP @ 10,951' ft MD

WELL NAME: Keith Stern S-19HU
STATE: WV COUNTY: Marshall
DISTRICT: Meade
DF Elev: 744'
TD: 18,538'
TH Latitude: 39,77483004
TH Longitude: -80.69208048
BH Latitude: 39,756931
BH Longitude: -9.674058

Formation	Depth TVD	
Deepest Fresh Water	390'	
Sewickley Coal	3041	
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	11,132'	
Landing Depth	11,187'	
Trenton	11,254	
Pilot Hole TD	11,404	

CASING SUMMARY							
Туре	Hole Size (in)	Csg Size (in)	Depth (MD)	Depth (TVD)	Weight (lb/ft)	Grade	Top of Cemer
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	2,202'	2,200'	54.5	J55	Surface
Intermediate 2	12 1/4	9 5/8	10,162'	9,952'	47	HPP110	Surface
Production	8 1/2	5 1/2	18,538'	11,304'	23	HCP110	Surface

CEMENT SUMMARY				DRILLING DETAILS		
	Sacks	Class	Density	Fluid Type	Centralizer Notes	
Conductor	338	А	15.6	Air	None	
Surface	908	А	15.6	Air	3 Centralizers at equal distance	
Intermediate 1	1,690	Α	15	Air	1 Centralizer every other jt	
Intermediate 2	2,826	Α	14.5	Air	1 Centralizer every other jt	
Production	3,879	А	15	Air / SOBM	1 every other joint in lateral; 1 per joint in curve 1 every other it to sfc	

Pilot Hole PH TD @

11,404

Landing Point @1,816' MD / 11,187' TVD

PH TVD = 150' below Trenton Top

Lateral TD @ 18,538' ft MD 11,304 ft TVD

de 5/1/19

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Tug Hill Operating, LLC Casing and Cement Program

Keith Stern S-19HU

		C	asing		
	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"	2,202'	CTS
Intermediate 2	9 5/8"	HPP110	12 1/4"	10,162'	CTS
Production	5 1/2"	HCP110	8 1/2"	18,538'	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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Operator's Well No. Keith Stern S-19HU

Area of Review

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

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

Data Sources Reviewed:

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

Contacted Devin Ducoeur 724-705-0444, dducoeur@dpslandservices.com DPS GIS (08/06/2018) to have him make maps of the wellbores with his information. DPS utilizes WVGES maps for their mapping seems it as the best publicly available. See attached map he provided.

Request maps for:

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

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

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

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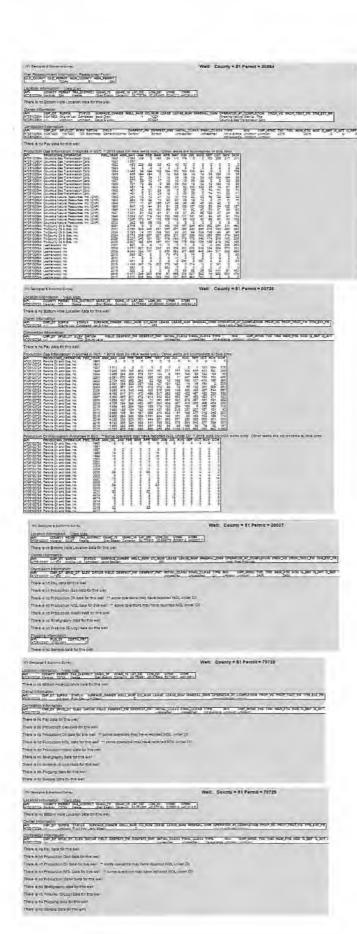
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Keith Stern S-19HU Wells within 500' Buffer

Operator Name	Total Depth	Perforated Fms	Producing zones not perforated	Is this well "known or reasonably expected to penetrate a depth that could be within the range of Fracture propagation"? 1000' is max limit! would assign to wells that might be within in range of fracture propagation	Comments
Wheeling Natural	2.375' TVD	Gordon Sd	Unknown	the expected fracture propagation from a	Well was producing as of 2017
Hope Natural Gas	Unknown	Unknown	Unknown	Uknown but unlikely. The well likely represents a shallow well that is too shallow to be effected by fracturing in the planned Point Pleasant well.	Well was producing as of 2017
Valley Steel	2436' TVD	Unknown	Unknown	Uknown but unlikely. The well likely represents an old shallow well that is too shallow to be effected by fracturing in the planned Point Pleasant well.	Well was plugged 10/30/1951
Unknown	Unknown	Unknown	Unknown	Uknown but unlikely. The well likely represents an old shallow well that is too shallow to be effected by fracturing in the planned Point Pleasant well.	State records are incomplete
Unknown	Unknown	Unknown	Unknown	Uknown but unlikely. The well likely represents an old shallow well that is too shallow to be effected by fracturing in the planned Point Pleasant well.	State records are incomplete
Unknown	Unknown	Unknown	Unknown	Uknown but unlikely. The well likely represents an old shallow well that is too shallow to be effected by fracturing in the planned Point Pleasant well.	State records are incomplete
Manufacturers Light & Heat Co.	Unknown	Unknown	Unknown	Uknown but unlikely. The well likely represents an old shallow well that is too shallow to be effected by fracturing in the planned Point Pleasant well.	State records are incomplete
South Penn Oil	Unknown	Unknown	Unknawn	Uknown but unlikely. The well likely represents an old shallow well that is too shallow to be effected by fracturing in the planned Point Pleasant well.	State records are incomplete
Unknown	Unknown	Unknown	Unknown	Uknown but unlikely. The well likely represents an old shallow well that is too shallow to be effected by fracturing in the planned Point Pleasant well.	State records are incomplete
Hope Natural Gas	Unknown	Unknown	Unknown	Uknown but unlikely. The well likely represents an old shallow well that is too shallow to be effected by fracturing in the planned Point Pleasant well.	State records are incomplete
	Wheeling Natural Gas Hope Natural Gas Company Valley Steel Products Unknown Unknown Unknown Manufacturers Light & Heat Co. South Penn Oil Unknown Hope Natural Gas	Wheeling Natural Gas 2,375' TVD Hope Natural Gas Company Valley Steel Products 2436' TVD Unknown Unknown	Operator Name Total Depth Fms Wheeling Natural Gas 2,375'TVD Gordon Sd Hope Natural Gas Company Unknown Unknown Valley Steel Products 2436'TVD Unknown Unknown Unknown Unknown Unknown Unknown Unknown Unknown Unknown Unknown Unknown Unknown Unknown South Penn Oil Unknown Unknown Unknown Unknown Unknown	Operator Name Op	Departor Name Perforated Fins Producing zones not perforated perforate perforated perforated perforate perforated perforate perforated perforate perforated perforate perforated perforate perforate perforated perforate perforated perforate perforate perforate perforated perforate

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THE ST SUPPLY PROPER SUPPLY COMES THE SUPPLY CONTROL OF SUPPLY SUPP County and Production and Committee and Comm Well: County = 51 Permit = 70786 Location information. View View. The Country of Country is country to the Union Unio Owner intermed.

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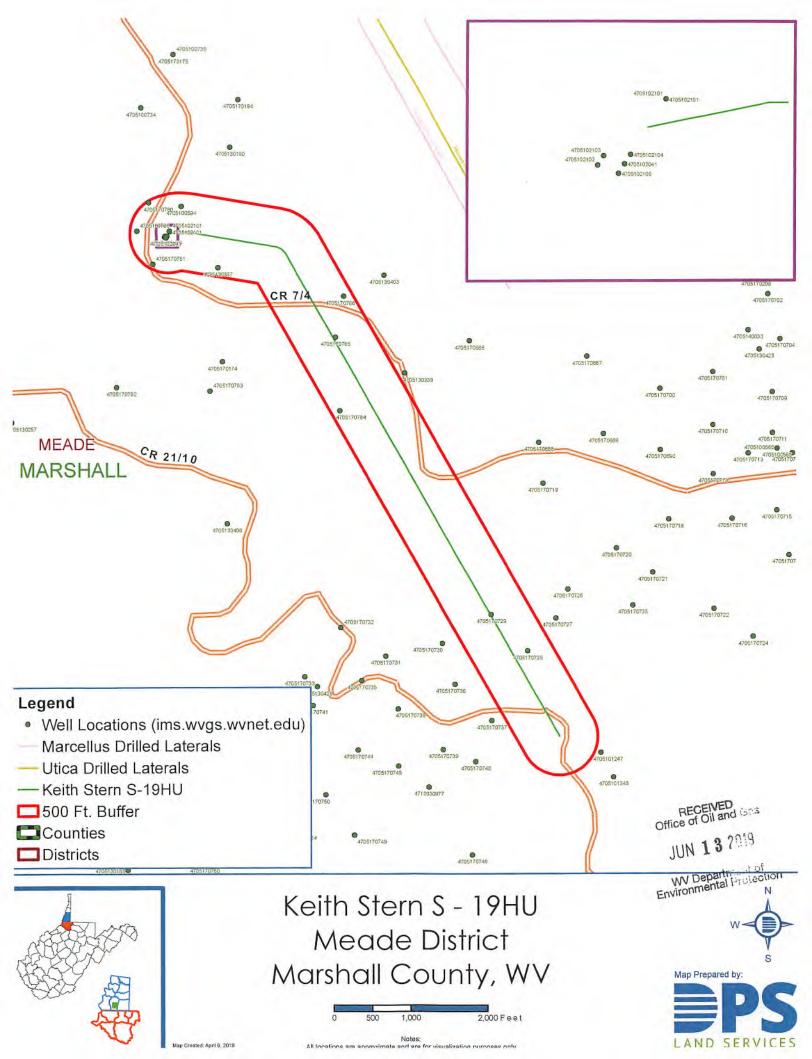
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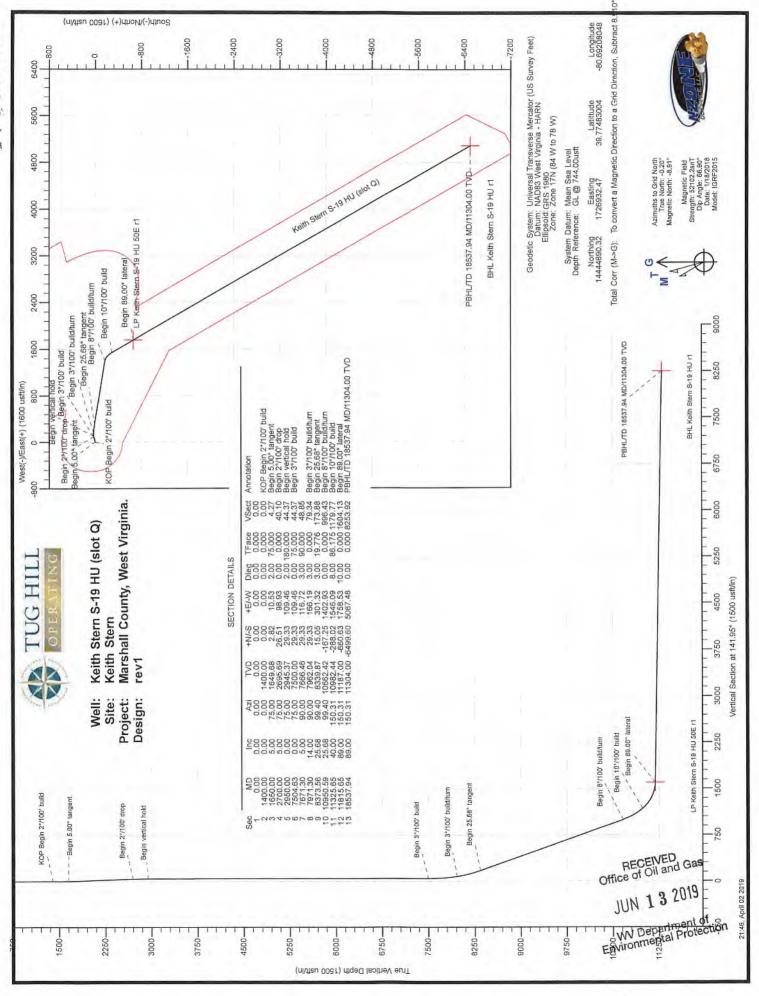
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Database: Company: Project:

DB_Jul2216dt_v14 Tug Hill Operating LLC

Marshall County, West Virginia.

Site: Well: Keith Stern

Wellbore:

Keith Stern S-19 HU (slot Q) Original Hole

Design:

rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Keith Stern S-19 HU (slot Q)

GL @ 744.00usft GL @ 744.00usft

Grid

Minimum Curvature

Project

Marshall County, West Virginia

Map System:

Universal Transverse Mercator (US Survey Feet)

NAD83 West Virginia - HARN

Geo Datum: Map Zone:

Zone 17N (84 W to 78 W)

System Datum:

Mean Sea Level

Site

Keith Stern

Site Position: From:

Lat/Long

Northing: Easting:

14,444,890.33 usft

Latitude: 1,726,932,47 usft

Longitude:

39.77483004

Position Uncertainty:

0.00 usft Slot Radius: 13-3/16 "

Grid Convergence:

-80.69208048

0.197

Well Well Position

+N/-S

+E/-W

0.00 usft 0.00 usft

Northing: Easting:

14,444,890.33 usft 1,726,932.47 usft

Latitude: Longitude:

39.77483004 -80.69208048

Position Uncertainty

0.00 usft

Keith Stern S-19 HU (slot Q)

Wellhead Elevation:

Ground Level:

744.00 usft

Magnetics

Wellbore

Original Hole

Model Name

IGRF2015

Sample Date

1/18/2018

Declination

Dip Angle

Field Strength (nT)

52,102.18999238

Design

rev1

Audit Notes:

Version:

Phase:

PLAN

Tie On Depth:

-8.713

0.00

66.896

Vertical Section:

Depth From (TVD) (usft)

0.00

4/2/2019

+N/-S (usft) 0.00

+E/-W (usft) 0.00

Remarks

Direction (°) 141.95

Plan Survey Tool Program

Depth From (usft)

0.00

Depth To

(usft) Survey (Wellbore) 18,537.94 rev1 (Original Hole) **Tool Name**

MWD MWD - Standard

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WV Department of Environmental Protection COMPASS 5000.14 Build 85



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

Project: Site:

Keith Stern

Well:

Keith Stern S-19 HU (slot Q)

Wellbore: Design: Original Hole rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well Keith Stern S-19 HU (slot Q)

GL @ 744.00usft GL @ 744.00usft

Grid

Minimum Curvature

an 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	
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,650.00	5.00	75.00	1,649.68	2.82	10.53	2.00	2.00	0.00	75.000	
2,700.00	5.00	75.00	2,695.69	26.51	98.93	0.00	0.00	0.00	0.000	
2,950.00	0.00	75.00	2,945.37	29.33	109.46	2.00	-2.00	0.00	180,000	
7,504.63	0.00	75.00	7,500.00	29.33	109.46	0.00	0.00	0.00	75.000	
7,671.30	5.00	90.00	7,666.46	29.33	116.72	3.00	3.00	0.00	90.000	
7,971.30	14.00	90.00	7,962.04	29.33	166.19	3.00	3.00	0.00	0.000	
8,373.56	25.68	99.40	8,339.87	15.05	301.32	3.00	2.90	2.34	19.776	
10,950.59	25.68	99.40	10,662.42	-167.25	1,402.93	0.00	0.00	0.00	0.000	
11,325.65	40.00	150.31	10,982.44	-288.02	1,546.09	8.00	3,82	13.57	86.175	
11,815.65	89.00	150.31	11,187.00	-660.63	1,758.53	10.00	10.00	0.00	0.000	LP Keith Stern S-19
18,537.94	89.00	150.31	11,304.00	-6,499.60	5,087.48	0.00	0.00	0.00	0.000	BHL Keith Stern S-19

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WV Department of Environmental Protection



Database: Company: Project:

Site:

DB_Jul2216dt_v14 Tug Hill Operating LLC Marshall County, West Virginia.

Keith Stern

Well: Keith Stern S-19 HU (slot Q)

Wellbore: Original Hole Design: rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Keith Stern S-19 HU (slot Q)

GL @ 744.00usft GL @ 744.00usft

Grid

Minimum Curvature

Measured	In all the state	8 orbins or the	Vertical Depth	1 N I O		Map Northing	Map Easting		
Depth (usft)	Inclination (°)	Azimuth (°)	(usft)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,444,890.33	1,726,932.47	39.77483004	-80,69208
100.00	0.00	0.00	100.00	0.00	0.00	14,444,890.33	1,726,932,47	39.77483004	-80,69208
200.00	0,00	0.00	200.00	0.00	0.00	14,444,890,33	1,726,932,47	39.77483004	-80.69208
300.00	0.00	0.00	300.00	0.00	0.00	14,444,890.33	1,726,932.47	39.77483004	-80.69208
400.00	0.00	0.00	400.00	0.00	0.00	14,444,890.33	1,726,932.47	39.77483004	-80.69208
500.00	0.00	0.00	500.00	0.00	0.00	14,444,890.33	1,726,932.47	39.77483004	-80.6920
600.00	0.00	0.00	600.00	0.00	0.00	14,444,890.33	1,726,932.47	39.77483004	-80.69208
700.00	0.00	0.00	700.00	0.00	0.00	14,444,890.33	1,726,932.47	39.77483004	-80.6920
800.00	0.00	0.00	800.00	0.00	0.00	14,444,890.33	1,726,932.47	39.77483004	-80,69208
900.00	0.00	0.00	900.00	0.00	0.00	14,444,890.33	1,726,932.47	39.77483004	-80.69208
1,000.00	0.00	0.00	1,000.00	0.00	0.00	14,444,890.33	1,726,932.47	39.77483004	-80.69208
1,100.00	0.00	0.00	1,100.00	0.00	0.00	14,444,890.33	1,726,932.47	39.77483004	-80.69208
1,200.00	0.00	0.00	1,200.00	0.00	0.00	14,444,890.33	1,726,932.47	39.77483004	-80.69208
1,300.00	0.00	0.00	1,300.00	0.00	0.00	14,444,890.33	1,726,932.47	39.77483004	-80.69208
1,400.00	0.00	0.00	1,400.00	0.00	0.00	14,444,890.33	1,726,932.47	39.77483004	-80,6920
KOP Bed	in 2°/100' bui	ld							
1,500.00	2.00	75.00	1,499.98	0.45	1.69	14,444,890.78	1,726,934.16	39.77483127	-80,6920
1,600.00	4.00	75.00	1,599.83	1.81	6.74	14,444,892.13	1,726,939.21	39.77483494	-80.6920
1,650.00	5.00	75.00	1,649.68	2.82	10.53	14,444,893.15	1,726,943.00	39,77483769	-80.69204
	00° tangent						Wante Charles		
1,700.00	5.00	75.00	1,699.49	3.95	14.74	14,444,894.28	1,726,947,21	39.77484075	-80.6920
1,800.00	5.00	75.00	1,799.11	6.21	23.16	14,444,896.53	1,726,955.63	39.77484686	-80.69199
1,900.00	5.00	75.00	1,898.73	8.46	31.58	14,444,898.79	1,726,964.05	39.77485298	-80,69196
2,000.00	5.00	75.00	1,998.35	10.72	39.99	14,444,901.04	1,726,972.46	39.77485909	-80,69193
2,100.00	5.00	75.00	2,097.97	12.97	48.41	14,444,903.30	1,726,980.88	39.77486521	-80.69190
2,200.00	5.00	75.00	2,197.59	15.23	56.83	14,444,905.55	1,726,989.30	39.77487133	-80.69187
2,300.00	5.00	75.00	2,297.20	17.48	65.25	14,444,907.81	1,726,997.72	39.77487744	-80.69184
2,400.00	5.00	75.00	2,396,82	19.74	73.67	14,444,910.07	1,727,006.14	39.77488356	-80.6918
2,500.00	5.00	75.00	2,496.44	22.00	82.09	14,444,912.32	1,727,000.14	39.77488967	-80,69178
2,599.99	5.00	75.00	2,596.06	24.25	90.51	14,444,914.58	1,727,022.98	39.77489579	-80.6917
2,699.99	5.00	75.00	2,695.68	26.51	98.92	14,444,916.83	1,727,031.39	39.77490190	-80,69172
2,700.00	5.00	75.00	2,695.69	26.51	98.93	14,444,916.83	1,727,031.40	39.77490190	-80.69172
		75.00	2,033.03	20.01	50.53	14,444,510.03	1,727,031.40	35.77430130	-00.0317.
	/100' drop	75.00	0.705.40	00.04	105.00	4444404004	4 707 000 40	00 77 400000	00.0047
2,799.99	3.00	75.00 75.00	2,795.43	28.31	105.66	14,444,918.64	1,727,038.13	39,77490680	-80.69170
2,899,99	1.00		2,895.37	29.22	109.03	14,444,919.54	1,727,041.50	39.77490924	-80,69169
2,950.00	0.00	75.00	2,945.37	29.33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.69169
The second second	rtical hold		0.005.00		121 12			222212222	(Label 10)
2,999.99	0.00	0.00	2,995.36	29.33	109.46	14,444,919.65	1,727,041.93	39,77490955	-80.69169
3,099.99	0.00	0.00	3,095.36	29.33	109.46	14,444,919,65	1,727,041.93	39.77490955	-80,69169
3,199.99	0,00	0.00	3,195,36	29.33	109.46	14,444,919.65	1,727,041.93	39,77490955	-80.69169
3,299.99	0.00	0.00	3,295.36	29.33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.69169
3,399.99	0.00	0.00	3,395.36	29.33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.69169
3,499.99	0.00	0.00	3,495.36	29.33	109.46	14,444,919.65	1,727,041.93	39,77490955	-80,69169
3,599.99	0.00	0,00	3,595.36	29.33	109,46	14,444,919.65	1,727,041.93	39.77490955	-80,69169
3,699,99	0.00	0.00	3,695.36	29.33	109,46	14,444,919.65	1,727,041.93	39.77490955	-80.69169
3,799.99	0.00	0.00	3,795.36	29.33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80,69169
3,899.99	0.00	0.00	3,895.36	29.33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.69169
3,999.99	0.00	0.00	3,995.36	29.33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.69169
4,099.99	0.00	0.00	4,095.36	29.33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.69169
4,199.99	0.00	0.00	4,195.36	29.33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.69169
4,299.99	0.00	0.00	4,295.36	29.33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.69169
4,399.99	0.00	0.00	4,395.36	29.33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.69169
4,499.99	0.00	0.00	4,495.36	29.33	109.46	14,444,919.65	1,727,041.93	39.774909535 39.77490954ECE 39.774908550f	il and 2389169
4,599.99	0.00	0.00	4,595.36	29.33	109.46	14,444,919.65	1,727,041.93	39.7748095501	-80.69169

JUDAMA 35 5000.14 Build 85

WV Department of Environmental Protection



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

Site: Keith Stern

Well: Keith Stern S-19 HU (slot Q)

Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Keith Stern S-19 HU (slot Q)

GL @ 744.00usft GL @ 744.00usft

Grid

Minimum Curvature

Measured			Vertical			Map	Мар		
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
4,699.99	0.00	0.00	4,695.36	29,33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.69169
4,799.99	0.00	0.00	4,795.36	29.33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80,6916
4,899,99	0.00	0.00	4,895.36	29.33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.6916
4,999.99	0.00	0.00	4,995.36	29.33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.6916
5,099.99	0.00	0.00	5,095.36	29.33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.6916
5,199.99	0.00	0.00	5,195.36	29,33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.6916
5,299.99	0.00	0.00	5,295.36	29.33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.6916
5,399.99	0.00	0.00	5,395.36	29.33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.6916
5,499.99	0.00	0.00	5,495.36	29.33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.6916
5,599.99	0.00	0.00	5,595.36	29.33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.6916
5,699.99	0.00	0.00	5,695.36	29.33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.6916
5,799.99	0.00	0.00	5,795.36	29.33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.69169
5,899.99	0.00	0.00	5,895.36	29,33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.69169
5,999.99	0.00	0.00	5,995.36	29.33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.6916
6,099.99	0.00	0.00	6,095.36	29.33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.6916
6,199.99	0.00	0.00	6,195.36	29.33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.6916
6,299.99	0.00	0.00	6,295.36	29.33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.6916
6,399.99	0.00	0.00	6,395.36	29.33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.6916
6,499.99	0.00	0.00	6,495.36	29.33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.6916
6,599.99	0.00	0.00	6,595.36	29.33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.6916
6,699.99	0.00	0.00	6,695.36	29.33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.6916
6,799.99	0.00	0.00	6,795.36	29.33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.6916
6,899.99	0.00	0.00	6,895.36	29.33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.6916
6,999,99	0.00	0.00	6,995.36	29.33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.6916
7,099.99	0.00	0.00	7,095.36	29.33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.6916
7,199.99	0.00	0.00	7,195.36	29.33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.69169
7,299.99	0.00	0.00	7,295.36	29.33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.6916
7,399.99	0.00	0.00	7,395.36	29,33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.69169
7,499.99	0.00	0.00	7,495.36	29.33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.69169
7,504.63	0.00	0.00	7,500.00	29.33	109.46	14,444,919.65	1,727,041.93	39.77490955	-80.6916
CANADA STATE	/100' build								
7,599.98	2.86	90.00	7,595.32	29.33	111.84	14,444,919.65	1,727,044.30	39.77490953	-80.6916
7,671.30	5.00	90.00	7,666.46	29.33	116.72	14,444,919.65	1,727,049.19	39.77490948	-80.6916
7,699.98	5.86	90.00	7,695.01	29.33	119.44	14,444,919.65	1,727,051.91	39.77490946	-80.6916
7,799.98	8.86	90.00	7,794.18	29.33	132.25	14,444,919.65	1,727,064.72	39.77490934	-80.6916
7,899.98	11.86	90.00	7,892,54	29,33	150.23	14,444,919.65	1,727,082.70	39.77490917	-80.6915
7,971.30	14.00	90.00	7,962.04	29.33	166.19	14,444,919.65	1,727,098.66	39,77490901	-80.6914
The second second	/100' build/tur								
7,999.98	14.81	91.14	7,989.82	29.26	173.32	14,444,919.58	1,727,105.79	39.77490875	-80.6914
8,099.98	17.68	94.30	8,085.82	27,86	201.25	14,444,918.19	1,727,133.72	39.77490466	-80.6913
8,199.98	20.58	96.60	8,180.29	24.70	233.86	14,444,915.03	1,727,166.33	39.77489567	-80.6912
8,299.98	23.51	98.35	8,272.97	19.78	271.07	14,444,910.11	1,727,203.54	39.77488181	-80.6911
8,373.56	25,68	99.40	8,339.86	15,05	301.32	14,444,905.37	1,727,233.79	39,77486852	-80.6910
	6.68° tangent								
8,399.98	25.68	99.40	8,363.68	13.18	312.62	14,444,903.50	1,727,245.09	39.77486328	-80.6909
8,499.98	25.68	99.40	8,453.80	6.10	355.36	14,444,896.43	1,727,287.83	39.77484344	-80.6908
8,599.98	25.68	99.40	8,543.93	-0.97	398.11	14,444,889.36	1,727,330.58	39.77482361	-80.6906
8,699.98	25,68	99.40	8,634.05	-8.04	440.86	14,444,882.28	1,727,373.33	39.77480378	-80.6905
8,799.98	25.68	99.40	8,724.18	-15.12	483,61	14,444,875.21	1,727,416.08	39.77478395	-80.6903
8,899.98	25,68	99,40	8,814.30	-22.19	526.35	14,444,868.14	1,727,458.82	39.77476411	-80,6902
8,999,98	25,68	99.40	8,904.43	-29.27	569.10	14,444,861.06	1,727,501.57	39.77474428	-80.6900
9,099.98	25.68	99.40	8,994.56	-36.34	611.85	14,444,853.99	1,727,544.32	39,77472445	-80,68990
9,199.98	25.68	99.40	9,084.68	-43.41	654.60	14,444,846.91	1,727,587.07	39.77470461	-80.6897
9,299.98	25,68	99.40	9,174.81	-50.49	697.34	14,444,839.84	1,727,629.81	39.77468478 RECEIVED	-80,6895

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Page 4

COMPASS 5000, 14 Build 85

WV Department of



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

Project: Site:

Keith Stern

Well: Wellbore: Keith Stern S-19 HU (slot Q)

Wellbore: Design: Original Hole rev1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Keith Stern S-19 HU (slot Q)

GL @ 744.00usft GL @ 744.00usft

Grid

Minimum Curvature

anned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,399,98	25.68	99.40	9,264.93	-57.56	740.09	14,444,832,77	1,727,672,56	39.77466495	-80.689447
9,499.98	25.68	99.40	9,355.06	-64.63	782.84	14,444,825,69	1,727,715.31	39.77464511	-80.68929
9,599.98	25.68	99.40	9,445.18	-71.71	825.58	14,444,818.62	1,727,758.05	39.77462528	-80.689143
9,699.98	25,68	99.40	9,535.31	-78.78	868.33	14,444,811.54	1,727,800.80	39.77460544	-80,688991
		99.40			911.08			39.77458561	-80,688838
9,799.98	25.68		9,625.43	-85.86		14,444,804.47	1,727,843.55 1,727,886.30	39.77456577	-80,688686
9,899.98	25.68	99.40	9,715.56	-92.93	953.83	14,444,797.40			-80.68853
9,999.98	25.68	99.40	9,805.68	-100.00	996.57	14,444,790.32	1,727,929.04	39.77454594	-80,68838
10,099.98	25.68	99.40	9,895.81	-107.08	1,039.32	14,444,783.25	1,727,971.79	39.77452610	
10,199.98	25.68	99.40	9,985.94	-114.15	1,082.07	14,444,776.17	1,728,014.54	39.77450627	-80.68823
10,299.98	25.68	99.40	10,076.06	-121.23	1,124.81	14,444,769.10	1,728,057.28	39.77448643	-80,68807
10,399.98	25.68	99.40	10,166.19	-128.30	1,167.56	14,444,762.03	1,728,100.03	39.77446660	-80.68792
10,499.98	25.68	99.40	10,256.31	-135.37	1,210.31	14,444,754.95	1,728,142.78	39,77444676	-80.68777
10,599.98	25.68	99.40	10,346.44	-142.45	1,253.06	14,444,747.88	1,728,185.53	39.77442692	-80.68762
10,699.98	25.68	99.40	10,436.56	-149.52	1,295.80	14,444,740.80	1,728,228.27	39.77440709	-80.68747
10,799.98	25.68	99.40	10,526.69	-156.60	1,338.55	14,444,733.73	1,728,271.02	39.77438725	-80.68731
10,899.98	25.68	99.40	10,616.81	-163.67	1,381.30	14,444,726.66	1,728,313.77	39.77436741	-80.68716
10,950.59	25.68	99.40	10,662.43	-167.25	1,402.93	14,444,723.08	1,728,335.40	39.77435737	-80,68708
Begin 8°	/100' build/tur	n							
10,999.98	26.22	108.35	10,706.85	-172.43	1,423.85	14,444,717.89	1,728,356,32	39.77434294	-80.68701
11,099,98	28,87	124.74	10,795.64	-193.18	1,464.72	14,444,697.15	1,728,397.19	39.77428558	-80.68686
11,199.98	33.14	137.91	10,881.43	-227.27	1,502.95	14,444,663.05	1,728,435,42	39.77419158	-80.68673
11,299.98	38.50	148.09	10,962.56	-274.06	1,537.78	14,444,616.27	1,728,470.25	39.77406275	-80,68661
11,325,65	40.00	150.31	10,982.44	-288.01	1,546.09	14,444,602.31	1,728,478,56	39.77402435	-80,68658
	1°/100' build	400100	C340 9/31(/C)		excheleo.	4.0444.012.0202.4	317-5135-155	.0710.0300.000	37,777,774
11,399.98	47.44	150.31	11,036.12	-332.61	1,571.51	14,444,557.72	1,728,503.98	39.77390164	-80.68649
11,499.98	57.44	150.31	11,097.01	-401.38	1,610.72	14,444,488.94	1,728,543.19	39.77371239	-80.68635
11,599.98	67.44	150.31	11,143.22	-478.30	1,654.58	14,444,412.03	1,728,587.05	39.77350075	-80.68619
11,699.98	77.44	150.31	11,173.36	-561.01				39.77327313	-80.68603
The second second second	87.44	150.31			1,701.73	14,444,329,31	1,728,634.20		-80.68585
11,799.98			11,186.51	-647.02	1,750.77	14,444,243.31	1,728,683.24	39,77303646	
11,815.65	89,00	150.31	11,187.00	-660.63	1,758.53	14,444,229.70	1,728,691.00	39.77299901	-80,68583
	.00° lateral	122.70	10112012	255-12	COLLEGE			COMMITTEE IN	27 15212
11,899.98	89.00	150.31	11,188.47	-733.87	1,800.29	14,444,156.45	1,728,732.76	39.77279745	-80.68568
11,999.98	89.00	150.31	11,190.21	-820.73	1,849.81	14,444,069.59	1,728,782.28	39.77255844	-80.68550
12,099.98	89.00	150.31	11,191.95	-907.59	1,899.33	14,443,982.73	1,728,831.80	39.77231942	-80.68533
12,199.98	89.00	150.31	11,193.69	-994.45	1,948.85	14,443,895.87	1,728,881.32	39.77208040	-80,68515
12,299.98	89.00	150.31	11,195.43	-1,081.31	1,998.37	14,443,809.01	1,728,930.84	39.77184139	-80.68498
12,399.98	89.00	150.31	11,197.17	-1,168.17	2,047.89	14,443,722.15	1,728,980.36	39.77160237	-80.68480
12,499.98	89,00	150.31	11,198.91	-1,255.03	2,097.41	14,443,635.29	1,729,029.88	39,77136335	-80,68463
12,599.98	89.00	150.31	11,200.65	-1,341.89	2,146.94	14,443,548.43	1,729,079.40	39.77112433	-80.68445
12,699.97	89,00	150.31	11,202.39	-1,428.75	2,196.46	14,443,461.57	1,729,128.93	39.77088531	-80.68428
12,799,97	89,00	150.31	11,204.13	-1,515.61	2,245.98	14,443,374.71	1,729,178.45	39.77064630	-80.68410
12,899.97	89.00	150.31	11,205.87	-1,602.47	2,295.50	14,443,287.85	1,729,227.97	39.77040728	-80.68393
12,999.97	89.00	150.31	11,207.61	-1,689.33	2,345.02	14,443,201.00	1,729,277.49	39.77016826	-80.68375
13,099.97	89.00	150.31	11,209.35	-1,776.19	2,394.54	14,443,114.14	1,729,327.01	39.76992924	-80.68358
13,199.97	89.00	150.31	11,211.09	-1,863.05	2,444.06	14,443,027.28	1,729,376.53	39.76969022	-80.68340
13,299.97	89.00	150.31	11,212.83	-1,949.91	2,493.58	14,442,940.42	1,729,426.05	39.76945120	-80.68323
13,399.97	89.00	150,31	11,214.58	-2,036.77	2,543.10	14,442,853.56	1,729,475.57	39.76921218	-80.68305
13,499.97	89.00	150.31	11,216.32	-2,123.63	2,592.62	14,442,766.70	1,729,525.09	39.76897316	-80.68287
13,599.97	89.00	150.31	11,218.06	-2,210.49	2,642.15	14,442,679.84	1,729,574.62	39.76873414	-80.68270
13,699.97	89.00	150.31	11,219.80	-2,297.35	2,691.67	14,442,592.98	1,729,624.14	39.76849511	-80.68252
13,799.97	89.00	150.31	11,221.54	-2,384,21	2,741.19	14,442,506.12	1,729,673.66		-80.68235
13,899.97	89.00	150.31	11,223.28	-2,471.07	2,790.71			39.76825609	-80.68217
13,999.97	89.00	150.31	11,225.20	-2,557.93		14,442,419.26	1,729,723.18	39,76801707	-80.68200
14,099,97	89.00				2,840.23	14,442,332.40	1,729,772.70	39.76777805	
14,099.97	09.00	150.31	11,226.76	-2,644.79	2,889.75	14,442,245.54	1,729,822.22	39.76753903	-80.68182

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Office WAS 5000, 14 Build 85

JUN 13 2019



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

Site: Keith Stern

Well: Keith Stern S-19 HU (slot Q)
Wellbore: Original Hole

Wellbore: Origin Design: rev1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Keith Stern S-19 HU (slot Q)

GL @ 744.00usft GL @ 744.00usft

Grid

Minimum Curvature

anned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
14,199.97	89.00	150.31	11,228.50	-2,731.65	2,939.27	14,442,158.68	1,729,871.74	39.76730000	-80.681653
14,299.97	89.00	150.31	11,230.24	-2,818.51	2,988.79	14,442,071.82	1,729,921.26	39.76706098	-80.681478
14,399.97	89.00	150.31	11,231.98	-2,905.37	3,038.31	14,441,984.96	1,729,970.78	39.76682196	-80.681303
14,499.97	89.00	150.31	11,233.72	-2,992.23	3,087.83	14,441,898.10	1,730,020.30	39.76658294	-80.681128
14,599.97	89.00	150.31	11,235.46	-3,079.09	3,137.36	14,441,811.24	1,730,069.83	39.76634391	-80.680953
14,699.97	89.00	150.31	11,237.20	-3,165.95	3,186.88	14,441,724.38	1,730,119.35	39.76610489	-80.680778
14,799.97	89.00	150.31	11,238.94	-3,252.80	3,236.40	14,441,637.52	1,730,168.87	39.76586586	-80.680603
14,899.97	89.00	150.31	11,240.68	-3,339.66	3,285.92	14,441,550.66	1,730,218.39	39.76562684	-80,680428
14,999.97	89.00	150.31	11,242.42	-3,426.52	3,335.44	14,441,463.80	1,730,267.91	39.76538781	-80,680252
15,099.97	89.00	150.31	11,244.16	-3,513.38	3,384.96	14,441,376.94	1,730,317.43	39.76514879	-80.680077
15,199.97	89.00	150.31	11,245.90	-3,600.24	3,434.48	14,441,290.08	1,730,366.95	39.76490976	-80.679902
15,299.97	89.00	150.31	11,247.64	-3,687.10	3,484.00	14,441,203.22	1,730,416.47	39.76467074	-80.679727
15,399.97	89.00	150.31	11,249.38	-3,773.96	3,533.52	14,441,116.36	1,730,465.99	39.76443171	-80.679552
15,499.97	89.00	150.31	11,251.12	-3,860.82	3,583.04	14,441,029.50	1,730,515.51	39.76419269	-80.679377
15,599.97	89.00	150.31	11,252.87	-3,947.68	3,632.57	14,440,942.64	1,730,565.04	39.76395366	-80.679202
15,699.97	89.00	150.31	11,254.61	-4,034.54	3,682.09	14,440,855.78	1,730,614.56	39.76371463	-80.679027
15,799.97	89.00	150.31	11,256.35	-4,121.40	3,731.61	14,440,768.92	1,730,664.08	39.76347561	-80.678852
15,899.97	89.00	150.31	11,258.09	-4,208.26	3,781.13	14,440,682.07	1,730,713.60	39.76323658	-80.678676
15,999.97	89.00	150.31	11,259.83	-4,295,12	3,830,65	14,440,595.21	1,730,763.12	39.76299755	-80.678501
16,099.97	89.00	150.31	11,261.57	-4,381.98	3,880.17	14,440,508.35	1,730,812.64	39.76275853	-80.678326
16,199.97	89.00	150.31	11,263.31	-4,468.84	3,929.69	14,440,421.49	1,730,862.16	39.76251950	-80.678151
16,299,97	89.00	150.31	11,265.05	-4,555.70	3,979.21	14,440,334.63	1,730,911.68	39.76228047	-80.677976
16,399.97	89.00	150.31	11,266.79	-4,642.56	4,028.73	14,440,247.77	1,730,961.20	39.76204144	-80.677801
16,499.97	89.00	150.31	11,268.53	-4,729.42	4,078.26	14,440,160.91	1,731,010.72	39.76180241	-80.677626
16,599.97	89.00	150.31	11,270.27	-4,816.28	4,127.78	14,440,074.05	1,731,060.25	39.76156338	-80.677451
16,699.97	89.00	150.31	11,272.01	-4,903.14	4,177.30	14,439,987.19	1,731,109.77	39.76132435	-80.677276
16,799.97	89.00	150.31	11,273.75	-4,990.00	4,226.82	14,439,900.33	1,731,159.29	39.76108532	-80,677101
16,899.97	89.00	150.31	11,275.49	-5,076.86	4,276.34	14,439,813.47	1,731,208.81	39.76084629	-80.676925
16,999.97	89.00	150.31	11,277.23	-5,163.72	4,325.86	14,439,726.61	1,731,258.33	39.76060726	-80.676750
17,099.97	89.00	150.31	11,278.97	-5,250.58	4,375.38	14,439,639.75	1,731,307.85	39.76036823	-80.676575
17,199.97	89.00	150.31	11,280.71	-5,337.44	4,424.90	14,439,552.89	1,731,357.37	39.76012920	-80.676400
17,299.97	89,00	150.31	11,282.45	-5,424.30	4,474.42	14,439,466.03	1,731,406.89	39.75989017	-80.676225
17,399.97	89.00	150.31	11,284.19	-5,511.16	4,523.94	14,439,379.17	1,731,456.41	39.75965114	-80.676050
17,499.97	89.00	150.31	11,285,93	-5,598.02	4,573.47	14,439,292.31	1,731,505.94	39.75941211	-80.675875
17,599.97	89.00	150,31	11,287,67	-5,684.88	4,622.99	14,439,205.45	1,731,555.46	39,75917308	-80.675700
17,699.96	89.00	150.31	11,289.42	-5,771.73	4,672.51	14,439,118.59	1,731,604.98	39.75893405	-80.675525
17,799.96	89.00	150.31	11,291.16	-5,858.59	4,722.03	14,439,031.73	1,731,654.50	39.75869501	-80.675350
17,899.96	89.00	150.31	11,292.90	-5,945.45	4,771.55	14,438,944.87	1,731,704.02	39.75845598	-80.675174
17,999.96	89.00	150,31	11,294.64	-6,032.31	4,821.07	14,438,858.01	1,731,753.54	39.75821695	-80.674999
18,099.96	89.00	150.31	11,296.38	-6,119.17	4,870.59	14,438,771.15	1,731,803.06	39.75797792	-80.674824
18,199.96	89.00	150.31	11,298.12	-6,206.03	4,920.11	14,438,684.29	1,731,852.58	39.75773888	-80.674649
18,299.96	89.00	150.31	11,299.86	-6,292.89	4,969.63	14,438,597.43	1,731,902.10	39.75749985	-80.674474
18,399.96	89.00	150.31	11,301.60	-6,379.75	5,019.15	14,438,510.57	1,731,951.62	39.75726081	-80.674299
18,499.96	89.00	150.31	11,303.34	-6,466.61	5,068.68	14,438,423.71	1,732,001.15	39.75702178	-80,674124
18,537.94	89.00	150,31	11,304.00	-6,499.60	5,087.48	14,438,390.73	1,732,019.95	39.75693100	-80.674058

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JUN 1 3 2019

WV Department of Envisamental Protection Envisamental Protection Envisamental Protection



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

Site:

Well: Keith Stern S-19 HU (slot Q)

Keith Stern

Wellbore: Design: Keith Stern S-19 HU (s Original Hole

rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well Keith Stern S-19 HU (slot Q)

GL @ 744.00usft GL @ 744.00usft

Grid

Minimum Curvature

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle	Dip Dir.	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LP Keith Stern S-19 HU - plan hits target cent - Point	0.00 er	0.00	11,187.00	-660.63	1,758.53	14,444,229.69	1,728,691.00	39.77299900	-80.68583001
BHL Keith Stern S-19 HI - plan hits target cent - Point	0.00 er	0.00	11,304.00	-6,499.60	5,087.48	14,438,390.73	1,732,019.95	39.75693100	-80.67405800

Measured	Vertical	Local Coor	dinates		
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment	
1,400.00	1,400.00	0.00	0.00	KOP Begin 2°/100' build	
1,650.00	1,649.68	2.82	10.53	Begin 5.00° tangent	
2,700.00	2,695.69	26.51	98.93	Begin 2°/100' drop	
2,950.00	2,945.37	29.33	109.46	Begin vertical hold	
7,504.63	7,500.00	29.33	109.46	Begin 3°/100' build	
7,971.30	7,962.04	29.33	166.19	Begin 3°/100' build/turn	
8,373.56	8,339.86	15.05	301.32	Begin 25.68° tangent	
10,950.59	10,662.43	-167.25	1,402.93	Begin 8°/100' build/turn	
11,325.65	10,982.44	-288.01	1,546.09	Begin 10°/100' build	
11,815.65	11,187.00	-660.63	1,758.53	Begin 89.00° lateral	
18,537.94	11,304.00	-6,499.60	5,087.48	PBHL/TD 18537.94 MD/11304.00 TVD	

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JUN 1 3 2019

WV Department of Complication Completes 5000.14 Build 85

API Number	47 -	051	
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Operator's Well No. Keith Stern S-19HU

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 co	mplete the proposed well work? Yes V No
Will a pit be used? Yes No	
If so, please describe anticipated pit waste: AST Ta	anks 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 containing
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
	rmit Number UIC 2459, UIC 965, UIC 359, UIC 2D0732540, UIC 2D0732523
Reuse (at API Number Off Site Disposal (Supply form V	WW-9 for disposal location)
Other (Explain_	The state of the s
Will closed loop system be used? If so, describe: Yes - For	Vertical and Horizontal Drilling
Drilling medium anticipated for this well (vertical and horiz	ontal)? 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	
Orill cuttings disposal method? Leave in pit, landfill, remov	ved offsite, etc. All drill cuttings to be disposed of in a Landfill
-If left in pit and plan to solidify what medium will	
-Landfill or offsite name/permit number? weizer county	Sanitary Landfil (SWF-1021 / WV0109185) and Westmoreland Sanitary Landfill, LLC (SAN1405 / PA DEP EC#1386426)
	nd Gas of any load of drill cuttings or associated waste rejected at any ded within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the West provisions of the permit are enforceable by law. Violation law or regulation can lead to enforcement action. I certify under penalty of law that I have person application form and all attachments thereto and that, be	and conditions of the GENERAL WATER POLLUTION PERMIT issued to Virginia Department of Environmental Protection. I understand that the sof any term or condition of the general permit and/or other applicable ally examined and am familiar with the information submitted on this ased on my inquiry of those individuals immediately responsible for its true, accurate, and complete. I am aware that there are significant sibility of fine or imprisonment.
Company Official Title Vice President Geoscience	
	RECEIVED Office of Oil and Ga
Subscribed and sworn before me this 30 day of	APRIL , 20 19 JUN 1 3 2019
Wanver A Stead	Notary Publicommonwealth of Payin Persis Proces MAUREEMANTEON Public Washington County
My commission expires 128123	My Commission Expires Jan 28, 20: Commission Number 1259926

Ibs/acre
3
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JUN 1
WV Depa Environmen

PROPOSED KEITH STERN S - 19HU

CONSTRI

STOCKOME



- On 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 WY 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 QUIDELINES AND THE EARTHWORK CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION TO THE INSPECTOR AND THE OPERATOR SHOULD THESE CONDITIONS OCCUR.
- INSTALL CULVERTS AS SHOWN ON RECLAMATION PLAN OR AS FIELD CONDITIONS REQUIRE.
- ENTRANCES ONTO PUBLIC ROADS SHALL BE CONSTRUCTED OR MAINTAINED IN ACCORDANCE WITH WW 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.
- 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.
- SEE KEITH STERN S SITE PLAN PREPARED BY KELLEY SURVEYING, FOR COMPLETE CONSTRUCTION & EROSION AND SEDIMENT CONTROL DETAILS.

20' @ 0-5% GRADE

60' @ 5-10% GRADE 170' @ 10-15% GRADE

20' @ 5-10% GRADE

300' @ 0-5% GRADE

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JUN 1 3 2019

W Department of Environmental Protection

SILT FENCE AND/OR SEDIMENT AND EROSION CONTROL MEASURE.



Land & Energy Development

Solutions from the ground up.

2.0. Box 150 •12 Vanhom Drive • Glenville, WV 26351 •(304) 462-5634

www.slssurveys.com

ĺ	TOPO SE	CTION:	OPERAT	OR:		
	GLEN EAS	STON 7.5'	PREPARED FOR: TUG HILL OPERATING, LLC 380 SOUTHPOINTE BLVD			
į	COUNTY	DISTRICT				
	MARSHALL	MEADE	SUITE 200 CANONSBURG, I	PA 15317		
ľ	DRAWN BY	JOB NO.	DATE	SCALE		
ļ	K.G.M.	8811	05/01/2019	NONE		

KEITH STERN S





Well Site Safety Plan

Tug Hill Operating, LLC

Jul19

Well Name: Keith Stern S-19HU

Pad Location: Keith Stern

Marshall County, West Virginia

UTM (meters), NAD83, Zone 17

Northing:4,402,811.38

Easting: 526,370.07

May 2019

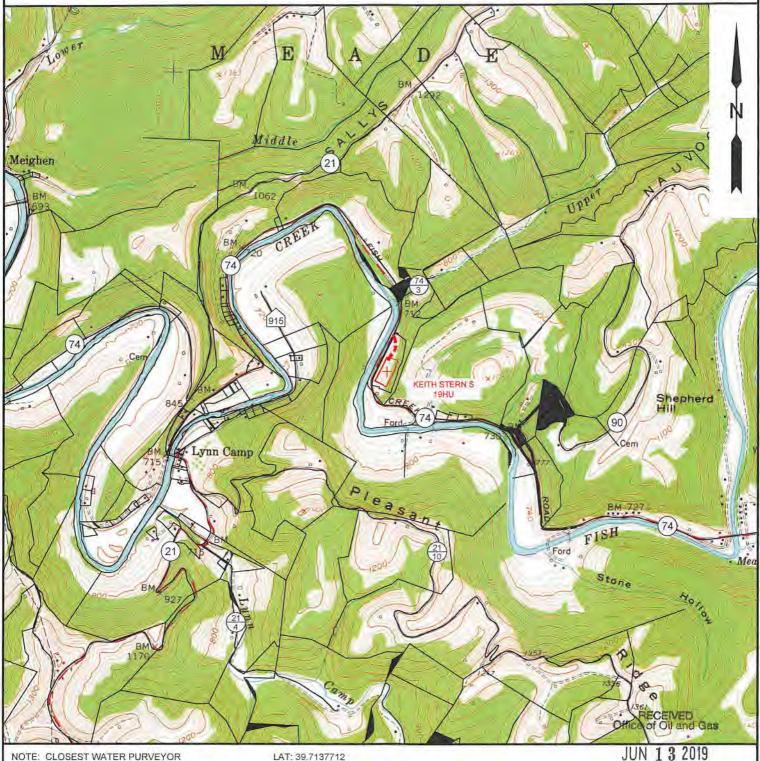
Office of Oil and Gas

JUN 1 3 2019

WV Department of Environmental Protection

SUPPLEMENT PG. 2

PROPOSED KEITH STERN S - 19HU



NOTE: CLOSEST WATER PURVEYOR GRANDVIEW - DOOLIN PUBLIC SERVICE DISTRICT LAT: 39.7137712 LON: -80.8258327

LOCATED: S 60°11'49" W AT 43,719.31' FROM THE CENTER OF KEITH STERMANDELL PARENCATION.

Land	& Energy Development
	Solutions from the ground up.
P,O, Box 150	12 Vanhorn Drive

TOPO SI	ECTION:	OPERATOR: PREPARED FOR: TUG HILL OPERATING, LLC			
GLEN EAS	STON 7.5'				
COUNTY DISTRICT		380 SOUTHPOINTE BLVD			
MARSHALL MEADE		SUITE 200 CANONSBURG	PA 15317		
DRAWN BY	JOB NO.	DATE	SCALE		
K.G.M.	8811	05/01/2019	1" - 2000'		



MAP/FARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-13-11.1	SAMUEL & HEATHER SUHODOLSKI	0.49
9-13-14	MARGARET K. FOX - LIFE	3,00
9-14-1.1	MICHAEL L. ALVAREZ	1.6
9-14-1.2	KENNETH N. & TERESA A. SMERTNECK	1.02
9-14-2	MICHAEL L. ALVAREZ	0.75
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 A.C.
9-14-10	ROBERT I. DUFFY - LIFE	25/100 AC.
9-14-11.1	PATRICK J. SCHELLHASE EST - TRUST	7.617
9-14-11.2	LOYE A, BLAKE	4.00
9-14-26	PATRICK L 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	ROBERT WILLIAM BERISFORD	13.50
9-15-41	CHARLES RICHARD MCCOY, ET UX	4,50
9-15-42	ROBERT MATHEW MASON	2.63

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. 466,555.46 E. 1.633.457.30 LAT-(N) 39.774830 LONG-(W) 80.692080 NAD'83 UTM (M) E. 526,370.07

N. 4,402,811.38 LANDING POINT NAD'83 S.P.C.(FT) N. 465,865.3

E. 1.635.205.1 LAT-(N) 39.772999 LONG-(W) 80.685830 N. 4,402,610.0 E. 526,906.1

<u>BOTTOM HOLE</u> NAD'83 S.P.C.(FT) N. 459,969.6 NAD'83 GEO. NAD'83 UTM (M)

NAD'83 GEO. NAD'83 UTM (M)

T.H.

E. 1.638.437.2

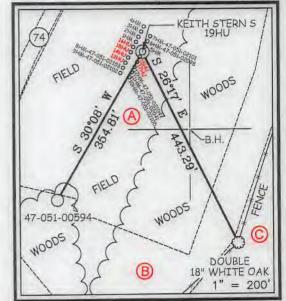
LAT-(N) 39.756931 LONG-(W) 80.674058 N. 4,400,830.3 E. 527,920.7

NOTES ON SURVEY

1. 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. 2. WELL SPOT CIRCLE & TOPO MARK SCALE ARE 1"=2000'

3. PROPOSED LATERAL OR TOP HOLE OF KEITH STERN S-19HU 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, PROPOSED KNOB CREEK N-13HU, PROPOSED KNOB CREEK S-16HU & PROPOSED HEAVEN HILL 3-6HU,

REFERENCES



Land & Energy Development

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 No. 849
* STATE OF ST

REVISED JUNE 11

OPERATORS WELL NO. KEITH STERN S-19HU

WELL

DATE_

STATE

MAY 1

02244 PERMIT

MINIMUM DEGREE OF ACCURACY HORIZONTAL & VERTICAL

CONTROL DETERMINED BY

1/2500

FILE NO. 8811P19HUR.dwg

KEITH STERN S-19HU-REV1

DGPS (SURVEY GRADE TIE TO CORS NETWORK)

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

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

051

COUNTY



WASTE LIQUID _ DEEP_X_ SHALLOW _ "GAS" PRODUCTION _X_ STORAGE___ GAS X INJECTION DISPOSAL OIL GROUND = 745.00' LOCATION: FISH CREEK (HUC 10) ELEVATION PROPOSED = 744.65 WATERSHED_ COUNTY MARSHALL GLEN EASTON 7.5' QUADRANGLE __ DISTRICT MEADE COUNTY SURFACE OWNER _____ TH EXPLORATION, LLC 10.05± ACREAGE -ROYALTY OWNER ___ISAAC CROW, ET AL - SEE WW-6A1 ACREAGE _ SEE WW-6A1

PROPOSED WORK:

FORMATION_

_ CONVERT ____ DRILL DEEPER ____

LEASE NO. _ REDRILL FRACTURE OR STIMULATE X PLUG OFF OLD

PLUG AND ABANDON

__ CLEAN OUT AND REPLUG____ OTHER POINT PLEASANT

IARGET FURIVIATION.		1 01111 1 11111111111
ESTIMATED DEPTH_	TVD:	11,404' / TMD: 18,

WELL OPERATOR TUG HILL OPERATING, LLC

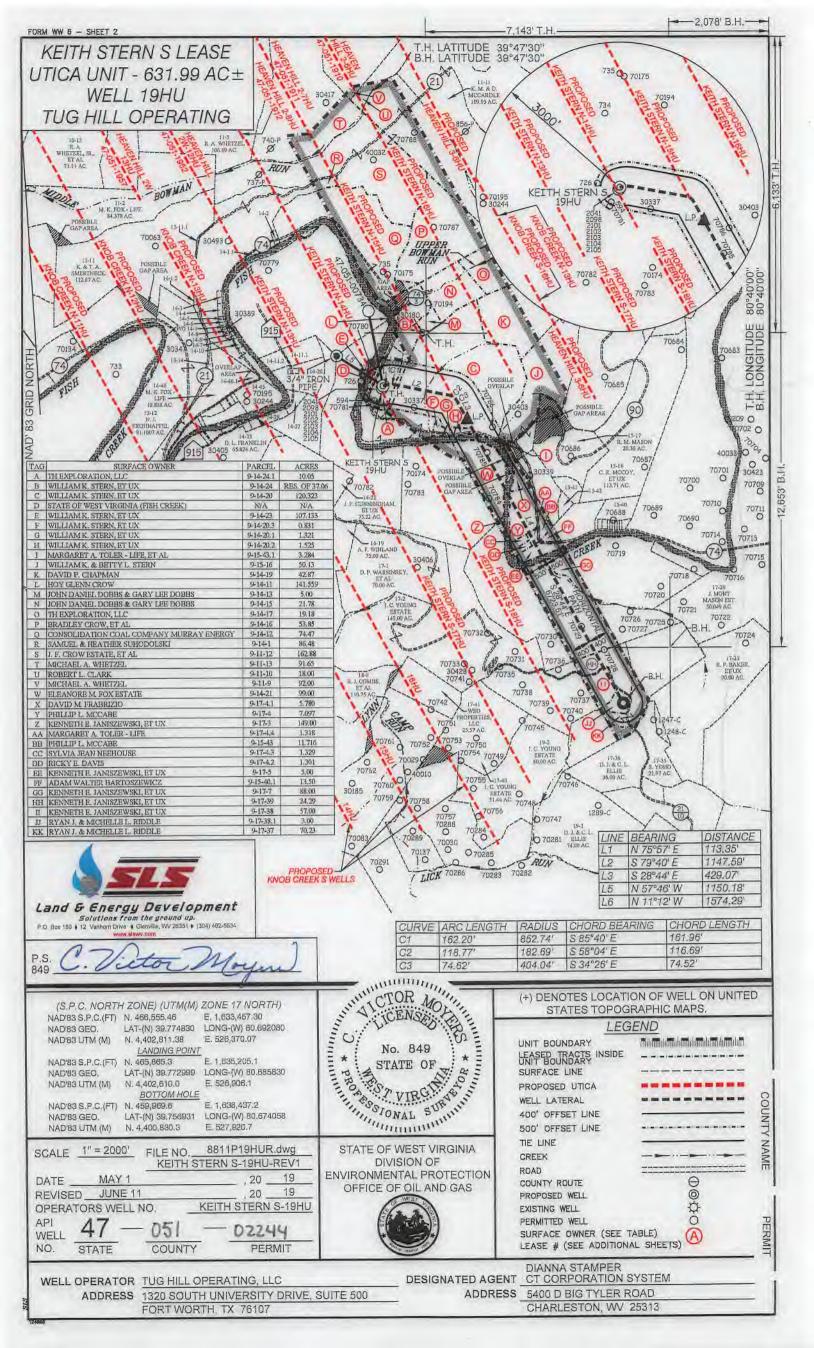
PHYSICAL CHANGE IN WELL (SPECIFY)

ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107

_ PERFORATE NEW FORMATION ___

DESIGNATED AGENT DIANNA STAMPER CT CORPORATION SYSTEM

ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313





NO.	Lease ID	Tag	Parcel	Grantor, Lessor, Etc.	Deed Bo	
1	10"15605	A	9-14-24.1	ISAAC CROW ET UX	74	394
2	10*15605	В	9-14-24	ISAAC CROW ET UX	74	394
3	10*15509 10*23458	D	9-14-20	WILUAM K STERN AND BETTY I. STERN WEST VIRGINIA DIVISION OF NATURAL RESOURCES	718 1019	320
5	10*15812	E	9-14-23	WILLIAM K STERN AND BETTY L STERN	687	373 220
6	10*16436	E	9-14-23	REAGAN D YEATTS AND CHRISTOPHER M YEATTS	961	339
7	10*18269	E	9-14-23	GENELDA MASON	942	460
8	10*18299	E	9-14-23	CAROL L BOBBY AND DONALD J BOBBY	929	281
9	10°18354	E	9-14-23	DEBORAH L TURLEY	931	352
10	10*18355	E	9-14-23	JUDITH F TEMPLE AND LOUIS I TEMPLE	931	350
11	10*18356	E	9-14-23	LARRY W ALLEY	931	348
12	10*18357	E	9-14-23	DEBORAH SUE KYLE	931	346
13	10*18358	E	9-14-23	SHARLA ROLLINS AND GARY ROLLINS	931	358
14	10*18419	E	9-14-23	CARLA MAE ALLEY	932	539
15	10*18420	E	9-14-23	VICTOR E ALLEY JR AND DEBRA A ALLEY	932	582
16	10*18421 10*18429	E	9-14-23	DONNA JUNE STRAIT AND GARY ESTRAIT	932	588 601
17	10*18430	E	9-14-23 9-14-23	GEORGE L DUNN AND NANCY MARIE DUNN JAMES DUNN AND DONNA K DUNN	932	604
19	10*18432	E	9-14-23	ROSEMARIE BERISFORD	932	572
20	10*18484	E	9-14-23	BRENDA REED	933	107
21	10*18485	E	9-14-23	BARBARA JO BEVERIDGE	933	109
22	10*18490	E	9-14-23	STACY L BARNHART	933	123
23	10*18491	E	9-14-23	LORI A FARMER AND DANIEL K FARMER	933	131
2.4	10*18512	E	9-14-23	CHRISTINA NESTELL AND CHARLES E NESTELL III	933	565
25	10*18515	E	9-14-23	WILLIAM P DAUBE	933	573
26	10*18518	E	9-14-23	SUSAN I BAKER	933	580
27	10*18520	E	9-14-23	CHRISTOPHER SAUDERS	933	584
28	10*18612	E	9-14-23	NANNETTE BERLETCH	932	542
29	10*18617	E	9-14-23	SHEILA SIMMONS AND JEFFREY R SIMMONS	934	613
30	10*18644	E	9-14-23	FRANK A STORCH JR AND SUSAN STORCH	936	149
31	10*18645	E	9-14-23	SANDRA SUE HALL AND DAVID HALL PETER G STORCH AND LAURIE L STORCH	936 936	152
32	10*18647	E	9-14-23 9-14-23	LAWRENCE E CHIAPPETTA AND PATRICIA A CHIAPPETTA	936	161
33	10*18648	E	9-14-23	RODNEY K BANE AND CATHIE J BANE	936	164
35	10*18649	E	9-14-23	BECKY LANDRIS	936	172
36	10*18652	E	9-14-23	DALE R ALLEY	936	174
37	10*18673	E	9-14-23	RACHEL THORNE AND FRED THORNE JR	938	574
38	10*18674	E	9-14-23	JOHN T CRISWELL AND CATHERINE A CRISWELL	938	579
39	10*18675	E	9-14-23	JEFFREY BRYAN CRISWELL	938	582
40	10*18676	E	9-14-23	JENNIFER SHAWN GLOVER	938	576
41	10*18577	E	9-14-23	PATRICIA DOFKA	938	585
42	10*18678	E	9-14-23	WILLIAM LINSLEY CRISWEUL	938	588
43	10*18763	E	9-14-23	VAUGHN HONE SR & LINDA MARIE HONE	938	225
44	10*18766	E	9-14-23	TOMALLEY	938	223
45	10*18797	E	9-14-23	DORETTA RUSH	937	622
46	10*18808	E	9-14-23	PATRICIA KIRCHNER	937 937	644
47	10*18809	E	9-14-23	JUDITH C LORADITCH RODNEY W RUSH AND CRYSTAL D RUSH	940	336
48	10*19392	E	9-14-23 9-14-23	BULA F YOST	940	342
50	10*19400	E	9-14-23	ANN MARIE STEVENS AND CURTIS STEVENS	939	287
51	10*19417	E	9-14-23	SYLVIA R SPALENY AND ROBERT A SPALENY	939	595
52	10*19423	E	9-14-23	KEITH W STORCH AND DEBORAH A STORCH	934	600
53	10*19477	E	9-14-23	DEBORAH A MILLER	941	320
54	10*19479	E	9-14-23	DENISE WILLIAMSON	941	329
55	10*19510	E	9-14-23	REED O MILLER	933	571
56	10*19525	E	9-14-23	AUGUSTUS R MCMAHON III AND MICHELE M MCMAHON TRUSTEES OF THE AUGUSTUS R MCMAHON III LIVING TRUST	943	509
	*********		9-14-23	AUGUSTUS RUSH MCMAHON III TRUSTEE OF THE PAMELA J MCMAHON REVCBLE TRUST	953	339
57	10*19527	E	9-14-23	SHAROL K CASADA	943	1
59	10*19530 10*19531	E	9-14-23	DELBERT D RUSH AND BETTY RUTH RUSH	942	615
60	10*19625	E	9-14-23	DURR SUCKEL & ELIZABETH SUCKEL	944	150
61	10*19626	E	9-14-23	LAURIE R BROWN	944	153
62	10*19676	E	9-14-23	RONALD W REINBEAU	944	455
63	10*19677	E	9-14-23	NEIL SCHAFER AND CHRISTAL L SHAFER	944	147
64	10*19681	E	9-14-23	TIMOTHY LEE COLLEY	944	140
65	10*19683	E	9-14-23	TERESA ALLEY	944	145
66	10*19686	E	9-14-23	KAREN J AND MICHAEL E BRUGGEMAN	944	142
67	10*19712	E	9-14-23	CHAZ AARON COLLEY AND DANA COLLINS	957	139
68	10*19723	E	9-14-23	REID ELATTRACHE AND TONYA ELATTRACHE	957 945	131 603
69	10*19859	E	9-14-23	ELIZABETH A STARC	945	601
70	10*19860	E	9-14-23 9-14-23	ALICIA N STARC JOSEPH F STARC JR AND DONNA STARC	945	605
71	10*19861	E	9-14-23	STACY R BENNETT	945	608
73	10*19854	E	9-14-23	JOE Y KELLER JR AND SHARON MARIE KELLER	945	610
74	10*19935	E	9-14-23	SARA E STARC	948	553
75	10*19936	E	9-14-23	SHERWOOD MASON NILA JUNE MASON	948	255
76	10*19940	E	9-14-23	EMMA JO CRISWELL	948	551
77	10*21028	E	9-14-23	BRENDA GILBERT	951	159
78	10*21094	E	9-14-23	KATHERINE DEGROOT AND DANIEL DEGROOT	951	151
79	10*21111	E	9-14-23	DONNA G AND PAUL L CHMELYNSKI	951	154
80	10*21209	E	9-14-23	CHARLES R WILLIAMSON JR	951	157 434
81	10*21228	E	9-14-23	CHARLES F HORNER & LORAINE G HORNER	952 952	434
82	10*21229	E	9-14-23	TARA E CAUSEY	952	625
83	10*21395	E	9-14-23	DANIEL LANDRIS AND JOAN LLANDRIS MICHAEL D ZUCKER	956	647
84	10*21396 10*21441	E	9-14-23	JOSEPH A MURPHY AND VIRGINIA ANNE MURPHY	956	631
86	10*21441	E	9-14-23	ROBERT L LANDRIS AND LIBERTY JANE LANDRIS	956	628
87	10*21443	E	9-14-23	DANIEL E WILLIAMSON AND HEATHER R WILLIAMSON	957	153
88	10*21493	E	9-14-23	DENZIL ALLEY JR	958	64
89	10*21497	E	9-14-23	KATHLEEN G WILLIAMSON	957	324
90	10*21837	E	9-14-23	WILLIAM BRYAN COLLEY	959	627
91	10*21873	E	9-14-23	MICHAEL WAYNE ALLEY AND LINDA ALLEY	953	501
92	10*21961	E	9-14-23	JOHN WILLIAMSON JR	960	24
93	10*21972	E	9-14-23	CATHERINE I AND ERNEST M SILVERIO	960	585
94	10*21979	E	9-14-23	CHARLES C SEAMON	954	340
95	10*21991	E	9-14-23	THE JOANN REILLY TRUST KIMBERLY MAEZ TRUSTEE	953	341
96	10*21997	E	9-14-23	MICHAEL SAUDERS AND AMI SAUDERS	953	505
97	10*22004	E	9-14-23	RALPH EDWARD WILLIAMSON	953 953	507
98	10*22037	E	9-14-23	JOSHUA W SEAMON		

FILE NO. 8811P19HUR.dwg KEITH STERN S-19HU-REV1 DATE _____MAY 1 , 20 ___19 REVISED JUNE 11 , 20 __ 19

KEITH STERN S-19HU OPERATORS WELL NO.

051 02244 WELL NO. STATE COUNTY PERMIT



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



P.S. 849

WELL OPERATOR TUG HILL OPERATING, LLC

ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107

DIANNA STAMPER
DESIGNATED AGENT CT CORPORATION SYSTEM

ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313



99	10*22053	E	9-14-23	LARRY R CRANE	953	344
100	10*22089	E	9-14-23	MARCIA A LUKE	961	333
101	10*22110	E	9-14-23	JENNIFER ALLEY FISHER & ROBERT D FISHER	961	347
102	10*22127	E	9-14-23	JUDITH L BENEDICT AND LOUIS G BENEDICT	961	343
103	10*22150	E	9-14-23 9-14-23	CHAD ERIC BENNETT AND MARY A BENNETT CHARLES F ALLEY TRUST EMMANUEL PREVOLES TRUSTEE	954 970	33B 26
105	10*22257 10*22328	E	9-14-23	JUDITH S KNIGHT	962	276
106	10*22329	E	9-14-23	EARL FRAZIER AND LYDIA ARMENTA	963	128
107	10*22380	E	9-14-23	BRIAN R MORGAN	964	453
108	10*22411	E	9-14-23	DIANNA LEA SHEPARD	970	30
109	10*22461	E	9-14-23	DANNY ECOCHRAN AND LORI ANN COCHRAN	972	40
110	10*22501	E	9-14-23	RANDY W MORRIS SR AND CHERYL MORRIS	966	465
111	10*22502	E	9-14-23	JULIA RAE BROOKS	977	30
112	10*22775	E	9-14-23	SUSAN EXLINE	977	32
113	10*22778	E	9-14-23	AUBREY E REILLY	977	26
114	10*22833	E	9-14-23	BRENDAN Q REILLY	977	28 549
115	10*22848	E	9-14-23	SUSAN L GOLDSBERRY	962 962	547
116	10*22854	E	9-14-23 9-14-23	SALLY M COTEREL-CHANEY UNDA K AND MICHAEL HUMES	948	372
118	10*22878 10*22879	E	9-14-23	JAMES P MILLER	946	215
119	10*23148	E	9-14-23	IDA A ALLEY AND I F ALLEY	117	45
120	10*15957	F	9-14-20.3	BRADLEY CROW AND BETTY L CROW	768	350
121	10*15958	F	9-14-20.3	GLADYS CROW	769	609
122	10*15959	F	9-14-20.3	LEWIS M QUIGLEY AND MAXINE V QUIGLEY	769	603
123	10*15960	F	9-14-20.3	CONNIE HECKLE	770	547
124	10*15961	F	9-14-20.3	H GLENN CROW	770	565
125	10*15962	G	9-14-20.1	BRADLEY CROW AND BETTY L CROW	768	362
126	10*15963	G	9-14-20.1	LEWIS M QUIGLEY AND MAXINE V QUIGLEY	769	415
127	10*15964	G	9-14-20.1	GLADYS CROW	769	410
128	10*15965	G	9-14-20.1	H GLENN CROW	770	535
129	10*15966	G	9-14-20.1	CONNIE HECKLE	770	541
130	10*15509	H	9-14-20.2	WILLIAM K STERN AND BETTY LSTERN	718	320 79
131	10*15836	T	9-15-43.1	LUCINDA RAE ALLEN AND DAVID A ALLEN	742	85
132	10*15837 10*15842	-	9-15-43.1 9-15-43.1	ANITA DIANE ANTILL AND TERRY ANTILL HOMER L SIMMONS AND GLADYS R SIMMONS	742	329
133	10*15842		9-15-43.1	LEO C HILKE AND BETTY M HILKE	924	531
135	10*1/88/		9-15-43.1	MARGARET KUCHARZ AND JAMES C KUCHARZ	962	270
136	10*47051.219.33		9-15-43.1	JOHN H HILKE AND AUDA HILKE	898	602
137	10*47051.219.37	- 75 1	9-15-43.1	SUSAN H KEY	898	621
138	10*47051.219.39	1	9-15-43.1	ALICE THIPPHAVONG AND VISITH THIPPHAVONG	902	437
139	10*15813	1	9-15-16	ROBERT B THOMAS	692	235
140	10*15814	1	9-15-16	MARY E BASSETT	694	499
141	10*15815	-1	9-15-16	FORREST M THOMAS	694	516
142	10*15816	1	9-15-16	SALLY CYNTHIA HOPKINS	697	116
143	10*15817	1	9-15-16	RUTH MEADOWS	703	583
144	10*15818	- 1	9-15-16	ELIZABETH ANN STRAUSBAUGH	703	578
145	10*15819	-1	9-15-16	JANET LEA BLANKENSHIP	708	114
146	10*17445	1	9-15-16	GENEVA BASSETT SANCHEZ	929	292
147	10*21814	- 1	9-15-16	STONE HILL MINERALS HOLDINGS LLC	953 953	335
148	10*21818	1	9-15-16	STONE HILL MINERALS HOLDINGS LLC	961	641
149	10*21862	K	9-15-16 9-14-19	NOBLE MARCELLUS LP ROBERT B THOMAS	692	235
-	10*15813 10*15814	K	9-14-19	MARY E BASSETT	694	499
151	10*15815	K	9-14-19	FORREST M THOMAS	694	516
153	10*15816	K	9-14-19	SALLY CYNTHIA HOPKINS	697	116
154	10*15817	K	9-14-19	RUTH MEADOWS	703	583
155	10*15818	K	9-14-19	EUZABETH ANN STRAUSBAUGH	703	578
156	10*15819	K	9-14-19	JANET LEA BLANKENSHIP	708	114
157	10*17445	K	9-14-19	GENEVA BASSETT SANCHEZ	929	292
158	10*21814	K	9-14-19	STONE HILL MINERALS HOLDINGS LLC	953	335
159	10*21818	K	9-14-19	STONE HILL MINERALS HOLDINGS LLC	953	337
160	10*21862	К	9-14-19	NOBLE MARCELLUS LP	961	641
161	10*23053	L	9-14-11	CE YOUNG	63	146 394
162	10*15605	M	9-14-13	ISAAC CROW ET UX	1.4	
163	10*15592	N	9-14-15	JOHN DANIEL DOBBS	694 693	125
164	10*15593	N	9-14-15	GARY L. DOBBS WILLIAMC WEST AND DEBRA WEST	928	622
165	10*18189	N N	9-14-15 9-14-15	ROBERT E WEST	929	279
166 167	10*18297 10*19614	N	9-14-15	KAREN SUE BLAKE	937	318
168	10*17929	0	9-14-17	STONE HILL MINERALS HOLDINGS LLC	931	372
169	10*15469	P	9-14-16	HARRIET J ANDERSON	920	11
170	10*15470	P	9-14-16	BETTY LLOGES	921	286
171	10*15473	Р	9-14-16	WILLIAM F MCDONALD AND SHIRLEY MCDONALD	921	198
172	10*15476	P	9-14-16	CURITS W WEST JR AND DIANE WEST	921	263
173	10*15488	p	9-14-16	NANCY F FYE & STEPHEN M FYE	921	226
174	10*15495	P	9-14-16	BARBARA BARNHART AND WALTER BARNHART	921	222
175	10*15694	P	9-14-16	DEBORAH L MERCER	921	271 259
176	10*15695	P	9-14-16 9-14-16	JOHN R AND LOIS L GORBY JOSEPH JEREMY PALMER	921	275
178	10*15696 10*15741	p	9-14-16	LOHRN 5 GORBY	929	641
179	10*16152	P	9-14-16	CONNIE HECKLE	920	29
180	10*16153	P	9-14-16	LARRY JACK EMERY	920	13
181	10*16186	Р	9-14-16	DEBORAH KAY COOLEY AND ROBERT T BECK	920	65
182	10*16187	P	9-14-16	PATRICIA D BABLAND JOHN J BABL	920	31
183	10*16191	Р	9-14-16	MADELYN E MOSSOR DO NOT USE	920	76
184	10*16403	Р	9-14-16	WILLIAM C EDGAR AND CHRISTY E EDGAR	920	61
185	10*16404	Р	9-14-16	KATHRYN M WHIPKEY	921	194
186	10*16406	P	9-14-16	ARELENA B HORNER AND QUAY ALLEN HORNER	921	240
187	10*16407	P	9-14-16	JANICE F BROOKOVER	920	74
188	10*16408	P	9-14-16	KATHLEEN I FRANCIS	921	196
189	10*16409	P	9-14-16	JEANETTE MHEATH	920	72
190	10*16425	P	9-14-16	WILLIAM A MASON JR AND ROBIN MASON	-	50
191	10*16428	P	9-14-16	BRUCE LYNN JOHNSON AND KIMBERLY A JOHNSON	920	236
192	10*16438	P	9-14-16 9-14-16	LARRY W JOHNSON	920	57
193	10*16468 10*16469	P	9-14-16	JAMES EARL AND MARGARET L SIBURT	921	245
194	10*16469	P	9-14-16	CAROLYN SUE FRANKLIN AND RAYMOND EUGENE FRANKLIN	921	219
196	10*16470	P	9-14-16	JUDY DELORIS SIBURT	929	643
197	10*16473	P	9-14-16	LINDA ELAINE AND RICHARD LERGY LITTELL	929	256
_	10*16474	P	9-14-16	BARBARA KAY SIBURT	921	266
198	10 10+/-	_				234

8811P19HUR.dwg FILE NO._ KEITH STERN S-19HU-REV1 DATE MAY 1 19 REVISED JUNE 11 _ , 20 __ OPERATORS WELL NO. KEITH STERN S-19HU API 051 02244 WELL NO. STATE COUNTY PERMIT

No. 849
STATE OF WIRELESS OF VIRGINIAN SURFINING STONAL SURFINING SURFINING SURFINING STONAL SURFINING SURFINING SURFINING SURFINING SURFINING SURFINING SURFINING SURFINING SUR

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



P.S. C. Victor Moy

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



200	10*16476	Р	9-14-16	ROGER ALLAN AND CYNTHIA LJOHNSON	921	257
201	10*16477 10*16550	P	9-14-16 9-14-16	BRENDA K YOHO CHARLES LEROY LEACH AND MARTHA G LEACH	921	19
203	10*16551	P	9-14-16	JACK L CROW JR AND VIRGINIA L CROW	921	260
204	10*16867	Р	9-14-16	APRIL M WEED	921	279
205	10*16883	Р	9-14-16	VICKIE LYNN PAPE AND JOHN EDWARD PAPE	921	248
206	10*16884	P	9-14-16	DELORES A BOWERS & LEONARD B BOWERS	921	281
207	10*16916	P	9-14-16	ROGER LEE WEST	921	277
208	10*16971	Р	9-14-16	LEONA M SIBURT	921	238
209	10*16972	P	9-14-16	SCOTT BRADLEY GRIMM & SHERRY ANN GRIMM	921	242
210	10*16973	P	9-14-16	NANCY C KESSELRING & CARL E KESSELRING	920	22
211	10*17358	P	9-14-16 9-14-16	KAREN LOUISE AND ROGER L DUNHAM JULIA ALLISON CROW	921 921	224
212	10*17359 10*17361	P	9-14-16	SHEILA RAMONA CROW	920	78
214	10*17362	P	9-14-16	NILA VIRGINIA AND FREDERICK EUGENE STREIGHT	921	251
215	10*17366	P	9-14-16	SYLVIA DEE WOOD	921	230
216	10*17367	Р	9-14-16	JERRY HOWELL	920	37
217	10*17358	Р	9-14-16	DONALD PAUL CROW AND CRYSTAL LYNN CROW	921	201
218	10*17369	P	9-14-16	DELORES A WALLACE	920	63
219	10*17371	P	9-14-16	MACK A AND CAROLA CROW	921	204
220	10*17372	Р	9-14-16	DONNIE JASON HEDGEPETH AND KAREN LHEDGEPETH	920	42
221	10*17373	P	9-14-16	NILA F HEDGEPETH	920	45
222	10*17374	P	9-14-16	EZRA HOWARD COCHRAN	920	27
223	10*17380	P	9-14-16	DEBORAH IRENE PIERCE AND BARRETT LEE PIERCE	920	34
224	10*17381	P	9-14-16	CINDY J AND DARNELL L FULKS	921	268
225	10*17382	P	9-14-16	HELEN MARIE AND DAVID E MCCRAY	920	47
226	10*17389	Р	9-14-16	MELBA EILEEN HUDDLESTUN	920	53
227	10*17390	P	9-14-16	HAROLD B CROW AND CONNIE SUE CROW	921	207
228	10*17391	P	9-14-16	BETTY LOU AND OLUE CHARLES HUGGINS	921	210
29	10*17392	P	9-14-16	BEVERLY KATHRYN GODDARD	920	55
230	10*17393	P	9-14-16	CHARLIE M TURNER AND BESSIE M TURNER	920	232
231	10*17394	P	9-14-16	DAT DARRELL TURNER AND TIMA DENISE TURNER	921	117
232	10*17397 10*17399	P	9-14-16	PAT DARRELL TURNER AND TINA DENISE TURNER RONALD EDWARD WATSON AND DIANA L WATSON	925	120
233	10*17401	P	9-14-16	JOHN M HAUGHT JR AND CHERYL A HAUGHT	925	182
235	10*17401	P	9-14-16	DIANA LYNN BUMGARDNER	920	68
236	10*17403	P	9-14-16	JAMES B CROW AND PENNY G CROW	925	187
237	10*17404	P	9-14-16	BRIAN K CROW	925	185
238	10*17408	р	9-14-16	WILLIAM JAMES HEDGEPETH AND ERIN ELIZABETH HEDGEPETH	924	572
239	10*17409	Р	9-14-16	JUDY A AND CLYDE E ELIZEY	924	569
240	10*17410	Р	9-14-16	LILLIE L GAREY	924	567
241	10*17420	P	9-14-16	DAVID LEE AND ANN F BAKER	92.4	564
242	10*17490	р	9-14-16	CONNIE SUE DOUGLAS AND RONNIE J DOUGLAS	924	578
243	10*17491	р	9-14-16	THOMAS LEE AND CLARA J HAUGHT	924	575
244	10*17598	Р	9-14-16	TERRY LEE PETTIT AND STEPHANIE LYNN PETIT	921	288
245	10*17710	P	9-14-16	DEBRA JEAN LANCASTER AND DARRELL R LANCASTER	929	634
246	10*17811	p	9-14-16	PANSY M ASTON AND ELMER LASTON	921	216
247	10*17821	P	9-14-16	GREGORY S CROW	929	639
248	10*17902	р	9-14-16	SUSAN LYNN SEDGMER	920	59
249	10*17904	P	9-14-16	RICKY LEE AND TAMMY J WATSON	921	213
250	10*17958	p	9-14-16	SANDRA KAY RICHMOND	929	632 546
251	10*18250	P	9-14-15	BRENDA KAY COFFIELD AND WILLIAM E COFFIELD	928 928	575
252	10*18251	P	9-14-16	BARBARA JEAN TOMASZCZYK AND LAWRENCE M TOMASZCZYK	928	572
253	10*18252	P	9-14-15 9-14-16	JOAN M SCHRANTZ	928	569
254 255	10*18253	P	9-14-15	KATHERINE LYNN SMITH	929	637
256	10*18303	P	9-14-16	WILLIAME MOORE AND CYNTHIA M MOORE	944	438
257	10*18304	P	9-14-16	EVA L FAWCETT	929	321
258	10*18305	P	9-14-16	MARY L WOLFKILL AND HARRY H WOLFKILL	929	324
259	10*18306	P	9-14-16	MILAN B MARINCOV AND ELIZABETH E MARINCOV	929	327
260	10*18307	P	9-14-16	DEBORAH S KACKLEY AND ROBERT A KACKLEY	929	330
261	10*18308	P	9-14-16	UNDA A DAVIS AND JAMES M DAVIS	929	333
262	10*18309	P	9-14-16	LARRY W HOBOKEN AND KATHRYN J HOBOKEN	929	336
263	10*18310	Р	9-14-16	VIRGINIA A PASQUALUCCI	945	478
264	10*18311	P	9-14-16	JOYCE D JONES	929	339
265	10*18347	P	9-14-16	ELMA LOU LADNER	931	397
266	10*18348	Р	9-14-15	FORREST N SIBURT AND ARLENE G SIBURT	931	362
267	10*18349	Р	9-14-16	DAWN C GOSKY AND GLENN P GOSKY	931	365
268	10*18400	P	9-14-16	CHERYLANN VYHNAL AND FRANK T VYHNAL	932	609
269	10*18457	P	9-14-16	SHEILA M KRULL AND JAMES W KRULL	933	177
270	10*18459	P	9-14-16	SANDRA K NELSON AND RICKEY A NELSON	933	174
271	10*18460	P	9-14-16	ROBERT W CERMAK AND PATRICIA LYNNE CERMA	933	171
272	10*18461	P	9-14-16	STEVEN E RUNION AND JAN M RUNION	933	168
273	10*18462	P	9-14-16	NANCY L PAULETTE AND JOSEPH L PAULETTE	933	162
274	10*18463	P	9-14-16	MILANA L REDLINGER AND ROBERT W REDLINGER	933	159
275	10*18464	P	9-14-16 9-14-16	ROBERTA J EDDY AND RONALD D EDDY GAYLE CHATHAWAY	933	156
275	10*18465 10*18466	P	9-14-16	REBECCA M PENNINGTON	933	154
278	10*18467	P	9-14-16	SAMANTHA L BOYLES AND DARRELL L BOYLES	933	145
279	10*18468	P	9-14-16	PATTY J LICITIS AND GEORGE LICITIS	933	142
280	10*18523	P	9-14-16	KENT R HARRIS	933	600
281	10*18525	P	9-14-16	WAYNE M CERMAK	933	594
282	10*18574	Р	9-14-16	DAE MARIE WARDEN	935	24
283	10*18575	P	9-14-16	DEAN P PENNINGTON	935	14
284	10*18576	P	9-14-16	SCOTT D VANNEWHOUSE	935	12
285	10*18577	Р	9-14-16	KELLY ANN DENOON	935	10
286	10*18578	p	9-14-16	KIMBERLY ELLEN DENOON	935	8
287	10*18579	p	9-14-16	ROGER EDWARD DENOON JR	935	6
288	10*18580	P	9-14-16	BRADLEY R CROW	935	4 cno
289	10*18611	P	9-14-16	DARYL MCGUFFIN AND NALENA H MCGUFFIN	934	598
290	10*18627	P	9-14-16	GERALDINE MAY SPONAUGLE AND JUNIOR RICHARD SPONAUGLE	936	234
291	10*18629	P	9-14-16	THOMAS D ULLOM AND NAME AND MANUS AN	936	
292	10*18630	P	9-14-16	TIMOTHY D ULLOM AND NANCY M ULLOM	936 936	232
293	10*18634	P	9-14-16	KATHRYN E SIBURT	936	238
294	10*18635	P	9-14-16	GLADYS CROW	938	535
295	10*18705	P	9-14-16	DOLORES JEAN POLAND DELORES KOLAKOWSKI	938	540
296	10*18708		9-14-16	CONSTANCE M SIMPSON AND DANIEL L SIMPSON	938	537
297 298	10*18709 10*18710	P	9-14-16	LEWIS M QUIGLEY AND MAXINE V QUIGLEY	938	267
420	10*18710	P	9-14-16	H GLENN CROW	938	269
299						

		FILE NO. 8811P19HUR.dwg KEITH STERN S-19HU-REV			
DATE	MAY 1			, 20 _	19
REVISED_	JUNE 11			, 20 _	19
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No. 849
STATE OF
VIRCHIAN
STONAL SURVINIA

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



849

WELL OPERATOR TUG HILL OPERATING, LLC

NO.

STATE

COUNTY

ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107

PERMIT

DIANNA STAMPER
CT CORPORATION SYSTEM

ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313



01	10*18713	Р	9-14-16	GEORGE A JOHNS JR AND KAREN L JOHNS	938	275
02	10*18830	P	9-14-16	GERALD Q MOORE AND SLYVIA JUDITH MOORE	937	393
03	10*18831	P	9-14-16	JACQUELYN A ROBERTS	937	395
04	10*18832	Р	9-14-16	DAN HELTON AND PEGGY ANNA HELTON	937	397
05	10*18833	P	9-14-16	WILLIAM J ULLOM	937	399
06	10*18834	Р	9-14-16	JAMES R ROCKEY	938	1
07	10*18939	P	9-14-16	PEGGY J CROW	939	384
80	10*18940	р	9-14-16	STEVEN TJOHNS AND KAREN A JOHNS	939	277
09	10*18941	P	9-14-16	MARGARET E JONES AND CHARLES T JONES	939	393
10	10*18942	р	9-14-16	MARY JO ROCKEY	939	391
11	10*18953	P	9-14-16	CYNTHIA M GROSS AND MICHAEL D GROSS	941	299
12	10*18954	P	9-14-16	ROBERT E TOEPFER JR AND ELIZABETH A TOEPFER	941	295
13	10*18955	Р	9-14-16	CHARLES W LADNER	941	293
14	10*18956	P	9-14-16	MICHELE T VALYKEO	941	297
15	10*19506	Р	9-14-16	MARK R MOORE AND ASHTYN C MOORE	942	610
16	10*19603	p	9-14-16	JAMES KEITH NATIONS BY HIS COURT APPNTD GUARDIAN AD LITEM DAVID C WHITE ESQ.	944	134
17	10*19609	р	9-14-16	LLOYD THALL AND LORNA K HALL	937	320
18	10*19664	Р	9-14-16	PAUL EUGENE SUTTON JR & NICKIE L SUTTON	944	436
19	10*19665	Р	9-14-16	GAILLSUTTON	944	138
20	10*19836	P	9-14-16	SUSAN E MARTIN	945	582
21	10*19837	P	9-14-16	SHARON K LEONARD	944	440
22	10*19839	р	9-14-16	PAMELA DOYLE BROWN	945	584
23	10*19840	p	9-14-16	PHYLLIS JEAN CROW HEWITT	945	586
24	10*19890	P	9-14-16	JO ANN FORRESTER	948	569
_		p	9-14-15	TWILA J GORDON AND ALEXANDER J GORDON	945	475
25	10*19891	_			948	200
26	10*19974	P	9-14-16	RONDA L SKILTON AND THOMAS A SKILTON		185
7	10*21010	P	9-14-16	LISA A HALL AND KYLE W HALL LAURA A WALSH AND MICHAEL P WALSH SR	951 951	188
28	10*21038	P	9-14-16 9-14-16	VICKIE L POND AND SIDNEY P POND	949	360
g	10*21040				200	175
10	10*21049	P	9-14-16	JOHN J HENRY III JOHN B HIZER AND SONYA L HIZER	951 951	172
11	10*21059	-	9-14-16	PETER DOMINICK DENOON & DENISE J DENOON	951	170
2	10*21060	P	9-14-16			
33	10*21134	P	9-14-16	NANCY J ULLOM	951	179
4	10*21135	P	9-14-16	CHARLES K NATIONS	953	53
5	10*21136	P	9-14-16	STEVEN J KIM AND LICIA B KIM	953	51
16	10*21137	P	9-14-16	GLORIA JEAN SELMON	951	183
37	10*21187	P	9-14-16	JEFFREY S HIZER AND BONNIE LYNN HIZER	951	_
8	10*21188	P	9-14-16	TERRY S WEEKLEY AND KRYSTAL D WEEKLEY	951	181
39	10*21247	P	9-14-16	GLORIA LUCAS	953	57
10	10*21248	P	9-14-16	ESSIE BUCHANAN	953	219
1	10*21249	Р	9-14-16	PEGGY HARTLEY	953	55
12	10*21338	P	9-14-16	DOROTHY I WHITE	953	217
13	10*21339	P	9-14-16	MICHAEL W SMITH	953	212
14	10*21340	р	9-14-16	MARY ANN BURNS AND SIDNEY P BURNS	953	214
5	10*21413	P	9-14-16	CHIKAKO YAMASHIRO HIZER	956	598 594
16	10*21446	p	9-14-16	LAURA L GORBY	956	-
17	10*21447	P	9-14-15	GINA LUPDEGRAFF	956	596
48	10*21477	P	9-14-16	PAUL EUGENE SUTTON SR HOWARD A BLAKE & SHARON ANN BLAKE HOWARD A BLAKE POA FOR SHARON	944	136
4		1 2			957	390
49	10*21555	P	9-14-16	ANN BLAKE		467
50	10*21610	P	9-14-16	THERESA E CREEGER AND GREGORY I CREEGER	958 959	459
51	10*21611	P	9-14-16	KEITH GOUDY AND NANCY GOUDY	959	457
52	10*21612	P	9-14-16	YANCY R ARRINGTON AND TERESA C ARRINGTON		221
53	10*21881	P	9-14-16	HELEN LOUISE HUGHES	953 960	4
54	10*21933	Р	9-14-16	BRENDA WEEKLEY BEAVER & DANIEL T BEAVER		342
55	10*22151	P	9-14-16	GERALD W LUNA AND CHERI E LUNA	954	285
56	10*22289	P	9-14-16	KAREN ELAINE WOLFE AND JAMES BRENT WOLFE	962 962	281
57	10*22290	P	9-14-16	DAVID W HUMMEL SR	962	283
58	10*22297	P	9-14-16	MARK LADAMS	963	118
59	10*22399	P	9-14-16	WILLIAM T SCHMITT AND PENNY E SCHMITT	963	115
50	10*22400	P	9-14-16	NANCY A CHURCH & RALPH E CHURCH	963	113
51	10*22401	P	9-14-16	DEBORAH LONEAL	963	111
52	10*22402	P	9-14-16	RUSSELL B GODDARD	963	109
53	10*22403	P	9-14-16	DONNA M TAYLOR	963	121
64	10*22409	P	9-14-16	LORI ANN OAKS AND LARRY DOAKS	963	350
55	10*22416	P	9-14-16	ADA M MOORE	963	460
56	10*22456	P	9-14-16	MICHAEL V GODDARD		462
57	10*22457	P	9-14-16	CATHERINE M MESSNER	964 966	493
58	10*22522	P	9-14-16	JAMES D COCHRAN AND LINDA M COCHRAN	966	490
59	10*22523	P	9-14-16	DEBRA E MOORE AND SCOTT MOORE	966	18
70	10*22543	P	9-14-16 9-14-16	MITCHELL FORRESTER AND CECELIA FORRESTER	966	19
71	10*22544	P		MELODIE J HOFF AND DOUGLAS T HOFF	966	48
72	10*22602	P	9-14-16 9-14-16	CYNTHIA JO MOORE APRIL BERISFORD AND MICHAEL BERISFORD	966	48
73	10*22603	_	7 7 7 7 7 7 7		966	588
74	10*22628	P	9-14-16	JAMES C BALL LISA R GODDARD	966	58
75	10*22629	P	9-14-16	JULIE LYNN SCOTT	972	43
75	10*22782	_	9-14-16	VIRGINIA E SAKALO AND MICHAEL A SAKALO	984	40
77	10*23005	P	9-14-16	JAQUEUNE A PATTERSON AND CHARLES ALLEN PATTERSON	988	82
78	10*23331	P	9-14-16 9-14-16	ROGER W RHODES	1008	30
79 80	10*23453 10*23457	P	9-14-16	GEORGIA MITCHELL ETAL HERMAN LANTZ, SPECIAL COMMISSIONER	108	30
80		P	9-14-16	MATTHEW S BRITTON, A MINOR ERIC GORDON, SPECIAL COMMISSIONER	1020	24
82	10*23952 10*24083	P	9-14-16	JOSEPH B CROWJR	1021	13
83	10*24083	P	9-14-16	ALF THOMAS MOORE AND CHERYL A MOORE	1022	36
84	10*24240	P	9-14-16	GEORGE B CROW JR AND SHIRLEY CROW	1023	48
85	10*24275	P	9-14-16	MARTHA L PULVER	1023	48
86	10*24276	P	9-14-16	HOWARD L KUHN AND MARY L KUHN	1023	48
87	10 THE PART OF THE	P	9-14-16	MARK CURTIS	1023	52
88	10*24292	P	9-14-16	JOSEPH KOLAKOWSKI JR	1024	32
_	10*24401			MICHAEL KOLAKOWSKI AND LEA KOLAKOWSKI	1024	31
89	10*24410	P	9-14-16		1025	15
90	10*24411	_	9-14-16	MARGIE M MILTON	1025	31
91	10*24412	P	9-14-16	JAMES P DERROW AND CHRISTINE M DERROW	1024	31
92	10*24414	P	9-14-16	ROBERT ALLEN SUTTON AND MICKIE L SUTTON		
0.2	10*24435	P	9-14-16	JAMES C ADAMS AND NICOLE D ADAMS	1025	15
	10*24575	P	9-14-16	MICHELLE M KOLAKOWSKI	1027	12
94	10171070	p -	9-14-16	THERESA THOMAS	1025	33
194	10*24675			EARL SELMON	1027	30
194 195 196	10*24735	P	9-14-16			-
393 394 395 396 397		P P	9-14-16 9-14-16 9-14-16	SUSAN L SCHULTE MARLENA PENNINGTON ET AL	1027	30 59

OPERATORS WELL NO.

KEITH STERN S-19HU

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COUNTY DERMIT



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



P.S. C. Victor Moyne

WELL OPERATOR TUG HILL OPERATING, LLC

ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107

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ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313



ac T				A STATE STATE OF THE STATE OF T	-	
100	10*24766	Р	9-14-16	LLOYD E YOHO	1027	590
101	10*24857	P	9-14-16	JANET KIMBLE AND JOHN KIMBLE	1028	109
02	10*24873	P	9-14-16	WAYNE PRICE	1028	117
03	10*24874	P	9-14-16	DONALD SMOTHERMAN AND MARGARET SMOTHERMAN	1028	115
04	10*24876	P	9-14-16	JAMES D WHITE AND BRITTNEY C WHITE	1028	113
05	10*24877	P	9-14-16	DEBORAH LEDGER AND JOHN H LEDGER	1028	111
06	10*25011	P	9-14-16	JOHN DAVID CROW	1029	537
07	10*25012	P	9-14-16	LARRY B PATTERSON	1029	535
280	10*25219	P	9-14-16	THE ESTATE OF PAUL W BLAKE	1030	125
09	10*25220	P	9-14-16	MISTY MOORE	1030	127
10	10*25221	P	9-14-16	CHARLES ROY SUTTON	1030	129
11	10*25321	Р	9-14-16	CINDY LAND KERRY LWINTERS	1031	571
12	10*25498	P			_	
-	77.0.0.00		9-14-16	DAN AND SHARON CVETANOVICH	1034	232
13	10*26626	P	9-14-16	MARLENA PENNINGTON	1027	594
14	10*23087	Q	9-14-12	REASON AND CATHERINE V YOUNG	68	69
15	10*19621	R	9-14-1	MARY RUTH FROHNAPFEL	938	595
16	10*19622	R	9-14-1	KENNETH D SIBURT JR AND LORI SIBURT	938	597
17	10*19623	R	9-14-1	SANDRA SIBURT FROWEN & GEORGE FROWEN	938	600
18	10*19627	R	9-14-1	RONALD 5 YOUNG	944	192
19	10*19655	R	9-14-1	CHESTNUT HOLDINGS INC	949	309
20	10*19678	R	9-14-1	WILUAMO. JOBES	944	188
21	10*19679	R	9-14-1	DAVID A DARRAH SR AND ANITA SLOUGH-DARRAH	946	54
22	10*19725	R	9-14-1	MAMIE V ARNOLD	944	454
23	10*21213	R	9-14-1	JAMES B SIBURT AND DELILA D SIBURT	957	1077
_						_
2.4	10*21214	R	9-14-1	VICKI J CHERRY AND RICKEY E CHERRY	949	139
25	10*21215	R	9-14-1	ALAN K SIBURT ET UX	949	136
26	10*21216	R	9-14-1	RODNEY L SIBURT	949	142
27	10*21559	R	9-14-1	GUY L BUZZARD TRUSTEE THE GUY L BUZZARD 2017 IRREVOCABLE TRUST	957	388
28	10*22454	R	9-14-1	DONNA KYLE	964	470
29	10*22465	R	9-14-1	LOIS KURPIL FKA LOIS HERCULES	964	472
30	10*22466	R	9-14-1	JUDITH MAY CONNER	964	468
31	10*22516	R	9-14-1	SHARON RUSSELL	964	464
32	10*22518	R	9-14-1	GEORGE EDWARDS	964	466
33	10*22856	R	9-14-1	CHARLES W MILLER AND ESTHER JEAN MILLER	977	51
34	10*23435	R	9-14-1	LLOYD C. ARNOLD & JUDITH C. ARNOLD	1008	301
-					718	326
35	10*15510	S	9-11-12	ELAINE PHELPS ET VIR		_
36	10*15511	S	9-11-12	DAVIDE CROW	718	376
37	10*15512	S	9-11-12	FRANCES COFFEY	718	378
38	10*15513	S	9-11-12	KAY KEYES	718	330
39	10*15514	5	9-11-12	L PAUL CROW	718	336
40	10*15515	S	9-11-12	DESIRE L CROW	718	334
41	10*15516	S	9-11-12	ROSE MARIE KIELGCZEWSKI	718	354
42	10*15517	5	9-11-12	DIANNE GELLNER & GARY GELLNER	718	345
43	10*15518	S	9-11-12	JAMES P HOLLIDAY AND JACQUELINE HOLLIDAY	718	347
44	10*15519	S	9-11-12	JOHN CROW	726	580
45	100000000000000000000000000000000000000	5	9-11-12	TIMOTHY CROW	726	582
_	10*15520				944	445
46	10*19685	S	9-11-12	MORGAN H MOSSER AND NANCY MOSSER	952	157
47	10*21093	S	9-11-12	DUNCAN S LINN AND POLLY LU BROWN		
48	10*21492	S	9-11-12	JUDITH FISK	957	282
49	10*21494	S	9-11-12	EILEEN M SLATE AND DALE A SLATE	957	284
50	10*21495	S	9-11-12	E JEN BAIRD AND GEORGE S BAIRD AMENDED REVOCABLE TRUST AGREEMENT	966	618
51	10*21843	S	9-11-12	JOHN B HOAGLAND AND PATRICIA A HOAGLAND	959	620
52	10*21923	S	9-11-12	DOROTHY JEAN BURKLE BOYD	953	468
53	10*22090	S	9-11-12	KATHERINE ANN BOYD BLAKE	953	473
54	10*22153	S	9-11-12	JODY A SCHOTTLER AND THOMAS A SCHOTTLER	953	470
55	10*22462	5	9-11-12	ROBERT CALDWELL MEAD	964	490
56	10*22608	S	9-11-12	SARAH BAIRD LINN	966	620
_	10*22666	S	9-11-12	JOSEPH W LINN JR AND TAMMY S LINN	968	230
57		S	9-11-12	KATHARINE B SILBAUGH AND DANIELJURAYJ	970	24
	10*22771			KIM O MAGHAN AND JAMES G MAGHAN	977	49
59	10*22855	5	9-11-12	KATHRYN A TAGGART AND EVERETT TAGGART JR	977	289
60	10*23024	S	9-11-12		977	287
61	10*23059	5	9-11-12	GAIL W STEWART	_	
62	10*23165	S	9-11-12	EDITH BOYD ORR AND WENDELL FRANKLIN ORR	984	68
63	10*23389	S	9-11-12	LEESA O THOMPSON	972	45
64	10*23427	S	9-11-12	SANDY VINCENT AND STEVEN VINCENT	1008	307
65	10*23652	S	9-11-12	KATHARINE ATWOOD AND MICHAEL GRITTON	1009	291
66	10*23686	S	9-11-12	RANDALL T ULLOM AND ROSAUE FERMO-ULLOM	1010	400
67	10*23687	S	9-11-12	ELIZABETH F BAIRD	1010	402
168	10*23688	5	9-11-12	MELISSA DUBOIS BAIRD	1010	404
169	10*23692	S	9-11-12	WILLIAM ATWOOD AND ELIZABETH ATWOOD	1010	408
170	10*23693	S	9-11-12	JOHN ATWGOD AND ANNETTE ATWOOD	1010	406
71	10*24222	S	9-11-12	SALVATION ARMY	1022	371
$\overline{}$		S	9-11-12	CLARA OSBORNE DOUGLAS	1023	481
172	10*24282				1023	522
73	10*24296	S	9-11-12	KATHARINE D LINN	1024	317
174	10*24400	S	9-11-12	JANE W VARDY ET AL		389
75	10*47051.123.1	S	9-11-12	LLOYD G BAKER	865	
176	10*47051.123.2	S	9-11-12	JAMES P HOLLIDAY AND JACQUELINE HOLLIDAY	873	143
177	10*16258	T	9-11-13	CHESTNUT HOLDINGS INC	848	234
178	10*15582	U	9-11-10	ROBERT L CLARK	685	239
179	10*47051.108.1	٧	9-11-9	MICHAEL A WHETZEL	885	51
180	10*47051.243.1	W	9-14-21	MARY A FOX	879	332
181	10*47051,243.2	W	9-14-21	PAULGFOX	879	335
182	10*47051.243.3	W	9-14-21	MARK H FOX	879	338
183		W	9-14-21	DAVID E FOX	876	55
_	10*47051.243.4			LOUIS T FOX AND KAREN A FOX	876	58
184	10*47051.243.5	W	9-14-21		876	61
185	10*47051.243.6	W	9-14-21	THOMASJ FOX	742	85
186	10*15837	X	9-17-4.1	ANITA DIANE ANTILL AND TERRY ANTILL	742	79
487	10*15836	X	9-17-4.1	LUCINDA RAE ALLEN AND DAVID A ALLEN		
488	10*15842	X	9-17-4.1	HOMER L SIMMONS AND GLADYS R SIMMONS	742	329
189	10*16007	X	9-17-4.1	MARY LOU KITTELBERGER AND FREDERICK W KITTELBERGER	799	438
490	10*15008	X	9-17-4.1	DONNA KAY ALLEN AND ROGER ALLEN	801	222
491	10*17500	×	9-17-4.1	TRACY LAND KEITH W BARNBY	916	119
492	10*17666	X	9-17-4.1	LILA FAYE BONAR SNODGRASS AND DONALD T SNODGRASS	949	17
	10*17673	X	9-17-4.1	JAMES PERRY COCHRAN	932	56
493		X	9-17-4.1	JACQUELYN'S FERRARI AND JOHN CFERRARI	949	17
494	10*17707				949	16
495	10*17709	X	9-17-4.1	CAROL GONGOLA	949	16
496	10*17765	X	9-17-4.1	ROBERTA YOUNG	949	43
200	10*17840	X	9-17-4.1	RONALD D KOONTZ & BETH ANN KOONTZ	_	
497		X	9-17-4.1	ANNETTE CAIN HANKINS AND HOWARD RONALD HANKINS	924	531
498	10*17886			LEO C HILKE AND BETTY M HILKE		5.5
497 498 499 500	10*17886 10*17887 10*17977	X	9-17-4.1	BRANNEN DAUGHERTY	925	35

	FILE NO KEITH S	FILE NO. 8811P19HUR.dw KEITH STERN S-19HU-REV			
DATEMA	Y 1	, 20 _	19		
REVISED_JUI	NE 11	, 20 _	19		
OPERATORS W	ELL NO. K	EITH STERN S	-19HU		
WELL 47 NO. STATE	COUNTY				

No. 849
STATE OF VIRCHISTONIAL SURVINIA

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



P.S. C. Victor Moyen

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



501	10*17980	X	9-17-4.1	ANITA RAE MILLER	925	370
502	10*17981	X	9-17-4.1	MICHAEL E SWIFT AND MELODY A SWIFT	925	372
503	10*18031	X	9-17-4.1	LEE ANNE MILLER	927	222
504	10*18092 10*18093	X	9-17-4.1 9-17-4.1	DAVID MCDOWELL AND CRYSTAL MCDOWELL JENNIFER WHEATON	927	283
506	10*18094	х	9-17-4.1	BONNIE GRISELL	927	231
507	10*18095	X	9-17-4.1	TEXYN LMILLER AND GEORGIA A MILLER	927	287
508	10*18098	X	9-17-4.1	LISA ANN MCDOWELL AND ROBERT JOSEPH HILL	939	263
509	10*18099 10*18107	X	9-17-4.1	RAE ELLEN FLOYD AND KENNETH FLOYD	927	233
511	10*18167	X	9-17-4.1	NEL CALL AND MEUNDA CALL	927	238 492
512	10*18168	X	9-17-4.1	SANDRA YANAGAWA	927	498
513	10*18169	X	9-17-4.1	KAREN K WILLIAMS	927	628
514	10*18170	X	9-17-4.1	KAREN MCDOWELL CECIL AND JAMES E CECIL	927	633
515	10*18192	X	9-17-4.1	STEPHEN S MASON AND CAROLE K MASON	928	625
516	10*18193	X	9-17-4.1	CAROLYN LEE FUREY AND MARTIN J FUREY	949	158
517 518	10*18194 10*18197	X	9-17-4.1 9-17-4.1	PAMELA BEYLER AND CHAD R BEYLER BARBARA K BURLEY AND DAVID K BURLEY	928 928	630 641
519	10*18198	X	9-17-4.1	MARY THERESA SOLEAU AND THOMAS SOLEAU	928	643
520	10*18199	X	9-17-4.1	LAWRENCE J VAUGHN AND GAILL VAUGHN	928	532
521	10*18260	×	9-17-4.1	GEMMA RUDY AND TIMOTHY RUDY	928	584
522	10*18295	X	9-17-4.1	THOMAS R BAKER AND VICKIE L BAKER	929	262
523	10*18298	X	9-17-4.1	MAUREEN GREGG	929	273
524	10*18300	X	9-17-4.1	ROBERT W ODOM AND CASSANDRA LODOM	929	283
525	10*18361	X	9-17-4.1	MARY JO CAIN	931	407
526 527	10*18417 10*18487	X	9-17-4.1	CHERYLL HILL NANCY L STANGEL AND JOHN J STANGEL	932	113
528	10*18488	×	9-17-4.1	CHARLINE M ENGLE AND KEVIN E ENGLE	933	118
529	10*18508	×	9-17-4.1	PATRICIA LUANNE BONAR	925	351
530	10*18517	X	9-17-4.1	LORI SHANAHAN AND PATRICK SHANAHAN	933	575
531	10*18613	X	9-17-4.1	JANE LOUISE CAIN AND DANIEL CARL HOLTZ	934	603
532	10*18655	X	9-17-4.1	PATRICIA L LEHN	936	95
533	10*18656	X	9-17-4.1	PAMELA CALL	936	100
534	10*18658 10*18659	X	9-17-4.1 9-17-4.1	ELIZABETH JANE KELLER CATHERINE P MASON	936	107
536	10*18799	X	9-17-4.1	CHARLES J DARMAFALL DECEASED	937	634
537	10*18805	×	9-17-4.1	CINDY STEVENS TOZIER	937	628
538	10*19373	X	9-17-4.1	JESSICA WHEATON	931	411
539	10*19403	X	9-17-4.1	LAWRENCE R LOTZ	951	114
540	10*19404	X	9-17-4.1	HOWARD M CAIN AND EMMA JEAN CAIN	939	283
541	10*19476	X	9-17-4.1	WINONA RIDDLE	941	331
542	10*19689	X	9-17-4.1	EDMOND TURGEON JR AND CATHY STEVENS TURGEON	944	156 412
543	10*19718 10*19879	×	9-17-4.1 9-17-4.1	CHRISTOPHER DAUGHERTY & JENNIFER R DAUGHERTY MARY V GILSON AND WALTER M GILSON	945	588
545	10*19933	×	9-17-4.1	MARY ANN GRIFFITH	948	555
546	10*19937	X	9-17-4.1	JAMES D STEVENS AND DOROTHY M STEVENS	949	151
547	10*19938	×	9-17-4.1	JOHN H STEVENS AND LYNDA L STEVENS	949	144
548	10*21026	X	9-17-4.1	NANCY M MORGAN	951	110
549	10*21211	X	9-17-4.1	NILA JEAN BAYLES	951	118
550 551	10*21841 10*21842	X	9-17-4.1 9-17-4.1	ENERGY DEEP RESOURCES INC JOSEPH NOKOVICH	959 959	631
552	10*21927	X	9-17-4.1	BLACK GOLD GROUP LTD	964	474
553	10*21940	×	9-17-4.1	ALYSIA JORDAN & TERRY M JORDAN	953	346
554	10*22376	X	9-17-4.1	MARGARET KUCHARZ AND JAMES C KUCHARZ	962	270
555	10*22412	X	9-17-4.1	CHAD E LONGFELLOW	963	124
556	10*22599	X	9-17-4.1	BRYANT R SWIFT AND KATHY SWIFT	965	456
557	10*22776	X	9-17-4.1	JAMES ROBERT WELLS	970	19
558	10*22849	×	9-17-4.1	NEIL MCELROY AND SUE MASON MCELROY JOHN J HELISTERN AND LYNN D HELLSTERN	977 977	39
559 560	10*22851 10*22853	X	9-17-4.1 9-17-4.1	RONALD LEE HENSLEY AND MARY ANN HENSLEY	977	34
561	10*23076	X	9-17-4.1	JACK R BERISFORD AKA RANDY BERISFORD	984	43
562	10*23260	X	9-17-4.1	IDA M TRAVIS ET AL DAVID C WHITE AS SPECIAL COMMISSIONER	988	73
563	10*23668	х	9-17-4.1	THE ESTATE OF RUTH N LUTHER SUZANNE L WOZNIAK EXECUTRIX	1009	286
564	10*47051.219.27	X	9-17-4.1	MARSHA BERISFORD	902	425
565	10*47051.219.33	X	9-17-4.1	JOHN H HILKE AND AUDA HILKE	898	602
566	10*47051.219.36	X	9-17-4.1	GAREN MCDOWELL AND ELIZABETH MCDOWELL SUSAN H KEY	898	615
567 568	10*47051.219.37 10*47051.219.38	X	9-17-4.1 9-17-4.1	TIMOTHY MCDOWELL AND CYNTHIA MCDOWELL	902	431
569	10*47051.219.39	X	9-17-4.1	AUCE THIPPHAVONG AND VISITH THIPPHAVONG	902	437
570	10*17169	X	9-17-4.1	ALMA L VAN SCYOC	692	404
571	10*17171	X	9-17-4.1	OPAL MICKEY	690	631
572	10*17173	Х	9-17-4.1	LLOYD R. EVANS	694	526
573	10*47051,219.1	X	9-17-4.1	DAVID LEE FRANKLIN WY MINERALS INC	951	312 108
574 575	10*19702 10*15836	X	9-17-4.1	LUCINDA RAE ALLEN AND DAVID A ALLEN	742	79
576	10*15837	Y	9-17-4	ANITA DIANE ANTILL AND TERRY ANTILL	742	85
577	10*15842	Y	9-17-4	HOMER L SIMMONS AND GLADYS R SIMMONS	742	329
578	10*16007	Y	9-17-4	MARY LOU KITTELBERGER AND FREDERICK W KITTELBERGER	799	436
579	10*16008	Y	9-17-4	DONNA KAY ALLEN AND ROGER ALLEN	801	222
580	10*17500	Y	9-17-4	TRACY LAND KEITH W BARNBY	916	116
581	10*17666 10*17673	Y	9-17-4 9-17-4	LILA FAYE BONAR SNODGRASS AND DONALD T SNODGRASS JAMES PERRY COCHRAN	932	567
583	10*17707	Y	9-17-4	JACQUELYN S FERRARI AND JOHN C FERRARI	949	177
584	10*17709	Y	9-17-4	CAROL GONGOLA	949	167
585	10*17765	Y	9-17-4	ROBERTA YOUNG	949	163
586	10*17840	Υ	9-17-4	RONALD D KOONTZ & BETH ANN KOONTZ	942	432
587	10*17886	Y	9-17-4	ANNETTE CAIN HANKINS AND HOWARD RONALD HANKINS	924	536 531
588	10*17887	Y	9-17-4	LEO C HILKE AND BETTY M HILKE	924 925	359
589	10*17977	Y	9-17-4 9-17-4	BRANNEN DAUGHERTY ANITA RAE MILLER	925	370
590	10*17980	Y	9-17-4	MICHAEL E SWIFT AND MELODY A SWIFT	925	372
592	10*18031	Y	9-17-4	LEE ANNE MILLER	927	222
593	10*18092	Y	9-17-4	DAVID MCDOWELL AND CRYSTAL MCDOWELL	927	283
594	10*18093	Y	9-17-4	JENNIFER WHEATON	927	289
595	10*18094	Y	9-17-4	BONNIE GRISELL	927	231
596	10*18095	Y	9-17-4	TEXYN L MILLER AND GEORGIA A MILLER	927	287
597	10*18098	Y	9-17-4	LISA ANN MCDOWELL AND ROBERT JOSEPH HILL.	939	263
598 599	10*18099	Y	9-17-4 9-17-4	RAE ELLEN FLOYD AND KENNETH FLOYD ANITA MAE MASON	927	233
25/3	10*18107	Y	9-17-4	NEL CALL AND MEUNDA CALL	927	492
600	10*18167					

FILE NO. <u>8811P19HUR.dwg</u>
KEITH STERN S-19HU-REV1

DATE <u>MAY 1</u>, 20 <u>19</u>

REVISED JUNE 11 , 20 19
OPERATORS WELL NO. KEITH STERN S-19HU

API WELL 47 O51 COUNTY

OZZY4 PERMIT



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



P.S. C. Victor Moyen

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

COONTRACTOR



503	10*18169	Y	9-17-4	KAREN K WILLIAMS	927	628
	10*18170	Y	9-17-4	KAREN MCDOWELL CECIL AND JAMES E CECIL	927	633
504	10*18192	Y	9-17-4	STEPHEN S MASON AND CAROLE K MASON CAROLYN LEE FUREY AND MARTIN J FUREY	928 949	625
505 506	10*18193 10*18194	Y	9-17-4	PAMELA BEYLER AND CHAD R BEYLER	928	158 630
07	10*18197	Y	9-17-4	BARBARA K BURLEY AND DAVID K BURLEY	928	641
808	10*18198	Y	9-17-4	MARY THERESA SOLEAU AND THOMAS SOLEAU	928	643
09	10*18199	Y	9-17-4	LAWRENCE J VAUGHN AND GAIL L VAUGHN	928	532
10	10*18260	Y	9-17-4	GEMMA RUDY AND TIMOTHY RUDY	928	584
11	10*18295	Υ	9-17-4	THOMAS R BAKER AND VICKIE L BAKER	929	262
12	10*18298	Y	9-17-4	MAUREEN GREGG	929	273
13	10*18300	Υ	9-17-4	ROBERT W ODOM AND CASSANDRA LODOM	929	283
14	10*18361	Y	9-17-4	MARY JO CAIN	931	407
15	10*18417	Y	9-17-4	CHERYLLHILL	932	577
16	10*18487	Υ	9-17-4	NANCY L STANGEL AND JOHN J STANGEL	933	113
17	10*18488	Υ	9-17-4	CHARLINE M ENGLE AND KEVIN E ENGLE	933	118
18	10*18508	Y	9-17-4	PATRICIA LUANNE BONAR	925	351
19	10*18517	Y	9-17-4	LORI SHANAHAN AND PATRICK SHANAHAN	933	575
20	10*18613	Y	9-17-4	JANE LOUISE CAIN AND DANIEL CARL HOLTZ	934	603
21	10*18655	Y	9-17-4	PATRICIA LLEHN	936 936	95 100
22	10*18656 10*18658	Y	9-17-4 9-17-4	PAMELA CALL ELIZABETH JANE KELLER	936	107
24	10*18659	Y	9-17-4	CATHERINE P MASON	936	112
25	10*18799	Y	9-17-4	CHARLES J DARMAFALL DECEASED	937	634
26	10*18805	Y	9-17-4	CINDY STEVENS TOZIER	937	628
27	10*19373	γ	9-17-4	JESSICA WHEATON	931	411
28	10*19403	Y	9-17-4	LAWRENCE R LOTZ	951	114
29	10*19404	Y	9-17-4	HOWARD M CAIN AND EMMA JEAN CAIN	939	283
30	10*19476	γ	9-17-4	WINDNA RIDDLE	941	331
31	10*19689	Y	9-17-4	EDMOND TURGEON JR AND CATHY STEVENS TURGEON	944	156
32	10*19718	Υ	9-17-4	CHRISTOPHER DAUGHERTY & JENNIFER R DAUGHERTY	944	412
33	10*19879	Y	9-17-4	MARY V GILSON AND WALTER M GILSON	945	588
34	10*19933	Y	9-17-4	MARY ANN GRIFFITH	948	555
35	10*19937	Y	9-17-4	JAMES D STEVENS AND DOROTHY M STEVENS	949	151
36	10*19938	Y	9-17-4	JOHN H STEVENS AND LYNDA L STEVENS	949	144
37	10*21026	Y	9-17-4	NANCY M MORGAN	951	110
38	10*21211	Υ	9-17-4	NILA JEAN BAYLES	951	118
39	10*21841	Υ	9-17-4	ENERGY DEEP RESOURCES INC	959	631
40	10*21842	Υ	9-17-4	JOSEPH NOKOVICH	959	635
11	10*21927	Y	9-17-4	BLACK GOLD GROUP LTD	964	474
42	10*21940	Y	9-17-4	ALYSIA JORDAN & TERRY M JORDAN	953	346
43	10*22376	Y	9-17-4	MARGARET KUCHARZ AND JAMES C KUCHARZ	962	270
\$4 .	10*22412	Y	9-17-4	CHAD E LONGFELLOW	963 966	124 456
15	10*22599	Y	9-17-4 9-17-4	BRYANT R SWIFT AND KATHY SWIFT JAMES ROBERT WELLS	970	19
46	10*22776 10*22849	Y	9-17-4	NEIL MCELROY AND SUE MASON MCELROY	977	44
48	10*22851	Y	9-17-4	JOHN J HELLSTERN AND LYNN D HELLSTERN	977	39
49	10*22853	Y	9-17-4	RONALD LEE HENSLEY AND MARY ANN HENSLEY	977	34
50	10*23076	Y	9-17-4	JACK R BERISFORD AKA RANDY BERISFORD	984	43
51	10*23260	Y	9-17-4	IDA M TRAVIS ET AL DAVID C WHITE AS SPECIAL COMMISSIONER	988	73
52	10*23668	Y	9-17-4	THE ESTATE OF RUTH IN LUTHER SUZANNE L WOZNIAK EXECUTRIX	1009	286
53	10*47051.219.27	Y	9-17-4	MARSHA BERISFORD	902	425
54	10*47051.219.33	Y	9-17-4	JOHN H HILKE AND ALIDA HILKE	898	602
55	10*47051.219.36	Y	9-17-4	GAREN MCDOWELL AND ELIZABETH MCDOWELL	898	615
56	10*47051.219.37	Y	9-17-4	SUSAN H KEY	898	621
57	10*47051.219.38	Y	9-17-4	TIMOTHY MCDOWELL AND CYNTHIA MCDOWELL	902	431
58	10*47051.219.39	Y	9-17-4	ALICE THIPPHAYONG AND VISITH THIPPHAYONG	902	437
59	10*17169	Υ .	9-17-4	ALMA L VAN SCYOC	692	404
60	10*17171	Y	9-17-4	OPAL MICKEY	690	631
51	10*17173	Y	9-17-4	LLOYD R. EVANS	694	526
62	10*47051.219.1	Υ	9-17-4	DAVID LEE FRANKUN	951	312
63	10*19702	Y	9-17-4	WV MINERALS INC		
64	10*15832	Z	9-17-3	ANITA DIANE ANTILL AND TERRY ANTILL		
	10*15835	7	9-17-3	LUCINDA RAE ALLEN AND DAVID A ALLEN	742	104
		Z 7		ROGER BRIGHT AND SUSAN LEIMER - DECEASED	742 742	104
66	10*15847	Z	9-17-3	ROGER BRIGHT AND SUSAN LEIMER - DECEASED HOMER I SIMMONS AND GLADYS R SIMMONS	742 742 743	104 285
66 67	10*15848	Z Z	9-17-3 9-17-3	HOMER L SIMMONS AND GLADYS R SIMMONS	742 742 743 745	104 285 194
66 67 68	10*15848 10*15855	Z Z Z	9-17-3 9-17-3 9-17-3	HOMER L SIMMONS AND GLADYS R SIMMONS ALICE THIPPHAVONG AND VISITH THIPPHAVONG	742 742 743 745 747	104 285 194 635
66 67 68 69	10*15848 10*15855 10*15856	Z Z Z Z	9-17-3 9-17-3 9-17-3 9-17-3	HOMER L SIMMONS AND GLADYS R SIMMONS AUCE THIPPHAVONG AND VISITH THIPPHAVONG LEO C HILKE AND BETTY M HILKE	742 742 743 745 747 747	104 285 194 635 629
66 67 68 69 70	10*15848 10*15855 10*15856 10*15870	Z Z Z	9-17-3 9-17-3 9-17-3	HOMER L SIMMONS AND GLADYS R SIMMONS ALICE THIPPHAVONG AND VISITH THIPPHAVONG	742 742 743 745 747	104 285 194 635 629 206
66 67 68 69 70	10*15848 10*15855 10*15856	Z Z Z Z	9-17-3 9-17-3 9-17-3 9-17-3 9-17-3	HOMER L SIMMONS AND GLADYS R SIMMONS AULC: THIPPHAYONG AND VISITH THIPPHAYONG LEO CHUKE AND BETTY M HILKE JOHN H HILKE AND AUDA HILKE	742 742 743 745 747 747 750	104 285 194 635 629 206 191
56 57 58 59 70 71	10*15848 10*15855 10*15856 10*15870 10*15872	Z Z Z Z Z	9-17-3 9-17-3 9-17-3 9-17-3 9-17-3 9-17-3	HOMER L SIMMONS AND GLADYS R SIMMONS ALICE THIPPHAYONG AND VISITH THIPPHAYONG LEO C HILKE AND BETTY M HILKE JOHN H HILKE AND ALIDA HILKE SUSAN H KEY	742 742 743 745 747 747 750 751	104 285 194 635 629 206 191 79
56 57 58 59 70 71 72	10*15848 10*15855 10*15856 10*15870 10*15872 10*15872	Z Z Z Z Z Z AA	9-17-3 9-17-3 9-17-3 9-17-3 9-17-3 9-17-3 9-17-4.4	HOMER L SIMMONS AND GLADYS R SIMMONS ALLEE THIPPHAYONG AND VISITH THIPPHAYONG LEO C HILKE AND BETTY M HILKE JOHN H HILKE AND AUDA HILKE SUSAN H KEY LUCINDA RAE ALLEN AND DAVID A ALLEN ANITA DIANE ANTILL AND TERRY ANTILL HOMER L SIMMONS AND GLADYS R SIMMONS	742 742 743 745 747 747 750 751 742 742	104 285 194 635 629 206 191 79 85
66 67 68 69 70 71 72 73	10*15848 10*15855 10*15856 10*15870 10*15872 10*15836 10*15837	Z Z Z Z Z Z AA	9-17-3 9-17-3 9-17-3 9-17-3 9-17-3 9-17-3 9-17-4,4 9-17-4,4	HOMER L SIMMONS AND GLADYS R SIMMONS AULCE THIPPHAYONG AND VISITH THIPPHAYONG LEO CHUKE AND BETTY M HILKE JOHN H HILKE AND AUDA HILKE SUSAN H KEY LUGINDA RAE ALLEN AND DAVID A ALLEN ANITA DIANE ANTILL AND TERRY ANTILL	742 742 743 745 747 747 750 751 742 742 742 799	104 285 194 635 629 206 191 79 85 329 436
66 67 68 69 70 71 72 73 74	10*15848 10*15855 10*15856 10*15870 10*15872 10*15836 10*15837 10*15842	Z Z Z Z Z Z Z AA AA	9-17-3 9-17-3 9-17-3 9-17-3 9-17-3 9-17-3 9-17-4-4 9-17-4-4	HOMER L SIMMONS AND GLADYS R SIMMONS AULCE THIPPHAYONG AND VISITH THIPPHAYONG LEO CHILKE AND BETTY M HILKE JOHN H HILKE AND AUDA HILKE SUSAN H KEY LUCINDA RAE ALLEN AND DAVID A ALLEN ANITA DIANE ANTILL AND TERRY ANTILL HOMER L SIMMONS AND GLADYS R SIMMONS MARY LOU KITTELBERGER AND FREDERICK W KITTELBERGER DONNA KAY ALLEN AND ROGER ALLEN	742 742 743 745 747 747 750 751 742 742 742 799 801	104 285 194 635 629 206 191 79 85 329 436 222
66 67 68 69 70 71 72 73 74 75	10*15848 10*15855 10*15856 10*15870 10*15872 10*15836 10*15837 10*15842 10*16007	Z Z Z Z Z AA AA AA	9-17-3 9-17-3 9-17-3 9-17-3 9-17-3 9-17-4 9-17-4,4 9-17-4,4 9-17-4,4 9-17-4,4 9-17-4,4	HOMER L SIMMONS AND GLADYS R SIMMONS ALICE THIPPHAYONG AND VISITH THIPPHAYONG LEO CHILKE AND BETTY M HILKE JOHN H HILKE AND ALIDA HILKE SUSAN H KEY LUCINDA RAE ALLEN AND DAVID A ALLEN ANITA DIANE ANTILL AND TERRY ANTILL HOMER L SIMMONS AND GLADYS R SIMMONS MARY LOU KITTELBERGER AND FREDERICK W KITTELBERGER DONNA KAY ALLEN AND ROGER ALLEN TRACY L AND KEITH W BARNBY	742 742 743 745 747 747 750 751 742 742 742 799 801 916	104 285 194 635 629 206 191 79 85 325 436 222
66 67 68 69 70 71 72 73 74 75 76 77	10*15848 10*15855 10*15856 10*15870 10*15872 10*15836 10*15837 10*15837 10*15842 10*16007 10*16008 10*17500 10*17666	Z Z Z Z Z AA AA AA AA AA AA AA	9-17-3 9-17-3 9-17-3 9-17-3 9-17-3 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4	HOMER L SIMMONS AND GLADYS R SIMMONS ALICE THIPPHAYONG AND VISITH THIPPHAYONG LEO C HILKE AND BETTY M HILKE JOHN H HILKE AND AUDA HILKE SUSAN H KEY LUCINDA RAE ALIEN AND DAVID A ALLEN ANITA DIANE ANTILL AND TERRY ANTILL HOMER L SIMMONS AND GLADYS R SIMMONS MARY LOU KITTELBERGER AND FEDERICK W KITTELBERGER DONNA KAY ALIEN AND ROGER ALLEN TRACY LAND KEITH W BARNBY LULA FAYE BONAR SNODGRASS AND DONALD T SNODGRASS	742 742 743 745 747 747 750 751 742 742 749 801 916	104 285 194 635 629 206 191 79 85 329 436 222 116
66 67 68 69 70 71 72 73 74 75 76 77 78	10*15848 10*15855 10*15856 10*15870 10*15872 10*15837 10*15837 10*15837 10*15842 10*16007 10*16008 10*17500 10*17666 10*17673	Z Z Z Z Z Z AA AA AA AA AA AA AA	9-17-3 9-17-3 9-17-3 9-17-3 9-17-3 9-17-4 9-17-4,4 9-17-4,4 9-17-4,4 9-17-4,4 9-17-4,4 9-17-4,4	HOMER L SIMMONS AND GLADYS R SIMMONS AULCE THIPPHAYONG AND VISITH THIPPHAYONG LEO CHUKE AND BETTY M HILKE JOHN H HILKE AND AUDA HILKE SUSAN H KEY ULGINDA RAE ALLEN AND DAVID A ALLEN ANITA DIANE ANTILL AND TERRY ANTILL HOMER L SIMMONS AND GLADYS R SIMMONS MARY LOU KITTELBERGER AND FREDERICK W KITTELBERGER DONNA KAY ALLEN AND ROGER ALLEN TRACY LAND KETH W BARNBY LUIA PAYE BONAR SNODGRASS AND DONALD T SNODGRASS JAMES PERRY COCHRAN	742 742 743 745 747 750 751 742 742 742 749 801 916 949	104 285 194 635 629 206 191 79 85 329 436 222 116
66 67 68 69 70 71 72 73 74 75 76 77 78 79	10*15848 10*15855 10*15856 10*15870 10*15870 10*15876 10*15836 10*15837 10*15842 10*16008 10*17500 10*17605 10*17760	Z Z Z Z Z Z AA AA AA AA AA AA AA AA	9-17-3 9-17-3 9-17-3 9-17-3 9-17-3 9-17-3 9-17-4,4 9-17-4,4 9-17-4,4 9-17-4,4 9-17-4,4 9-17-4,4 9-17-4,4	HOMER L SIMMONS AND GLADYS R SIMMONS AUCE THIPPHAYONG AND VISITH THIPPHAYONG LEO CHUKE AND BETTY M HILKE JOHN H HILKE AND AUDA HILKE SUSAN H KEY LUCINDA RAE ALLEN AND DAVID A ALLEN ANITA DIANE ANTILL AND TERRY ANTILL HOMER L SIMMONS AND GLADYS R SIMMONS MARY LOU KITTELBERGER AND FREDERICK W KITTELBERGER DONNA KAY ALLEN AND ROGER ALLEN TRACY LAND KEITH W BARNBY LILLE PAYE BONAR SNODGRASS AND DONALD T SNODGRASS JAMES PERRY COCCHRAN JACQUELYN S FERRARI AND JOHN C FERRARI	742 742 743 745 747 750 751 742 742 742 799 801 916 949 932	104 285 194 635 629 206 191 79 85 325 436 222 116 177
56 57 58 59 70 71 72 73 74 75 76 77 78 79	10*15848 10*15856 10*15856 10*15870 10*15876 10*15876 10*15836 10*15836 10*15842 10*16008 10*17608 10*17663 10*17673 10*17707	Z Z Z Z Z Z AA AA AA AA AA AA AA AA AA A	9-17-3 9-17-3 9-17-3 9-17-3 9-17-3 9-17-3 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4	HOMER L SIMMONS AND GLADYS R SIMMONS ALICE THIPPHAYONG AND VISITH THIPPHAYONG LEO C HILKE AND BETTY M HILKE JOHN H HILKE AND ABLTY M HILKE SUSAN H KEY LUCINDA RAE ALLEN AND DAVID A ALLEN ANITA DIANE ANTILL AND TERRY ANTILL HOMER L SIMMONS AND GLADYS R SIMMONS MARY LOU KITTELBERGER AND FREDERICK W KITTELBERGER DONNA KAY ALLEN AND ROGER ALLEN TRACY LAND KEITH W BARNBY UILA FAYE BONAR SNODGRASS AND DONALD T SNODGRASS JAMES PERRY COCHRAN JACQUELTY S FERRARI AND JOHN C FERRARI CAROL GONGOLA	742 742 743 745 747 747 750 751 742 742 749 801 916 949 949	104 285 194 635 206 191 79 85 325 436 222 116 177 167
56 57 58 59 70 71 72 73 74 75 76 77 78 79 80 81	10*15848 10*15855 10*15856 10*15870 10*15872 10*15872 10*15836 10*15837 10*15837 10*15842 10*16007 10*16008 10*17500 10*17665 10*17707 10*17705	Z Z Z Z Z Z Z AA AA AA AA AA AA AA AA AA	9-17-3 9-17-3 9-17-3 9-17-3 9-17-3 9-17-3 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4	HOMER L SIMMONS AND GLADYS R SIMMONS ALICE THIPPHAYONG AND VISITH THIPPHAYONG LEO CHILKE AND BETTY M HILKE JIOHN H HILKE AND AUDA HILKE SUSAN H KEY LUCINDA RAE ALLEN AND DAVID A ALLEN ANITA DIANE ANTILL AND TERRY ANTILL HOMER L SIMMONS AND GLADYS R SIMMONS MARY LOU KITTELBERGER AND FREDERICK W KITTELBERGER DONNA KAY ALLEN AND ROGER ALLEN TRACY LAND KETH W BARNBY LUIA PAYE BONAR SNOODGASS AND DONALD T SNOODGRASS JAMES PERRY COCHRAN JACQUELYN S FERRARI AND JOHN C FERRARI CAROL GONGOLA ROBERTA YOUNG	742 742 743 745 747 750 751 742 742 742 742 749 801 916 949 932 949	104 285 194 635 629 206 191 79 85 325 436 222 116 177 167
56 57 58 59 70 71 72 73 74 75 76 77 78 79 80 81 82 83	10*15848 10*15855 10*15856 10*15870 10*15870 10*15870 10*15870 10*15836 10*15837 10*15836 10*15837 10*15836 10*15837 10*15836 10*17500 10*17666 10*17767 10*17707 10*17707 10*17705 10*17765	Z Z Z Z Z Z Z Z AA AA AA AA AA AA AA AA	9-17-3 9-17-3 9-17-3 9-17-3 9-17-3 9-17-4,4 9-17-4,4 9-17-4,4 9-17-4,4 9-17-4,4 9-17-4,4 9-17-4,4 9-17-4,4 9-17-4,4 9-17-4,4 9-17-4,4	HOMER L SIMMONS AND GLADYS R SIMMONS AUCE THIPPHAYONG AND VISITH THIPPHAYONG LEO CHUKE AND BETTY M HILKE JOHN H HILKE AND AUDA HILKE SUSAN H KEY LUCINDA RAE ALLEN AND DAVID A ALLEN ANITA DIANE ANTILL AND TERRY ANTILL HOMER L SIMMONS AND GLADYS R SIMMONS MARY LOU KITTELBERGER AND FREDERICK W KITTELBERGER DONNA KAY ALLEN AND ROGER ALLEN TRACY LAND KEITH W BARNBY LILE PAYE BONAR SNODGRASS AND DONALD T SNODGRASS JAMES PERRY COCHRAN JACQUELYN S FERRARI AND JOHN C FERRARI CAROL GONGOLA ROBERTA YOUNG	742 742 743 745 747 747 750 751 742 742 749 801 916 949 949	10446 2855 19446 6355 2066 2979 1919 1919 1938 1949 1949 1949 1949 1949 1949 1949 194
56 57 58 59 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84	10*15848 10*15856 10*15856 10*15870 10*15876 10*15876 10*15876 10*15876 10*15876 10*15876 10*15876 10*17500 10*17600 10*17600 10*17673 10*17707 10*17707 10*17707 10*17708	Z Z Z Z Z Z Z AA AA AA AA AA AA AA AA AA	9-17-3 9-17-3 9-17-3 9-17-3 9-17-3 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4	HOMER L SIMMONS AND GLADYS R SIMMONS ALICE THIPPHAYONG AND VISITH THIPPHAYONG LEO C HILKE AND BETTY M HILKE JOHN H HILKE AND BETTY M HILKE JUSAN H KEY LUGINDA RAE ALLEN AND DAVID A ALLEN ANITA DIANE ANTILL AND TERRY ANTILL HOMER L SIMMONS AND GLADYS R SIMMONS MARY LOU KITTELBERGER AND FREDERICK W KITTELBERGER DONNA KAY ALLEN AND ROGER ALLEN TRACY LAND KEITH W BARNBY LILE PAYE BONAR SNODGRASS AND DONALD T SNODGRASS JAMES PERRY COCHRAN JACQUELIN'S FERRARI AND JOHN C FERRARI CAROL GONGOLA ROBERTA YOUNG RONALD D KOONTZ & BETH ANN KOONTZ ANNETTE CAIN HANKINS AND HOWARD RONALD HANKINS	742 742 743 745 747 747 750 751 742 742 742 799 801 916 949 949 949 949	1044 2855 1944 6355 2066 297 207 207 207 207 207 207 207 207 207 20
56 57 58 59 70 71 72 73 74 75 76 77 78 80 81 82 83	10*15848 10*15855 10*15856 10*15870 10*15870 10*15872 10*15837 10*15837 10*15837 10*15837 10*15842 10*16007 10*16008 10*17500 10*17665 10*17707 10*17705 10*17705 10*177885	Z Z Z Z Z Z Z AA AA AA AA AA AA AA AA AA	9-17-3 9-17-3 9-17-3 9-17-3 9-17-3 9-17-3 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4	HOMER L SIMMONS AND GLADYS R SIMMONS ALICE THIPPHAYONG AND VISITH THIPPHAYONG LEO CHILKE AND BETTY M HILKE JIOHN H HILKE AND AUDA HILKE SUSAN H KEY LUCINDA RAE ALLEN AND DAVID A ALLEN ANITA DIANE ANTILL AND TERRY ANTILL HOMER L SIMMONS AND GLADYS R SIMMONS MARY LOU KITTELBERGER AND FREDERICK W KITTELBERGER DONNA KAY ALLEN AND ROGER ALLEN TRACY LAND KEITH W BARNBY LILA PAYE BOANA SNOODGASS AND DONALD T SNODGRASS JAMES PERRY COCHRAN JACQUELYN S FERRARI AND JOHN C FERRARI CAROL GONGOLA ROBERTA YOUNG RONALD D KOONTZ & BETH ANN KOONTZ ANNETTE CALIN HANKINS AND HOWARD RONALD HANKINS LEO CHILKE AND BETTY M HILKE	742 742 743 745 747 750 751 742 742 742 742 799 801 916 949 949	1042 2852 1944 6333 2066 1971 797 855 3252 1167 1777 567 167 167 167 167 167 167 167 167 167 1
56 57 58 59 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85	10*15848 10*15855 10*15856 10*15870 10*15870 10*15870 10*15870 10*15836 10*15837 10*15836 10*15837 10*15806 10*17500 10*17666 10*17767 10*17707 10*17707 10*17708 10*17708 10*17708 10*17708 10*17708 10*17708 10*17708 10*17708	Z Z Z Z Z Z AA AA AA AA AA AA AA AA AA A	9-17-3 9-17-3 9-17-3 9-17-3 9-17-3 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4	HOMER L SIMMONS AND GLADYS R SIMMONS ALICE THIPPHAYONG AND VISITH THIPPHAYONG LEO CHILKE AND BETTY M HILKE JOHN H HILKE AND AUDA HILKE SUSAN H KEY LUCINDA RAE ALLEN AND DAVID A ALLEN ANITA DIANE ANTILL AND TERRY ANTILL HOMER L SIMMONS AND GLADYS R SIMMONS MARY LOU KITTELBERGER AND FREDERICK W KITTELBERGER DONNA KAY ALLEN AND ROGER ALLEN TRACY LAND KEITH W BARNBY LULA FAYE BONAR SNODGRASS AND DONALD T SNODGRASS JAMES PERRY COCHRAN JACQUELYN S FERRARI AND JOHN C FERRARI CAROL GONGOLA ROBERTA YOUNG RONALD D KONTZ & BETH ANN KOONTZ ANNETTE CAIN HANKINS AND HOWARD RONALD HANKINS LEO CHILKE AND BETTY M HILKE BRANNEN DAUGHERTY	742 742 743 745 747 747 750 751 742 742 742 742 749 801 916 949 949 949 949 949	1044 2855 1944 6353 6629 2066 191 191 3292 1188 1777 1677 1677 1635 5365 5313 5355
56 57 58 58 59 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87	10*15848 10*15855 10*15856 10*15870 10*15870 10*15870 10*15870 10*15836 10*15836 10*15836 10*15804 10*16008 10*17500 10*17605 10*17673 10*17707 10*17707 10*17708 10*17886 10*17886 10*17887	Z Z Z Z Z Z AA AA AA AA AA AA AA AA AA A	9-17-3 9-17-3 9-17-3 9-17-3 9-17-3 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4	HOMER L SIMMONS AND GLADYS R SIMMONS ALICE THIPPHAYONG AND VISITH THIPPHAYONG LEO CHILKE AND BETTY M HILKE JIOHN H HILKE AND AUDA HILKE SUSAN H KEY LUCINDA RAE ALLEN AND DAVID A ALLEN ANITA DIANE ANTILL AND TERRY ANTILL HOMER L SIMMONS AND GLADYS R SIMMONS MARY LOU KITTELBERGER AND FREDERICK W KITTELBERGER DONNA KAY ALLEN AND ROGER ALLEN TRACY LAND KEITH W BARNBY LILA PAYE BOANA SNOODGASS AND DONALD T SNODGRASS JAMES PERRY COCHRAN JACQUELYN S FERRARI AND JOHN C FERRARI CAROL GONGOLA ROBERTA YOUNG RONALD D KOONTZ & BETH ANN KOONTZ ANNETTE CALIN HANKINS AND HOWARD RONALD HANKINS LEO CHILKE AND BETTY M HILKE	742 742 743 745 747 750 751 742 742 742 742 742 749 801 916 949 949 949 949 942 924	1044285 194416355 6299 206635 1991 1992 85 3292 4366 4362 1777 1777 1777 1777 1777 1777 1777 17
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666 67 68 69 70 71 72 73 74 75 76 77 78 80 81 82 83 84 85 86 87 88 89 90 90 90 90 90 90 90 90 90 90 90 90 90	10*15848 10*15855 10*15856 10*15870 10*15870 10*15870 10*15870 10*15870 10*15870 10*15870 10*15866 10*15837 10*15866 10*17500 10*17666 10*17707 10*17707 10*17707 10*17707 10*17707 10*17707 10*17707 10*17707 10*17707 10*17707 10*17801 10*17881 10*17887 10*17887 10*17887 10*17881 10*18931 10*18931 10*18994 10*18998 10*18998 10*18999 10*181999 10*181999 10*181999 10*181999 10*181999 10*18168	Z Z Z Z Z Z AA AA AA AA AA AA AA AA AA A	9-17-3 9-17-3 9-17-3 9-17-3 9-17-3 9-17-3 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4 9-17-4.4	HOMER L SIMMONS AND GLADYS R SIMMONS AUCE THIPPHAYONG AND VISITH THIPPHAYONG LEO CHUKE AND BETTY M HILKE JOHN H HILKE AND AUDA HILKE SUSAN H KEY LUGINDA RAE ALLEN AND DAVID A ALLEN ANITA DIANE ANTILL AND TERRY ANTILL HOMER L SIMMONS AND GLADYS R SIMMONS MARY LOU KITTELBERGER AND FREDERICK W KITTELBERGER DONNA KAY ALLEN AND ROGER ALLEN TRACY LAND KEITH W BARNBY LILA FAYE BONAR SNODGRASS AND DONALD T SNODGRASS JAMES PERRY COCHRAN JACQUELYN S FERRARI AND JOHN C FERRARI CAROL GONGOLA ROBERTA YOUNG RONALD K KOONTZ & BETH ANN KOONTZ ANNETTE CAIN HANKINS AND HOWARD RONALD HANKINS LEO CHILKE AND BETTY M HILKE BRANNEN DAUGHERTY ANTITA RAE MILLER MICHAEL E SWIFT AND MELODY A SWIFT JANE LOUISE CAIN AND DANIEL CARL HOLTZ LIEE ANNE MILLER DAVID MCDOWELL AND GRYSTAL MCDOWELL JENNIERE WHEATON BONNIE GRISELL TEXYN L MILLER AND GEORGIA A MILLER LUSA ANN MCOOWELL AND ROBERT JOSEPH HILL RAE ELLEN FLOYD AND KENNETH FLOYD ANITA MAE MASON NELCALL AND MELNDA CALL SANDRA YANAGAWA	742 742 743 745 747 747 750 751 742 742 742 742 742 742 749 801 916 949 949 949 949 949 942 924 924 925 927 927 927 927 927	104 2858-2 2066-639-2 2066-639-2 85-329-2 329-2 436-2 436-2 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3 567-3
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STATE OF WEST VIRGINIA DIVISION OF **ENVIRONMENTAL PROTECTION** OFFICE OF OIL AND GAS



849

WELL OPERATOR TUG HILL OPERATING, LLC

ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107

DIANNA STAMPER
DESIGNATED AGENT CT CORPORATION SYSTEM



703 704	10*18193 10*18194	AA	9-17-4.4	CAROLYN LEE FUREY AND MARTIN J FUREY	949	158
705	10*18197	AA	9-17-4.4	PAMELA BEYLER AND CHAD R BEYLER BARBARA K BURLEY AND DAVID K BURLEY	928 928	630 641
706	10*18198	AA	9-17-4.4	MARY THERESA SOLEAU AND THOMAS SOLEAU	928	643
707	10*18199 10*18260	AA	9-17-4.4 9-17-4.4	LAWRENCE J VAUGHN AND GAIL L VAUGHN GEMMA RUDY AND TIMOTHY RUDY	928	532
709	10*18295	AA	9-17-4.4	THOMAS R BAKER AND VICKIE L BAKER	928 929	584 262
710	10*18298	AA	9-17-4.4	MAUREEN GREGG	929	273
711	10*18300 10*18361	AA AA	9-17-4.4	ROBERT W ODOM AND CASSANDRA L ODOM MARY JO CAIN	929	283
713	10*18417	AA	9-17-4.4	CHERYL L HILL	932	577
714	10*18487	AA	9-17-4.4	NANCY L STANGEL AND JOHN J STANGEL	933	113
715 716	10*18488 10*18508	AA	9-17-4.4 9-17-4.4	CHARUNE M ENGLE AND KEVIN E ENGLE PATRICIA LUANNE BONAR	933	118 351
717	10*18517	AA	9-17-4.4	LORI SHANAHAN AND PATRICK SHANAHAN	933	575
718	10*18655	AA	9-17-4.4	PATRICIA L LEHN	936	95
719	10*18656 10*18658	AA	9-17-4.4	PAMELA CALL ELIZABETH JANE KELLER	936	100
721	10*18659	AA	9-17-4.4	CATHERINE P MASON	936 936	112
722	10*18799	AA	9-17-4.4	CHARLES J DARMAFALL DECEASED	937	634
723	10*18805	AA	9-17-4.4	CINDY STEVENS TOZIER	937	628
724	10*19373 10*19403	AA	9-17-4.4	JESSICA WHEATON LAWRENCE R LOTZ	931 951	114
726	10*19404	AA	9-17-4.4	HOWARD M CAIN AND EMMA JEAN CAIN	939	283
727	10*19476	AA	9-17-4.4	WINONA RIDDLE	941	331
728	10*19689 10*19718	AA	9-17-4.4 9-17-4.4	EDMOND TURGEON JR AND CATHY STEVENS TURGEON CHRISTOPHER DAUGHERTY & JENNIFER R DAUGHERTY	944	156 412
730	10*19879	AA	9-17-4.4	MARY V GILSON AND WALTER M GILSON	945	588
731	10*19933	AA	9-17-4.4	MARY ANN GRIFFITH	948	555
732	10*19937 10*19938	AA	9-17-4.4	JAMES D STEVENS AND DOROTHY M STEVENS JOHN H STEVENS AND LYNDA L STEVENS	949	151
734	10*21026	AA	9-17-4.4	NANCY M MORGAN	951	110
735	10*21211	AA	9-17-4.4	NILA JEAN BAYLES	951	118
735 737	10*21841 10*21842	AA AA	9-17-4.4	ENERGY DEEP RESOURCES INC JOSEPH NOKOVICH	959 959	631
738	10*21842	AA	9-17-4.4	BIACK GOLD GROUP LTD	964	474
739	10*21940	AA	9-17-4.4	ALYSIA JORDAN & TERRY M JORDAN	953	346
740	10*22376 10*22412	AA AA	9-17-4.4 9-17-4.4	MARGARET KUCHARZ AND JAMES C KUCHARZ CHAD E LONGFELLOW	962 963	270 124
742	10*22599	AA	9-17-4.4	BRYANT R SWIFT AND KATHY SWIFT	966	456
743	10*22776	AA	9-17-4.4	JAMES ROBERT WELLS	970	19
744	10*22849	AA	9-17-4.4	NEIL MCELROY AND SUE MASON MCELROY	977	39
745	10*22851 10*22853	AA AA	9-17-4.4 9-17-4.4	JOHN J HELLSTERN AND LYNN D HELLSTERN RONALD LEE HENSLEY AND MARY ANN HENSLEY	977	34
747	10*23076	AA	9-17-4.4	JACK R BERISFORD AKA RANDY BERISFORD	984	43
748	10*23260	AA	9-17-4.4	IDA M TRAVIS ET AL DAVID C WHITE AS SPECIAL COMMISSIONER	988	73
749 750	10*23668 10*47051.219.27	AA	9-17-4.4	THE ESTATE OF RUTH IN LUTHER SUZANNE L WOZNIAK EXECUTRIX MARSHA BERISFORD	902	286 425
751	10*47051.219.33	AA	9-17-4.4	JOHN H HILKE AND ALIDA HILKE	898	602
752	10*47051.219.36	AA	9-17-4.4	GAREN MCDOWELL AND ELIZABETH MCDOWELL	898	615
753 754	10*47051.219.37 10*47051.219.38	AA	9-17-4.4	SUSAN H KEY TIMOTHY MCDOWELL AND CYNTHIA MCDOWELL	902	621 431
755	10*47051.219.39	AA	9-17-4.4	ALICE THIPPHAYONG AND VISITH THIPPHAYONG	902	437
756	10*17169	AA	9-17-4.4	ALMA L VAN SCYOC	692	404
757	10*17171	AA.	9-17-4.4	LLOYD R. EVANS	690	631 526
758 759	10*17173 10*47051.219.1	AA	9-17-4.4	DAVID LEE FRANKLIN	874	312
760	10*19702	AA	9-17-4.4	WV MINERALS INC	951	108
761	10*15974	BB	9-15-43	ROGER BRIGHT AND SUSAN LEIMER - DECEASED	777 924	531
762	10*17887 10*18486	BB	9-15-43 9-15-43	LUCINDA RAE ALLEN AND DAVID A ALLEN	933	111
764	10*18618	BB	9-15-43	ANITA DIANE ANTILL AND TERRY ANTILL	934	615
765	10*18767	BB	9-15-43	HOMER L SIMMONS AND GLADYS R SIMMONS	938	486
766	10*18767 10*47051.219.33	BB	9-15-43 9-15-43	HOMER L SIMMONS AND GLADYS R SIMMONS JOHN H HILKE AND AUDA HILKE	938 898	602
768	10*47051,219.37	BB	9-15-43	SUSAN H KEY	898	621
769	10*47051.219.39	BB	9-15-43	AUCE THIPPHAVONG AND VISITH THIPPHAVONG	902	437
770	10*15837 10*15836	CC	9-17-4.3 9-17-4.3	ANITA DIANE ANTILL AND TERRY ANTILL LUCINDA RAE ALLEN AND DAVID A ALLEN	742	85 79
772	10*15842	CC	9-17-4.3	HOMER L SIMMONS AND GLADYS R SIMMONS	742	329
773	10*16007	CC	9-17-4.3	MARY LOU KITTELBERGER AND FREDERICK W KITTELBERGER	799	436
774	10*16008 10*17500	CC	9-17-4.3 9-17-4.3	DONNA KAY ALLEN AND ROGER ALLEN TRACY L AND KEITH W BARNBY	916	116
776	10*17666	CC	9-17-4.3	LILA FAYE BONAR SNODGRASS AND DONALD T SNODGRASS	949	172
777	10*17673	CC	9-17-4.3	JAMES PERRY COCHRAN	932	567
778	10*17707	CC	9-17-4.3 9-17-4.3	JACQUELYN S FERRARI AND JOHN C FERRARI CAROL GONGOLA	949 949	177
779 780	10*17709 10*17765	CC	9-17-4.3	ROBERTA YOUNG	949	163
781	10*17840	cc	9-17-4.3	RONALD D KOONTZ & BETH ANN KOONTZ	942	432
782 783	10*17886	CC	9-17-4.3 9-17-4.3	ANNETTE CAIN HANKINS AND HOWARD RONALD HANKINS LEO C HILKE AND BETTY M HILKE	924 924	536 531
783	10*17887 10*17977	CC	9-17-4.3	BRANNEN DAUGHERTY	925	359
785	10*17980	CC	9-17-4.3	ANITA RAE MILLER	925	370
786	10*17981	CC	9-17-4.3	MICHAELE SWIFT AND MELODY A SWIFT	925 927	372 222
787	10*18031 10*18092	CC	9-17-4.3 9-17-4.3	DAVID MCDOWELL AND CRYSTAL MCDOWELL	927	283
789	10*18093	CC	9-17-4.3	JENNIFER WHEATON	927	289
790	10*18094	CC	9-17-4.3	BONNIE GRISELL TEYVELI MILLER AND GEORGIA A MILLER	927 927	231
791 792	10*18095 10*18098	CC	9-17-4.3 9-17-4.3	TEXYN L MILLER AND GEORGIA A MILLER LISA ANN MCDOWELL AND ROBERT JOSEPH HILL	939	263
793	10*18099	CC	9-17-4.3	RAE ELLEN FLOYD AND KENNETH FLOYD	927	233
794	10*18107	CC	9-17-4,3	ANITA MAE MASON	927	238
795 796	10*18167 10*18168	CC	9-17-4.3 9-17-4.3	NEIL CALL AND WELINDA CALL SANDRA YANAGAWA	927 927	492 498
797	10*18169	CC	9-17-4.3	KAREN K WILLIAMS	927	628
798	10*18170	CC	9-17-4.3	KAREN MCDOWELL CECIL AND JAMES E CECIL	927	633
799	10*18192	CC	9-17-4.3 9-17-4.3	STEPHEN S MASON AND CAROLE K MASON CAROLYN LEE FUREY AND MARTIN J FUREY	928	625 158
800	10*18193 10*18194	CC	9-17-4.3	PAMELA BEYLER AND CHAD R BEYLER	928	630
_	10*18197	cc	9-17-4.3	BARBARA K BURLEY AND DAVID K BURLEY	928	641
802	10*18198	CC	9-17-4.3	MARY THERESA SOLEAU AND THOMAS SOLEAU	928	643

		FILE NO. KEITH		P19HUR S-19HU-	
DATE	MAY 1			, 20 _	19
REVISED_	JUNE 11			, 20 _	19
OPERATOR	RS WELL I	NO.	KEITH S	TERN S-	19HU
WELL 4 NO. ST	7	COUNTY	<u>_</u>	OZZ4	

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

DIANNA STAMPER
CT CORPORATION SYSTEM



804	10*18199	CC	9-17-4.3	LAWRENCE J VAUGHN AND GAIL L VAUGHN	928	532
805	10*18260	cc	9-17-4.3	GEMMA RUDY AND TIMOTHY RUDY	928	584
306	10*18295	CC	9-17-4.3	THOMAS R BAKER AND VICKIE L BAKER	929	262
07	10*18298	CC	9-17-4.3	MAUREEN GREGG	929	273
08	10*18300	CC	9-17-4.3	ROBERT W ODOM AND CASSANDRA LODOM	929	283
09	10*18361	CC	9-17-4.3	MARY JO CAIN	931	407
10	10*18417	CC	9-17-4.3	CHERYLLHILL	932	577
11	10*18487	CC	9-17-4.3	NANCY L STANGEL AND JOHN J STANGEL	933	113
12	10*18488	CC	9-17-4.3	CHARLINE M ENGLE AND KEVIN E ENGLE	933	118
13	10*18508	cc	9-17-4.3	PATRICIA LUANNE BONAR	925	351
4	10*18517	CC	9-17-4.3	LORI SHANAHAN AND PATRICK SHANAHAN	933	575
15	10*18613	CC	9-17-4.3	JANE LOUISE CAIN AND DANIEL CARL HOLTZ	934	603
16	10*18655	cc	9-17-4.3	PATRICIA L LEHN	936	95
7	10*18656	cc	9-17-4.3	PAMELA CALL	935	100
18	10*18658	CC	9-17-4.3	ELIZABETH JANE KELLER	935	107
19	10*18659	cc	9-17-4.3	CATHERINE P MASON	935	112
20	10*18799	cc	9-17-4.3	CHARLES J DARMAFALL DECEASED	937	634
11	10*18805	CC	9-17-4.3	CINDY STEVENS TOZIER	937	628
22	10*19373	CC	9-17-4.3	JESSICA WHEATON	931	411
23	10*19403	CC	9-17-4.3	LAWRENCE R LOTZ	951	114
24	10*19404	cc	9-17-4.3	HOWARD M CAIN AND EMMA JEAN CAIN	939	283
				WINONA RIDDLE		331
26	10*19476 10*19689	CC	9-17-4.3 9-17-4.3	EDMOND TURGEON JR AND CATHY STEVENS TURGEON	941 944	156
_						
27	10*19718	CC	9-17-4.3	CHRISTOPHER DAUGHERTY & JENNIFER R DAUGHERTY	944	412
8	10*19879	CC	9-17-4.3	MARY V GILSON AND WALTER M GILSON	945	588
g	10*19933	CC	9-17-4.3	MARY ANN GRIFFITH	948	555
0	10*19937	CC	9-17-4.3	JAMES D STEVENS AND DOROTHY M STEVENS	949	151
1	10*19938	CC	9-17-4.3	JOHN H STEVENS AND LYNDA L STEVENS	949	144
2	10*21026	CC	9-17-4.3	NANCY M MORGAN	951	110
13	10*21211	CC	9-17-4.3	NILA JEAN BAYLES	951	118
14	10*21841	CC	9-17-4.3	ENERGY DEEP RESOURCES INC	959	631
15	10*21842	cc	9-17-4.3	JOSEPH NOKOVICH	959	635
6	10*21927	CC	9-17-4.3	BLACK GOLD GROUP LTD	964	474
17	10*21940	CC	9-17-4.3	ALYSIA JORDAN & TERRY M JORDAN	953	346
8	10*22376	CC	9-17-4.3	MARGARET KUCHARZ AND JAMES C KUCHARZ	962	270
9	10*22412	CC	9-17-4.3	CHAD E LONGFELLOW	963	124
0	10*22599	CC	9-17-4.3	BRYANT R SWIFT AND KATHY SWIFT	966	456
11	10*22776	CC	9-17-4.3	JAMES ROBERT WELLS	970	19
12	10*22849	CC	9-17-4.3	NEIL MCELROY AND SUE MASON MCELROY	977	44
13	10*22851	CC	9-17-4.3	JOHN J HELLSTERN AND LYNN D HELLSTERN	977	39
14	10*22853	CC	9-17-4.3	RONALD LEE HENSLEY AND MARY ANN HENSLEY	977	34
15	10*23076	CC	9-17-4.3	JACK R BERISFORD AKA RANDY BERISFORD	984	43
6	10*23260	CC	9-17-4.3	IDA M TRAVIS ET AL DAVID C WHITE AS SPECIAL COMMISSIONER	988	73
17	10*23568	CC	9-17-4.3	THE ESTATE OF RUTH IN LUTHER SUZANNE L WOZNIAK EXECUTRIX	1009	286
8	10*47051,219.27	CC	9-17-4.3	MARSHA BERISFORD	902	425
9	10*47051,219.33	CC	9-17-4.3	JOHN H HILKE AND AUDA HILKE	898	602
O	10*47051.219.36	CC	9-17-4.3	GAREN MCDOWELL AND ELIZABETH MCDOWELL	898	615
1	10*47051,219.37	CC	9-17-4.3	SUSAN H KEY	898	621
52	10*47051.219.38	CC	9-17-4.3	TIMOTHY MCDOWELL AND CYNTHIA MCDOWELL	902	431
3	10*47051.219.39	CC	9-17-4.3	ALICE THIPPHAYONG AND VISITH THIPPHAYONG	902	437
4	10*17169	CC	9-17-4.3	ALMA L VAN SCYOC	692	404
55	10*17171	CC	9-17-4.3	OPAL MICKEY	690	631
56	10*17173	CC	9-17-4.3	LLOYD R. EVANS	694	526
57	10*47051.219.1	CC	9-17-4.3	DAVID LEE FRANKLIN	874	312
58	10*19702	CC	9-17-4.3	WV MINERALS INC	951	108
59	10*15836	DD	9-17-4.2	LUCINDA RAE ALLEN AND DAVID A ALLEN	742	79
50		DD	9-17-4.2	ANITA DIANE ANTILL AND TERRY ANTILL	742	85
	10*15837			HOMER L SIMMONS AND GLADYS R SIMMONS	742	329
51	10*15842	DD	9-17-4.2	MARY LOU KITTELBERGER AND FREDERICK W KITTELBERGER	799	436
52	10*16007	DD	9-17-4.2		801	222
53	10*16008	DD	9-17-4.2	DONNA KAY ALLEN AND ROGER ALLEN	916	116
54	10*17500	DD	9-17-4.2	TRACY LAND KEITH W BARNBY		
55	10*17666	DD	9-17-4.2	LILA FAYE BONAR SNODGRASS AND DONALD T SNODGRASS	949	172
56	10*17673	DD	9-17-4.2	JAMES PERRY COCHRAN	932	567
57	10*17707	DD	9-17-4.2	JACQUELYN S FERRARI AND JOHN C FERRARI	949	177
58	10*17709	DD	9-17-4.2	CAROL GONGOLA	949	167
59	10*17765	DD	9-17-4.2	ROBERTA YOUNG	949	163
70	10*17840	DD	9-17-4.2	RONALD D KOONTZ & BETH ANN KOONTZ	942	432
71	10*17886	DD	9-17-4.2	ANNETTE CAIN HANKINS AND HOWARD RONALD HANKINS	924	536
72	10*17887	DD	9-17-4.2	LEO C HILKE AND BETTY M HILKE	924	531
73	10*17977	DD	9-17-4.2	BRANNEN DAUGHERTY	925	359
74	10*17980	DD	9-17-4.2	ANITA RAE MILLER	925	370
75	10*17981	DD	9-17-4.2	MICHAELE SWIFT AND MELODY A SWIFT	925	372
76	10*18613	DD	9-17-4.2	JANE LOUISE CAIN AND DANIEL CARL HOLTZ	934	603
77	10*18031	DD	9-17-4.2	LEE ANNE MILLER	927	222
78	10*18092	DD	9-17-4,2	DAVID MCDOWELL AND CRYSTAL MCDOWELL	927	283
79	10*18093	DD	9-17-4.2	JENNIFER WHEATON	927	289
30	10*18094	DD	9-17-4.2	BONNIE GRISELL	927	231
31	10*18095	DD	9-17-4.2	TEXYN L MILLER AND GEORGIA A MILLER	927	287
32	10*18098	DD	9-17-4.2	LISA ANN MCDOWELL AND ROBERT JOSEPH HILL	939	2.63
33	10*18099	DD	9-17-4.2	RAE ELLEN FLOYD AND KENNETH FLOYD	927	233
34	10*18107	DD	9-17-4.2	ANITA MAE MASON	927	238
85	10*18167	DD	9-17-4.2	NEIL CALL AND MEUNDA CALL	927	492
36	10*18168	DD	9-17-4.2	SANDRA YANAGAWA	927	498
37	10*18169	DD	9-17-4.2	KAREN K WILLIAMS	927	628
38	10*18170	DD	9-17-4.2	KAREN MCDOWELL CECIL AND JAMES E CECIL	927	633
99	10*18192	DD	9-17-4.2	STEPHEN S MASON AND CAROLE K MASON	928	625
90	10*18193	DD	9-17-4.2	CAROLYN LEE FUREY AND MARTIN I FUREY	949	158
91	10*18194	DD	9-17-4.2	PAMELA BEYLER AND CHAD R BEYLER	928	630
92	10*18197	DD	9-17-4.2	BARBARA K BURLEY AND DAVID K BURLEY	928	641
93	10*18198	DD	9-17-4.2	MARY THERESA SOLEAU AND THOMAS SOLEAU	928	643
94	10*18199	DD	9-17-4.2	LAWRENCE J VAUGHN AND GAILL VAUGHN	928	537
95	10*18260	DD	9-17-4.2	GEMMA RUDY AND TIMOTHY RUDY	928	584
الاند	10*18295	DD	9-17-4.2	THOMAS R BAKER AND VICKIE L BAKER	929	262
QC.		DD	9-17-4.2	MAUREEN GREGG	929	273
_	10*18298				929	283
97	10*18300	DD	9-17-4.2	ROBERT W ODOM AND CASSANDRA L ODOM	931	407
97 98	April 100 mm	DD	9-17-4.2	MARY JO CAIN		_
97 98 99	10*18361		9-17-4.2	CHERYL L HILL	932	577
97 98 99 00	10*18417	DD		CONTRACTOR OF THE PROPERTY OF	000	
97 98 99 00 01	10*18417 10*18487	DD	9-17-4.2	NANCY L STANGEL AND JOHN J STANGEL	933	
96 97 98 99 00 01 02 03	10*18417			NANCY L STANGEL AND JOHN J STANGEL CHARLINE M ENGLE AND KEVIN E ENGLE PATRICIA LUANNE BONAR	933 933 925	113 118 351

		FILE NO KEITH ST	8811P19HUF TERN S-19HU-	
DATE	MAY 1		, 20	19
REVISED_	JUNE 11	1	, 20 _	19
OPERATOR	RS WELL	NO. KE	ITH STERN S	-19HU
WELL STA	7 ATE	COUNTY	0224 PER	

No. 849
STATE OF
VIRCHARD
STONAL SURINING

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



849

WELL OPERATOR TUG HILL OPERATING, LLC

ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107

DIANNA STAMPER
CT CORPORATION SYSTEM



906	10*18655 10*18656	DD	9-17-4.2	PATRICIA L LEHN PAMELA CALL	936	95
907	10*18658	DD	9-17-4.2	ELIZABETH JANE KELLER	936	107
308	10*18659	DD	9-17-4.2	CATHERINE P MASON	936	112
909	10*18799	DD	9-17-4.2	CHARLES J DARMAFALL DECEASED	937	634
10	10*18805	DD	9-17-4.2	CINDY STEVENS TOZIER	937	628
11	10*19373	DD	9-17-4.2	JESSICA WHEATON	931	411
12	10*19403	DD	9-17-4.2	LAWRENCE R LOTZ	951	114
13	10*19404	DD	9-17-4.2	HOWARD M CAIN AND EMMA JEAN CAIN	939	283
14	10*19476	DD	9-17-4.2	WINONA RIDDLE	941	331
15	10*19689 10*19718	DD	9-17-4.2 9-17-4.2	EDMOND TURGEON JR AND CATHY STEVENS TURGEON CHRISTOPHER DAUGHERTY & JENNIFER R DAUGHERTY	944	156 412
17	10*19879	DD	9-17-4.2	MARY V GILSON AND WALTER M GILSON	944	588
18	10*19933	DD	9-17-4.2	MARY ANN GRIFFITH	948	555
19	10°19937	DD	9-17-4.2	JAMES D STEVENS AND DOROTHY M STEVENS	949	151
20	10*19938	DD	9-17-4.2	JOHN H STEVENS AND LYNDA L STEVENS	949	144
21	10*21026	DD	9-17-4.2	NANCY M MORGAN	951	110
22	10*21211	DD	9-17-4.2	NILA JEAN BAYLES	951	118
23	10*21841	DD	9-17-4.2	ENERGY DEEP RESOURCES INC	959	631
24	10*21842	DD	9-17-4.2	JOSEPH NOXOVICH	959	635
25	10*21927 10*21940	DD	9-17-4.2 9-17-4.2	BLACK GOLD GROUP LTD ALYSIA JORDAN & TERRY M JORDAN	964 953	474 346
27	10*22376	DD	9-17-4.2	MARGARET KUCHARZ AND JAMES C KUCHARZ	962	270
28	10*22412	DD	9-17-4.2	CHAD ELONGFELLOW	963	124
29	10*22599	DD	9-17-4.2	BRYANT R SWIFT AND KATHY SWIFT	966	456
30	10*22776	DD	9-17-4.2	JAMES ROBERT WELLS	970	19
31	10*22849	DD	9-17-4.2	NEL MCELROY AND SUE MASON MCELROY	977	44
32	10*22851	DD	9-17-4.2	JOHN J HELLSTERN AND LYNN D HELLSTERN	977	39
33	10*22853	DD	9-17-4.2	RONALD LEE HENSLEY AND MARY ANN HENSLEY	977	34
34	10*23076	DD	9-17-4.2	JACK R BERISFORD AKA RANDY BERISFORD	984	43
35	10*23260	DD	9-17-4.2	IDA M TRAVIS ET AL DAVID C WHITE AS SPECIAL COMMISSIONER THE ESTATE OF RUTH N LUTHER SUZANNE L WOZNIAK EXECUTRIX	988	73 286
36	10*23668 10*47051.219.27	DD	9-17-4.2 9-17-4.2	MARSHA BERISFORD	902	425
38	10*47051,219.33	DD	9-17-4.2	JOHN H HILKE AND AUDA HILKE	898	602
39	10*47051.219.36	DD	9-17-4.2	GAREN MCDOWELL AND ELIZABETH MCDOWELL	898	615
40	10*47051.219.37	DD	9-17-4.2	SUSAN H KEY	898	621
41	10*47051.219.38	DD	9-17-4.2	TIMOTHY MCDOWELL AND CYNTHIA MCDOWELL	902	431
42	10*47051,219.39	DD	9-17-4.2	AUCE THIPPHAVONG AND VISITH THIPPHAVONG	902	437
43	10*17169	DD	9-17-4.2	ALMA L VAN SCYOC	692	404
44	10°17171	DD	9-17-4.2	OPALMICKEY	690	631
45	10*17173	DD	9-17-4.2	LLOYD R. EVANS	694 874	312
46 47	10*47051.219.1	DD	9-17-4.2 9-17-4.2	DAVID LEE FRANKLIN WV MINERALS INC	951	108
48	10*15836	EE	9-17-5	LUCINDA RAE ALLEN AND DAVID A ALLEN	742	79
49	10*15837	EE	9-17-5	ANITA DIANE ANTILL AND TERRY ANTILL	742	85
50	10*15842	EE	9-17-5	HOMER L SIMMONS AND GLADYS R SIMMONS	742	329
51	10*16007	EE	9-17-5	MARY LOU KITTELBERGER AND FREDERICK W KITTELBERGER	799	436
52	10*17500	EE	9-17-5	TRACY LAND KEITH W BARNBY	916	116
53	10*17666	EE	9-17-5	LILA FAYE BONAR SNODGRASS AND DONALD T SNODGRASS	949	172
54	10*17673	EE	9-17-5	JAMES PERRY COCHRAN	932	567
55	10*17707	EE	9-17-5	JACQUELYN S FERRARI AND JOHN C FERRARI	949	177
56	10*17709	EE	9-17-5	ROBERTA YOUNG	949	163
57 58	10*17765 10*17840	EE	9-17-5	RONALD D KOONTZ & BETH ANN KOONTZ	942	432
59	10*17886	EE	9-17-5	ANNETTE CAIN HANKINS AND HOWARD RONALD HANKINS	924	536
60	10*17887	EE	9-17-5	LEO C HILKE AND BETTY M HILKE	924	531
61	10*17977	EE	9-17-5	BRANNEN DAUGHERTY	925	359
62	10*17980	EE	9-17-5	ANITA RAE MILLER	925	370
63	10*17981	EE	9-17-5	MICHAEL E SWIFT AND MELODY A SWIFT	925	372
64	10*18019	EE	9-17-5	SUSAN H KEY	927	272
65	10*18020	EE	9-17-5	ALICE THIPPHAVONG AND VISITH THIPPHAVONG	927	270
66	10*18031 10*18092	EE	9-17-5 9-17-5	DAVID MCDOWELL AND CRYSTAL MCDOWELL	927	283
67 68	10*18092	EE	9-17-5	JENNIFER WHEATON	927	289
69	10*18094	EE	9-17-5	BONNIE GRISELL	927	231
70	10*18095	EE	9-17-5	TEXYN L MILLER AND GEORGIA A MILLER	927	287
71	10*18098	EE	9-17-5	LISA ANN MCDOWELL AND ROBERT JOSEPH HILL	939	263
72	10*18099	EE	9-17-5	RAE ELLEN FLOYD AND KENNETH FLOYD	927	233
73	10*18107	EE	9-17-5	ANITA MAE MASON	927	238
74	10*18113	EE	9-17-5	JOHN H HILKE	927	159 492
75	10*18167 10*18168	EE	9-17-5 9-17-5	NEIL CALL AND MEUNDA CALL. SANDRA YANAGAWA	927	492
76 77	10*18169	EE	9-17-5	KAREN K WILLIAMS	927	628
78	10*18170	EE	9-17-5	KAREN MCDOWELL CECIL AND JAMES E CECIL	927	633
79	10*18192	EE	9-17-5	STEPHEN S MASON AND CAROLE K MASON	928	625
80	10*18193	EE	9-17-5	CAROLYN LEE FUREY AND MARTIN I FUREY	949	158
81	10*18194	EE	9-17-5	PAMELA BEYLER AND CHAD R BEYLER	928	630
82	10*18197	EE	9-17-5	BARBARA K BURLEY AND DAVID K BURLEY	928	641
83	10*18198	EE	9-17-5	MARY THERESA SOLEAU AND THOMAS SOLEAU LAWRENCE J VAUGHN AND GAIL L VAUGHN	928 928	643 532
84	10*18199	EE	9-17-5	GEMMA RUDY AND TIMOTHY RUDY	928	584
85	10*18260 10*18295	EE	9-17-5 9-17-5	THOMAS R BAKER AND VICKIE L BAKER	929	262
87	10*18298	EE	9-17-5	MAUREEN GREGG	929	273
88	10*18300	EE	9-17-5	ROBERT W ODOM AND CASSANDRA LODOM	929	283
89	10*18361	EE	9-17-5	MARY JO CAIN	931	407
90	10*18417	EE	9-17-5	CHERYLL HILL	932	577
91	10*18487	EE	9-17-5	NANCY L STANGEL AND JOHN J STANGEL	933	113
92	10*18488	EE	9-17-5	CHARLINE M ENGLE AND KEVIN E ENGLE	933	118
93	10*18508	EE	9-17-5	PATRICIA LUANNE BONAR	925	351
94	10*18517	EE	9-17-5	LORI SHANAHAN AND PATRICK SHANAHAN	933	575 608
995	10*18613	EE	9-17-5	JANE LOUISE CAIN AND DANIEL CARL HOLTZ	934	95
96	10*18655 10*18656	EE	9-17-5 9-17-5	PATRICIA L LEHN PAMELA CALL	936	100
998	10*18658	EE	9-17-5	ELIZABETH JANE KELLER	936	107
999	10*18659	EE	9-17-5	CATHERINE P MASON	936	112
000	10*18799	EE	9-17-5	CHARLES J DARMAFALL DECEASED	937	634
001	10*18805	EE	9-17-5	CINDY STEVENS TOZIER	937	628
002	10*19373	EE	9-17-5	JESSICA WHEATON	931	411
_	10*19403	EE	9-17-5	LAWRENCE R LOTZ	951 939	114
003	10*19404	EE	9-17-5	HOWARD M CAIN AND EMMA JEAN CAIN		283

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DATE MAY 1 , 20 _

REVISED JUNE 11 _ , 20 _ 19

OPERATORS WELL NO.

KEITH STERN S-19HU

WELL NO. STATE

COUNTY

02244 PERMIT



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



P.S. 849

DIANNA STAMPER
CT CORPORATION SYSTEM

ADDRESS 5400 D BIG TYLER ROAD

WELL OPERATOR TUG HILL OPERATING, LLC

051

ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107

CHARLESTON, WV 25313



1006	10*19689	EE	9-17-5	EDMOND TURGEON JR AND CATHY STEVENS TURGEON	944	156
1007	10*19718	EE	9-17-5	CHRISTOPHER DAUGHERTY & JENNIFER R DAUGHERTY	944	412
1008	10*19879 10*19933	EE	9-17-5	MARY V GILSON AND WALTER M GILSON	945	588
1010	10*19937	EE	9-17-5 9-17-5	JAMES D STEVENS AND DOROTHY M STEVENS	948	555
1011	10*19938	EE	9-17-5	JOHN H STEVENS AND LYNDA L STEVENS	949	151
1012	10*21026	EE	9-17-5	NANCY M MORGAN	949	144
1013	10*21211	EE	9-17-5	NILA JEAN BAYLES	951	110
1014	10*21841	EE		ENERGY DEEP RESOURCES INC	951	118
1015	10*21842		9-17-5		959	631
1015	10*21927	EE	9-17-5	JOSEPH NOKOVICH	959	635
_			9-17-5	BLACK GOLD GROUP LTD	964	474
1017	10*21940	EE	9-17-5	ALYSIA JORDAN & TERRY M JORDAN	953	346
1018	10*22376	EE	9-17-5	MARGARET KUCHARZ AND JAMES C KUCHARZ	962	270
1019	10*22412	EE	9-17-5	CHAD E LONGFELLOW	963	124
1020	10*22599	EE	9-17-5	BRYANT R SWIFT AND KATHY SWIFT	966	455
1021	10*22776	EE	9-17-5	JAMES ROBERT WELLS	970	19
1022	10*22849	EE	9-17-5	NEIL MCELROY AND SUE MASON MCELROY	977	44
1023	10*22851	EE	9-17-5	JOHN J HELLSTERN AND LYNN D HELLSTERN	977	39
1024	10*22853	EE	9-17-5	RONALD LEE HENSLEY AND MARY ANN HENSLEY	977	34
1025	10*23076	EE	9-17-5	JACK R BERISFORD AKA RANDY BERISFORD	984	43
1026	10*23260	EE	9-17-5	IDA M TRAVIS ET AL DAVID C WHITE AS SPECIAL COMMISSIONER	988	73
1027	10*23668	EE	9-17-5	THE ESTATE OF RUTH IN LUTHER SUZANNE L WOZNIAK EXECUTRIX	1009	286
1028	10*47051.219.27	EE	9-17-5	MARSHA BERISFORD	902	425
1029	10*47051.219.36	EE	9-17-5	GAREN MCDOWELL AND ELIZABETH MCDOWELL	898	615
1030	10*19702	EE	9-17-5	WV MINERALS INC	951	108
1031	10*17169	EE	9-17-5	ALMA L VAN SCYOC	692	404
1032	10*17171	EE	9-17-5	OPAL MICKEY	690	631
1033	10*17173	EE	9-17-5	LLOYD R. EVANS	694	526
1034	10*47051.219.1	EE	9-17-5	DAVID LEE FRANKLIN	874	312
1035	10*21095	FF	9-15-40.1	TIMOTHY LEE COLLEY	951	200
1036	10*21096	FF	9-15-40.1	GEORGE L DUNN AND NANCY MARIE DUNN	951	194
1037	10*21097	FF	9-15-40.1	JAMES DUNN AND DONNA K DUNN	951	197
1038	10*21205	FF	9-15-40.1	RONALD W REINBEAU	953	86
1039	10*21207	FF	9-15-40.1	KEITH W STORCH AND DEBORAH A STORCH	951	209
		FF			951	206
1040	10*21208		9-15-40.1	JOHN T CRISWELL AND CATHERINE A CRISWELL		
1041	10*21210	FF	9-15-40.1	PETER G STORCH AND LAURIE L STORCH	951	203
1042	10*21231	FF	9-15-40.1	JENNIFER SHAWN GLOVER	953	89
1043	10+21232	FF	9-15-40.1	JEFFREY BRYAN CRISWELL	953	92
1044	10*21233	FF	9-15-40.1	WILLIAM LINSLEY CRISWELL	953	95
1045	10*21398	FF	9-15-40.1	LYNN ELLIOTT AND JUDITH ELLIOTT	957	301
1046	10*21872	FF	9-15-40.1	ROSEMARIE BERISFORD	953	484
1047	10*21399	FF	9-15-40.1	MARY M MORRIS	956	642
1048	10*21528	FF	9-15-40.1	PATRICIA KIRCHNER	959	305
1049	10*21839	FF	9-15-40.1	WILLIAM BRYAN COLLEY	959	445
1050	10*21845	FF	9-15-40.1	PATRICIA DOFKA	959	448
1051	10*21865	FF	9-15-40.1	FRANK A STORCH JR AND SUSAN STORCH	959	442
1052	10*21874	FF	9-15-40.1	CHAZ AARON COLLEY AND DANA COLLINS	953	475
1053	10*21957	FF	9-15-40.1	CATHERINE I AND ERNEST M SILVERIO	960	15
1054	10*21966	FF	9-15-40.1	DAVID HALL AND SANDRA SUE HALL	959	644
1055	10*21973	FF	9-15-40.1	REID ELATTRACHE AND TONYA ELATTRACHE	960	502
1056	10*21980	FF	9-15-40.1	CHARLES C SEAMON	954	344
1057	10*21989	FF	9-15-40.1	NEIL SCHAFER AND CHRISTAL L SHAFER	953	481
1058	10*22112	FF	9-15-40.1	EMMA JO CRISWEUL	961	349
1059	10*22127	FF	9-15-40.1	JUDITH L BENEDICT AND LOUIS G BENEDICT	951	343
1060	10*22159	FF	9-15-40.1	JOSHUA W SEAMON	953	478
1061	10*22833	FF	9-15-40.1	RANDY W MORRIS SR AND CHERYL MORRIS	966	465
1062	10*25524	FF	9-15-40.1	JAMES P MILLER	1009	375
					1010	565
1063	10*25534	FF FF	9-15-40.1 9-15-40.1	LINDA K AND MICHAEL HUMES JAMES R SNIDER AND CYNTHIA L SNIDER	1025	617
1064	10*24721			LUCINDA RAE ALLEN AND DAVID A ALLEN	742	73
1065	10*15833	GG	9-17-7			110
1066	10*15834	GG	9-17-7	ANITA DIANE ANTILL AND TERRY ANTILL	742	366
1067	10*15841	GG	9-17-7	HOMER LISIMMONS AND GLADYS RISIMMONS	742	
1068	10*24120	GG	9-17-7	CHARLES E THOSS	1022	360
1069	10*24490	GG	9-17-7	GREGORY M TARR AND KEREN B TARR	1025	222
1070	10*25620	GG	9-17-7	THE GRACIA BAKER REVOCABLE LIVING TRUST DATED JULY 12 2011	1033	300
1071	10*26423	GG	9-17-7	PATRICIA & MICHAEL QUARANTO	1034	593
1072	10*26695	GG	9-17-7	DEBORAH JEAN TARR-UNKNOWN HEIRS	1041	437
1073	10*26905	GG	9-17-7	JONATHAN RANKIN	1036	117
1074	10*26906	GG	9-17-7	ELIZABETH A GREEN TRUST	1036	111
1075	PENDING	GG	9-17-7	CHRISTINE RANKIN SMALLWOOD	PENDING	PENDING
1076	10*26907	GG	9-17-7	CHARLES S TARR	1036	123
1077	10*47051.185.1	HH	9-17-39	HOMER L SIMMONS AND GLADYS R SIMMONS	885	68
1078	10*47051.185.2	HH	9-17-39	LUCINDA RAE ALLEN AND DAVID A ALLEN	894	482
1079	10*47051.185,3	HH	9-17-39	ANITA DIANE ANTILL AND TERRY ANTILL	885	71
1080	10*47051.185.1	- 11	9-17-38	HOMER L SIMMONS AND GLADYS R SIMMONS	885	68
1081	10*47051,185.2	11	9-17-38	LUCINDA RAE ALLEN AND DAVID A ALLEN	894	482
1082	10*47051.185.3	11	9-17-38	ANITA DIANE ANTILL AND TERRY ANTILL	885	71
1083	10*47051.185.1	11	9-17-38.1	HOMER L SIMMONS AND GLADYS R SIMMONS	885	68
1084	10*47051,185.2	II.	9-17-38.1	LUCINDA RAE ALLEN AND DAVID A ALLEN	894	482
1085	10*47051.185.3	JJ	9-17-38.1	ANITA DIANE ANTILL AND TERRY ANTILL	885	71
1085	10*15802	KK	9-17-37	TOM GOULDSBERRY	683	640
1087	10*15803	KK	9-17-37	CHARLOTTE CROW	683	631
1088	10*15804	KK	9-17-37	JOE GOULDSBERRY	683	637
1088	10*15805	KK	9-17-37	MARY ELLEN CHAMBERS	694	82
-		KK	9-17-37	JOANNE FOX	683	634
1090	10*15806				685	190
1091	10*15807	KK	9-17-37	GLORIS VAN SCYOC		193
	10*15808	KK	9-17-37	ANGELA YOHO	685 687	225
1092			9-17-37	RYAN J AND MICHELE L RIDDLE	687	20
1093	10*15809	KK			000	166
	10*15809 10*15810 10*15811	KK KK	9-17-37 9-17-37	FLOSSIE P RUTAN SANDRA M WINSLOW	690 719	266 51

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DATE	MAY 1		, 20	19
REVISED_	JUNE 11		, 20	19
OPERATO	RS WELL NO.	KEITH	STERN S	-19HU
WELL ST	.7 —	UNTY	PER	MIT

No. 849
**
STATE OF VIRCHIA

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

DIANNA STAMPER
CT CORPORATION SYSTEM

Keith Stern S-19HU 9-14-13 9-14-11 9-14-19 9-14-24 9-14-11.1 9-14-23 9-14-20 9-14-26 9-14-24.1 9-14-11.3 9-15-16 9-14-23 9-15-17 Fish Creek 9-15-17 9-15-41 9-15-42 9-15-40.1 9-17-7 9-17-2 9-17-39 9-17-37 **Bottom Hole** 9-17-38.1 9-17-35 CONFIDENTIAL Utica Well 1500 Foot Buffer TUG HILL Keith Stern S-19HU Operators within 1500 Feet of Well Borehole

Name	Offset Operators within 1500'								
MARSHALL MEADE 9-14-11 TH EXPLORATION LLC 380 Southpointe Bivd., Ste 200 Canonsburg, PA 15317 MARSHALL MEADE 9-14-11.1 TH EXPLORATION LLC 380 Southpointe Bivd., Ste 200 Canonsburg, PA 15317 MARSHALL MEADE 9-14-11.3 TH EXPLORATION LLC Canonsburg, PA 15317 MARSHALL MEADE 9-14-12 TH EXPLORATION LLC Canonsburg, PA 15317 MARSHALL MEADE 9-14-13 TH EXPLORATION LLC Canonsburg, PA 15317 MARSHALL MEADE 9-14-13 TH EXPLORATION LLC Canonsburg, PA 15317 MARSHALL MEADE 9-14-15 TH EXPLORATION LLC Canonsburg, PA 15317 MARSHALL MEADE 9-14-19 TH EXPLORATION LLC 380 Southpointe Bivd., Ste 200 MARSHALL MEADE 9-14-20 TH EXPLORATION LLC Canonsburg, PA 15317 MARSHALL MEADE 9-14-20 TH EXPLORATION LLC Canonsburg, PA 15317 MARSHALL MEADE 9-14-20.1 TH EXPLORATION LLC Canonsburg, PA 15317 MARSHALL MEADE 9-14-20.2 TH EXPLORATION LLC	County	District			Addross				
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MARSHALL	MEADE	9-15-43.1	TH EXPLORATION LLC	Canonsburg, PA 15317
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		-		625 Liberty Ave.
				Suite 1700
MARSHALL	MEADE	9-17-35	EQT CORPORATION	Pittsburgh, PA 15222
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WANSTIALL	WILADE	3-17-4	THE EXPLORATION ELEC	Canonsburg, PA 15517
				380 Southpointe Blvd.,
				Ste 200
MARSHALL	MEADE	9-17-4.1	TH EXPLORATION LLC	Canonsburg, PA 15317
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				380 Southpointe Blvd.,
				Ste 200
MARSHALL	MEADE	9-17-4.2	TH EXPLORATION LLC	Canonsburg, PA 15317
				380 Southpointe Blvd.,
				Ste 200
MARSHALL	MEADE	9-17-4.3	TH EXPLORATION LLC	Canonsburg, PA 15317
				380 Southpointe Blvd.,
MADCHALL	NAFADE	0.47.4.4	THE EVEL OF ATION HE	Ste 200
MARSHALL	MEADE	9-17-4.4	TH EXPLORATION LLC	Canonsburg, PA 15317
				380 Southpointe Blvd.,
				Ste 200
MARSHALL	MEADE	9-17-5	TH EXPLORATION LLC	Canonsburg, PA 15317
		3 2. 0		10000 Energy Drive
MARSHALL	MEADE	9-17-5	SWN PRODUCTION COMPANY LLC	· ·
				380 Southpointe Blvd.,
				Ste 200
MARSHALL	MEADE	9-17-7	TH EXPLORATION LLC	Canonsburg, PA 15317
				10000 Energy Drive
MARSHALL	MEADE	9-17-7	SWN PRODUCTION COMPANY LLC	Spring, TX 77389
				380 Southpointe Blvd.,
NAADCHALL	MEADE	0.40.0	TH EVELOPATION OF	Ste 200
MARSHALL	MEADE	9-19-2	TH EXPLORATION LLC	Canonsburg, PA 15317
				201 Cauthootata Blad
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MARSHALL	MEADE	FISH CREEK	TH EXPLORATION LLC	Canonsburg, PA 15317
	MILAUL	1 OH CKLLK	LAI LORATION LLC	Carionabuig, FA 1331/

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		Attended	D	D 1-/D
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 Wy Stull
Its:	Permitting Specialist - Appalachia Region

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N/A	N/A	ŊA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	2/4	N/A	N/A	N/A		N/A		N/A	NA	N	2/136 Union Gasoline & Oil Corp to Preston Oil Company		Oil Corp to Preston Oil Company	2/136 Unio	Assignment
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N/A	N/A	702	N/A	A/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A A/N	NA		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A			N		8 537/518 Columbia Gas Transmission Corp to Columbia Natural (204 Resources Inc:		Columbia Natural 204 Resources Inc:	βo	Assignment
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N/A	N/A	100	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	!	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A		e Cert of Merger of SWN VN Exchange Titleholder er LLC to SWN Production Company LLC: 19/624		N N	650/63 Columbia LC to Natural Resources chia Chesapeake Appali LLC		Chesapeake Appal	650/63 Columbia	Assignment
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Operator's Well No. Keith Stern N - 19HU

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TRUST KIMBERLY MAEZ TRUSTEE	CHARLES C SEAMON	ERINE I AND ST M SILVERIO	WILLIAMSON JR	MICHAEL WAYNE ALLEY	WILLIAM BRYAN COLLEY	AMSON	L ALLEY JR	DANIEL E WILLIAMSON AND HEATHER R WILLIAMSON	RT L LANDRIS AND TY JANE LANDRIS	OSEPH A MURPHY AND VIRGINIA ANNE MURPHY	MICHAEL D ZUCKER	DANIEL L'ANDRIS AND	LORAINE G HORNER	CHARLES R WILLIAMSON	CHMELYNSKI	AND DANIEL DEGROOT	DA GILBERT		SARA E STARC SHERWOOD MASON	JOE Y KELLER JR AND SHARON MARIE KELLER	DONNA STARC	JOSEPH F STARC JR AND	BETH A STARC	TONYA ELATTRACHE	AARON COLLEY	GGEMAN	A ALLEY	TAL L SHAFER	CHAFER AND	E R BROWN	DURR SUCKEL &	RUTH RUSH AND	OLK CASADA	MCMAHON III TRUSTEE OF THE PAMELA J MCMAHON REVCBLE TRUST	MCMAHON III AND MICHELE M MCMAHON TRUSTEES OF THE AUGUSTUS R MCMAHON III LIVING TRUST	NEED O MILLER	E WILLIAMSON	RAH A STORCH	ROBERT A SPALENY KEITH W STORCH AND	R SPALENY AND	MARIE STEVENS	AL D RUSH	H C LORADITCH EY W RUSH AND	PATRICIA KIRCHNER	r, Lessor, Etc
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MARSHA BERISFORD	LUTHER SUZANNE L	COMMISSIONER	IDA M TRAVIS ET AL DAVI	JACK R BERISFORD AKA RANDY BERISFORD	MARY ANN HENSLEY AND	LYNN D HELLSTERN	MASON MCELROY	NEIL MCELROY AND SUE	KATHY SWIFT	CHAD E LONGFELLOW	ARET SCKU	JORDAN	BLACK GOLD GROUP LTD	JOSEPH NOKOVICH	ENERGY DEEP RESOURCE	NILA JEAN BAYLES	LYNDA L STEVENS	JOHN H STEVENS AND	JAMES D STEVENS AND	MARY ANN GRIFFITH	MARY V GILSON AND	CHRISTOPHER DAUGHERTY	AND CATHY STEVENS TURGEON	EDMOND TURGEON JR	EMMA JEAN CAIN	LAWRENCE R LOTZ	JESSICA WHEATON	DECEASED	CATHERINE P MASON	ELIZABETH JANE KELLER	PAMELA CALL	PATRICK SHANAHAN	PATRICIA LUANNE BONAR	VEALUE CONVICE	CHARLINE M ENGLE AND	JOHN J STANGEL AND	CHERYL L HILL	MARY JO CAIN	ROBERT W ODOM AND	VICKIE L BAKER	THOMAS R BAKER AND	GEMMA RUDY AND	GAIL L VAUGHN A	AND THOMAS SOLEAU	DAVID K BURLEY	CHAD R BEYLER	PAMELA BEYLER AND	CAROLYN LEE FUREY AN	STEPHEN S MASON AND CAROLE K MASON	AND JAMES E CECIL	KAREN K WILLIAMS	SANDRA YANAGAWA	NEIL CALL AND MELINDA	ANITA MAE MASON	RAE ELLEN FLOYD AND	LISA ANN MCDOWELL A	Grantor, Lessor, Etc	
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N/A	N/A		N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A A/N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Assignment
N/A	, No.	W/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	d	N/A	N/A	N/A	N/A	N/A	N/A	N/A	A/N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Assignment
N/A	195	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A N/A	. Apr	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Assignment
N/A	147	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	200	N/A	N/A	N/A	N/A	N/A	N/A A/N	N/A	N/A	N/A		N/A	N/A	; ;	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	A/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Assignment
N/A		N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	N/A A/A	N/A	N/A	N/A		N/A	N/A	4	N/A A/N	N/A	N/A	N/A	N/A	N/A	A/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Assignment
N/A		N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A A/N	N/A	N/A	N/A	N/A	A/N	N/A	N/A	N/A A/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	WA	Assignment
N/A		N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	A/N	N/A	N/A	N/A	N/A	A/N	N/A	1/4	N/A	N/A	N/A	N/A	N/A	AVA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Assignment
N/A		N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	A/N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Assignmen
N/A	N/A	A/N	N/A		N/A	N/A	N/A	N/A	N/A	N/A	21/2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	t Assignme
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BARBARA K BURLEY AND	R BEYLER AND	MARTIN J FUREY	LE K MASON	STEPHEN S MASON AND	N WCDOWELL CECIL	KAREN K WILLIAMS	BA VANAGAWA	NEIL CALL AND MELINDA	H HII KE	ETH FLOYD	LLEN FLOYD AND	LISA ANN MCDOWELL AND	IGIA A MILLER	A L MILLER AND	FER WHEATON	TAL MCDOWELL AND	NNE MILLER	VISITH THIPPHAVONG AND		MELODY A SWIFT	AEL E SWIFT AND	A RAE MILLER	TILKE	GNS	AND HOWARD RONALD	ANN KOONTZ	RTA YOUNG	OL GONGOLA	UELYN S FERRARI	S PERRY COCHRAN	o die	LILA FAYE BONAR SNODGRASS AND DONALD	TRACY LAND KEITH W BARNBY	ELBERGER	MARY LOU KITTELBERGER AND FREDERICK W	HOMER L SIMMONS AND		A DIANE ANTILL AND Y ANTILL		DAVID A ALLEN DAVID A ALLEN	MINERALS INC	DAVID LEE FRANKLIN		OFALMICAET	NO.		ALMA I VAN SCYOC		ALICE THIPPHAVONG AND VISITH THIPPHAVONG	CYNTHIA MCDOWELL AND	Grantor, Lessor, Etc
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N/A	Chesapeake Appalachia LL to Statoil USA Onshore Properties Inc: 23/479	Chesapeake Appalachia U to Statoil USA Onshore Properties Inc: 32/247	Chesapeake Appalachia UU to Statoil USA Onshore Properties Inc: 32/247	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	A/N	N/A	N/A	N/A	N/A	N/A A/N	N/A	N/A	N/A	N/A									N/A											Assignment
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BOK 004 | RE 0256

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 <u>Disclaimers of Warranties and Representations</u>.

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

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WV Department of Environmental Protection DPS LAND SERVICE 6000 TOWN CENTER BLVD STE 145 CANONSBURG, PA 15317-5841

BOOK 0036 PAGE 0 148

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 "Assigner") 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. <u>Special Warranty.</u> 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.

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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

Assignment. For good and valuable consideration, the receipt and Section 1.1 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 <u>Assignment Subject to Acreage Trade Agreement</u>. 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 <u>Disclaimers of Warranties and Representations</u>.

(a) EXCEPT AS EXPRESSLY REPRESENTED OTHERWISE IN <u>SECTION</u>
<u>VI</u> 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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JUN 13 11019

ASHLEY FAVINGER
AMERICAN PETROLEUM PARTNERS OPERATING LLC
4600 J BARRY COURT STE 310
CANONSBURG PA 15317-5854

BUK 0042 NEO 1-09

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 TH 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:

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. <u>Special Warranty</u>: 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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PARTIAL ASSIGNMENT OF OIL AND GAS LEASES

This PARTIAL ASSIGNMENT OF OIL AND GAS LEASES (hereinafter, "Assignment"), made the __?!_ '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

Assignment. For good and valuable consideration, the receipt and Section 1.1 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 <u>Assignment Subject to Acreage Trade Agreement</u>. 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 <u>SECTION</u> <u>VI</u> 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 <u>Assignment</u>. 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 <u>Exhibit A</u> attached hereto (the "Leases") INSOFAR AND ONLY INSOFAR as they cover those lands described on <u>Exhibit A</u> (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.

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

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JUN 1 3 2019



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 S-19HU

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 S-19HU 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,

Amy L. Miller

Permitting Specialist - Appalachia Region

Office of Oil and Gas

JUN 13 2019

WV Department of Environmental Protection

WW-6AC (1/12)

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

	ce Certification; 06/07/2019	F	API No. 47	- 051 -	
				Well No. Keith	
		1	Well Pad N	ame: Keith St	ern
	been given:				
Pursuant to th	ne provisions in West Virginia Code	§ 22-6A, the Operator has provi-	ded the req	uired parties v	ith the Notice Forms listed
	tract of land as follows:				
state:	West Virginia		Easting:	526,370.07	
County:	Marshall		Northing:	4,402,811.38	
District:	Meade	Public Road Acces			(County Route 74)
)uadrangle:	Glen Easton 7.5'	Generally used far	m name:	TH Exploration, L	LC
Vatershed:	Fish Creek (HUC 10)				
of giving the equirements Virginia Cod	equired by subsections (b) and (c), so surface owner notice of entry to so of subsection (b), section sixteen (e) § 22-6A-11(b), the applicant shall have been completed by the applica	urvey pursuant to subsection (a of this article were waived in w tender proof of and certify to the), section to vriting by	en of this article ow	cle six-a; or (iii) the notice mer; and Pursuant to West
that the Ope	West Virginia Code § 22-6A, the O rator has properly served the requir ECK ALL THAT APPLY		is Notice C	ertification	OOG OFFICE USE
					ONLY
□ 1. NO	TICE OF SEISMIC ACTIVITY OF	NOTICE NOT REQUIRE SEISMIC ACTIVITY WAS			ONLY RECEIVED/ NOT REQUIRED
	TICE OF SEISMIC ACTIVITY OF	SEISMIC ACTIVITY WAS	CONDUC	TED	☐ RECEIVED/
■ 2. NO		SEISMIC ACTIVITY WAS O	CONDUC' Y WAS CO ED BECAU	DED ONDUCTED	☐ RECEIVED/
■ 2. NO	TICE OF ENTRY FOR PLAT SUR	SEISMIC ACTIVITY WAS OVEY OF NO PLAT SURVE NOTICE NOT REQUIRE NOTICE OF ENTRY FOR PI	CONDUC Y WAS CO ED BECAU LAT SURV	DED ONDUCTED USE VEY	☐ RECEIVED/ NOT REQUIRED ☐ RECEIVED
■ 2. NO	TICE OF ENTRY FOR PLAT SUR	SEISMIC ACTIVITY WAS OVEY OF NO PLAT SURVED NO PLAT SURVED NOTICE NOT REQUIRE NOTICE OF ENTRY FOR PIWAS CONDUCTED OF WAS CONDUCTED OF CHEASE ATTACH)	CONDUC Y WAS CO ED BECAU LAT SURV	DED ONDUCTED USE VEY	☐ RECEIVED/ NOT REQUIRED ☐ RECEIVED ☐ RECEIVED/ NOT REQUIRED ☐ RECEIVED
■ 2. NO □ 3. NO ■ 4. NO	TICE OF ENTRY FOR PLAT SUR TICE OF INTENT TO DRILL or	SEISMIC ACTIVITY WAS OVEY OF NO PLAT SURVED NO PLAT SURVED NOTICE NOT REQUIRE NOTICE OF ENTRY FOR PIWAS CONDUCTED OF WAS CONDUCTED OF CHEASE ATTACH)	CONDUC Y WAS CO ED BECAU LAT SURV	DED ONDUCTED USE VEY	☐ RECEIVED/ NOT REQUIRED ☐ RECEIVED ☐ RECEIVED/ NOT REQUIRED

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)

By:

Its:

Certification of Notice is hereby given:

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

Well Operator: Tug Hill Operating, LLC

Amy L. Miller Muj Shull

Telephone: 724-749-8388

Permitting Specialist - Appalachia Region

Address: 380 Southpointe Boulevard, Plaza II, Suite 200

Canonsburg, PA 15317

Facsimile: 724-338-2030

Email: amiller@tug-hillop.com

COMMONWEALTH OF PERMSYLVANIA

NOTARIAL SEAL
Chester Arthur West IV, Notary Public
Pine Twp., Allegheny County
My Commission Expires Feb. 10, 2020
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Subscribed and sworn before me this

day of Ju

Notary Public

My Commission Expires

Oil and Gas Privacy Notice:

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

Office of Oil and Gas
JUN 13 2019

WW-6A (9-13)

API NO. 47- 051 .	
OPERATOR WELL	NO. Keith Stern S-19HU
Well Pad Name: Keit	h 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: 5/2/2019 Date Permit Application Filed: 5/3/2019 Notice of: PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) REGISTERED ✓ METHOD OF DELIVERY THAT REQUIRES A PERSONAL RECEIPT OR SIGNATURE CONFIRMATION **SERVICE MAIL** 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) M COAL OWNER OR LESSEE Name: _TH Exploration, LLC (Access Road and Well Pad) Name: CONSOL Energy, Inc. Attn: Casey Saunders Address: 1000 CONSOL Energy Drive Address: 380 Southpointe Boulevard, Plaza II, Suite 200 Canonsburg, PA 15318 Canonsburg, PA 15317 ☐ COAL OPERATOR Name: Name: Address: Address: RECEIVED
Office of Oil and Gas ☐ SURFACE OWNER(s) (Road and/or Other Disturbance) IJ SURFACE OWNER OF WATER WELL Name: AND/OR WATER PURVEYOR(s) Address: JUN 1 3 2019 Name: *See attached list Address: Name: OPERATOR OF ANY NATURAL GAS STORENGE Protection Address: ☐ SURFACE OWNER(s) (Impoundments or Pits) Address: Name: Address: *Please attach additional forms if necessary

4705102244

WW-6A (8-13) API NO. 47

OPERATOR WELL NO. Keith Stem S-19HU

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/RECEIVED Office of oil and Gas and-gas/pages/default.aspx.

Well Location Restrictions

JUN 1 3 2019

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

WW-6A (8-13)

API NO. 47-051

OPERATOR WELL NO. Keith Stern S-19HU

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 and Gas 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

JUN 13 2019

WV Department of Environmental Protection

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

WW-6A (8-13) API NO. 47- 051

OPERATOR WELL NO. Keith Stern S-19HU

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.

Office of Oil and Gas

JUN 1 3 2019

W Department of Environmental Protection

WW-6A (8-13)

API NO. 47-051 0 5 1 0 2 2 4 4

OPERATOR WELL NO. Keith Stern S-19HU
Well Pad Name: Keith Stern

Notice is hereby given by:		
Well Operator: Tug Hill Operating, LLC	Address: 380 Southpointe Boulevard, Plaza II, Suite 200	
Telephone: 724-749-8388	Canonsburg, PA 15317	
Email: amiller@tug-hillop.com (MU) Mullu-	Facsimile: 724-338-2030	

Oil and Gas Privacy Notice:

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

Commonwealth of Pennsylvania - Notary Seal MAUREEN A STEAD - Notary Public Washington County My Commission Expires Jan 28, 2023 Commission Number 1259926 Subscribed and sworn before me this 2 day of MAN 2019.

Notary Public My Commission Expires 1/29/23

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 S - 19HU

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.

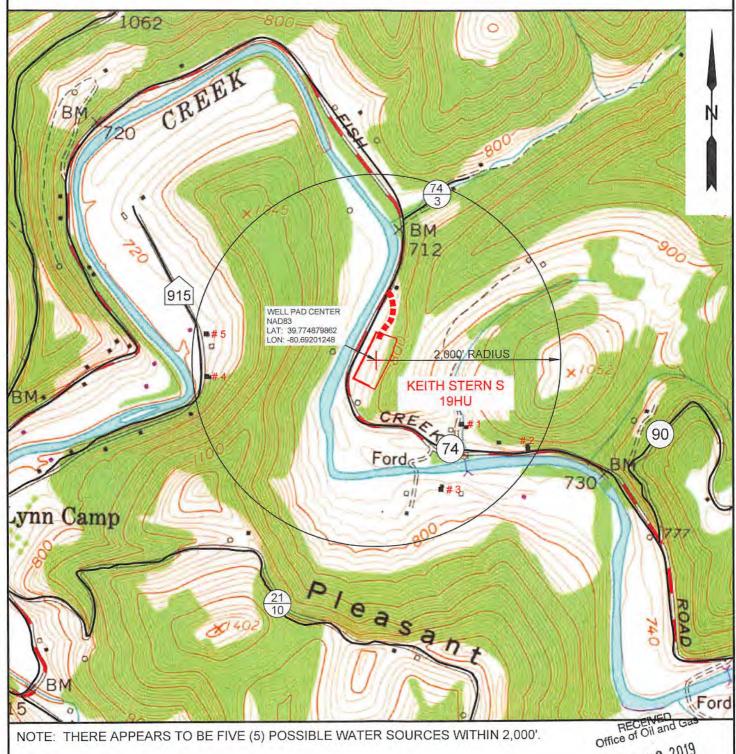
House 1	House 2	House 3
TM 14 Pcl. 20	TM 14 Pcl. 20.1	TM 14 Pcl. 21
William K. Stern, Et Ux	William K. Stern, Et Ux	Eleanore M. Fox Est.
Phone: 304-843-1478 (Per Address –	Phone: 304-843-1478 (Per Address –	Phone: 304-845-6016 (Per Tax Address –
Keith, Betty & Ginger Sue Stern)	Keith, Betty & Ginger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

Office of Oil and Gas

JUN 13 2019

W Department of Environmental Protection

PROPOSED KEITH STERN S - 19HU



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

JN 13 2019



	1	
Land	8	Energy Development
		utions from the ground up.
O. Boy 150	412 1	/anhorn Drive ◆ Glenville WV 26351 ◆ /304) 462-5634

TOPO SI	ECTION:	OPERATOR:		
GLEN EAS	STON 7.5'	PREPARED FOR: TUG HILL OPERATING, LLC		
COUNTY DISTRICT		380 SOUTHPOI	NTE BLVD	
MARSHALL	MEADE	SUITE 200 CANONSBURG, PA 15317		
DRAWN BY JOB NO. K.G.M. 8811		DATE	SCALE	
		05/01/2019	1" - 1000'	



WW-6A3 (1/12)

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

Notice Time entry	Requirement: Notice	e shall be provided a	nt least SEVEN (7) day	s but no more tha	n FORTY-FIVE (45) days prior to
Date of Notice	ce: 12/11/17	Date of Planned	Entry: 12/18/17			
Delivery me	thod pursuant to We	st Virginia Code §	22-6A-10a			
☐ PERSO	NAL □ REG	ISTERED •	METHOD OF DEL	IVERY THAT RE	EQUIRES A	
SERVIC			RECEIPT OR SIGN			
on to the surf but no more t beneath such owner of min and Sediment Secretary, wh enable the sur	ace tract to conduct and than forty-five days properties that has filed a discrete underlying such that Control Manual and nich statement shall intrace owner to obtain	ny plat surveys requirior to such entry to: leclaration pursuant tract in the county the statutes and rule clude contact inform	o filing a permit application filing a permit application of the surface owner to section thirty-six, are ax records. The notice is related to oil and gas nation, including the acceptance.	ticle. Such notice of such tract; (2) ticle six, chapter to shall include a state exploration and p	shall be provided at to any owner or les wenty-two of this c atement that copies production may be o	t least seven days see of coal seams rode; and (3) any of the state Erosion obtained from the
Notice is her	reby provided to:					
■ SURFAC	CE OWNER(s)		■ COAI	OWNER OR LE	SSEE	
Name: TH Exp	loration, LLC (Access Road and	d Well Pad)	Name: Con	sol Energy, Inc.		_
Address: 380	Southpointe Boulevard, Plaza	II, Suite 200	The second section of the second section is a second section of the second section is a second section of the second section is a second section of the second section section is a second section of the second section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section secti	CNX Center, 1000 Consol	Energy Drive	_
	onsburg, PA 15318		C	anonsburg, PA 15317		-
Name:			■ MINIT	DAL OWNEDAN		
Address:				RAL OWNER(s)		
Manage				am K. and Betty L. Stern	1	_
Name: Address:				4912 Fish Creek Road Glen Easton, WV 26039		_
Address				additional forms if ne	ecessary	-
Pursuant to V a plat survey State: County: District:	ereby given: Vest Virginia Code § 2 on the tract of land as West Virginia Marshall Meade		Public Road A Watershed:	ude & Longitude: access:	39.7748867; -80.692036 Fish Creek Road (Count Fish Creek (HUC 10)	32
Quadrangle:	Glen Easton 7.5'		Generally use	d farm name:	TH Exploration, LLC	
may be obtain Charleston, Vobtained from Notice is he Well Operator	ned from the Secretary WV 25304 (304-926-0 in the Secretary by visi ereby given by:	y, at the WV Depart 0450). Copies of su	ual and the statutes and ment of Environmenta ch documents or additi ov/oil-and-gas/pages/o	l Protection headq onal information t lefault.aspx.	uarters, located at 6	1 drilling may be RECEIVED Gas
Telephone:	724-749-8388			Canonsburg, PA 1531	7	JUN 13 20/9
Email:	amiller@tug-hillop.com		Facsimile:	724-338-2030		JUN 1
Oil and Ga The Office of duties. Your	s Privacy Notice: f Oil and Gas processe personal information	es your personal info	ormation, such as name to other State agencie	e, address and tele s or third parties	phone number, as pin the normal cour	WV Department of WV Department of WV Departmental Protection of our regulatory are 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-6A5 (1/12)

Operator Well No. Keith Stern S-19HU

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS $\underline{\text{NOTICE OF PLANNED OPERATION}}$

Delivery me	thod pursuant to West Virginia C	ode § 22-6A-16(c)			
☐ CERTI	FIED MAIL	■ HAND			
	RN RECEIPT REQUESTED	DELIVERY			
return receipt the planned of required to be drilling of a damages to the (d) The notice of notice.	W. Va. Code § 22-6A-16(c), no late requested or hand delivery, give the operation. The notice required by a provided by subsection (b), section horizontal well; and (3) A propose he surface affected by oil and gas on the surface of the section shall be good by provided to the SURFACE O	e surface owner whose land this subsection shall inclu the ten of this article to a surf d surface use and compense erations to the extent the degiven to the surface owner a	d will be used for de: (1) A copy ace owner whose sation agreement amages are com	or the drilling of a horizo of this code section; (2 se land will be used in co at containing an offer of pensable under article size	ontal well notice of) The information onjunction with the compensation for x-b of this chapter.
	s listed in the records of the sheriff				
		Name:			
		Addres	s.		
Address: 380 Canonsburg, PA Notice is her Pursuant to V	Southpointe Boulevard, Plaza II, Suite 200 15318 eby given: Vest Virginia Code § 22-6A-16(c), n		he undersigned		ped a planned
Address: 380 Canonsburg, PA Notice is her Pursuant to V operation on State: County:	Southpointe Boulevard, Plaza II, Suite 200 15318 eby given:	notice is hereby given that the pose of drilling a horizonta UTM NAD 8	he undersigned of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of the trace of		ped a planned
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The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of purificant 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.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

June 11, 2019

Byrd E. White, III Secretary of Transportation

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 S-19HU 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 RECEIVE and Gas

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 S-19HU

PRODUCT NAME:	CHEMICAL DESCRIPTION:	PRODUCT USE:	HAZARDOUS COMPONENT:
GBW-20C	Hemicellulase Breaker	Breaker - Water	None
ALPHA 1427		Biocide	Glutaraldehyde – CAS#000111-30-8 Quatemary ammonium chloride CAS# 007173-51-5 Alky dimethyl benzyl ammonium Chloride (C12-16) – CAS#068424-85-1 Ethanol – CAS# 000064-17-5 Water – CAS# 007732-18-5
FRAC SAND	Silica Sand (various Mesh sizes)	Proppant	Crystalline silica (quartz) CAS# 14808-60-7
S-8C, Sand	Silica Sand (100 mesh)	Sand	Silica – CAS# 14808-60-7
GW-3LDF		Gellant - Water	Petroleum Distillate Blend – Proprietary, (Not Associated with Diesel Fuel) Guar gum – CAS# 009000-30-0
FRW-18		Friction Reducer	Hydrotreated light distillate CAS# 064742-47-8
Scaletrol		Scale Inhibitor	Ethylene glycol – CAS# 000107-21-1 Diethylene glycol – CAS# 000111-46-6

Office of Oil and Gas

JUN 13 2019

WV Department of Environmental Protection

