

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

Harold D. Ward, Cabinet Secretary www.dep.wv.gov

Wednesday, November 17, 2021 WELL WORK PERMIT Horizontal 6A / New Drill

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

Permit approval for BRECKENRIDGE S-19HU

47-051-02398-00-00

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

Operator's Well Number: BRECKER BOGF 5-1

Farm Name: CNX LAND LLC

U.S. WELL NUMBER: 47-951-02398-00-00

Horizontal 6A New Drill Date Issued: 11/17/2021



west virginia department of environmental protection

Oil and Gas Conservation Commission 601 57th Street SE, Charleston, WV 25304 304-414-1239

Randall M. Albert, Chairman dep.wv.gov

November 5, 2021

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

RE: Application for Deep Well Permit - API #47-051-02398

COMPANY: Tug Hill Operating, LLC

FARM: CNX Land, LLC Breckenridge S-19HU

COUNTY: Marshall DISTRICT: Cameron 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>. Pooling Docket No. 302-306.

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:

- Comments to Notice of Deviation filed? Yes. Docket No. 302-306.
- Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owners? Yes
- Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of all deep wells: **yes
- 4. Provided a plat showing that the productive interval of the well meets the requirements of the Rules of the Commission W. Va. C.S.R. § 39-1-4.2.

Sincerely,

Susan Rose

Administrator

^{**}Hudson S-15HU 47-051-02328; Hudson S-16HU 47-051-02329; Breckenridge S-17HU 47-051-02396; Breckenridge S-18HU 47-051-02397; Breckenridge S-20HU 47-051-02399; Breckenridge S-21HU 47-051-02400; Breckenridge S-22HU 47-051-02401; Breckenridge S-23HU 47-051-02402

PERMIT CONDITIONS

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

CONDITIONS

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

API Number:	

PERMIT CONDITIONS

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

WW-6B (04/15)

API NO. 47-051	
OPERATOR WELL NO.	Breckenridge S-19HU
Well Pad Name: Brecke	enridge

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

1) Well Operator: Tug Hill Op	erating, LLC	494510851	Marshall	Cameron	Glen Easton 7.5'
.,		Operator ID	County	District	Quadrangle
2) Operator's Well Number: Bro	eckenridge S-1	9HU Well I	ad Name: Bre	ckenridge	
3) Farm Name/Surface Owner:	CNX Land, LLC	Public R	oad Access: Cl	R 62	
4) Elevation, current ground:	1380' E	Elevation, propose	d post-construc	tion: 1370.1	10'
5) Well Type (a) Gas X Other	Oil	Ur	derground Stor	age	
(b)If Gas Sha	llow	Deep	X		
6) Existing Pad: Yes or No No		ainsted Thickness	_ Bo	my Stally	p 6-17-21
Proposed Target Formation(s Point Pleasant is the target formation					e of approx. 7,500 psi.
8) Proposed Total Vertical Dept	h: 12,075'				
9) Formation at Total Vertical D	-				
10) Proposed Total Measured D	epth: 23,780'				
11) Proposed Horizontal Leg Le	ngth: 11,202.	01'			
12) Approximate Fresh Water S	trata Depths:	70; 1,048'			
13) Method to Determine Fresh 14) Approximate Saltwater Dep		Offset well reports or	noticeable flow at	the flowline or wl	hen need to start soaping
15) Approximate Coal Seam De	pths: Sewickle	y Coal - 952' and	d Pittsburgh Co	oal - 1042'	
16) Approximate Depth to Possi	ble Void (coal n	nine, karst, other)	None anticip	ated	
17) Does Proposed well location directly overlying or adjacent to	contain coal sea	ams	N		RECEIVED Office of Oil and Gas
(a) If Yes, provide Mine Info:	Name: Mar	shall County Mir	ne		
and a company of the contract	Depth: Pitts	sburgh coal - 104	12' and subsea	level - 328'	AUG 1 3 2021
	Seam: Pitts	sburgh			WV Department of Environmental Protection
	Owner: Mur	ray Energy Corp	oration		

WW-6B (04/15) API NO. 47-051

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

18)

CASING AND TUBING PROGRAM

ТҮРЕ	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/Coal	20"	NEW	J55	106.5#	1,150'	1,150'	1839ft^3(CTS)
Intermediate 1	13 3/8"	NEW	J55	54.5#	3,002'	3,002'	2115ft^3(CTS)
Intermediate 2	9 5/8"	NEW	HPP110	47#	10,957'	10,957'	3581ft^3(CTS)
Production	5 1/2"	NEW	P110	23#	23,780'	23,780'	5634ft^3(CTS)
Tubing	2 7/8"	NEW	P110	6.5#	11,518'		
Liners							

4B.S. 6-17-21

					10.0.	0	0-1
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/Coal	20"	26#	.5	2,410	1,928	SEE #24	1.2
Intermediate 1	13 3/8"	17 1/2"	.38	2,740	2,192	SEE #24	1.2
Intermediate 2	9 5/8"	12 1/4"	.472	10,730	6,968	SEE #24	1.33
Production	5 1/2"	8 1/2"	.415	16,510	13,208	SEE #24	1.17/1.19
Tubing	2 7/8"			14,530	11,624		
Liners							

PACKERS

Kind:	N/A	RECEIVED
Sizes:	N/A	Office of Oil and Gas AUG 1 3 2021
Depths Set:	N/A	WV Department of Environmental Protection

WW-6B (10/14) APINO. 47-7510 5 1 0 2 3 9 8

OPERATOR WELL NO. Breckenridge S-19HU

Well Pad Name: Breckenridge

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 (11,043'). Drill curve and lateral per proposed well plan, run and cement production casing. Perform CBL from 60 deg to surface, make cleanout run, and stimulate.

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

Well to be completed with approximately 28,000,000 lb. proppant and 21,429,000 gallons of water. Max rate = 80bpm; max psi = 9,000#.

BS. 6-27-21

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 45.40
- 22) Area to be disturbed for well pad only, less access road (acres): 8.21

23) Describe centralizer placement for each casing string:

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

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

Sfc - Premium NE-1 + 2% CaCl; Int1 - Premium NE-1 + 1.5% CaCL + Flake; Int2 - Lead: Premium NE-1 + 5% BA-90 + .85% R-3 + 3% KCl + .75 gals/100sk FP-13L + 1% MPA-170 Tail: Premium NE-1 + .1% R-3 + 5% KCl + 1% CD-32 + .4% FL-52 + .2% ASA-301 + .6% Sodium Metasilicate; Kick Plug - Class H Cement + 1% CD-32 + .7% Sodium Metasilicate + .1% R-3 + .75 gal/100sk FP-13L; Prod - Lead: 50:50 (Poz:Class H) + .3% R-3 + .3% MPA-250 + .75 gal/100sk FP-13L Tail: 25:75 (Poz:Class H) + .3% R-3 + .3% MPA-250 + .375 gal/100sk FP-13L

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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WV Department of Environmental Protection

*Note: Attach additional sheets as needed.



30° C16 (9 120' MD / 120' TVD

> 20" Cig @ 1,150" MD/ 1,150° TVD

3,002' MD / 3,000' TVD

9 5/8" Csg & 10,957' MD /

KOP @ 11,043' ti MD

10,744"TVD

WELL NAME: STATE: DISTRICT: DF Elev:

BH Longitude:

Breckenridge S-19HU

wv COUNTY:

Cameron 1,370

-80.610644

Marshall

1,370

23,780 TH Latitude: 39.830269 TH Longitude: -80.626651 BH Latitude: 39.802159

Formation

Deepest Fresh Water Sewicidey Coal Pittsburgh Coal Big Lime Beres Tully Marcellus

Onondaga

Salina Lockport Utica Point Pleasant

Landing Depth

Trenton

Pilot Hole TD

FORMATION TOPS		
ormation	Depth TVD	
st Fresh Water	1,048'	
vicidey Coal	952'	
sburgh Coal	1,042	
Big Lime	2,245	
Borea	2,863	
Tully	6,862	
Marcellus	6,982	
Onondaga	7,034	
Salina	7,773'	
Lockport	8,744	
Utica	11,615	
int Pleasant	11,803	

11,911

11,925

12,075

			CASING SUM	MARY			
Туре	Hole Size (in)	Csg Size (in)	Depth [MD]	Depth (TVD)	Weight (lb/ft)	Grade	Top of Cemen
Conductor	36	30	120*	120	BM	BW	Surface
Surface	25	20	1,150*	1,150	106.5	155	Surface
Intermediate 1	17 1/2	13 3/3	3,002	3,000	54.5	155	Surface
Intermediate 2	12 1/4	9 5/8	10,957	10,744	47	HPP110	Surface
Production	8 1/2	5 1/2	23,780'	12,106	23	HCP110	Surface

	CEMENT SUM	MARY		DRILLING DETAILS		
Saeks Class Density Field Type Centralize				Centralizer Notes		
Conductor	338	A	15.6	Air	None	
Surface	1,984	A	15.6	Air	3 Centralizers at equal distance	
Intermediate 1	2,292	A	15	Air	1 Centralizer every other jt	
Intermediate 2	2,962	A	14.5	Air	1 Centralizer every other jt	
Production	4,985	A .	15	Air / SOBM	1 every other joint in lateral; 1 per joint in curve; 1 every other it ifc	

Pilot Hole

PHTD@ 17,075

PH TVD = 150' below Trenton Top

Landing Point @ 12,580' MD / 11,311' TVD

Environmental Protection

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Lateral TD @ 23,780 ft MD 12,106 ft TVD



Tug Hill Operating, LLC Casing and Cement Program

Breckenridge S-19HU

	Casing							
	String	Grade	Bit Size	Depth (Measured)	Cement Fill Up			
Conductor	30"	BW	36"	120'	CTS			
Surface	20"	J55	26"	1,150'	CTS			
Intermediate 1	13 3/8"	J55	17 1/2"	3,002	CTS			
Intermediate 2	9 5/8"	HPP110	12 1/4"	10,957*	CTS			
Production	5 1/2"	HCP110	8 1/2"	23,780	CTS			

Cement

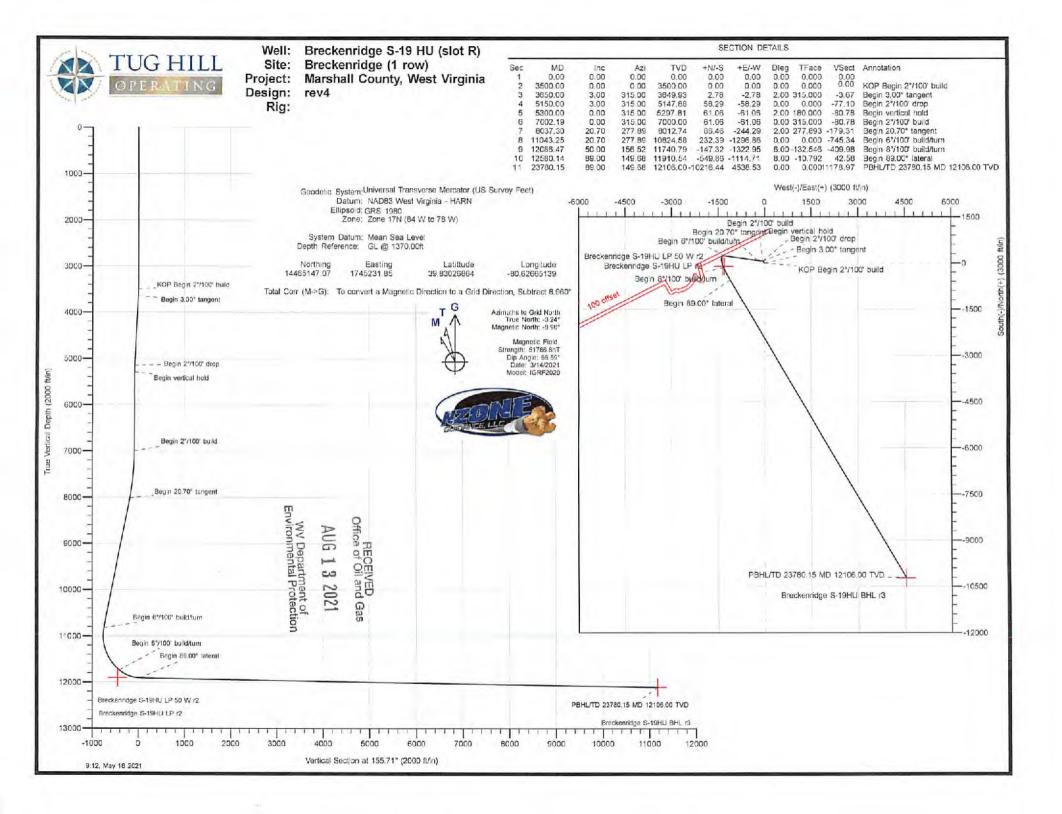
Surface:	Premium NE-1 + 2% bwoc CaC12 + 46.5% Fresh Water – Surface Cement mixed at 15.6 ppg, Y=1.2
Intermediate 1:	Premium NE-1 + 1% bwoc CaC12 + 46.5% Fresh Water – Intermediate Cement mixed at 15.6 ppg, Y=1.2
Intermediate 2:	Premium NE-1 + 1% bwoc CaC12 + 46.5% Fresh Water – Intermediate Cement mixed at 15.6 ppg, Y=1.99
	50:50 Poz: Premium NE-1 + .1% bwoc ASA-301 + 60lb/sk ASCA-1 + .35% bwoc BA-10A + .25% bwoc MPA-170.

Production:

44 lb sack + .5% bwcc R-3 + .75 gals/100sk FP-13L — Production Cement mixed at 15.2ppg, Y = 1.18

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Database: Company: Project:

Site:

DB_Dec2220_v16 Tug Hill Operating LLC Marshall County, West Virginia

Breckenridge (1 row)

Well: Wellbore: Breckenridge S-19 HU (slot R)

Original Hole Design: rev4

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Breckenridge S-19 HU (slot R)

GL@ 1370.00ft GL@ 1370.00ft

Grid

Minimum Curvature

Project

Marshall County, West Virginia

Map System:

Universal Transverse Mercator (US Survey Feet)

NAD83 West Virginia - HARN

System Datum:

Mean Sea Level

Geo Datum: Map Zone:

Zone 17N (84 W to 78 W)

Site

Breckenridge (1 row)

Site Position: From:

Lat/Long 0.00 ft

0.00 ft

Northing: Easting:

14,465,184.76 usft 1.745,068.18 usft

Latitude: Longitude: 39.83037401

Position Uncertainty:

Slot Radius:

13-3/16

-80.62723379

Breckenridge S-19 HU (slot R) Well

rev4

Well Position +N/-S +E/-W

0.00 ft 0.00 ft

Northing: Easting:

14,465,147.07 usft 1,745,231.85 usft Wellhead Flevation: ft

Latitude: Longitude:

Ground Level:

39.83026864 -80.62665139 1,370.00 ft

Position Uncertainty Grid Convergence:

Wellbore Original Hole

Field Strength Magnetics Model Name Sample Date Declination Dip Angle (°) (°) (nT) IGRF2020 66.586 51,786.81249180 3/14/2021 -8.721

Design

Audit Notes: Version:

1

Phase:

PLAN

Tie On Depth:

0.00

Vertical Section:

Depth From (TVD) (ft) 0.00

+N/-S (ft) 0.00

+E/-W (ft) 0.00

Direction (°) 155.71

Plan Survey Tool Program Date

> Depth From Depth To (ft)

> > 0.00

(ft)

Survey (Wellbore) 23,780.15 rev4 (Original Hole) Tool Name

Remarks

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Database: Company: Project:

Site:

DB_Dec2220_v16
Tug Hill Operating LLC
Marshall County, West Virginia

Breckenridge (1 row)

Well: Wellbore: Breckenridge S-19 HU (slot R)

Wellbore: Original Hole
Design: rev4

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Breckenridge S-19 HU (slot R)

GL @ 1370.00ft GL @ 1370.00ft

Grid

Minimum Curvature

lan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
3,500.00	0.00	0.00	3,500.00	0,00	0.00	0.00	0.00	0.00	0.000	
3,650.00	3.00	315.00	3,649.93	2.78	-2.78	2.00	2.00	0.00	315.000	
5,150.00	3.00	315.00	5,147.88	58.29	-58.29	0.00	0.00	0.00	0.000	
5,300.00	0.00	315.00	5,297.81	61.06	-61.06	2.00	-2.00	0.00	180,000	
7,002.19	0.00	315.00	7,000.00	61.06	-61.06	0.00	0.00	0.00	315.000	
8,037.30	20.70	277.89	8,012.74	86.46	-244.29	2.00	2.00	-3.58	277,893	
11,043.25	20.70	277.89	10,824.58	232.39	-1,296.86	0.00	0.00	0.00	0.000	
12,086.47	50.00	156.52	11,740.79	-147.32	-1,322.95	6.00	2.81	-11.63	-132.546	
12,580.14	89.00	149.68	11,910.54	-549.86	-1,114.71	8.00	7.90	-1.39	-10.791	
23,780,15	89.00	149.68	12,106.00	-10,216,44	4,538,53	0.00	0.00	0.00	0.000	Breckenridge S-19H

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Database: Company: Project:

Site:

DB_Dec2220_v16
Tug Hill Operating LLC Marshall County, West Virginia

Breckenridge (1 row)

Well: Wellbore: Breckenridge S-19 HU (slot R)

Original Hole rev4 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Breckenridge S-19 HU (slot R)

GL @ 1370.00ft GL @ 1370.00ft

Grid

Minimum Curvature

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AUG 1 3 2021

ned Surve									Environmental
Measured Depth (ft)	Inclination (°)	Azimuth	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0,00	0.00	0.00	0.00	0.00	14,465,147.07	1,745,231,85	39,83026864	-80,62665
100.00		0.00	100.00	0.00	0.00	14,465,147.07	1,745,231.85	39,83026864	-80.626651
200,00		0.00	200.00	0.00	0.00	14,465,147.07	1,745,231.85	39,83026864	-80,62665
300.00		0.00	300.00	0.00	0.00	14,465,147.07	1,745,231.85	39,83026864	-80,62665
400,00		0.00	400.00	0.00	0.00	14,465,147.07	1,745,231.85	39.83026864	-80.62665
500.00		0.00	500.00	0.00	0.00	14,465,147.07	1,745,231.85	39,83026864	-80,62665
500.00		0.00	600.00	0.00	0.00	14,465,147.07	1,745,231.85	39.83026864	-80,62665
700.00		0.00	700.00	0.00	0.00	14,465,147.07	1,745,231.85	39.83026864	-80,62665
800.00		0.00	800.00	0.00	0.00	14,465,147.07	1,745,231.85	39,83026864	-80.62665
900.00		0.00	900.00	0.00	0.00	14,465,147.07	1,745,231.85	39.83026864	-80.62665
1,000.00		0.00	1,000.00	0.00	0.00	14,465,147.07	1,745,231.85	39.83026864	-80.62665
1,100.00		0.00	1,100.00	0.00	0.00	14,465,147.07	1,745,231.85	39.83026864	-80,62665
1,200.00		0.00	1,200.00	0.00	0.00	14,465,147.07	1,745,231.85	39.83026864	-80,62665
1,300.00		0.00	1,300.00	0.00	0.00	14,465,147.07	1,745,231.85	39.83026864	-80.62665
1,400.00		0.00	1,400.00	0.00	0.00	14,465,147.07	1,745,231.85	39.83026864	-80,62665
1,500.00		0.00	1,500.00	0.00	0.00	14,465,147,07	1,745,231.85	39,83026864	-80,62665
1,600.00		0,00	1,600.00	0.00	0.00	14,465,147.07	1,745,231.85	39.83026864	-80,62665
1,700.00		0.00	1,700.00	0.00	0.00	14,465,147.07	1,745,231.85	39,83026864	-80,62665
1,800.00		0.00	1,800,00	0.00	0.00	14,465,147.07	1,745,231,85	39.83026864	-80,62665
1,900.00		0.00	1,900.00	0.00	0.00	14,465,147.07	1,745,231.85	39,83026864	-80,62665
2,000.00		0.00	2,000.00	0.00	0.00	14,465,147.07	1,745,231.85	39.83026864	-80.62665
2,100.00		0.00	2,100.00	0.00	0.00	14,465,147.07	1,745,231.85	39,83026864	-80,62665
2,200.00		0.00	2,200.00	0.00	0.00	14,465,147.07	1,745,231,85	39.83026864	-80.62665
2,300.00		0.00	2,300.00	0.00	0.00	14,465,147.07	1,745,231.85	39.83026864	-80,62665
2,400.00		0.00	2,400.00	0.00	0.00	14,465,147.07	1,745,231.85	39.83026864	-80.62665
2,500.00		0.00	2,500.00	0.00	0.00	14,465,147.07	1,745,231.85	39.83026864	-80.62665
2,600.00		0.00	2,600,00	0.00	0.00	14,465,147.07	1,745,231.85	39.83026864	-80.62665
2,700.00		0.00	2,700.00	0.00	0.00	14,465,147.07	1,745,231.85	39.83026864	-80.62665
2,800.00		0.00	2,800.00	0.00	0.00	14,465,147.07	1,745,231.85	39.83026864	-80.62665
2,900.00		0.00	2,900.00	0.00	0.00	14,465,147.07	1,745,231.85	39,83026864	-80.62665
3,000.00		0.00	3,000.00	0.00	0.00	14,465,147.07	1,745,231.85	39.83026864	-80,62665
3,100,00		0.00	3,100,00	0.00	0.00	14,465,147.07	1,745,231,85	39,83026864	-80,62665
3,200.00	0.00	0.00	3,200,00	0.00	0.00	14,465,147.07	1,745,231,85	39.83026864	-80.62665
3,300.00	0.00	0.00	3,300,00	0.00	0,00	14,465,147.07	1,745,231,85	39,83026864	-80,62665
3,400,00	0.00	0.00	3,400.00	0.00	0,00	14,465,147,07	1,745,231.85	39,83026864	-80.62665
3,500.00		0.00	3,500.00	0.00	0.00	14,465,147.07	1,745,231.85	39.83026864	-80,62665
KOP Be	gin 2°/100' bui	ld							
3,600.00	STATE OF THE PARTY	315.00	3,599,98	1.23	-1.23	14,465,148.31	1,745,230.61	39,83027205	-80,62665
3,650,00		315,00	3,649.93	2.78	-2.78	14,465,149,85	1,745,229.07	39,83027630	-80,62666
Begin 3	00° tangent					roco di moco	6.692.0.00		
3,700.00	A CHARLES TO A COLUMN	315.00	3,699.86	4.63	-4.63	14,465,151.70	1,745,227.22	39.83028140	-80.62666
3,800.00		315.00	3,799.73	8.33	-8.33	14,465,155,40	1,745,223,52	39,83029161	-80,62668
3,900.00		315.00	3,899.59	12.03	-12.03	14,465,159.10	1,745,219.82	39.83030181	-80.62669
4,000,00		315.00	3,999.45	15.73	-15.73	14,465,162.80	1,745,216.12	39,83031202	-80.626707
4,100.00		315.00	4,099.31	19.43	-19.43	14,465,166,50	1,745,212.42	39.83032222	-80.626720
4,200.00		315.00	4,199.18	23.13	-23.13	14,465,170.20	1,745,208.72	39,83033243	-80.626733
4,300.00		315.00	4,299.04	26.83	-26.83	14,465,173.90	1,745,205.02	39,83034263	-80.626746
4,400.00	3.00	315.00	4,398.90	30.53	-30,53	14,465,177.61	1,745,201.31	39.83035284	-80,626759
4,500.00	3,00	315.00	4,498.77	34.23	-34.23	14,465,181.31	1,745,197.61	39.83036304	-80.626772
4,600.00	3,00	315,00	4,598.63	37.93	-37.93	14,465,185.01	1,745,193.91	39.83037325	-80.62678
4,700.00	3.00	315.00	4,698.49	41.63	-41.63	14,465,188.71	1,745,190.21	39.83038345	-80.626799
4,800.00	3.00	315.00	4,798.36	45.33	-45.33	14.465,192.41	1,745,186.51	39,83039366	-80.626812
4,900.00	3.00	315.00	4,898.22	49.04	-49.04	14,465,196.11	1,745,182.81	39.83040386	-80,626825
5,000.00	3.00	315.00	4,998.08	52.74	-52.74	14,465,199.81	1,745,179.11	39.83041407	-80.626838



Database: Company: Project:

Site:

DB_Dec2220_v16
Tug Hill Operating LLC Marshall County, West Virginia

Breckenridge (1 row)

Well: Wellbore: Breckennidge S-19 HU (slot R)

Original Hole rev4 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Breckenridge S-19 HU (slot R)

GL @ 1370.00ft GL @ 1370.00ft

Grid

Minimum Curvature

RECEIVED
Office of Oil and Gas

AUG 1 3 2021

nned Survey									nvironmental Pr
Measured Depth (ft)	Inclination (°)	Azimuth	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,100.00	3.00	315,00	5,097.94	56.44	-56.44	14,465,203,51	1,745,175,41	39,83042428	-80,626851
5,150.00	3,00	315,00	5,147,88	58.29	-58.29	14,465,205.36	1,745,173.56	39,83042938	-80.626858
Begin 2°	/100' drop								
5,200.00	2.00	315.00	5,197.83	59.83	-59.83	14,465,206.90	1,745,172.02	39.83043363	-80.626863
5,300.00	0,00	315.00	5,297.81	61.06	-61.06	14,465,208.14	1,745,170.78	39.83043703	-80,626867
Begin ve	ertical hold								
5,400.00	0.00	0.00	5,397.81	61.06	-61.06	14,465,208.14	1,745,170.78	39.83043703	-80,626867
5,500.00	0.00	0.00	5,497.81	61.03	-61.06	14,465,208.14	1,745,170.78	39.83043703	-80.626867
5,600.00	0.00	0.00	5,597,81	61.03	-61.06	14,465,208.14	1,745,170.78	39.83043703	-80,626867
5,700.00	0.00	0.00	5,697,81	61.06	-61.06	14,465,208.14	1,745,170.78	39.83043703	-80,626867
5,800.00	0.00	0.00	5,797.81	61.03	-61.06	14,465,208.14	1,745 170.78	39.83043703	-80.626867
5,900.00	0.00	0.00	5,897.81	61.03	-61.06	14,465,208.14	1,745,170.78	39.83043703	-80,626867
6,000.00	0,00	0.00	5,997.81	61.03	-61,06	14,465,208.14	1,745,170.78	39,83043703	-80.626867
6,100.00	0.00	315.00	6,097.81	61.06	-61.06	14,465,208.14	1,745,170,78	39.83043703	-80,626867
6,200.00	0.00	0.00	6.197.81	61.05	-61.06	14,465,208.14	1,745,170.78	39.83043703	-80,626867
6,300.00	0.00	0,00	6,297,81	61,05	-61,06	14,465,208,14	1,745,170.78	39.83043703	-80.62686
6,400.00	0.00	0.00	6,397,81	61.03	-61,06	14,465,208.14	1,745,170.78	39,83043703	-80.626867
6,500.00	0.00	0.00	6,497,81	61.03	-61.06	14,465,208.14	1,745,170.78	39.83043703	-80.626867
6,600.00	0.00	0.00	6,597.81	61.06	-61.06	14,465,208.14	1,745,170.78	39.83043703	-80.626867
6,700.00	0.00	0.00	6,697,81	61.06	-61.06	14,465,208.14	1,745,170.78	39,83043703	-80.626867
6,800.00	0.00	0.00	6,797.81	61.06	-61.06	14,465,208.14	1,745,170.78	39.83043703	-80.626867
6,900.00	0.00	0.00	6,897,81	61.06	-61.06	14,465,208.14	1,745,170.78	39.83043703	-80.626867
7,000.00	0.00	0.00	6,997.81	61.06	-61.06	14,465,208,14	1,745,170.78	39.83043703	-80.626867
7,002.19	0.00	0.00	7,000.00	61.06	-61,06	14,465,208.14	1,745,170,78	39.83043703	-80.625867
Begin 2°	/100' build								
7,100,00	1.96	277.89	7,097.79	61.29	-62.72	14,465,208,37	1,745,169.13	39.83043768	-80.626873
7,200.00	3.96	277.89	7,197.65	62.00	-67.82	14,465,209.07	1,745,164.02	39.83043969	-80.626892
7,300.00	5.96	277,89	7,297.27	63.19	-76.38	14,465,210.26	1,745,155.46	39.83044304	-80,626922
7,400.00	7.96	277,89	7,396.53	64.85	-88.38	14,465,211.92	1,745,143.47	39.83044775	-80,626965
7,500.00	9,95	277.89	7,495.31	66,99	-103,80	14,465,214.06	1,745,128.05	39.83045379	-80,62702
7,600.00	11.96	277.89	7,593.48	69.60	-122.62	14,465,216.67	1,745,109.22	39.83046118	-80.627087
7,700.00	13.96	277.89	7,690.93	72,68	-144.83	14,465,219.75	1,745,087.02	39.83046988	-80.627166
7,800.00	15.96	277.89	7,787.53	76.22	-170.39	14,465,223,29	1,745,061.46	39,83047991	-80.627257
7,900.00	17.96	277.89	7,883.18	80.22	-199.28	14,465,227.30	1,745,032.57	39.83049124	-80.627360
8,000.00	19.96	277.89	7,977.75	84.69	-231.45	14,465,231.76	1,745,000.39	39.83050386	-80.627474
8,037.30	20,70	277.89	8,012.74	86.46	-244.29	14,465,233,54	1,744,987.56	39,83050889	-80,627520
	.70° tangent								
8,100.00	20.70	277.89	8,071.38	89.51	-266.24	14,465,236,58	1,744,965.60	39.83051750	-80.627598
8,200.00	20.70	277.89	8,164.93	94.36	-301,26	14.465,241.44	1,744,930,59	39,83053123	-80,627723
8,300,00	20,70	277.89	8,258.47	99.22	-336.28	14,465,246,29	1,744,895,57	39.83054496	-80,627847
8,400.00	20.70	277,89	8,352,01	104.07	-371.29	14,465,251.15	1,744,860.56	39,83055869	-80.627972
8,500,00	20.70	277.89	8,445.55	108.93	-406.31	14,465,256.00	1,744,825.54	39,83057243	-80,628097
8,600,00	20.70	277.89	8,539.10	113.78	-441.32	14,465,260.85	1,744,790.52	39.83058616	-80,628221
8,700,00	20.70	277.89	8,632.64	118.64	-476.34	14,465,265.71	1,744,755.51	39,83059989	-80,628346
8,800.00	20.70	277.89	8,726.18	123.49	-511,36	14,465,270,56	1,744,720.49	39.83051362	-80.628470
8,900.00	20.70	277.89	8,819.73	128.34	-546.37	14,465,275,42	1,744,685,47	39,83062735	-80,628595
9,000,00	20.70	277.89	8,913.27	133.20	-581,39	14,465,280.27	1,744,650.46	39.83064108	-80.628720
9,100.00	20.70	277,89	9,006.81	138.05	-616.41	14,465,285.13	1,744,615.44	39.83065481	-80.628844
9,200.00	20.70	277.89	9,100.36	142.91	-651,42	14,465,289.98	1,744,580.43	39.83066854	-80.628969
9,300.00	20.70	277.89	9,193.90	147.76	-686.44	14,465,294.84	1,744,545.41	39,83068227	-80,629094
9,400.00	20.70	277,89	9,287.44	152.62	-721.45 750.47	14,465,299.69	1,744,510.39	39.83069600	-80,629218
9,500.00	20.70	277.89	9,380.99 9,474.53	157.47	-756.47 -704.40	14,465,304.55	1,744,475,38	39,83070973	-80,629343
9,700.00	20.70	277.89 277.89	9,568.07	162.33 167.18	-791.49 -826.50	14,465,309.40 14,465,314.25	1,744,440.36 1,744,405.35	39.83072346 39.83073719	-80.629468 -80.629592



Database: Company: Project:

Site:

DB_Dec2220_v16
Tug Hill Operating LLC
Marshall County, West Virginia

Breckenridge (1 row)
Breckenridge S-19 HU (slot R)

Well: Wellbore: Design:

Original Hole rev4 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Breckenridge S-19 HU (slot R)

GL @ 1370.00ft GL @ 1370.00ft

Grid

Minimum Curvature

RECEIVED
Office of Oil and Gas

AUG 1 3 2021

sign:	rev4								Environmental Pro
anned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,800.00	20,70	277.89	9,661.61	172.04	-861.52	14,465,319.11	1,744,370.33	39,83075092	-80.6297174
9,900,00	20.70	277.89	9,755.16	176.89	-896.53	14,465,323,96	1,744,335.31	39,83076465	-80.6298421
10,000,00	20,70	277.89	9,848,70	181.74	-931,55	14,465,328,82	1,744,300,30	39.83077838	-80.62996686
10,100,00	20.70	277.89	9,942.24	186.60	-966.57	14,465,333,67	1,744,265.28	39.83079211	-80.6300914
10,200.00	20.70	277.89	10,035.79	191.45	-1,001.58	14,465,338.53	1,744,230.26	39,83080584	-80,6302161
10,300.00	20.70	277.89	10,129.33	196.31	-1.036.60	14,465,343,38	1,744,195.25	39,83081957	-80.6303407
10,400.00	20.70	277.89	10,222.87	201.16	-1.071.62	14,465,348.24	1,744,160.23	39.83083330	-80,6304654
10,500.00	20.70	277.89	10,316.42	206.02	-1,106.63	14,465,353.09	1,744,125.22	39.83084703	-80.6305900
10,600.00	20.70	277.89	10,409.96	210.87	-1,141.65	14,465,357.95	1,744,090.20	39.83086075	-80.6307147
10,700,00	20,70	277.89	10,503.50	215.73	-1,176,66	14,465,362.80	1,744,055.18	39.83087448	-80.6308393
10,800,00	20.70	277.89	10,597.04	220.58	-1,211.68	14,465,367.65	1,744,020.17	39.83088821	-80.6309640
10,900.00	20.70	277.89	10,690.59	225.44	-1,246.70	14,465,372.51	1,743,985.15	39.83090194	-80.6310886
11,000.00	20.70	277.89	10,784.13	230.29	-1,281.71	14,465,377.36	1,743,950.14	39.83091567	-80.6312133
11,043.25	20.70	277.89	10,824.58	232,39	-1,296.86	14,465,379.46	1,743,934.99	39.83092160	-80.6312672
The second secon	100' build/tur								
11,100.00	18.56	269.99	10,878.05	233.77	-1,315.83	14,465,380.84	1,743,916.02	39.83092560	-80.6313348
11,200.00	15.86	251.76	10,973.63	229.48	-1,344.76	14,465,376.56	1,743,887.09	39.83091416	-80.6314379
11,300.00	15.13	229.33	11,070.08	216.69	-1,367.66	14,465,363.76	1,743,864.19	39.83087928	-80,6315196
11,400.00	16.64	207.97	11,166.34	195.52	-1,384.29	14,465,342.59	1,743,847.56	39.83082134	-80.6315792
11,500.00	19.87	191.72	11,261.36	166.21	-1,394.46	14,465,313.28	1,743,837.39	39.83074097	-80.6316158
11,600.00	24.15	180,43	11.354.09	129.08	-1,398.07	14,465,276.16	1,743,833.78	39.83063905	-80.6316292
11,700.00	29.01	172,54	11 443.52	84.55	-1,395.08	14,465,231.62	1,743,836,77	39,83051671	-80,6316192
11,800.00	34.21	166.81	11,528,68	33.08	-1,385.51	14,465,160.16	1,743,846.34	39.83037527	-80.6315859
11,900.00	39.61	162,46	11,608,62	-24.74	-1,369.47	14,465,122.34	1,743,862,38	39,83021630	-80.6315296
12,000.00	45.15	159.01	11,682.47	-88.29	-1,347.14	14,465,058.79	1,743,884.71	39.83004153	-80.6314510
12,086.47	50.00	156,52	11,740.79	-147.32	-1,322.95	14,464,999.75	1,743,908.90	39.82987914	-80,6313657
	100' build/tun						A CALL TO SERVICE		
12,100.00	51.06	156,26	11,749,39	-156.89	-1,318.77	14,464,990.18	1,743,913.08	39.82985281	-80.6313510
12,200,00	58.94	154.54	11,806,70	-231.28	-1,284.64	14,464,915.79	1,743,947.21	39.82964812	-80.6312305
12,300.00	66.83	153.09	11,852,24	-311.08	-1,245,36	14,464,836.00	1,743,986,48	39,82942855	-80.6310918
12,400.00	74.74	151.80	11,885.13	-394.72	-1,201.69	14,464,752,36	1,744,030,15	39,82919836	-80,6309375
12,500.00	82,66	150.61	11,904.71	-480.57	-1,154.48	14,464,666.50	1,744,077.36	39,82896204	-80,6307706
12,580.14	89.00	149.68	11,910.54	-549.86	-1,114.71	14,464,597.22	1.744,117.14	39.82877133	-80,6306299
Married and Company of the	00° lateral								
12,600.00	89.00	149.68	11,910.88	-567.00	-1,104.69	14,464,580,08	1,744,127.16	39,82872415	-80,6305945
12,700.00	89.00	149.68	11,912.63	-653,30	-1,054.21	14,464,493.77	1,744,177.64	39.82848655	-80.6304159
12,800.00	89.00	149.68	11,914.37	-739,61	-1,003.74	14.464,407.46	1,744,228.11	39,82824896	-80.6302374
12,900,00	89,00	149,68	11,916,12	-825,92	-953.26	14,464,321.15	1,744,278.59	39.82801136	-80,6300589
13,000.00	89.00	149.68	11,917.86	-912.23	-902.79	14.464,234,85	1,744,329.06	39,82777377	-80.6298804
13,100,00	89.00	149,68	11,919.61	-998,54	-852.31	14,464,148.54	1,744,379.54	39.82753617	-80.6297019
13,200.00	89.00	149.68	11,921.35	-1,084.85	-801.83	14,464,062.23	1,744,430.01	39.82729857	-80.6295234
13,300.00	89.00	149.68	11,923.10	-1,171.16	-751.36	14,463,975.92	1,744,480.49	39.82706098	-80.6293449
13,400.00	89,00	149,68	11,924.84	-1,257.47	-700.88	14,463,889.61	1,744,530.96	39,82682338	-80.6291664
13,500.00	89.00	149.68	11,926.59	-1,343.77	-650.41	14,463,803.30	1,744,581.44	39.82658578	-80.6289879
13,700.00	89.00	149.68	11,928.33	-1,430.08	-599.93	14,463,716,99	1,744,631.91	39.82634819	-80,6288094
13,800,00	89,00	149.68 149.68	11,930.08 11,931.82	-1,516.39 -1,602.70	-549,45 -498.98	14,463,630.69	1,744,682.39 1,744,732.86	39.82611059	-80.6286309
13,800,00	89.00	149.68	11,933.57	-1,689.01	-498.98 -448.51	14,463,544.38 14,463,458.07		39,82587299	-80.6284524
14,000.00	89.00	149.68	11,935.32	-1,775,32	-398.03	14,463,436.07	1,744,783.34 1,744,833.82	39.82563539	-80.6282739 80.6280954
14,100.00	89.00	149.68	11,937.06	-1,861.63	-347.56	14,463,285.45	1,744,833,82	39,82539780 39,82516020	-80,6280954 -80,6279169
14,200.00	89,00	149.68	11,938.81	-1,947.94	-297.08	14,463,199.14	1,744,934.77	39.82492260	-80.6277384
14,300.00	89.00	149.68	11,940,55	-2.034.24	-246.61	14,463,112.83	1,744,985.24	39,82468500	-80.6275599
14,400.00	89.00	149.68	11,942.30	-2,120.55	-196.13	14,463,026,53	1,745,035.72	39,82444740	-80,6273814
14,500.00	89,00	149.68	11,944.04	-2,206,86	-145,65	14,462,940.22	1,745,086.19	39,82420980	-80.62720296



Database: Company: Project: DB_Dec2220_v16 Tug Hill Operating LLC Marshall County, West Virginia

Breckenridge (1 row)

Well: Wellbore: Breckenridge S-19 HU (slot R) Original Hole

Design:

Site:

rev4

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Breckenridge S-19 HU (slot R)

GL@ 1370.00ft

GL @ 1370.00ft Grid

Minimum Curvature

Office of Oil and Gas

AUG 1 3 2021

ned Survey	t								Environmental F
Measured			Vertical			Мар	Мар		
Depth (ft)	Inclination (°)	Azimuth (°)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
14,600.00	89.00	149.68	11,945.79	-2,293,17	-95.18	14,462,853,91	1,745,136.67	39,82397220	-80.62702
14,700,00	89.00	149.68	11,947.53	-2,379.48	-44.70	14,462,767.60	1.745,187.14	39.82373460	-80,626845
14,800.00	89.00	149.68	11,949.28	-2,465.79	5.77	14,462,681.29	1,745,237.62	39,82349700	-80,626667
14,900.00	89.00	149.68	11,951.02	-2,552.10	56,25	14,462,594,98	1.745,288.09	39.82325940	-80.626489
15,000.00	89.00	149.68	11,952,77	-2,638,41	106.72	14,462,508,67	1,745,338.57	39.82302180	-80,626310
15,100.00	89.00	149.68	11,954.51	-2,724,71	157,20	14,462,422,37	1,745,389.04	39,82278420	-80,62613
15,200.00	89.00	149.88	11,956.26	-2,811.02	207.67	14,462,336.06	1,745,439.52	39.82254660	-80,62595
15,300.00	89.00	149.68	11,958.00	-2,897.33	258.15	14,462,249.75	1,745,489.99	39,82230899	-80.62577
15,400.00	89.00	149.58	11,959.75	-2,983,64	308.62	14,462,163.44	1,745,540,47	39.82207139	-80.62559
15,500.00	89.00	149.68	11,961.49	-3,069.95	359.10	14,462,077.13	1,745,590.94	39,82183379	-80.62541
15,600.00	89.00	149.58	11,963.24	-3,156.26	409.57	14,461,990.82	1,745,641.42	39.82159619	-80.62523
15,700.00	89.00	149.68	11,984.98	-3,242,57	460.05	14,461,904.51	1,745,691.89	39.82135858	-80.62506
15,800,00	89.00	149.68	11,956.73	-3,328.87	510.52	14,461,818,21	1,745,742.37	39.82112098	-80.62488
15,900.00	89.00	149.88	11,968.47	-3,415.18	561.00	14,461,731.90	1,745,792.85	39.82088338	-80.62470
16,000,00	89.00	149.68	11,970.22	-3,501.49	611.48	14,461,645.59	1,745,843.32	39,82064577	-80,62452
					661.95			39,82040817	-80.62434
16,100,00	89.00	149.68	11,971.96	-3,587.80		14,461,559.28	1,745,893,80		-80.62416
16,200.00	89.00	149.68	11,973.71	-3,674.11	712.43	14,461,472.97	1,745,944.27	39.82017057	
16,300.00	89.00	149.68	11,975.46	-3,760.42	762,90	14,461,386.66	1,745,994.75	39,81993296	-80.62399
18,400.00	89,00	149,68	11,977.20	-3,846,73	813,38	14,461,300,35	1,746,045.22	39.81969536	-80.62381
16,500.00	89,00	149.68	11,978.95	-3,933,04	863,85	14,461,214.05	1,746,095.70	39,81945775	-80.62363
16,600.00	89.00	149.68	11,980.69	-4,019.34	914.33	14,461,127.74	1,746,146.17	39.81922015	-80.62345
16,700.00	89.00	149.68	11,982,44	-4,105.65	964.80	14,461,041.43	1,746,196.65	39.81898254	-80.62327
15,800.00	89.00	149.68	11,984.18	-4,191.96	1,015.28	14,460,955.12	1,746,247.12	39.81874493	-80.62309
16,900.00		149.68	11,985.93	-4,278.27	1,065.75	14,460,868.81	1,746,297.60	39.81850733	-80.62291
17,000.00	89.00	149.68	11,987.67	-4.364.58	1,116.23	14,460,782.50	1,746,348.07	39,81826972	-80.62274
17,100.00	89.00	149.68	11,989.42	-4,450.89	1,166.70	14,460,696.20	1,746,398,55	39.81803211	-80.62256
17,200.00	89.00	149.68	11,991.16	-4,537.20	1,217.18	14,460,609.89	1,746,449.02	39.81779451	-80.62238
17,300.00	89,00	149.68	11,992.91	-4,823.51	1,267.65	14,460,523.58	1,746,499.50	39.81755890	-80.62220
17,400.00	89.00	149.68	11,994.65	-4,709.81	1,318.13	14,460,437.27	1,746,549.97	39.81731929	-80.62202
17,500.00	89.00	149.68	11,996.40	-4,796.12	1,368.61	14,460,350.96	1,746,600.45	39.81708168	-80,62184
17,600.00	89.00	149.68	11,998,14	-4,882,43	1,419.08	14,460,264.65	1,746,650.92	39.81684408	-80.62167
17,700.00	89,00	149.68	11,999,89	-4,968.74	1,469.56	14,460,178.34	1,746,701.40	39.81660647	-80.62149
17,800.00	89.00	149.68	12,001.63	-5,055.05	1,520.03	14,460,092.04	1,748,751.87	39.81636886	-80.62131
17,900.00	89.00	149.68	12,003,38	-5,141.36	1,570,51	14,460,005.73	1,746,802.35	39.81613125	-80,62113
18,000.00	89.00	149.68	12,005.12	-5,227.67	1,620,98	14,459,919.42	1,746,852,83	39.81589364	-80,62095
18,100.00	89.00	149.68	12,006,87	-5,313.98	1,671.46	14,459,833.11	1,746,903.30	39.81565603	-80.62077
18,200,00	89.00	149,68	12,008,61	-5,400.28	1,721.93	14,459,745.80	1,746,953.78	39.81541842	-80,62059
18,300.00	89.00	149.68	12,010.36	-5,486.59	1,772.41	14,459,660.49	1,747,004.25	39.81518081	-80,62042
18,400.00	89.00	149.68	12,012.11	-5,572.90	1,822.88	14,459,574.18	1,747,054.73	39.81494320	-80.62024
18,500.00	89.00	149.68	12,013.85	-5,659.21	1,873.36	14,459,487.88	1,747,105.20	39.81470559	-80,62006
18,600.00	89.00	149,68	12,015.60	-5,745.52	1,923.83	14,459,401.57	1,747,155.68	39.81446798	-80,61988
18,700.00	89.00	149.68	12,017.34	-5,831.83	1,974.31	14,459,315.26	1,747,206.15	39.81423037	-80.61970
18,800.00	89.00	149.68	12,019.09	-5,918.14	2,024.79	14,459,228.95	1,747,256,63	39.81399276	-80,61952
18,900.00	89.00	149.68	12,020.83	-6,004.44	2,075.26	14,459,142.64	1,747,307.10	39.81375514	-80,61935
19,000.00	89.00	149.68	12,022.58	-6,090.75	2,125.74	14,459,056.33	1,747,357.58	39.81351753	-80.61917
19,100.00	89.00	149.68	12,024,32	-6,177,06	2,176.21	14,458,970.02	1,747,408.05	39.81327992	-80.61899
19,200.00	89.00	149.68	12,026.07	-6,263.37	2,226.69	14,458,883,72	1,747,458.53	39.81304231	-80.61881
19,300,00	89,00	149.68	12,027.81	-6,349.68	2,277.16	14,458,797.41	1,747,509.00	39.81280469	-80,61863
19,400.00	89.00	149.68	12,029.56	-6,435,99	2,327.64	14,458,711.10	1,747,559.48	39,81256708	-80.61845
19,500.00	89,00	149.68	12,031.30	-6,522,30	2,378.11	14,458,624.79	1,747,609.95	39.81232947	-80,61827
19,600.00	89.00	149.68	12,033.05	-6,608,61	2,428.59	14,458,538.48	1,747,660.43	39,81209185	-80.61810
19,700.00	89,00	149.68	12,034.79	-6,694.91	2,479.06	14,458,452,17	1,747,710.90	39,81185424	-80,61792
19,800.00	89.00	149.68	12,036.54	-6,781.22	2,529.54	14,458,365,86	1,747,761,38	39,81161662	-80,61774
19,900.00	89.00	149.68	12,038.28	-6,857.53	2,580.01	14,458,279.56	1,747,761,36	39.81137901	-80.61758
20,000.00	89.00	149.68	12,040.03	-6,953.84	2,630.49	14,458,193,25	1,747,862.33	39.81114139	-80.617387



Database: Company: Project: DB_Dec2220_v16 Tug Hill Operating LLC Marshall County, West Virginia

Breckenridge (1 row)

Well:

Site:

Breckenridge S-19 HU (slot R) Original Hole

Wellbore:

revid

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Breckenridge S-19 HU (slot R)

GL @ 1370.00ft GL @ 1370.00ft

Grid

Minimum Curvature

anned Survey									
Measured Depth (ft)	Inclination	Azimuth	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
20,100.00	89.00	149.68	12.041.77	-7,040.15	2,680,96	14,458,106,94	1,747,912,81	39,81090378	-80.617209
20,200.00	89.00	149.68	12 043.52	-7,126,46	2,731.44	14,458,020.63	1,747,963.28	39,81066616	-80.617030
20,300.00	89.00	149.68	12,045.26	-7,212.77	2,781,92	14,457,934.32	1,748,013.76	39.81042855	-80.616852
20,400.00	89.00	149.68	12.047.01	-7,299.08	2,832.39	14,457,848.01	1,748,064.23	39.81019093	-80,616674
20,500.00	89.00	149.68	12,048.75	-7,385.38	2,882.87	14,457,761.70	1,748,114.71	39,80995332	-80.616495
20,600.00	89.00	149.68	12.050,50	-7,471.69	2,933.34	14,457,675.40	1,748,165.18	39.80971570	-80,616313
20,700.00	89.00	149.68	12.052.25	-7,558.00	2,983.82	14,457,589.09	1,748,215.66	39.80947808	-80,616138
20,800.00	89.00	149.68	12.053.99	-7,644.31	3,034.29	14,457,502.78	1,748,266,13	39.80924047	-80.615960
20,900.00	89.00	149.68	12.055.74	-7,730.62	3,084.77	14,457,418.47	1,748,316.61	39.80900285	-80.61578
21,000.00	89.00	149.68	12.057.48	-7,816.93	3,135.24	14,457,330.16	1,748,367.08	39.80876523	-80.61560
	89.00	149.68	12.059.23	-7,903.24	3,185.72	14,457,243.85	1,748,417.56	39.80852761	-80.61542
21,100.00	89.00	149.68	12,060.97	-7,989.55	3,236.19	14,457,157.54	1,748,468.03	39.80828999	-80.61524
21,200.00		149.68	200 A C C C C C C C C C C C C C C C C C C		19,000		1,748,518.51	39.80805238	-80.61506
21,300.00	89.00		12,062.72	-8,075.85	3,286.67	14,457,071.24		39.80781476	-80.61488
21,400.00	89.00	149.68	12,064,46	-8,162.16	3,337.14	14,456,984.93	1,748,568.98		-80.61471
21,500.00	89.00	149.68	12,066.21	-8,248,47	3,387.62	14,456,898.62	1,748,619.46	39.80757714	-80,61453
21,600.00	89.00	149.68	12,067,95	-8,334.7B	3,438.10	14,456,812.31	1,748,669,93	39.80733952	
21,700.00	89.00	149.68	12,069.70	-8,421.09	3,488.57	14,456,726.00	1,748,720.41	39,80710190	-80.61435
21,800.00	89.00	149.68	12,071.44	-8,507.40	3,539.05	14,456,639,69	1,748,770,88	39.80686428	-80.61417
21,900.00	89.00	149.68	12,073.19	-8,593.71	3,589.52	14,456,553.39	1,748,821.36	39.80662666	-80.61399
22,000.00	89.00	149.68	12.074.93	-8,680.01	3,640.00	14,456,467.08	1,748,871.84	39,80638904	-80.61381
22,100.00	89.00	149.68	12,076.68	-8,766.32	3,690.47	14,456,380.77	1,748,922.31	39.80615142	-80,61364
22,200.00	89.00	149.68	12,078.42	-8,852.63	3,740,95	14,456,294.46	1,748,972.79	39,80591380	-80.61346
22,300.00	89.00	149.68	12,080.17	-8,938.94	3,791.42	14,456,208.15	1,749,023.26	39.80567618	-80.61328
22,400.00	89.00	149.68	12,081.91	-9,025.25	3,841,90	14,456,121.84	1,749,073.74	39.80543855	-80,61310
22,500.00	89.00	149.68	12,083.66	-9,111.56	3,892.37	14,456,035.53	1,749,124.21	39.80520093	-80.61292
22,600.00	89.00	149.68	12,085.40	-9,197.87	3,942.85	14,455,949.23	1,749,174.69	39.80496331	-80.61274
22,700.00	89.00	149.68	12,087.15	-9,284.18	3,993.32	14,455,862.92	1,749,225.16	39.80472569	-80.61257
22,800.00	89.00	149.68	12,088.89	-9,370.48	4,043.80	14,455,776.61	1,749,275.64	39.80448806	-80.61239
22,900.00	89.00	149.68	12,090.64	-9,456.79	4,094.27	14,455,690.30	1,749,326.11	39.80425044	-80.61221
23,000.00	89.00	149.68	12,092,39	-9,543.10	4,144.75	14,455,603.99	1,749,376.59	39.80401282	-80.61203
23,100.00	89.00	149.68	12,094,13	-9,629,41	4,195,23	14,455,517.68	1,749,427.06	39,80377519	-80,61185
23,200.00	89.00	149.68	12,095.88	-9,715,72	4,245.70	14,455,431.37	1,749,477.54	39,80353757	-80.61167
23,300.00	89.00	149.68	12,097.62	-9,802.03	4,295.18	14,455,345.07	1,749,528.01	39.80329995	-80.61150
23,400.00	89.00	149,68	12,099.37	-9,888.34	4,346.65	14,455,258.76	1,749,578.49	39.80306232	-80,61132
23,500.00	89.00	149.68	12,101.11	-9,974.65	4,397.13	14,455,172.45	1,749,628.96	39.80282470	-80.61114
23,600,00	89,00	149.68	12,102.86	-10,060.95	4,447.60	14,455,086.14	1,749,679.44	39,80258707	-80,61096
23,700.00	89.00	149.68	12,104.60	-10,147.26	4,498.08	14,454,999,83	1,749,729,91	39.80234945	-80.61078
23,780,15	89.00	149.68	12,106.00	-10,216.44	4,538,53	14,454,930.66	1,749,770.37	39.80215900	-80,61064

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Database: Company: Project:

Site:

DB_Dec2220_v16
Tug Hill Operating LLC Marshall County, West Virginia

Breckenridge (1 row)

Well: Wellbore: Breckenridge S-19 HU (slot R)

Original Hole rev4 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Breckenridge S-19 HU (slot R)

GL@ 1370.00ft GL @ 1370.00ft

Grid

Minimum Curvature

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle	Dip Dir.	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Breckenridge S-19HU LF - plan misses target - Point	0.00 center by 150.			-106.18 1784.27 TVD,	-1,293.49 ,-199.64 N, -1	14,465,040.89 1299.48 E)	1,743,938.35	39.82999178	-80.63126024
Breckenridge S-19HU LF - plan misses target - Point	0,00 center by 155.			-106,18 1774.46 TVD,	-1,343.50 ,-186,92 N, -1	14,465,040.89 1305,32 E)	1,743,888.35	39,82999235	-80,63143834
Breckenridge S-19HU Bi - plan hits target cen - Point	0.00 ter	0.00	12,106.00	-10,216.44	4,538.53	14,454,930.66	1,749,770.37	39.80215900	-80.61064400

Casing Points						
	Measured	Vertical			Casing	Hole
	Depth	Depth			Diameter	Diameter
	(ft)	(ft)		Name	(")	(")
	23,675.48	12,104.17	20" Casing		20	24

Measured	Vertical	Local Coor	dinates	
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
3,500.00	3,500.00	0.00	0.00	KOP Begin 2°/100' build
3,650.00	3,649.93	2.78	-2.78	Begin 3.00° tangent
5,150.00	5,147.88	58.29	-58.29	Begin 2°/100' drop
5,300.00	5,297.81	61.06	-61.08	Begin vertical hold
7,002.19	7,000.00	61.06	-61.06	Begin 2°/100' build
8,037.30	8.012.74	86.46	-244.29	Begin 20.70° tangent
11,043,25	10,824.58	232,39	-1,296.86	Begin 6°/100' build/turn
12,086.47	11,740,79	-147.32	-1,322.95	Begin 8°/100' build/turn
12,580.14	11,910,54	-549.86	-1,114.71	Begin 89.00° lateral
23,780.15	12,106.00	-10,216.44	4,538.53	PBHL/TD 23780.15 MD 12106.00 TVD

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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. Enverus and RS Energy Group 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 Adam Picard 724-485-9331, <u>apicard@dpslandservices.com</u>, DPS GIS (04/7/2021) to have him make maps of the wellbores with his information. DPS utilizes WVGES maps for their mapping seems it is 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



Wells within 500' Buffer

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

API Number Operator Name		Total Depth	Perforated Fms	Producing zones not perforated	Is this well "known or reasonably expected to penetrate a depth that could be within the range of Fracture propagation"? 1000' is max limit I would assign to wells that might be within in range of fracture propagation	Comments
4705101082	Consolidation Coal Co.	unknown	unknown	unknown	Unknown but unlikely. The well likely represents an old shallow well that is too shallow to be affected by fracturing in the planned Point Pleasant well. Well is plugged.	Well was plugged 7/3/2008.
4705170164	Hope Natural Gas Company	2374' TVD	Big Injun	unknown	No, the well is not deep enough to be within the expected fracture propagation from a Point Pleasant stimulation.	
4705102346	Tug Hill Operating, LLC	7115' TVD (proposed)	none	none	No, this is a proposed well in the Marcellus. Once completed the well will not be deep enough to be within the expected fracture propagation from a Point Pleasant stimulation.	A permitted well on the pad that is not drilled or perforated.
4705100750	Consolidation Coal Co.	2965' TVD	Gordon Gordon Stray	unknown	No, the well is not deep enough to be within the expected fracture propagation from a Point Pleasant stimulation. Well is plugged.	Well was plugged 8/29/2008.

API Number	Operator Name	Total Depth	Perforated Fms	Producing zones not perforated	Is this well "known or reasonably expected to penetrate a depth that could be within the range of Fracture propagation"? 1000' is max limit I would assign to wells that might be within in range of fracture propagation	Comments
4705100904	Consolidation Coal Co.	unknown	unknown	unknown	Unknown but unlikely. The well likely represents an old shallow well that is too shallow to be affected by fracturing in the planned Point Pleasant well. Well is plugged.	Well was plugged 4/21/2003.
4705170464	unknown	unknown	unknown	unknown	Unknown but unlikely. The well likely represents an old shallow well that is too shallow to be affected by fracturing in the planned Point Pleasant well.	State records are incomplete.
4705101067	Consolidation Coal Co.	unknown	unknown	unknown	Unknown but unlikely. The well likely represents an old shallow well that is too shallow to be affected by fracturing in the planned Point Pleasant well. Well is plugged.	Well was plugged 5/16/2008.
4705130267	Randall-Zogg Supply Com.	3044' TVD	Gordon	unknown	No, the well is not deep enough to be within the expected fracture propagation from a Point Pleasant stimulation. Well is plugged.	Well was plugged in 1947.
4705101065	Consolidation Coal Co.	unknown	unknown	unknown	Unknown but unlikely. The well likely represents an old shallow well that is too shallow to be affected by fracturing in the planned Point Pleasant well. Well is plugged.	Well was plugged 1/3/2008.
	AUG 1 3 2021 W/ Department of Environmental Protection	RECEIVED Gas	1			Page 3 of

WV Geological & Economic Survey.

Well: County = 51 Permit = 01082

Report Time: Tuesday, April 13, 2021 10:03:30 AM

Location Information: View Map

COUNTY PERMIT TAX DISTRICT QUAD 75 QUAD 15 LAT DD LON DD UTME Glen Easton Cameron 39.829496 -80.627436 531880.9 4408899.7 4705101082 Marshall 1082 Cameron

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT_SUFFIX_STATUS_SURFACE_OWNER_WELL_NUM_CO_NUM_LEASE_LEASE_NUM_MINERAL_OWN_OPERATOR_AT_COMPLETION_PROP_VD_PROP_TRGT_FM_TFM_EST_PR 4705101082 7/3/2008 Plugging Completed J Richard Wayt M-1334 Consolidation Coal Co.

Completion Information:

CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_/ API CMP_DT SPUD_DT ELEV DATUM 4705101082 7/3/2008 6/18/2008 1262 Ground Level FIELD DEEPEST FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE unclassified unclassified not available unknown unknown

There is no Pay data for this well

There is no Production Gas data for this well

There is no Production Oil data for this well ** some operators may have reported NGL under Oil

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

SUFFIX FM FM_QUALITY_DEPTH_TOP_DEPTH_QUALITY_THICKNESS_THICKNESS_QUALITY_ELEV_DATUM 4705101062 Plugging Pittsburgh coal Well Record 1262 Ground Level 946 Reasonable 5 Reasonable

There is no Wireline (E-Log) data for this well

Plugging Information:

PLG DT DEPTH PBT 4705101082 7/3/2008

There is no Sample data for this well

WV Department of Environmental Protection RECEIVED
Office of Oil and Gas AUG 1 3 2021

WV Geological & Economic Survey:

Well: County = 51 Permit = 70164

Report Time: Tuesday, April 13, 2021 10:04:50 AM

Location Information: View Map

API COUNTY PERMIT TAX_DISTRICT QUAD_75 QUAD_15 LAT_DD LON_DD UTME UTMN 4705170164 Marshall 70164 Liberty Glen Easton Cameron 39.829496 -80.626308 531977.5 4408900.1

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP DT	SUFFIX	STATUS	SURFACE_OWNER	WELL NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL	OWN	OPERATOR	AT_COMPLETION	PROP_VD	PROP	_TRGT_FM	TFM_ES	ST_P
4705170164	-1-1-	Original Loc	Completed	Elijah Williams	1	547					Hope Natural	Gas Company					

Completion Information:

API	CMP_DT	SPUD DT	ELEV DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD NEW_FTG	KOD G_BE	F G_A
4705170164	4 -/-/-	-1-1-	1420 Barometer		Big Injun (undiff)	Big Injun (undiff)	unclassified	unclassified	not available	unknown	unknown	2374	2374		

There is no Pay data for this well

There is no Production Gas data for this well

There is no Production Oil data for this well *** some operators may have reported NGL under Oil

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

There is no Stratigraphy data for this well

There is no Wireline (E-Log) data for this well

There is no Plugging data for this well

There is no Sample data for this well



WV Geological & Economic Survey:

Well: County = 51 Permit = 02346

Report Time: Tuesday, April 13, 2021 10:05:07 AM

Location Information: View Map

API COUNTY PERMIT TAX_DISTRICT QUAD_75 QUAD_15 LAT_DD LON_DD UTME UTMN 4705102346 Marshall 2346 Cameron Glen Easton Cameron 39.830284 -80.626735 531940.6 4408987.3

Bottom Hole Location Information:

API EP FLAG UTME UTMN LON_DD LAT_DD 4705102346 1 As Proposed 532233.1 4408596.4 -80.623336 39.826751

Owner Information:

API CMP_DT_SUFFIX STATUS_SURFACE_OWNER_WELL_NUM_CO_NUM_LEASE__LEASE_NUM_MINERAL_OWN_OPERATOR_AT_COMPLETION_PROP_VD_PROP_TRGT_FM_1
4705102346 -I-I-- Divid Wirkd Ovr_Permitted_CNX_Land_LLC S-10HM Breckenridge Hasans Ventures et al. Tug_Hill Operating_LLC 7115_Marcellus Fm

Completion Information:

API CMP_DT_SPUD_DT_ELEV_DATUM FIELD_DEEPEST_FM_DEEPEST_FMT_INITIAL_CLASS_FINAL_CLASS_TYPE_RIG_CMP_MTHD_TVD_TMD_NEW_FTG_KOD_G_BEF_G_AFT_O_BEI 4705102346 -1-1- 1380_Ground Level

There is no Pay data for this well

There is no Production Gas data for this well

There is no Production Oil data for this well *** some operators may have reported NGL under Oil

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

There is no Stratigraphy data for this well

There is no Wireline (E-Log) data for this well

There is no Plugging data for this well

There is no Sample data for this well



WV Geological & Economic Survey

Well: County = 51 Permit = 00750

Report Time: Tuesday, April 13, 2021 4 06:04 PM

Well Reassignment Information Reassigned From OLD_COUNTY OLD_PERMIT NEW_COUNTY NEW_PERMIT 70042

70042

Location Information: View Map.

API COUNTY PERMIT TAX_DISTRICT QUAD_75
4705100750 Marshall 750 Meade Glen Easto

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM CO.	NUM LEASE	LEASE_NUM MINERAL_OWN	OPERATOR_AT_COMPLETION PROP_VD P
4705100750	8/29/2009	Plugging	Completed	Charles D & Sonya Strope	M-1	07		Consolidation Coal Co.
4705100750	-1-1-	Original Loc	Completed	Cox & Kerns	1			Cameron Heat & Light
4705100750	alala.	Worked Over	Permitted	O E Burge/ Luster Kerns	1	Cox & Kerns	 O E Burge/ Luster Kerns/ O Scroggins 	Cameron Gas Co.

Completion Information

API	CMP DT	SPUD DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG
4705100750	8/29/2009	8/13/2008	1087	Ground Level								unknovm			4.74
4705100750	-1-1-	44-	1170	Topo Estimation	Cameron-Garner	Hampshire Grp	Gordon	Development Weil	Development Well	Gas w/ Oil Show	Cable Tool	Nat/Open H	2965		2965
4705100750	Jd-	14-	1170	Topo Estimation	C C C C C C C C C C C C C C C C C C C	A A CONTRACTOR	Gordon Stray	unclassified	unclassified	Gas	unknown	unknown	2965		

Pau/Show/Water Information

API	CMP DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT			G_AFT	O_BEF	O_AFT	WATER ONTY
4705100750	14-	Show	Oil	Vertical	4-0.23		2000	Big Injun (Price&eq)	0	0			
4705100750	-1-1-	Pay	Gas	Vertical	2754	Gordon Stray	2760	Gordon Stray	0	0			

Production Gas Information: (Volumes in Mcf)

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4705100750	Cameron Oil and Gas Co.	1993	0	- 0	0	0	0	0	0	ū	0	0	0	0	0
4705100750	Cameron Gas Co.	1994													
4705100750	Cameron Gas Co.	1995													
4705100750	Coleman, C. R.	1996													
4705100750	Mountaineer Gas Services, Inc.	1997	0	0	0	0	0	0	0	0	0	0	D	. 0	0
4705100750	Mountaineer Gas Services, Inc.	1999	2,356	0	0	0	0	0	0	0	0	0	0	2,356	
4705100750	Mountaineer Gas Services, Inc.	2001	0	0	0	0	- 0	0	0	0	0	0	0	0	
4705100750	Mountaineer Gas Services, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	
4705100750	Mountaineer Gas Services, Inc.	2003	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100750	Mountaineer Gas Services, Inc.	2004	0	0	0	0	0	0	0	0	0	0	0	0	. 0
4705100750	Leatherwood, Inc.	2006	0	0	0	0	0	0	0	0	. 0	0	0	0	
4705100750	Consolidation Coal Co.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil

API	PRODUCING OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4705100750	Cameron Oil and Gas Co.	1993	0	0	0	0	0	0	0	0	0	0	D	0	0
4705100750	Cameron Gas Co.	1994													
4705100750	Cameron Gas Co.	1995													
4705100750	Coleman, C. R.	1996													
4705100750	Mountaineer Gas Services, Inc.		0	0	0	0	0	. 0	0	0	0	0	U	0	0
4705100750	Mountaineer Gas Services, Inc.		0	D	0	0	D	0	0	0	0	0	D	0	0
4705100750	Mountaineer Gas Services, Inc.	2001	C	0	0	0	0	0	0	0	0	0	0	0	0
4705100750	Mountaineer Gas Services, Inc.	2002	0	0	0	0	. 0	0	0	0	0	0	0	0	0
4705100750	Mountaineer Gas Services, Inc.		0	0	0	0	0	0	0	0	0	0	U	U	0
4705100750	Mountaineer Gas Services Inc.	2004	0	0	0	0	0	0	0	.0	0	0	0	0	0
4705100750	Leatherwood, Inc.	2006	0	0	0	0	0	0	0	0	.0	0	0	0	0
4705100750	Consolidation Coal Co.	2007	0	0	0	0	0	0	0	- 0	- 0	0	- 0	- 0	0

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4705100750	Plugging	Pittsburgh coal	Well Record	776	Reasonable	В	Reasonable	1170	Ground Level

There is no Wireline (E-Log) data for this well

Plugging Information

API PLG_DT DEPTH_PBT 4705100750 8/29/2008 0

There is no Sample data for this well

RECEIVED Office of Oil and Gas AUG 1 3 2021 WV Department of Environmental Protection WV Geological & Economic Survey:

Well: County = 51 Permit = 00904

Report Time: Tuesday, April 13, 2021 4:06:45 PM

Well Reassignment Information: Reassigned From OLD_COUNTY OLD_PERMIT_NEW_COUNTY NEW_PERMIT_51 70464 51 904

Location Information: View Map

COUNTY PERMIT TAX DISTRICT QUAD 75 QUAD 15 LAT_DD LON_DD UTME UTMN

Marshall 904 Liberty Cameron Cameron 39.803106 -80.613403 533094.4 4405975.8 4705100904 Marshall 904

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUN	CO_NUM	LEASE	LEASE_	NUM	MINERAL	OWN	OPERATOR_AT_COMPLETION PROP_VD PROP_TRG	T_FM TFM_E
				Jean Jamison		M-371						Consolidation Coal Co.	
4705100904	-1-1-	Original Loc	Prpty Map	Alfred Caldwell								unknown	

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST	FM	DEEPEST	FMT	INITIAL_CL	ASS I	FINAL_CLAS	S TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_
4705100904	4/21/2003	3/24/2003	1302	Ground Level			100			unclassified	1	unclassified	not available	unknown	unknown						
4705100904	-1-1-	-1-1-	1302	Ground Level						unclassified	- 9	unclassified	not available	unknown	unknown						

There is no Pay data for this well

There is no Production Gas data for this well

There is no Production Oil data for this well ** some operators may have reported NGL under Oil

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

There is no Stratigraphy data for this well

There is no Wireline (E-Log) data for this well

Plugging Information:

API PLG_DT DEPTH_PBT 4705100904 4/21/2003 0



WV Geological & Economic Survey:

Well: County = 51 Permit = 70464

Report Time: Tuesday, April 13, 2021 4:07:00 PM

Well Reassignment Information: Reassigned To

OLD_COUNTY OLD_PERMIT NEW_COUNTY NEW_PERMIT 51 70464 51 904

Location Information: View Map

API COUNTY PERMIT TAX DISTRICT QUAD 75 QUAD 15 LAT DD LON DD UTME UTMN 4705170464 Marshall 70464 Liberty Cameron Cameron 39.802526 -80.612463 533175.2 4405911.8

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_PR 4705170464 -I-I- unknown Reassign

Completion Information:

API CMP_DT SPUD_DT ELEV DATUM FIELD DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G_BEF G_AFT O_BEF O_. 4705170464 -1-1- -1-1-

There is no Pay data for this well

There is no Production Gas data for this well

There is no Production Oil data for this well ** some operators may have reported NGL under Oil

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

There is no Stratigraphy data for this well

There is no Wireline (E-Log) data for this well

There is no Plugging data for this well

There is no Sample data for this well



Report Time: Tuesday, April 13, 2021 4:07:11 PM

WV Geological & Economic Survey:

Well: County = 51 Permit = 01067

Location Information: View Map

API COUNTY PERMIT TAX_DISTRICT QUAD_75 QUAD_15 LAT_DD LON_DD UTME UTMN 4705101067 Marshall 1067 Liberty Cameron Cameron 39.803251 -80.610959 533303.5 4405992.8

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_PR
4705101067 5/16/2008 Plugging Completed Jean Jamison M-388 Consolidation Coal Co.

Completion Information:

API CMP_DT_SPUD_DT_ELEV_DATUM FIELD_DEEPEST_FM_DEEPEST_FMT_INITIAL_CLASS_FINAL_CLASS_TYPE RIG CMP_MTHD_TVD_TMD_NEW_FTG_KOD_G_BEF_G_ 4705101067_5/16/2008_4/11/2008_1275_Ground_Level unclassified unclassified not available unknown_unknown

Comment: 5/16/2008 River Operations

There is no Pay data for this well

There is no Production Gas data for this well

There is no Production Oil data for this well ** some operators may have reported NGL under Oil

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API SUFFIX FM FM_QUALITY DEPTH_TOP DEPTH_QUALITY THICKNESS THICKNESS QUALITY ELEV DATUM
4705101067 Plugging Pittsburgh coal Well Record 1029 Reasonable 6 Reasonable 1275 Ground Level

There is no Wireline (E-Log) data for this well

Plugging Information:

API PLG_DT DEPTH_PBT 4705101067 5/16/2008 0

There is no Sample data for this well



WV Geological & Economic Survey:

Well: County = 51 Permit = 30267

Report Time: Tuesday April 13, 2021 4.07 23 PM

Location Information: View Map

API COUNTY PERMIT TAX_DISTRICT QUAD_75 QUAD_15 LAT_DD LON_DD UTME UTMN 4705130267 Marshall 30267 Liberty Cameron Cameron 39.802671 -80.610395 533352 1 4405928 6

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_ES
4705130267	12/13/1905	Worked Over	unknown							unknown
4705130267	3/17/1913	Worked Over	unknown							unknown
4705130267	4-1-	Original Loc	Completed	A H Dobbs	2		V P Gorby		J W Gorby	Randall-Zogg Supply Co.

Completion Information:

API	CMP DT	SPUD DT	ELEV	DATUM	FIELD	DEEPEST FM	DEEPEST	FMT	INITIAL CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD NEW_FTG KOD G
4705130267	12/13/1905	-1-1-	1281	Ground Level	Cameron-Garner	Gordon	Gordon	71	Development Well	Development Well	Oil	Cable Tool	Shot	3044	0
4705130267	3/17/1913	-1-1-	1281	Ground Level	Cameron-Garner	Gordon	Gordon		Development Well	Development Well	Oil	Cable Tool	Shot	3044	0
4705130267	-1-1-	-1-1-	1282	Ground Level	Cameron-Garner	Gordon	Gordon		Development Well	Development Well	Oil	Cable Tool	Shot	3044	3044

Pay/Show/Water Information:

API CMP_DT_ACTIVITY_PRODUCT_SECTION_DEPTH_TOP_FM_TOP_DEPTH_BOT_FM_BOT_G_BEF_G_AFT_O_BEF_O_AFT_WATER_QNTY 4705130267 4-4- Pay Oil Vertical 3018 Gordon 0 0

There is no Production Gas data for this well

There is no Production Oil data for this well ** some operators may have reported NGL under Oil

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratioraphy Information:

API	SUFFIX	FM	FM QUALITY	DEPTH TOP	DEPTH QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4705130267	Original Loc	unidentified coal	Well Record		Reasonable		Reasonable		Ground Level
4705130267	Original Loc	Sewickley coal	Well Record	920	Reasonable	2	Reasonable	1282	Ground Level
4705130267	Original Loc	Pittsburgh coal	Well Record	1010	Reasonable	6	Reasonable	1282	Ground Level
4705130267	Original Loc	Bufflo Ss/1st Cow Rn	Well Record	1232	Reasonable	30	Reasonable	1282	Ground Level
4705130267	Original Loc	Mahonig Ss/Big Dunk	Well Record	1402	Reasonable	20	Reasonable	1282	Ground Level
4705130267	Original Loc	Salf Sands (undiff)	Well Record	1900	Reasonable	54	Reasonable	1282	Ground Level
4705130267	Original Loc	Big Lime	Well Record	2060	Reasonable	35	Reasonable	1282	Ground Level
4705130267	Original Loc	Big Injun (undiff)	Well Record	2095	Reasonable	240	Reasonable	1282	Ground Level
4705130267	Original Loc	Gordon Stray	Well Record	2971	Reasonable	10	Reasonable	1282	Ground Level
4705130267	Original Loc	Gordon	Well Record	3011	Reasonable	23	Reasonable	1282	Ground Level

There is no Wireline (E-Log) data for this well

Plugging Information:

API PLG_DT DEPTH_PBT 4705130267 -/-/1947 0 AUG 1 3 2021

NV Department of Environmental Protection

WV Geological & Economic Survey:

Well: County = 51 Permit = 01065

Report Time: Tuesday, April 13, 2021 4:10:15 PM

Location Information: View Map

API COUNTY PERMIT TAX DISTRICT QUAD 75 QUAD 15 LAT DD LON DD UTME UTMN 4705101065 Marshall 1065 Liberty Cameron Cameron 39.801366 -80.609267 533449.4 4405784.2

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_PF 4705101065 1/3/2008 Plugging Completed Kenneth Wayne Steele M-386 Consolidation Coal Co.

Completion Information:

API CMP_DT SPUD_DT ELEV DATUM FIELD DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G 4705101065 1/3/2008 12/12/2007 1420 Ground Level Cameron-Garner unclassified unclassified not available unknown unknown

Comment: 1/3/2008 River Operations. Pittsburgh Coal 1160-1170ft.

There is no Pay data for this well

There is no Production Gas data for this well

There is no Production Oil data for this well ** some operators may have reported NGL under Oil

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

There is no Stratigraphy data for this well

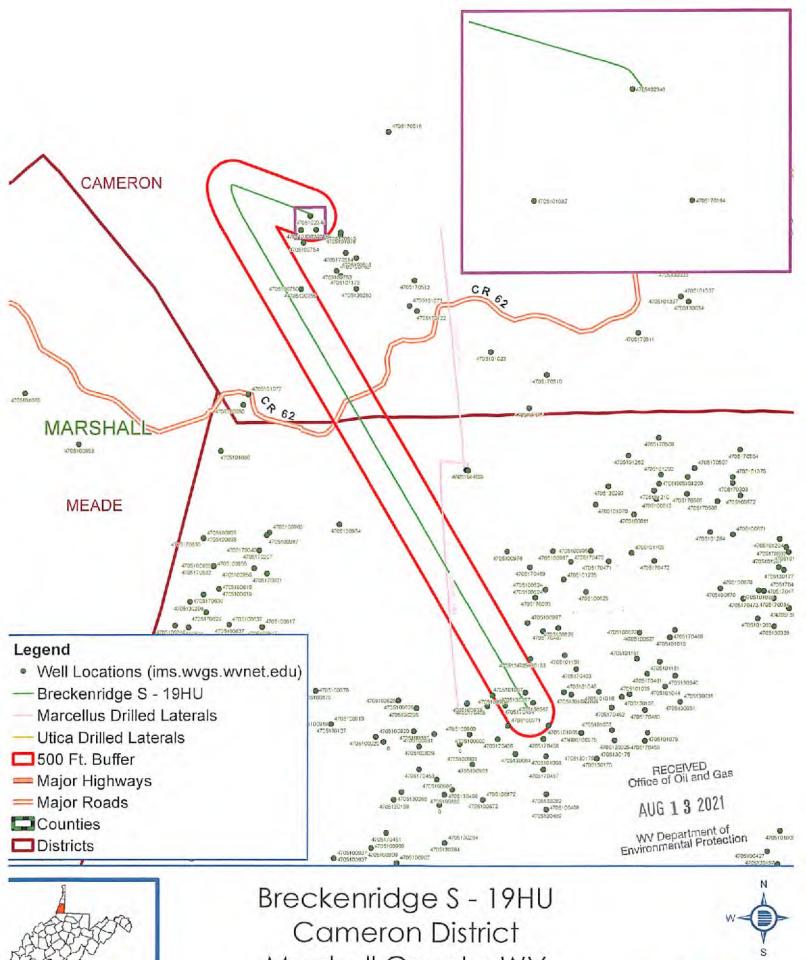
There is no Wireline (E-Log) data for this well

Plugging Information:

API PLG_DT_DEPTH_PBT 4705101065 1/3/2008 0

There is no Sample data for this well

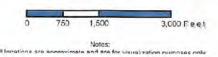






Map Created April 7, 2021

Marshall County, WV





LAND SERVICES

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

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

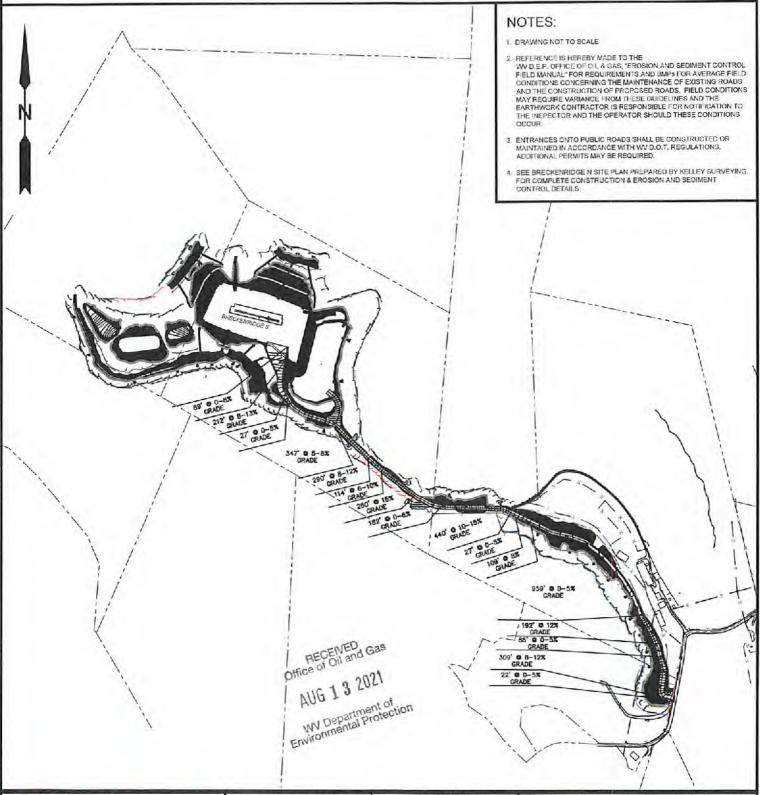
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Tug Hill Operating, LLC	OP Code 494510851
Watershed (HUC 10) Grave Creek & Laurel Run	Quadrangle Glen Easton 7.5'
Do you anticipate using more than 5,000 bbls of water to comp	lete the proposed well work? Yes Vo
Will a pit be used? Yes No ✓	
If so, please describe anticipated pit waste: AST Tanks	with proper containment will be used for staging fresh water for frac and flow back water
Will a synthetic liner be used in the pit? Yes	No ✓ If so, what ml.? AST Tarks will be used with proper contain
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	1 UIC 0450 LUC 065 LUC 250 LUC 200732540 LUC 200732523 \
Reuse (at API Number	t Number_UIC 2459, UIC 965, UIC 359, UIC 2D0732540, UIC 2D0732523)
Off Site Disposal (Supply form WV Other (Explain	V-9 for disposal location)
Will closed loop system be used? If so, describe: Yes - For Ve	ertical and Horizontal Drilling
Drilling medium anticipated for this well (vertical and horizont	al)? Air, freshwater, oil based, etc. Air for vertical / Oil for Horizontal
-If oil based, what type? Synthetic, petroleum, etc. S	ynthetic Oil Base
Additives to be used in drilling medium? Barite for weight	
Drill cuttings disposal method? Leave in pit, landfill, removed	offsite, etc. All drill cuttings to be disposed of in a Landfill
-If left in pit and plan to solidify what medium will be	used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number? Wetzel County Sant	tary Landfil (SWF-1021 / WV0109185) and Westmoreland Sanitary Landfill, LLC (SAN1405 / PA DEP EC#1386426)
	Gas of any load of drill cuttings or associated waste rejected at any within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the West V provisions of the permit are enforceable by law. Violations o law or regulation can lead to enforcement action. I certify under penalty of law that I have personally application form and all attachments thereto and that, base	conditions of the GENERAL WATER POLLUTION PERMIT issued irginia Department of Environmental Protection. I understand that the fany term or condition of the general permit and/or other applicable wexamined and am familiar with the information submitted on this don my inquiry of those individuals immediately responsible for true, accurate, and complete. I am aware that there are significant illity of fine or imprisonment. RECEIVED Office of Oil and Gas
Company Official (Typed Name) Jim Pancake	AUG 1 3 2021
Company Official Title Vice President - Geosciences	WV Department of Environmental Protection
Subscribed and amount before the gtt	0
Susane Seliere	Commonwealth of Pennsylvania - Notary Sea Susanne Deliere, Notary Public Notary Public Washington County My commission expires January 15, 2025 Commission reports 12, 2025
My commission expires 4/15/2025	Commis i tidr/ ก็ เมื่อได้สีเป็นชื่น 2332 Member, Pennsylvania Association of Notaries

		40	. 60
Proposed Revegetation Treatmen			0.0
Lime 3		to pH 6.5	
Fertilizer type 10-20-2	20	_	
Fertilizer amount 500		lbs/acre	
Mulch 2.5		Tons/acre	
		Seed Mixtures	
Tempo	orary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Ryegrass	40	Orchard Grass	12
Spring Oats	96	Ladino	3
		White Clover	2
Maps(s) of road, location, pit and provided). If water from the pit watereage, of the land application as	vill be land applied, inclured,	application (unless engineered plans included the dimensions (L x W x D) of the pit, and	
provided). If water from the pit water from the pit water age, of the land application at Photocopied section of involved	vill be land applied, inclured,		
Maps(s) of road, location, pit and provided). If water from the pit watereage, of the land application as Photocopied section of involved Plan Approved by:	vill be land applied, inclured,		
Maps(s) of road, location, pit and provided). If water from the pit watercage, of the land application as Photocopied section of involved Plan Approved by:	vill be land applied, inclured,		
Maps(s) of road, location, pit and provided). If water from the pit watereage, of the land application as Photocopied section of involved Plan Approved by:	vill be land applied, inclured,		
Maps(s) of road, location, pit and provided). If water from the pit watercage, of the land application as Photocopied section of involved Plan Approved by:	vill be land applied, inclured,		
Maps(s) of road, location, pit and provided). If water from the pit watereage, of the land application as Photocopied section of involved Plan Approved by:	vill be land applied, inclured,		
Maps(s) of road, location, pit and provided). If water from the pit watercage, of the land application as Photocopied section of involved Plan Approved by:	vill be land applied, inclured,		
Maps(s) of road, location, pit and provided). If water from the pit watercage, of the land application as Photocopied section of involved Plan Approved by:	vill be land applied, inclured,		dimensions (L x W), and are
Maps(s) of road, location, pit and provided). If water from the pit watereage, of the land application at Photocopied section of involved	ill be land applied, inclirea. 7.5' topographic sheet.		RECEIVED Office of Oil and Ga

SUPPLEMENT PG. 1

PROPOSED BRECKENRIDGE S - 19HU





75. 844	Harry Drive	LPSA B	01/10	Guera	Hill 9	VY 75.15	1 524	4621	55.55
602.6	mill adverse	District.	STANK !	Charin	diam.	WV 233	11704	346	mis.
25	of Last Street	Jey My	inila	MAN VY	WY:	268071	101.055	.529	6

TOPO S	ECTION:	OPERATOR: PREPARED FOR: TUG HILL OPERATING, LLC 380 SOUTHPOINTE BLVD		
GLEN EAS	STON 7.5'			
COUNTY	DISTRICT			
MARSHALL	CAMERON	SUITE 200 CANONSBURG, PA 15317		
DRAWN BY	JOB NO.	DATE	SCALE	
K.G.M.	9026	04-08-21	NONE	



Breckenridge Coal Exhibit



AUG 1 3 2021



Well Site Safety Plan Part A – Site Specific Data and Figures

Well Name: Breckenridge S-19HU

Pad Name: Breckenridge

County: Marshall

UTM (meters), NAD83, Zone 17

Northing: 4,408,985.65

Easting: 531,947.73

Bary Stellys 6-17-21

KEY CONTACT FOR WELL SITE SAFETY PLAN DEVELOPMENT AND MAINTENANCE

Jerry V. DeRosa, Director EH&S Affairs (724) 338-2029 (office) (412) 736-5767 (cellular)

RECEIVED Office of Oil and Gas

AUG 1 3 2021

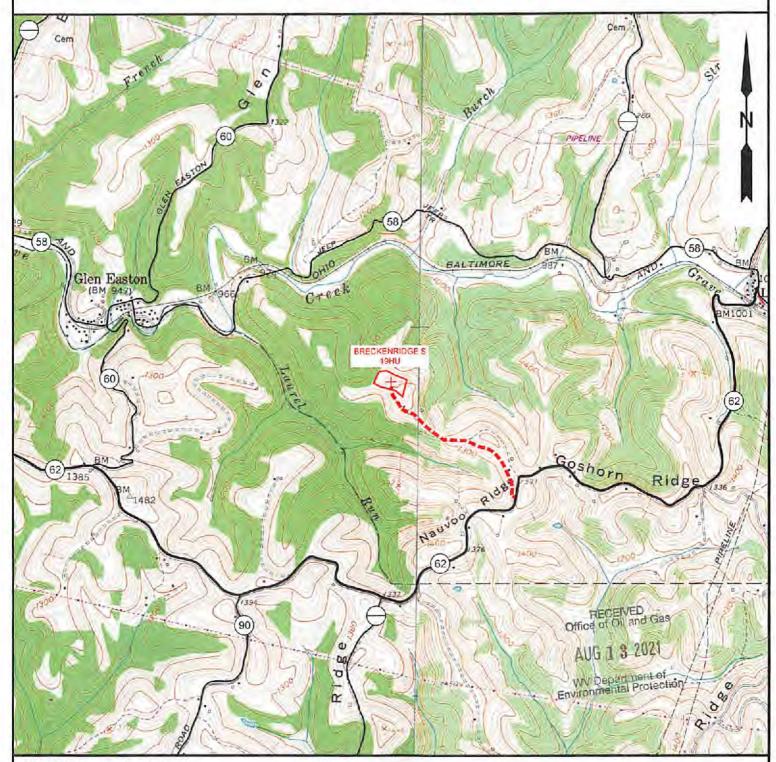
WV Department of Environmental Protection

24-HOUR EMERGENCY PHONE NUMBER

(800) 921-9745

SUPPLEMENT PG. 2

PROPOSED BRECKENRIDGE S - 19HU



NOTE: CLOSEST WATER PURVEYOR CITY OF CAMERON - FRANK WALKER RESERVOIR CAMDEN, WV

LAT: 39,829865 LON: -80,573724

LOCATED: \$ 88°42'19" E AT 14,928,72' FROM THE CENTER OF BRECKENRIDGE N WELL PAD LOCATION.



12 Vanhorn Drive | P.O. Box 150 | Gienville, WV 26351 | 304,452,5634. 1412 Kanawha Boulevard, East | Charleston, WY 25301 | 304,346,5952 254 East Backley Bypass | Bockley, WV 25801 | 304.255.5296

slswv.com

TOPO S	ECTION:	OPER	ATOR:
GLEN EA	STON 7.5'	PREPARED FO	
COUNTY	DISTRICT	380 SOUTHPO	
MARSHALL	CAMERON	SUITE 200 CANONSBURG	, PA 15317
DRAWN BY	JOB NO.	DATE	SCALE
KCM	9026	04/08/2021	1" - 2000



BRECKENRIDGE S LEASE UTICA UNIT - 352.75 AC± WELL 19HU TUG HILL OPERATING

TAG	SURFACE OWNER	PARCEL	ACRES
Α	CNX LAND, LLC	3-19-76	53.25
В	CNX LAND, LLC	3-19-74	44.59
C	CNX LAND, LLC	3-19-78	30,927
D	CNX LAND, LLC	3-19-79	10.75
E	XCL PROCESSING OPERATING LLC	3-19-81	26.52
F	SONJA J. STROPE	3-19-77	46.783
G	NANCY L. PARSONS - LIFE	7-1-7	40.86
H	SONJA J. STROPE	3-18-3	74,757
1	CAROL J. EVANS - LIFE	3-18-3.1	1.173
J	NANCY L. PARSONS - LIFE	7-1-9	4.94
K	NANCY L. PARSONS - LIFE	7-1-10	1.00
L	NANCY L. PARSONS - LIFE	7-1-8	33,00
M	MOLLY KAY HUBBS COLLINS, ET AL	7-1-11	98.44
N	OLIVIA SUZANNE HUBBS	7-1-12	17.68
0	OLIVIA SUZANNE HUBBS	7-1-13	120.937
P	MOLLY KAY HUBBS COLLINS, ET AL	7-1-15	57.32
Q	MOLLY KAY HUBBS COLLINS, ET AL	7-1-16	54.44
R	JEFFREY L. ALBRIGHT	7-1-17	57.17
S	JEAN JAMISON	7-1-19	51.89
Т	BEVERLY MAE DAVIS	7-2-4	58.08
U	JEAN JAMISON	7-7-9.1	97.896
V	WILLARD JUNIOR EVANS & ROSE MARIE EVANS - LIFE	7-7-9	2.214

T.H.	LATITUDE	39°50'00"	
B.H.	LATITUDE	39°50'00"	

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

NAD'83 S.P.C.(FT) N. 486,510.28 NAD'83 GEO.

E. 1.652.098.87 LAT-(N) 39.830269 LONG-(W) 80.626651 N. 4,408,985.65 E. 531,947.73

NAD'83 UTM (M) LANDING POINT

N. 4,405,871.7

NAD'83 S.P.C.(FT) N. 485,979.0 LAT-(N) 39.828771 NAD'83 GEO. NAD'83 UTM (M) N. 4,408,818.1

E. 1,650,974.7 LONG-(W) 80.630930 E. 531,608.0

BOTTOM HOLE

NAD'83 S.P.C.(FT) N. 476,216.0 LAT-(N) 39.802159 NAD'83 GEO:

NAD'83 UTM (M)

E. 1,656,467.5 LONG-(W) 80.610644 E. 533,331.1

80°37'30" LONGITUDE H.H. B.H.

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
3-18-3.2	DAVID L. & ARIANNE R. ROBINSON	1,886
3-18-3.3	DAVID L. & ARIANNE R. ROBINSON	16,884
3-18-4	CHARLES JARED STROPE	7.25
3-18-5	MOLLY KAY HUBBS COLLINS & OLIVIA SUZANNE HUBBS	25,372
3-18-38	OLIVIA SUZANNE HUBBS	0.433





1412 Kanawha Boulevard, Enst | Charleston, WV 25301 | 304,546,3952 254 East Beckley Bypass | Beckley, WV 25801 | 304,255,5296

NOTES ON SURVEY

-B.H.

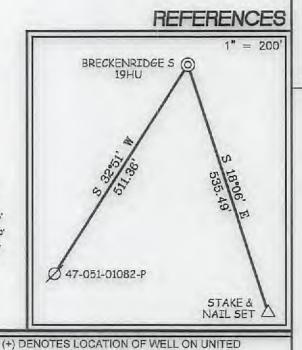
1. NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED CAS WELL NO AGRICULTURAL BUILDINGS

≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 525' OF THE CENTER OF PROPOSED WELL PAD.

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

3. PROPOSED LITERAL OR TOP HOLE OF PROPOSED BRECKENRIDGE S-19HU IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF PROPOSED OR EXISTING WELLS:

PROPOSED BRECKENRIDGE S-17HU, PROPOSED BRECKENRIDGE S-20HU, PROPOSED BRECKENRIDGE S-21HU, PROPOSED BRECKENRIDGE S-22HU, PROPOSED BRECKENRIDGE S-22HU, PROPOSED BRECKENRIDGE S-22HU, PROPOSED BRECKENRIDGE S-23HU,



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. Dream

No. 677
STATE OF STAT

API NO.

REVISED JULY 15, AUGUST 12 ., 20 OPERATORS WELL NO. BRECKENRIDGE S-19HU

WELL

DATE____

STATE COUNTY

STATES TOPOGRAPHIC MAPS.

MAY 3

02398 PERMIT

MINIMUM DEGREE OF ACCURACY

1/2500

FILE NO. 9026P19HUR2.dwg

BRECKENRIDGE S-19HU-REV4

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



HORIZONTAL & VERTICAL CONTROL DETERMINED BY

DGPS (SURVEY GRADE TIE TO CORS NETWORK)

LIQUID WASTE

DISPOSAL _

SCALE

WELL OIL_ LOCATION:

_ GAS_X_ INJECTION_

CAMERON

___ "GAS" PRODUCTION X STORAGE DEEP X SHALLOW

ELEVATION _ DISTRICT

GROUND = 1,387.60' PROPOSED = 1,370.10'

_ WATERSHED ___ GRAVE CREEK (HUC 10) & LAUREL RUN _ COUNTY_

SURFACE OWNER _

CNX LAND LLC

MARSHALL QUADRANGLE_

GLEN EASTON 7.5' 53.25±

ROYALTY OWNER -

HASAN'S VENTURES, ET AL

ACREAGE __ LEASE NO. ___

ACREAGE _

544719/2021

PROPOSED WORK:

SEE WW-6A1

DRILL X CONVERT DRILL DEEPER ___

ESTIMATED DEPTH_

REDRILL _____ FRACTURE OR STIMULATE __X PLUG OFF OLD

FORMATION ____ PERFORATE NEW FORMATION ____ PLUG AND ABANDON ____ CLEAN OUT AND REPLUG_ _ OTHER _ TARGET FORMATION _ POINT PLEASANT

TVD: 12,075' / TMD: 23,780'

PHYSICAL CHANGE IN WELL (SPECIFY)

WELL OPERATOR TUG HILL OPERATING, LLC

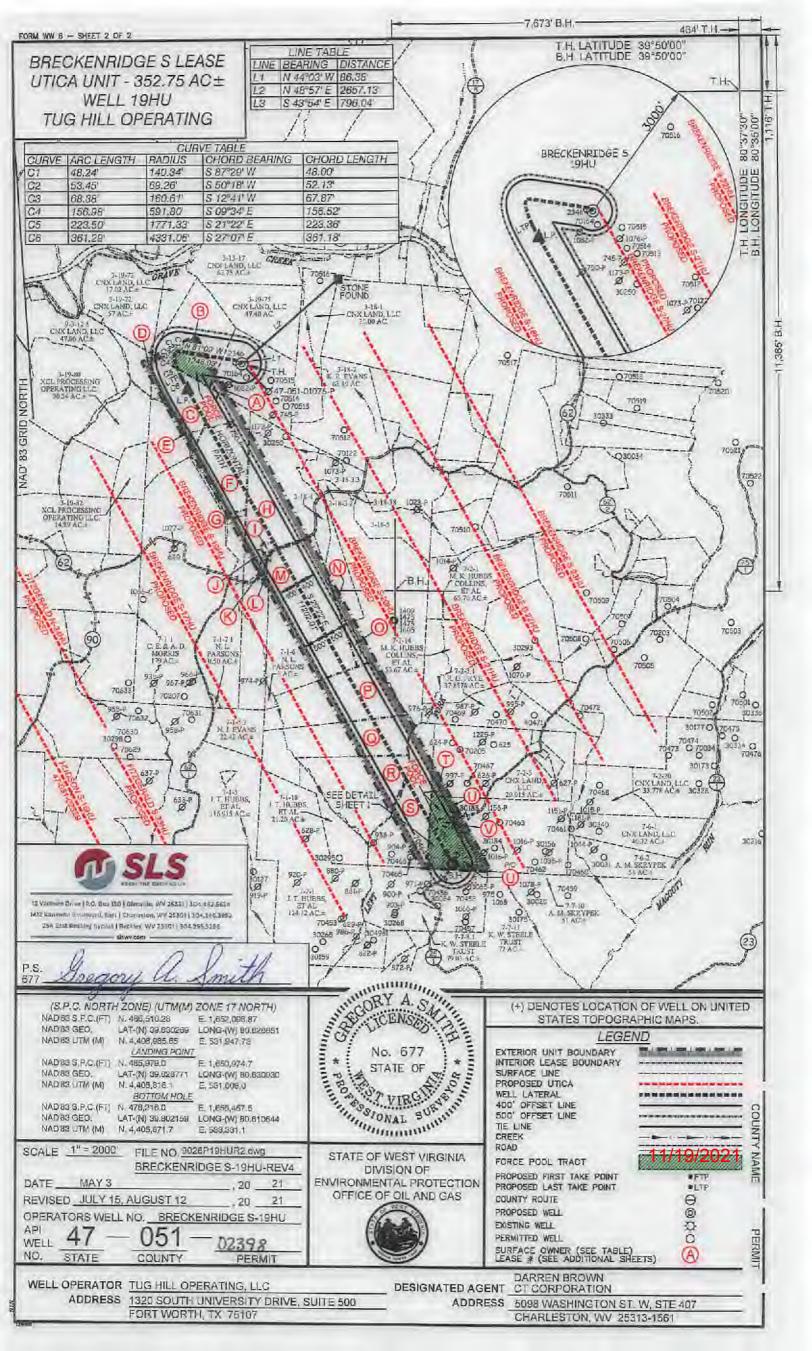
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500

FORT WORTH, TX 76107

DESIGNATED AGENT DARREN BROWN CT CORPORATION

ADDRESS 5098 WASHINGTON ST. W, STE 407

CHARLESTON, WV 25313-1561



BRECKENRIDGE S LEASE UTICA UNIT - 352.75 AC± WELL 19HU TUG HILL OPERATING



1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304,346,3952 254 East Beckley Bypass | Beckley, WV 25801 | 304,255,5296

1	NO.	Lease ID.	Parcel	Tag	Grantor, Lessor, Etc.	Deed Bo	ok/Page
L	1	10*31241	3-19-76	A	JAMES R WAYT, ET AL	729	40
	2	**FORCE POOL**	3-19-74	В	KATHERINE ZOGG OLIVER	663	449
	3	10*25525	3-19-78	C	JAN MARIE CREGO, ET AL	939	601
	4	10*22872	3-19-79	Ð	OKEY RAY GILBERT SR, ET AL	974	210
L	5	10*25525	3-19-81	E	JAN MARIE CREGO, ET AL	939	501
L	6	10*25525	3-19-77	F	JAN MARIE CREGO, ET AL	939	501
	7	10*23798	7-1-7	G	WILLIAM E PARSONS AND NANCY L PARSONS	1011	489
	8	10*17925	3-18-3	н	BOUNTY MINERALS LLC	928	393
	9	10*17925	3-18-3.1	1	BOUNTY MINERALS LLC	928	393
	10	10*17925	7-1-9	1	BOUNTY MINERALS LLC	928	393
L	11	10*17925	7-1-10	K	BOUNTY MINERALS LLC	928	393
	12	10*17925	7-1-8	L	BOUNTY MINERALS LLC	928	393
	13	10*17925	7-1-11	M	BOUNTY MINERALS LLC	928	393
L	14	10*17925	7-1-12	N	BOUNTY MINERALS LLC	928	393
	15	10*17925	7-1-13	0	BOUNTY MINERALS LLC	928	393
L	16	10*17925	7-1-15	P	BOUNTY MINERALS LLC	928	393
	17	10*17925	7-1-16	Q	BOUNTY MINERALS LLC	928	393
L	18	10*17925	7-1-17	R	BOUNTY MINERALS LLC	928	393
L	19	10*17925	7-1-19	5	BOUNTY MINERALS LLC	928	393
L	20	10*30483	7-2-4	T	DAVID W MITCHELL, ETAL	1105	1
L	21	10*29038	7-7-9.1	U	CONSTANCE LINT, ET AL	747	86
	22	10*29038	7-7-9	V	CONSTANCE LINT, ET AL	747	86

9026P19HUR2.dwg FILE NO. BRECKENRIDGE S-19HU-REV4 MAY 3 , 20 _ REVISED__JULY 15, AUGUST 12 , 20 __ 21

OPERATORS WELL NO. BRECKENRIDGE S-19HU

051 WELL

02398 NO. STATE COUNTY PERMIT No. 677
STATE OF
VIRCONAL SURVINION DARREN BROWN
DESIGNATED AGENT CT CORPORATION

ADDRESS 5098 WASHINGTON ST. W, STE 407 CHARLESTON, WV 25313-1561

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

WW-6A1 (5/13)

Operator's Well No. Breckenridge S-19HU

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

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

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

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

*See attached pages

RECEIVED
Office of Oil and Gas

AUG 1 3 2021

WV Department of Environmental Protection

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

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

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

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

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

Page 1 of

			<u>කි</u> ලි ලෙ	된 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등							_			
Lease ID	TMP	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Bo	ok/Page	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
10*31241	3-19-76	A	Grantor, Lessor, Etc. UNITED STATES R WAYT	Grantee, Lessee, Etc. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/8+	729	40	N/A	N/A	N/A	N/A	Trans Energy Inc to Republic Energy Ventures LLC: 24/260	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	EQT Production Company to TH Exploration LLC: 48/21.
10*31242	3-19-76	A	EVELYN L BUTLER	TRANS ENERGY INC	1/8+	729	49	N/A	N/A	N/A	N/A	Trans Energy Inc to Republic Energy Ventures LLC: 24/260	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	EQT Production Company to TH Exploration LLC: 48/21
FORCE POOL	3-19-74	В	KATHERINE ZOGG OLIVER	GREAT LAKES ENERGY PARTNERS, LLC	1/8+	663	449	Name change to Range Resources- Appalachia LLC: CB 19/443	Range Resources - Appalachia LLC to Chesapeaka Appalachia LLC and Statoil USA Onthore Properties Inc. 663/449	Chesapeake Appalachia LLC to Statoil USA Onshore Properties Inc: 24/363	Chesapeake Appalachia LLC to SWN Production Company LLC: 33/110	Statoli USA Onshore Properties inc to SWN Exchange Title Holder LLC: 33/424	Cert of Merger - SWN Exchange Titleholder ILC merged with and Into SWN Production Company ILC: CB 19/624	**FORCE POOL**
10*25525	3-19-78	с	JAN MARIE CREGO	AMERICAN PETROLEUM PARTNERS LLC	1/8+	939	601	N/A	N/A	N/A	N/A	N/A	N/A	American Petroleum Partners Operating LLC to TH Exploration LLC: 43/503
10°29085	3-19-78	С	LUJEAN EGAN	TH EXPLORATION LLC	1/8+	1084	192	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*30579	3-19-78	c	GREENFIELD RESOURCES, LLC	TH EXPLORATION LLC	1/8+	1105	272	N/A	N/A	N/A	N/A	N/A	N/A	N/A
20*38500	3-19-78	c	NINA FLETCHER AND RICHARD FLETCHER	AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	779	525	N/A	N/A	American Shale Development Inc to Republic Pertners VIII LLC: 31/482	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	to SWN Production Company & Equinore USA	Equinor USA Onshore Properties Inc to TH Exploration LLC: 49/104	SWN Production Company LLC to TH Exploration LLC: 49/120
10*38501	3-19-78	с	DOUGLAS BRIGGS	AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	779	526	N/A	N/A	American Shale Development inc to Republic Partners VIII LLC: 31/482	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	EQT Production Company to SWN Production Company & Equinore USA Onshore Properties Inc: 44/489		SWN Production Company LLC to TH Exploration LLC: 49/120
10*38502	3-19-78	c	THOMAS BRIGGS AND BRENDA M BRIGGS	AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	779	527	N/A	N/A	American Shale Development Inc to Republic Partners VIII LLC: 31/482	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	to SWN Production		SWN Production Company LLC to TH Exploration LLC: 49/120

				<u> </u>	CU		5	Bood Bo	ak/Daza İ	Andrew and	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
Lease ID	TMP	Tag	Grantor, Lessor, Etc.		<u>ج</u> و	Grantee, Lessee, Etc.	Royalty	<i>></i> €€0 80	-Wrage	Assignment	мыдишен	Assignment	Confinitions.	roogsiiirein	- confirment	reaguirent
10*38504	3-1 9 -78	c	REGINA D FIGUEROA	Office of C		•1	1/8+	779	529	N/A	N/A	American Shale Development Inc to Republic Partners VIII LLC: 31/482	LP, Republic Partners VII & VIII, LLC, and Republic	EQT Production Company to SWN Production Company & Equinore USA Onshore Properties Inc. 44/489	Equinor USA Onshore Properties Inc to TH Exploration LLC: 49/104	SWN Production Company LLC to TH Exploration LLC: 49/120
10*38505	3-19-78	c	DANNY S KERNS			AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	779	530	N/A	N/A	American Shale Development Inc to Republic Partners VIII LLC 31/482	LP, Republic Partners VII & VIII, LLC, and Republic	EQT Production Company to SWN Production Company & Equinore USA Onshore Properties Inc: 44/439	Equinor USA Onshore Properties Inc to TH Exploration LLC: 49/104	SWN Production Company LLC to TH Exploration LLC: 49/120
10*38506	3-19-78	c	ROGER BRIGGS			AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	779	540	N/A	N/A	American Shale Development Inc to Republic Partners VIII LLC: 31/482	LP, Republic Partners VII	EQT Production Company to SWN Production Company & Equinore USA Onshore Properties Inc: 44/489		SWN Production Company LLC to TH Exploration LLC: 49/120
10*38527	3-19-78	c	DEENA J PALOMO			AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	779	531	N/A	N/A	American Shale Development Inc to Republic Partners VIII LLC: 31/482	LP, Republic Partners VII	EQT Production Company to SWN Production Company & Equinore USA Onshore Properties Inc: 44/489		SWN Production Company LLC to TH Exploration LLC: 49/120
10°38529	3-19-78	c	GERRI A BANNISTER			AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	779	532	N/A	N/A	American Shale Development Inc to Republic Partners VIII LLC: 31/482	LP, Republic Partners VII & VIII, LLC, and Republic	EQT Production Company to SWM Production Company & Equinore USA Onshore Properties Inc: 44/489	Equinor USA Onshore Properties Inc to TH Exploration LLC: 49/104	SWN Production Company LLC to TH Exploration LLC: 49/120
10*38530	3-19-78	c	JULIE BRIGS			AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	779	533	N/A	N/A	American Shale Development Inc to Republic Partners VIII LLC: 31/482	LP, Republic Partners VII & VIII, LLC, and Republic	EQT Production Company to SWN Production Company & Equinore USA Onshore Properties Inc: 44/489		SWN Production Company LIC to TH Exploration LLC: 49/120
10*38531	3-19-78	c	JOHN BRIGGS			AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	779	534	N/A	N/A	American Shale Development Inc to Republic Partners VIII LLC: 31/482	Republic Energy Ventures LLC, Republic Partners VI, 1P, Republic Partners VI & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	EQT Production Company to SWM Production Company & Equinore USA Onshore Properties Inc: 44/489		SWN Production Company LLC to TH Exploration LLC: 49/120

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	10°38532	3-19-78	c	JEFF BRIGS AND CONNIE BRIGGS	AUG 13	Wr Ospar Environmenta	AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	779	537	N/A	N/A	American Shale Development Inc to Republic Partners VIII LLC: 31/482	LP, Republic Partners VII	Company & Equinore USA		SWN Production Company LLC to TH Exploration LLC: 49/120
	10*38533	3-19-78	c	GARY BRIGGS			AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	779	538	N/A	N/A	American Shale Development Inc to Republic Partners VIII LLC: 31/482	LP, Republic Partners VII & VIII, LLC, and Republic	EQT Production Company to SWN Production Company & Equinore USA Onshore Properties Inc: 44/489		SWN Production Company LLC to TH Exploration LLC: 49/120
	10*38534	3-19-78	С	JEARILYN LITTS AND IVAN LITTS			AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	779	539	N/A	N/A	American Shale Development Inc to Republic Partners VIII LLC: 31/482				SWN Production Company LLC to TH Exploration LLC: 49/120
1	10*25525	3-19-77	F	JAN MARIE CREGO			AMERICAN PETROLEUM PARTNERS LLC	1/8+	939	601	N/A	N/A	N/A	N/A	N/A	N/A	American Petroleum Partners Operating LLC to TH Exploration LLC: 43/503
	10°29085	3-19-77	F	LUJEAN EGAN			TH EXPLORATION LLC		1084	192	N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
	10*30579 10*38500	3-19-77	f	GREENFIELD RESOURCES, LLC NINA FLETCHER AND RICHARD FLETCHER			TH EXPLORATION LLC AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	779	52S	N/A N/A	N/A	American Shale Development Inc to Republic Partners VIII LLC: 31/482	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII	EQT Production Company	Equinor USA Onshore	SWN Production Company LLC to TH
	10*38501	3-19-77	F	DOUGLAS BRIGGS			AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	779	526	N/A	N/A	American Shale Development Inc to Republic Partners VIII LLC: 31/482	LP, Republic Partners VII & VIII, LLC, and Republic	Company & Equinore USA	Equinor USA Onshore Properties Inc to TH Exploration LLC: 49/104	SWN Production Company LLC to TH Exploration LLC: 49/120
	10*38502	3-19-77	F	THOMAS BRIGGS AND BRENDA M BRIGGS			AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	779	527	NJA	N/A	American Shale Development Inc to Republic Partners VIII LLC: 31/482	LP, Republic Partners VII & VIII, LLC, and Republic	EQT Production Company		SWN Production Company LLC to TH Exploration LLC: 49/120

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: 10°38504	3-19-77	F	REGINA D FIGUEROA	AUG 1 3 20 WV Departmen	AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	779	529	N/A	N/A	American Shale Development Inc to Republic Partners VIII LLC: 31/482				SWN Production Company LLC to TH Exploration LLC: 49/120
10*38505	3-19-77	f	DANNY S KERNS		AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	779	530	N/A	N/A	American Shale Development Inc to Republic Partners VIII LLC: 31/482		EQT Production Company to SWN Production Company & Equinore USA Onshore Properties Inc: 44/489	Equinor USA Onshore Properties Inc to TH Exploration LLC: 49/104	SWN Production Company LLC to TH Exploration LLC: 49/120
10*38506	3-19-77	F	ROGER BRIGGS		AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	779	540	N/A	N/A	American Shale Development Inc to Republic Partners VIII LLC: 31/482		EQT Production Company to SWN Production Company & Equinore USA Onshore Properties Inc: 44/489		SWN Production Company LLC to TH Exploration LLC: 49/120
10*38527	3-19-77	F	DEENA J PALOMO		AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	779	531	N/A	N/A	American Shale Development Inc to Republic Partners VIII LLC: 31/482				SWN Production Company LLC to TH Explaration LLC: 49/120
10*38529	3-19-77	F	GERRI A BANNISTER		AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	779	532	N/A	N/A	American Shale Development Inc to Republic Partners VIII LLC: 31/482		EQT Production Company to SWN Production Company & Equinore USA Onshore Properties Inc: 44/489	Equinor USA Onshore Properties Inc to TH Exploration LLC: 49/104	SWN Production Company LLC to TH Exploration LLC: 49/120
10*38530	3-19-77	F	JULIE BRIGS		AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	779	533	N/A	NA	American Shale Development Inc to Republic Partners VIII LLC: 31/482		EQT Production Company to SWN Production Company & Equinore USA Onshore Properties Inc: 44/489		SWN Production Company LLC to TH Exploration LLC: 49/120
10*38531	3-19-77	F	JOHN BRIGGS		AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	779	534	N/A	N/A	American Shale Development inc to Republic Partners VIII LLC: 31/482	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25		Equinor USA Onshore Properties inc to TH Exploration LLC: 49/104	SWN Production Company LLC to TH Exploration LLC: 49/120

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;	.0°38532	3-19-77	F	SECENTION DIVERSITE AUG 13	AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	779	537	N/A	N/A	American Shale Development Inc to Republic Partners VIII LLC: 31/482	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	to SWN Production Company & Equinore USA		SWN Production Company LLC to TH Exploration LLC: 49/120
1	0*38533	3-19-77	F	GARY BRIGGS	AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	779	538	N/A	N/A	American Shale Development Inc to Republic Partners VIII LLC: 31/482	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	to SWN Production Company & Equinore USA		SWN Production Company LLC to TH Exploration LLC: 49/120
,	Q°38534	3-19-77	F	IERRILYN LITTS AND IVAN LITTS	AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	779	539	N/A	N/A	American Shale Development Inc to Republic Partners VIII LLC: 31/482	LP, Republic Partners VII & VIII, LLC, and Republic		Equinor USA Onshore Properties Inc to TH Exploration LLC: 49/104	
/	0°17925	3-18-3	н	BOUNTY MINERALS LLC	TH EXPLORATION LLC	1/8+	928	393		N/A	N/A	N/A	N/A	N/A	N/A
	0*17925	3-18-3.1		BOUNTY MINERALS LLC	TH EXPLORATION LLC	1/8+	928	393	N/A	N/A	N/A	N/A	N/A	N/A	N/A
√	0*17925	7-1-11	М	BOUNTY MINERALS LLC	TH EXPLORATION LLC	1/8+	928	393	N/A	N/A	N/A	N/A	N/A	N/A	N/A
v	0°17925	7-1-15	P	BOUNTY MINERALS LLC	TH EXPLORATION LLC	1/8+	928	393	N/A	N/A	N/A	N/A	N/A	N/A	N/A
V I	0°17925	7-1-16	Q	BOUNTY MINERALS LLC	TH EXPLORATION LLC	1/8+	928	393	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	0°17925	7-1-17	R	BOUNTY MINERALS LLC	TH EXPLORATION LLC	1/8+	928	393	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<u> </u>	0°17925	7-1-19	S	BOUNTY MINERALS LLC	TH EXPLORATION LLC	1/8+	928	393	N/A	N/A	N/A	N/A	N/A	N/A	N/A
,	0*29038	7-7-9.1	U	CONSTANCE LINT	AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	747	86	N/A	N/A	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	EQT Production Company to SWN Production Company & Equinor USA Onshore Properties Inc: 44/489		SWN Production Company LLC to TH Exploration LLC: 49/120
F0	RCE POOL	7-7-9.1	U	CURTIS W. LINT	UNLEASED	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**FORCE POOL**
•••	RCE POOL**	7-7-9.1	U	SANDRA LINT	AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	787	130	N/A	N/A	N/A	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482		EQT Production Company to SWN Production Company & Equinor USA Onshore Properties Inc: 44/489	**FORCE POOL**
FO	RCE POOL	7-7-9.1	U	ROBERT J. RAYMOND	AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	789	295	Ν/A	N/A	N/A	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482		EQT Production Company to SWM Production Company & Equinor USA Onshore Properties Inc: 44/489	**FORCE POOL**

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FORCE POOL	7-7-9.1	U	AUG 1 3 20 MV Departmen	AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	789	299	N/A	N/A	N/A		Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	to SWN Production Company & Equinor USA	**FORCE POOL**
FORCE POOL	7-7-9.1	U	RHEA TEDROW	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	784	189	N/A	N/A	Development Inc: 27/172	LLC: 31/482	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VI & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	to SWN Production Company & Equinor USA Onshore Properties Inc: 44/489	**FORCE POOL**
10*28335	7-7-9.1	υ	DENNIS TEDROW	TH EXPLORATION LLC	1/8+	1070	442	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*27421	7-7-9.1	U	MARTHA MILTON	TH EXPLORATION LLC	1/8+	1058	574	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A
10*39020	7-7-9.1	U	MARCIE WITHEROW	TH EXPLORATION LLC	1/8+	1110	515	N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	**FORCE POOL**
	7-7-9.1	U	PENNY TEDROW	UNLEASED	N/A 1/8+	N/A 1084	N/A 396	N/A N/A	N/A N/A	N/A	N/A	N/A	N/A	N/A
10*29114	7-7-9.1	U	TERRY WITHEROW TRACY J. WEGENDT	TH EXPLORATION LLC TH EXPLORATION LLC	1/8+	1096	292	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*29513 10*29766	7-7-9.1 7-7-9.1	U	STEWART TEDROW	TH EXPLORATION LLC	1/8+	1100	260	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*28336	7-7-9.1	U	DUSTIN TEDROW	TH EXPLORATION LLC	1/8+	1070	440	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FORCE POOL	7-7-9.1	ט	SHIRLEY MORGAN	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	754	17	N/A	NJA	Trans Energy Inc to American Shale Development Inc: 27/172	American Shale Devel, Inc to Republic Partners VIII LLC 31/482	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	EQT Production Company to SWN Production Company & Equinor USA Onthore Properties Inc: 44/489	**FORCE POOL**
FORCE POOL	7-7-9.1	U	DONNIS S. TEDROW	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	741	289	N/A	N/A	Trans Energy Inc to Republic Energy Ventures LLC: 26/632	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	EQT Production Company to SWN Production Company & Equinor USA Onshore Properties Inc: 44/489	**FORCE POOL**
10*38578	7-7-9.1	U	LLOYD TEDROW	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	N/A	754	18	NJA	Trans Energy Inc to American Shale Development Inc. 27/172	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	to SWN Production Company & Equinor USA	Equinor USA Onshore Properties inc to TH Exploration LLC: 49/104	SWN Production Company LLC to TH Exploration LLC: 49/120
10*38543	7-7-9.1	U	CHARLES ROBERT TEDROW	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	757	277	N/A	Trans Energy Inc to American Shale Development Inc: 27/172	American Shale Devel Inc to	LP, Republic Partners VII	Company & Equinor USA	Equinor USA Onshore Properties Inc to TH Exploration LLC: 49/104	SWN Production Company LLC to TH Exploration LLC: 49/120

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PENDING	7-7-9.1	υ	AUG T. COMPANY CONTINENTS	TH EXPLORATION LLC	1/8+			N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*38648	7-7-9.1	u	BONNIE S. MORRIS	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	750	577	N/A	Trans Energy Inc to American Shale Development Inc: 27/172	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	LP, Republic Partners VII	Company & Equinor USA		SWN Production Company LLC to TH Exploration LLC: 49/120
FORCE POOL	7-7-9.1	υ	CHARLES F. MARTIN, JR.	AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	777	592	N/A	N/A	N/A		Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	to SWN Production Company & Equinor USA	**FORCE POOL**
10*38651	7-7-9.1	U	RUTH VARNER AND DONALD J VARNER	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	750	578	N/A	Trans Energy Inc to American Shale Development Inc: 27/172	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	LP, Republic Partners VII	Company & Equinor USA		SWN Production Company LLC to TH Exploration LLC: 49/120
10*38557	7-7-9.1	U	DEBBIE DEGROFF	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	750	508	M/A	Trans Energy Inc to American Shale Development Inc: 27/172	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	LP, Republic Partners VII	EQT Production Company to SWM Production Company & Equinor USA Onshore Properties Inc: 44/489	Equinor USA Onshore Properties Inc to TH Exploration LLC: 49/104	SWN Production Company LLC to TH Exploration LLC: 49/120
FORCE POOL	7-7-9.1	U	. MARY LOU HARRISON	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	759	598	N/A	M/A	Trans Energy Inc to Republic Energy Ventures LLC: 26/632	American Shale Devel. Into Republic Partners VIII	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	EQT Production Company to SWM Production Company & Equinor USA Onshore Properties Inc: 44/489	**FORCE POOL**
10*38536	7-7-9.1	U	JOHN SAMUEL TEDROW	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	757	285	N/A	Trans Energy Inc to American Shall Development Inc: 27/172	e American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	LP, Republic Partners VII	EQT Production Company to SWN Production Company & Equinor USA Onshore Properties Inc: 44/459	Equinor USA Onshore Properties Inc to TH Exploration LLC: 49/104	SWN Production Company LLC to TH Exploration LLC: 49/120

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10*38549	7-7-9.1	u	AUG 1 8 AUG NOBERI LEDROM	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	750	491	N/A	Trans Energy Inc to American Shale Development Inc: 27/172	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	to SWN Production Company & Equinor USA	Equinor USA Onshore Properties inc to TH Exploration LLC: 49/104	SWN Production Company LLC to TH Exploration LLC: 49/120
10°38601	7-7-9.1	U	KIMBERLY DURENDA	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	754	10	N/A	Trans Energy Inc to American Shale Development Inc: 27/172	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VI, & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	to SWN Production Company & Equinor USA	Equinor USA Onshore Properties Inc to TH Exploration LLC: 49/104	SWN Production Company LLC to TH Exploration LLC: 49/120
10*38663	7-7-9.1	U	ALICE FAYE VARNER	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	757	275	N/A	Trans Energy Inc to American Shale Development Inc. 27/172	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	to SWN Production Company & Equinor USA	Equinor USA Onshore Properties Inc to TH Exploration LLC: 49/104	SWN Production Company LLC to 1H Exploration LLC: 49/120
10*38542	7-7-9.1	U	MARILYN D HOGAN	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	750	490	N/A	Trans Energy Inc to American Shale Development Inc: 27/172	American Shale Devel. Inc to Republic Partners VIII U.C. 31/482	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	to SWN Production Company & Equinor USA	Equinor USA Onshore Properties Inc to TH Exploration LLC: 49/104	SWN Production Company LLC to TH Exploration LLC: 49/120
10*38574	7-7-9.1	U	JANET L BURA AND MARK BURA	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	757	266	N/A	Trans Energy Inc to Republic Energy Ventures LLC 26/632	American Shale Devel. Inc to Republic Partners VIII LLC: 31/432	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	EQT Production Company to SWN Production Company & Equinor USA Onshore Properties Inc: 44/489	Equinor USA Onshore Properties Inc to TH Exploration LLC: 49/104	SWN Production Company LLC to TH Exploration LLC: 49/120
10*38649	7-7-9.1	U	B PAUL DILLE AND SHERRY DILLE	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	753	648	N/A	Trans Energy Inc to American Shale Development Inc: 27/172	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	EQT Production Company to SWN Production Company & Equinor USA Onshore Properties Inc: 44/489	Equinor USA Onshore Properties Inc to TH Exploration LIC: 49/104	SWN Production Company LLC to TH Exploration LLC: 49/120
10*38554	7-7-9.1	U	JACK E. DILLE	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	757	267	N/A	Trans Energy Inc to Republic Energy Ventures LLC: 26/632	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	Republic Energy Ventures VI, LP, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	EQT Production Company to SWN Production Company & Equinor USA Onshore Properties Inc: 44/489	Equinor USA Onshore Properties Inc to TH Exploration U.C: 49/104	SWN Production Company LLC to TH Exploration LLC: 49/120

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10°38624	7-7-9.1	U	AUTHONA 1 TELEVECCHIA WY DO GO OF THE COMPANY OF T	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	754	15	N/A	Trans Energy Inc to Republic Energy Ventures LLC: 28/632	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	LP, Republic Partners VII & VIII, LLC, and Republic	EQT Production Company to SWN Production Company & Equinor USA Onshore Properties Inc: 44/489	Equinor USA Onshore Properties Inc to TH	SWN Production Company LLC to TH Exploration LLC: 49/120
FORCE POOL	7-7-9.1	U	BEVERLY DILLE, WILLIAM G. DILLE, SHELBY DILLE, JEFFREY DILLE	AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	777	593	N/A	N/A	N/A	to Republic Partners VIII LLC: 31/482	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	EQT Production Company to SWN Production Company & Equinor USA	**FORCE POOL**
FORCE POOL	7-7-9.1	U	DOROTHY D. DILLE	UNLEASED	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**FORCE POOL**
FORCE POOL	7-7-9.1	U	DARLENE MARIE DILLE WADDINGHAM	UNLEASED	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**FORCE POOL**
PENDING	7-7-9.1	U	JOYCE LYNNE LOWRY	TH EXPLORATION LLC	1/8+	1114	314	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FORCE POOL	7-7-9.1	U	GUY DILLE	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	758	613	N/A	N/A	Trans Energy Inc to Republic Energy Ventures LLC: 26/632		Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	EQT Production Company to SWN Production Company & Equinor USA	**FORCE POOL**
FORCE POOL	7-7-9.1	U	BONNIE L. MURPHY	EQT PRODUCTION CO.	1/8+	961	572	N/A	N/A	N/A	N/A	N/A	EQT Production Company to SWM Production Company & Equinore USA Onshore Properties Inc: 44/439	**FORCE POOL**
10°30155	7-7-9.1	U	CHARLES W. GORBY, BY ATTTORNEY IN FACT, CHARLES C. GORBY	TH EXPLORATION LLC	1/8+	1104	633	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10°39051	7-7-9.1	Ü	SUZANNE TAYLOR	TH EXPLORATION LLC	1/8+	1104	635	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*38630	7-7-9.1	U	MARIORIE HARTMAN	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	750	493	N/A	Trans Energy inc to American Shale Development inc: 27/172	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	Republic Energy Ventures LLC, Republic Partners VI, UP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	to SWN Production Company & Equinor USA	Equinor USA Onshore Properties Inc to TH Exploration LLC: 49/104	SWN Production Company LLC to TH Exploration LLC: 49/120
10*38633	7-7-9.1	U	JANICE C. HETRICK	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	750	495	NJA	Trans Energy Inc to Republic Energy Ventures LLC: 26/632	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	Onshore Properties Inc: 44/489	Exploration LLC: 49/104	
FORCE POOL	7-7-9.1	U	EQT PRODUCTION CO.	SWN PRODUCTION CO.	1/8+	1065	545	N/A	N/A	N/A	N/A	N/A	N/A	**FORCE POOL**

Operator's Well No. <u>Breckenridge S - 19HU</u>

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10°29939	7-7-9.1	υ	DOMAID H. SHANOR	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	754	19	N/A	Trans Energy Inc to Republic Energy Ventures LLC: 26/632	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482			Equinor USA Onshore Properties Inc to TH Exploration ILC: 49/104	SWN Production Company LLC to TH Exploration LLC: 49/120
FORCE POOL	2.7.01	U	HOWARD A. SHANOR, JR.	UNLEASED	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**FORCE POOL**
10*29138	7-7-9.1	Ü	DEBORAH ANN GORBY	TH EXPLORATION LLC	1/8+	1085	180	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10°30483	7-7-9.1	Ü	DAVID W MITCHELL	TH EXPLORATION LLC	1/8+	1105	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10°30154	7-7-9.1	Ü	MICHELLE ABRAMS AND DONALD A ABRAMS	TH EXPLORATION LLC	1/8+	1104	641	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*30605	7-7-9.1	Ü	CAMMIE WILSON AND CLINT A WILSON	TH EXPLORATION LLC	1/8+	1110	529		N/A	N/A	N/A	N/A	N/A	N/A
10°30606	7-7-9.1	U	NEIL EDWARD WILSON	TH EXPLORATION LLC	1/8+	1110	526	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10°30157	7-7-9.1	C	EDISON K MITCHELL AND MARILEE J MITCHELL	TH EXPLORATION LLC	1/8+	1104	645	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10°30156	7-7-9.1	υ	RAYMOND L MITCHELL AND JANET L MITCHELL	TH EXPLORATION LLC	1/8+	1104	637	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10°38535	7-7-9.1	U	CAROLYN A POSTLETHWAITE	TH EXPLORATION LLC	1/8+	1083	548	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FORCE POOL	7-7-9.1	υ	ROBERT EDISON ANDREWS A/K/A EDISON ANDREWS	UNLEASED	N/A	N/A	N/A		N/A	N/A	N/A N/A	N/A N/A	N/A N/A	**FORCE POOL**
FORCE POOL	7-7-9.1	U	DONALD WAYNE ANDREWS	UNLEASED	N/A	N/A	N/A		N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	**FORCE POOL**
FORCE POOL	7-7-9.1	U	JANET LORRAINE ANDREWS PUSKARICH	UNLEASED	N/A	N/A	N/A	N/A	n/A	N/A		N/A	N/A	**NORCE POOL**
FORCE POOL	7-7-9.1	υ	KRISTINA OWENS KOLLER F/K/A KRISTINA OWENS WRIGHT	AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	787	131	N/A	N/A	N/A		Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	to SWN Production Company & Equinor USA	**FORCE POOL**
FORCE POOL	7-7-9.1	U	UNKNOWN HEIRS AND ASSIGNS OF RONDA OWENS SPRINGER	UNLEASED	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**FORCE POOL**
FORCE POOL		Ü	UNKNOWN HEIRS AND ASSIGNS OF ROBIN OWENS	UNLEASED	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**FORCE POOL**
FORCE POOL	7-7-9.1	U	KYLE OWENS	AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	789	296	N/A	N/A	NA	American Shale Devel, Inc to Republic Partners VIII LLC: 31/482	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	EQT Production Company to SWN Production Company & Equinor USA Onshore Properties Inc. 44/489	**FGRCE PGOL**
FORCE POOL	7-7-9.1	U	SUSAN L CLENDENNING	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	761	290	N/A	N/A	Trans Energy Inc to Republic Energy Ventures LIC: 26/632	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	EQT Production Company to SWN Production Company & Equinor USA Onshore Properties Inc: 44/489	**FORCE POOL**
FORCE POOL	7-7-9.1	U	CAROLE SIMMONS	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	759	596	N/A	N/A	Trans Energy Inc to Republic Energy Ventures LLC: 26/632	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VII), LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	EQT Production Company to SWN Production Company & Equinor USA Onshore Properties Inc: 44/489	**FORCE POOL**

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	Lease ID	TMP	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Bo	ok/Page	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
	10*38640	7-7-9.1	U	RECEIVED Office of Oil and WV Departmen	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	750	575	N/A	Trans Energy Inc to American Shale Development Inc: 27/172	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	LP, Republic Partners VII & VIII, LLC, and Republic	Company & Equinor USA		SWN Production Company LLC to TH Exploration LLC: 49/120
	10*38643	7-7-9.1	U	ALLEN W. OWENS	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	750	576	N/A	Trans Energy Inc to American Shale Development Inc: 27/172	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	LP, Republic Partners VII	EQT Production Company to SWN Production Company & Equinor USA Onshore Properties Inc. 44/489	Equinor USA Onshore Properties inc to TH Exploration LLC: 49/104	SWN Production Company LLC to TH Exploration LLC: 49/120
-	*FORCE POOL**	7-7-9.1	U	UNXNOWN HEIRS AND ASSIGNS OF MARY ELLEN SAYRE	UNLEASED	N/A			N/A	N/A	N/A	N/A	N/A	N/A	**FORCE POOL**
	FORCE POOL**	7-7-9.1	U	GOLDIE I. HINKLE	UNLEASED	N/A			N/A	N/A	N/A	N/A	N/A	N/A	**FORCE POOL**
Ĺ	PENDING	7-7-9.1	U	STONE HILL MINERALS	TH EXPLORATION LLC	1/8+ N/A	1119 N/A	493 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A **FORCE POOL**
	FORCE POOL**	7-7-9.1	U	VICTORIA PETREE	UNLEASED UNLEASED	N/A N/A	N/A N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A	**FORCE POOL**
	*FORCE POOL**	7-7-9.1 7-7-9.1	U	LYNETTE KRAGNESS ERNEST GRAHAM LOTT	UNLEASED	N/A			N/A	N/A	N/A	N/A	N/A	N/A	**FORCE POOL**
	*FORCE POOL**	7-7-9.1	Ü	UNXNOWN HEIRS AND ASSIGNS OF MARIORIE JEAN FITZGERALD	UNLEASED	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	**FORCE POOL**
	*FORCE POOL**	7-7-9.1	Ü	UNKNOWN HEIRS AND ASSIGNS OF LULILY KLEMME AKA LOU LILY KLEMME	UNLEASED	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	**FORCE POOL**
Г	FORCE POOL**	7-7-9.1	U	UNKNOWN HEIRS AND ASSIGNS OF HARRY ZINK AKA HARRISON YOUNG ZINK	UNLEASED	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**FORCE POOL**
	10*29038	7-7-9	v	CONSTANCE LINT	AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	747	86	N/A	N/A	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	LP, Republic Partners VII	to SWN Production Company & Equinor USA	Equinor USA Onshore Properties Inc to TH Exploration LLC: 49/104	SWN Production Company LLC to TH Exploration LLC: 49/120
h	FORCE POOL**	7-7-9	· v	CURTIS W. LINT	UNLEASED	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**FORCE POOL**
	*FORCE POOL**	7-7-9	v	SANDRA LINT	AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	787	130	N/A	N/A	N/A	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	EQT Production Company to SWM Production Company & Equinor USA Onshore Properties Inc. 44/489	**FORCE POOL**
	FORCE POOL**	7-7-9	٧	ROBERT J. RAYMOND	AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	789	295	N/A	N/A	N/A	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	EQT Production Company to SWN Production Company & Equinor USA Onshore Properties Inc. 44/489	**FORCE POOL**
	*Force pool**	7-7-9	v	JAMES W. RAYMOND	AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	789	299	N/A	N/A	N/A	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	EQT Production Company to SWN Production Company & Equinor USA Onshore Properties Inc: 44/489	**FORCE POOL**

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FORCE POOL	7-7-9	v	RHEA TEDROW	Grantee, Lessee, Etc. Grantee, Lessee, Etc. Grantee, Lessee, Etc. Grantee, Lessee, Etc.	1/8+	784	189	N/A	N/A	Trans Energy Inc to American Shale Development Inc: 27/172	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	EQT Production Company to SWN Production Company & Equinor USA	**FORCE POOL**
10*28335	7-7-9	v	DENNIS TEDROW	TH EXPLORATION LLC	1/8+	1070	442	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*27421	7-7-9	v	MARTHA MILTON	TH EXPLORATION LLC	1/8+	1058	574	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10°39020	7-7-9	٧	MARCIE WITHEROW	TH EXPLORATION LLC	1/8+	1110		N/A	N/A	N/A	N/A	N/A	N/A	N/A
FORCE POOL	7-7-9	٧	PENNY TEDROW	UNLEASED	N/A	N/A 1084	N/A 396	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	**FORCE POOL** N/A
10*29114	7-7-9	V	TERRY WITHEROW	TH EXPLORATION LLC TH EXPLORATION LLC	1/8+		292	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10°29513	7-7-9 7-7-9		TRACY J. WEGENDT STEWART TEDROW	TH EXPLORATION LLC	1/8+		260	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10°29766 10°28336	7-7-9	V	DUSTIN TEDROW	TH EXPLORATION LLC	1/8+		440	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FORCE POOL	7-7-9	>	SHIRLEY MORGAN	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	754	17	N/A	N/A	Trans Energy Inc to American Shale Development Inc. 27/172	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	to SWN Production Company & Equinor USA	**FORCE POOL**
FORCE POOL	7-7-9	٧	DONNIS S. TEDROW	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	741	289	N/A	N/A	Trans Energy Inc to Republic Energy Ventures LLC: 26/632	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	to SWN Production Company & Equinor USA	**FORCE POOL**
10°38578	7-7-9	v	LLOYD TEDROW	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	N/A	754	18	NJA	Trans Energy Inc to American Shale Development Inc: 27/172	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	LP, Republic Partners VII	EQT Production Company to SWN Production Company & Equinor USA Onshore Properties Inc: 44/489	Equinor USA Onshore Properties Inc to TH Exploration ILC: 49/104	SWN Production Company LLC to TH Exploration LLC: 49/120
10*38543	7-7-9	٧	CHARLES ROBERT TEDROW	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	757	277	NJA	Trans Energy Inc to American Shale Development Inc: 27/172	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	LP, Republic Partners VII	EQT Production Company to SWN Production Company & Equinor USA Onshore Properties Inc: 44/489	Equinor USA Onshore Properties Inc to TH Exploration LLC: 49/104	SWN Production Company LLC to TH Exploration LLC: 49/120
PENDING	7-7-9	v	GARY L. TEDROW, JR	TH EXPLORATION LLC	1/8+			N/A	N/A	. N/A	N/A	N/A	N/A	N/A

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EQT Production

Company: 37/25

44/489

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10*38549	7-7-9	v	RECEIV Office of Oil WV Departity Environmental Fig.	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	750	491	N/A	Trans Energy Inc to American Shale Development Inc: 27/172	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	tP, Republic Partners VII & VIII, LLC, and Republic	Company & Equinor USA		SWN Production Company LLC to TH Exploration LLC: 49/120
10*38601	7-7-9	v	KIMBERLY DURENDA	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	754	10	N/A	Trans Energy Inc to American Shale Development Inc: 27/172	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	EQT Production Company to SWN Production Company & Equinor USA Onshore Properties Inc: 44/489	Equinor USA Onshore Properties inc to TH Exploration LLC: 49/104	SWN Production Company LLC to TH Exploration LLC: 49/120
10*38663	7-7-9	v	ALICE FAYE VARNER	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	757	275	NJA	Trans Energy Inc to American Shale Development Inc. 27/172	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	EQT Production Company to SWN Production Company & Equinor USA Onshore Properties Inc: 44/489	Equinor USA Onshore Properties inc to TH Exploration LLC: 49/104	SWN Production Company LLC to TH Exploration LLC: 49/120
10*38542	7-7-9	v	MARILYN D HOGAN	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	750	490	MA	Trans Energy Inc to American Shale Development Inc: 27/172	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	EQT Production Company to SWN Production Company & Equinor USA Onshore Properties Inc: 44/489	Equinor USA Onshore Properties Inc to TH Exploration LUC: 49/104	SWN Production Company LLC to TH Exploration LLC: 49/120
10°38574	7-7-9	v	JANET L BURA AND MARK BURA	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	757	266	MA	Trans Energy Inc to Republic Energy Ventures (LC: 26/632		Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VI & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	to SWN Production	Equinor USA Onshore Properties Inc to TH Exploration LLC: 49/104	SWN Production Company LLC to TH Exploration LLC: 49/120
10*38649	7-7-9	v	B PAUL DILLE AND SHERRY DILLE	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	753	648	N/A	Trans Energy Inc to American Shale Development Inc: 27/172			EQT Production Company to SWN Production Company & Equinor USA Onshore Properties Inc: 44/489	Equinor USA Onshore Properties Inc to TH Exploration LLC: 49/104	SWN Production Company LLC to TH Exploration LLC: 49/120

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Lease ID	TMP	Tag	Grantor, Lessor, Rtc. Op 07	Grantee, Lessee, Etc.	Royalty	Deed Bo	ok/Page	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
10*38554	7-7-9	>	AUG 1 3 2021 WV Departmental Professor	1	1/8+	757	267	M/A	Trans Energy Inc to Republic Energy Ventures LLC: 26/632	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VIII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	to SWN Production Company & Equinor USA	Equinor USA Onshore Properties Inc to TH Exploration LLC: 49/104	SWN Production Company LLC to TH Exploration LLC: 49/120
10°38624	7-7-9	٧	ANTHONY J TERAVECCHIA	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	754	15	M/A	Trans Energy Inc to Republic Energy Ventures LLC: 26/632	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	to SWN Production Company & Equinor USA	Equinor USA Onshore Properties inc to TH Exploration LLC: 49/104	SWN Production Company LLC to TH Exploration LLC: 49/120
FORCE POOL	7-7-9	٧	BEVERLY DILLE, WILLIAM G. DILLE, SHELBY DILLE, JEFFREY DILLE	AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	777	593	N/A	N/A	NIA	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482		EQT Production Company to SWN Production Company & Equinor USA Onshore Properties Inc: 44/439	**FORCE POOL**
FORCE POOL	7-7-9	V	DOROTHY D. DILLE	UNLEASED	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**FORCE POOL**
FORCE POOL	7-7-9	v	DARLENE MARIE DILLE WADDINGHAM	UNLEASED	N/A			N/A	N/A	N/A	N/A	N/A	N/A	**FORCE POOL**
PENDING	7-7-9	····	JOYCE LYNNE LOWRY	TH EXPLORATION LLC	1/8+	1114	314	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FORCE POOL	7-7-9	v	GUY DILLE	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	758	613	N/A	W/A	Trans Energy Inc to Republic Energy Ventures ILC: 26/632	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	EQT Production Company to SWN Production Company & Equinor USA Onshore Properties Inc: 44/439	**FORCE POOL**
FORCE POOL	7-7-9	٧	BONNIE L. MURPHY	EQT PRODUCTION CO.	1/8+	961	572	N/A	N/A	N/A	N/A	N/A	EQT Production Company to SWN Production Company & Equinore USA Onshore Properties Inc. 44/489	**FORCE POOL**
10*30155	7-7-9	>	CHARLES W. GORBY, BY ATTTORNEY IN FACT, CHARLES C. GORBY	TH EXPLORATION LLC		1104	633		N/A	N/A	N/A	N/A	N/A	N/A
10*39051	7-7-9		SUZANNE TAYLOR	TH EXPLORATION LLC	1/8+	1104	635	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*38630	7-7-9	v	MARJORIE HARTMAN	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	750	493	N/A	Trans Energy Inc to American Shale Development Inc. 27/172	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	EQT Production Company to SWN Production Company & Equinor USA Onshore Properties Inc. 44/439	Equinor USA Onshore Properties Inc to TH Exploration LLC: 49/104	SWN Production Company LLC to TH Exploration LLC: 49/120
10*38633	7-7-9	٧	JANICE C. HETRICK	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	750	495	N/A	Trans Energy Inc to Republic Energy Ventures LLC: 26/632	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT Production Company: 37/25	to SWN Production Company & Equinor USA	Equinor USA Onshore Properties Inc to TH Exploration LLC: 49/104	SWN Production Company LLC to TH Exploration LLC: 49/120

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Lease ID	TMP	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.		Deed Bo			Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
FORCE POOL	7-7-9	٧	EQT PRODUCTION CO.	SWN PRODUCTION CO.	1/8+	1065	545	N/A	N/A	N/A	N/A	N/A	N/A	**FORCE POOL**
10*29939	7-7-9	v	DONALD H. SHANOR	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	754	19	NJA	Trans Energy Inc to Republic Energy Ventures LLC: 26/632	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	LP, Republic Partners VII	Company & Equinor USA	Equinor USA Onshore Properties Inc to TH Exploration LLC: 49/104	SWN Production Company LLC to TH Exploration LLC: 49/120
FORCE POOL	7-7-9		HOWARD A. SHANOR, JR.	UNLEASED	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**FORCE POOL**
10°29138	7-7-9	V	DEBORAH ANN GORBY	TH EXPLORATION LLC	1/8+	1085	180	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*30483	7-7-9	v	DAVID W MITCHELL	TH EXPLORATION LLC	1/8+	1105	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*30154	7-7-9	v	MICHELLE ABRAMS AND DONALD A ABRAMS	TH EXPLORATION LLC	1/8+	1104	641	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10°30605	7-7-9	v	CAMMIE WILSON AND CLINT A WILSON	TH EXPLORATION LLC	1/8+	1110	529	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10°30606	7-7-9	v	NEIL EDWARD WILSON	TH EXPLORATION LLC	1/8+	1110	526	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10°30157	7-7-9	v	EDISON K MITCHELL AND MARILEE J MITCHELL	TH EXPLORATION LLC	1/8+	1104	645	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*30156	7-7-9	v	RAYMOND L MITCHELL AND JANET L MITCHELL	TH EXPLORATION LLC	1/8+	1104	637	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10°38535	7-7-9	V	CAROLYN A POSTLETHWAITE	TH EXPLORATION LLC	1/8+	1083	548	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FORCE POOL	7-7-9	٧	ROBERT EDISON ANDREWS A/K/A EDISON ANDREWS	UNLEASED	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**FORCE POOL**
FORCE POOL	7-7-9	V	DONALD WAYNE ANDREWS	UNLEASED	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**FORCE POOL**
FORCE POOL	7-7-9	٧	JANET LORRAINE ANDREWS PUSKARICH	UNLEASED	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**FORCE POOL**
FORCE POOL	7-7-9	v	KRISTINA OWENS KOLLER F/K/A KRISTINA OWENS WRIGHT	AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	787	131	N/A	N/A	N/A		LP, Republic Partners Vil	EQT Production Company to SWN Production Company & Equinor USA Onshore Properties Inc: 44/489	**FORCE POOL**
FORCE POOL	7-7-9	l v	UNXNOWN HEIRS AND ASSIGNS OF RONDA OWENS SPRINGER	UNLEASED	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**FORCE POOL**
FORCE POOL	7-7-9	v	UNKNOWN HEIRS AND ASSIGNS OF ROBIN OWENS	UNLEASED	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	**FORCE POOL**
FORCE POOL	7-7-9	v	KYLE OWENS	AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	789	296	NIA	N/A	N/A	American Shale Devel, Inc to Republic Partners VIII LLC: 31/482		EQT Production Company to SWN Production Company & Equinor USA Onshore Properties Inc: 44/489	**FORCE POOL**
FORCE POOL	7-7-9	v	SUSAN L CLENDENNING	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	761	290	N/A	N/A	Trans Energy Inc to Republic Energy Ventures LLC: 26/632	American Shale Devel, inc to Republic Partners VIII LLC: 31/482		EQT Production Company to SWN Production Company & Equinor USA Onshore Properties Inc: 44/489	**FORCE POOL**
FORCE POOL	7-7-9	v	CAROLE SIMMONS	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	759	596	N/A	N/A	Trans Energy Inc to Republic Energy Ventures LLC: 26/632	American Shale Devel. In: to Republic Partners VIII LLC: 31/482		EQT Production Company to SWN Production Company & Equinor USA Onshore Properties Inc: 44/489	**FORCE POOL**

20 05	ote	WELL BORE TRACTS	Operator's Well No. Breckenridge S - 19HU
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Lease ID	TMP	Tag	Grantor, Lessor, Rtc.	D Grantee, Lessee, Etc.	Royalty	Deed Bo	ook/Page	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
10*38640	7-7-9	v	Office of State of St	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	750	575	N/A	Trans Energy Inc to American Shale Development Inc: 27/172	American Shale Devel. Inc to Republic Partners VIII LLC: 31/482	LP, Republic Partners VII & VIII, LLC, and Republic	Company & Equinor USA	Equinor USA Onshore	SWN Production Company LLC to TH Exploration LLC: 49/120
10*38643	7-7-9	v	ALLEN W. OWENS	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	750	576	NJA	Trans Energy Inc to American Shale Development Inc: 27/172		LP, Republic Partners VII & VIII, LLC, and Republic	EQT Production Company to SWN Production Company & Equinor USA Onshore Properties Inc: 44/489	Equinor USA Onshore	SWN Production Company LLC to TH Exploration (LC: 49/120
FORCE POOL	7-7-9	V	UNKNOWN HEIRS AND ASSIGNS OF MARY ELLEN SAYRE	UNLEASED	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**FORCE POOL**
FORCE POOL		i v	GOLDIE I. HINKLE	UNLEASED	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	**FORCE POOL**
PENDING	7-7-9	v	STONE HILL MINERALS	TH EXPLORATION LLC	1/8+		493	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FORCE POOL	7-7-9	V	VICTORIA PETREE	UNLEASED	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	**FORCE POOL**
FORCE POOL		V	LYNETTE KRAGNESS	UNLEASED	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**FORCE POOL**
FORCE POOL		V	ERNEST GRAHAM LOTT	UNLEASED	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**FORCE POOL**
FORCE POOL		V	UNKNOWN HEIRS AND ASSIGNS OF MARJORIE JEAN FITZGERALD	UNLEASED	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**FORCE POOL**
FORCE POOL		V	UNKNOWN HEIRS AND ASSIGNS OF LULILY KLEMME AKA LOU LILY KLEMME	UNLEASED	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**FORCE POOL**
FORCE POOL		l v	UNKNOWN HEIRS AND ASSIGNS OF HARRY ZINK AKA HARRISON YOUNG ZINK	UNLEASED	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**FORCE POOL**

WW-6A1 Supplement

ASSIGNMENT AND BILL OF SALE

This ASSIGNMENT AND BILL OF SALE (this "Assignment") dated as of December 1, 2020 (the "Execution Date"), is made by and between EQT PRODUCTION COMPANY, a Pennsylvania corporation, with an address at 625 Liberty Avenue, Suite 1700, Pittsburgh, Pennsylvania 15222 ("EQT"), and TH EXPLORATION, ILC, a Texas limited liability company, with an address at 1320 S. University Dive, Suite 500, Fort Worth, Texas 76107 ("TH") pursuant to the terms of that certain Acreage Trade Agreement by and among EQT, TH and TH Exploration II, LLC ("TH II"), dated July 8, 2020 (the "Agreement"). EQT and TH may be referred to herein together as the "Partier", and each individually as a "Party".

RECITALS

WHEREAS, EQT desires to transfer, convey and assign to TH certain of EQT's oil and gas leasehold interests located in Marshall County, West Virginia set forth on Exhibit A attached hereto and incorporated herein ("EQT Leases") in accordance with this Assignment and the Agreement; and

WHEREAS, TH desires to receive from EQT, all of EQT's right, title and interest in and to the EQT Leases in accordance with this Assignment and the Agreement.

NOW, THEREFORE, for and in consideration of the mutual promises contained herein and in the Agreement, the benefits to be derived by each Party hereunder and under the Agreement, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties hereby agree as follows:

ARTICLE I DEFINED TERMS

1.1 Definitions. Capitalized terms used herein and not otherwise defined throughout this Assignment shall have the meanings given such terms in the Agreement.

ARTICLE II ASSIGNMENT OF ASSETS

- 2.1 Assignment. Subject to the terms and conditions of this Assignment and the Agreement, EQT does hereby assign, convey and transfer to TH all of the right, title and interest of EQT in and to the following (collectively for purposes of this Assignment, the "EQT Assets"):
- (a) Subject to the conveyance of the Wells Assets from EQT to TH II as described in the Agreement, the EQT Leases and appurtenances thereto (including rights of access and to install facilities), all Hydrocarbons within, produced from, derived from, or sold from the EQT Leases (and all proceeds related thereto), on and after the Valuation Date, and all Surface Contracts including but not limited to those set forth on Exhibit B attached hereto and incorporated herein (the "EQT Surface Contracts") related to the BQT Leases and such Hydrocarbons; and
- (b) Copies of deeds, files and all other ownership information directly related to the acquisition, operations and maintenance of the BQT Leases, lease files for the EQT Leases

RECEIVED Office of Oil and Gas

AUG 1 3 2021

WV Department of Environmental Protection

11/19/2021



STATE OF WEST VIRGINIA
COUNTY OF MARSHALL

Marshall County
Jan Pest, Clerk
Instrument 1453305
04/24/2019 @ 11:51:22 AM
ASSISHMENTS
Book 43 @ Page 503
Pages Recorded 10
Recording Cost \$ 17.00

ASSIGNMENT AND CONVEYANCE

THIS ASSIGNMENT AND CONVEYANCE (the "Assignment") is made and entered into this 23rd day of April, 2019 (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 November 15, 2018 (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-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:

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

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

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

Assignor represents and warrants that Assignor has paid any and all bonuses, rentals, royalties, overriding royalties, and other payments required by the Leases which were due for the period in which Assignor held its interests in the Leases, and that Assignor has fully performed all conditions necessary to maintain the Leases in full force and effect during such period, free and clear of all Encumbrances, except for and subject only to Permitted Encumbrances.

 Successors and Assigns. The terms of this Assignment shall be binding upon and inure to the benefit of the parties hereto and each of their respective successors RECEIVED Office of Oil and Gas

AUG 1 3 2021

WV Department of Environmental Protection

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 June 30, 2021 (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 22, 2021 (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.

<u>ARTICLE 2</u> 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>

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RECEIVED
Office of Oil and Gas

AUG 1 3 2021

WV Department of Environmental Protection



August 11, 2021

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

RE: Breckenridge S-19HU

Subject: Proposed Voluntary Pooling and Unitization

Dear Susan:

Tug Hill Operating, LLC is authorized through, either lease or other agreement, to unitize and pool all lands falling within the boundaries of the proposed voluntary unit included with this submission, with the exception of the following tracts which we intend to force pool.

3-19-74

7-2-4

7-7-9

7-7-9.1

If your office has any questions or concerns regarding the contents of this letter, please do not hesitate to contact me directly at 724-749-8388, or by email at amorris@tug-hillop.com.

Sincerely,

any L. Morris

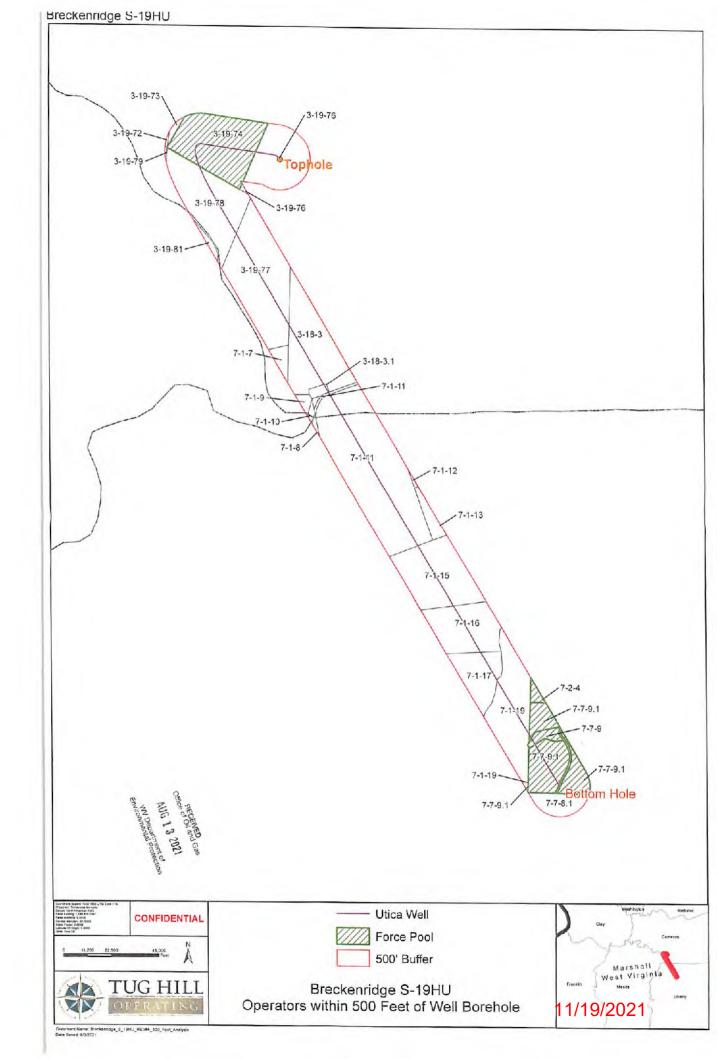
Permitting Specialist - Appalachia Region

Tug Hill Operating

Office of Oil and Gas

AUG 13 2021

WV Department of Environmental Protection



CERTIFICATE OF CONSENT AND EASEMENT

The undersigned, for valuable consideration, the receipt and sufficiency of which is hereby acknowledged, being the owner of the surface of that certain lots, tracts or parcels of land located in Cameron District, Marshall County, State of West Virginia, shown on the attached plat or survey, hereby consents and grants an easement (subject to the terms of a separate Surface Use Agreement between the undersigned and TH Exploration, LLC (the "SUA")), pursuant to West Virginia Code, Section 22C-9-7(b)(4) and Operating Rule 4.4 of the Rules and Regulations of the West Virginia Oil and Gas Conservation Commission, to TH Exploration, LLC, its successors or permitted assigns subject to the SUA, for the drilling and operation of a deep well for the production of oil or gas at the location shown on the attached play or survey.

[Signatures on the Following Page]

Marshall County
Jan Pest, Clerk
Instrument 1472063
11/04/2020 @ 01:07:07 PM
RIGHT OF WAY W/O CONSIDERATION
Book 1098 @ Page 555
Pages Recorded 3
Recording Cost \$ 11.00

Office of Oil and Gas

AUG 1 3 2021

WV Department of Environmental Protection

Executed the date set forth in the notary but effective as of November 2, 2020.

CNX LANDILLG

Name: Peter I Binotto

Title: Assistant Vice President

COMMONWEALTH OF PENNSYLVANIA

SS:

COUNTY OF WASHINGTON

On this, the 30 day of 0c+, 2020, before me, a notary public, the undersigned officer, personally appeared Peter J. Binotto who acknowledged himself/herself to be the Assistant Vice President of CNX Land LLC and that he/she as such, being authorized to do so, executed the foregoing instrument for the purposes therein contained by signing the name of the company by himself/herself as Assistant Vice President.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission Expires:

Signature of Notary Public:

Name/Notary Public (print):

This instrument prepared by:

WV Oil and Gas Conservation Commission 601 57th Street

Charleston, WV 25304

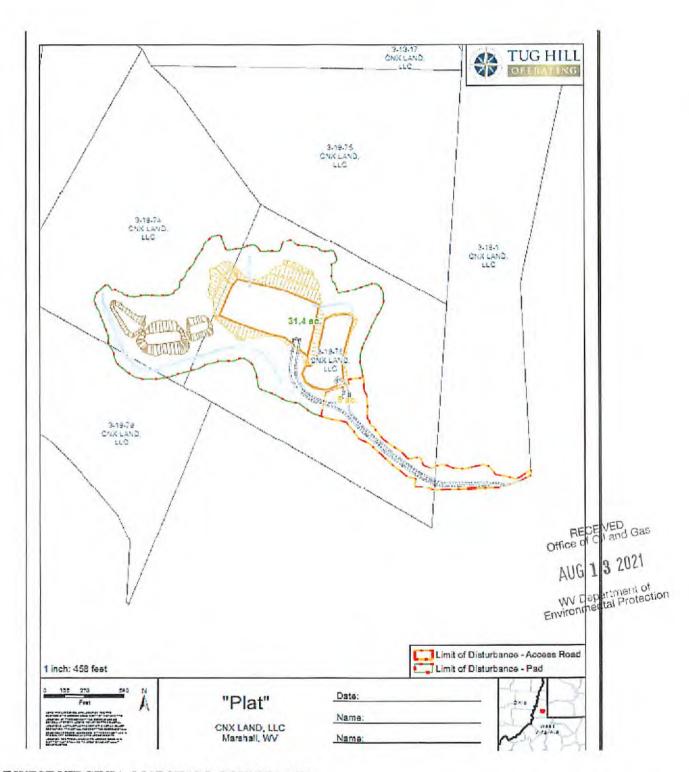
COMMONWEALTH OF PENNSYLVANIA

NOTARIAL SEAL
Douglas E. Smith, Notary Public
Cecil Twp., Washington County
My Commission Expires Dec. 6, 2020
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Office of Oil and Gas

AUG 13 2021

WV Department of Environmental Protection



STATE OF WEST VIRGINIA, MARSHALL COUNTY, SCT.:



west virginia department of environmental protection

Oil and Gas Conservation Commission 601 57th Street SE, Charleston, WV 25304 304-414-1239

Randall M. Albert, Chairman dep.wv.gov

August 27, 2021

Ernest Graham Lott 1331 1st St N Apt 503 Jacksonville Beach FL 32250

9489 0090 0027 6349 8921 35

RE: Intentional Deviation of New Deep Well

Tug Hill Operating, LLC - Breckenridge S-19HU

Dear Sir:

encl:

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

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

If you have any questions please call me at (304) 414-1239.

Sincerely,

Susan Rose

Administrator



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west virginia department of environmental protection

Oil and Gas Conservation Commission 601 57th Street SE, Charleston, WV 25304 304-414-1239

Randall M. Albert, Chairman dep.wv.gov

August 27, 2021

Equinor USA Onshore Properties, Inc. 6300 Bridge Point Pkwy Bldg 2 Ste 100 Austin TX 78730

9489 0090 0027 6201 331970

RE: Intentional Deviation of New Deep Well

Tug Hill Operating, LLC - Breckenridge S-19HU

Dear Sir or Ma'am:

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

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If you have any questions please call me at (304) 414-1239.

Sincerely,

Susan Rose Administrator

encl:



west virginia department of environmental protection

Oil and Gas Conservation Commission 601 57th Street SE, Charleston, WV 25304 304-414-1239

Randall M. Albert, Chairman dep.wv.gov

August 27, 2021

TH Exploration, LLC 1320 S. University Dr Ste 500 Ft Worth TX 76107 9489 0090 00276201 331987

RE: Intentional Deviation of New Deep Well

Tug Hill Operating, LLC - Breckenridge S-19HU

Dear Sir or Ma'am:

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

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If you have any questions please call me at (304) 414-1239.

Sincerely.

Susan Rose

Administrator

encl:



September 14, 2021

Dear Susan Rose:

The following is in response to your request for proof of delivery on your item with the tracking number: 9489 0090 0027 6201 3319 87.

Item Details

Status: Delivered, Front Desk/Reception/Mail Room

Status Date / Time: September 2, 2021, 1:35 pm Location: FORT WORTH, TX 76107

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

Return Receipt Electronic

Shipment Details

Weight: 20lb, 3.9oz

Recipient Signature

Signature of Recipient:

JB ATH Covid-19

1320 S University

Address of Recipient:

Note: Scanned image may reflect a different destination address due to Intended Recipient's delivery instructions on file.

Thank you for selecting the United States Postal Service® for your mailing needs. If you require additional assistance, please contact your local Post Office™ or a Postal representative at 1-800-222-1811.

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



west virginia department of environmental protection

Oil and Gas Conservation Commission 601 57th Street SE, Charleston, WV 25304 304-414-1239

Randall M. Albert, Chairman dep.wv.gov

August 27, 2021

Southwestern Energy 10000 Energy Dr Spring TX 77389 9489 0090 0027 6349 8920 12

RE: Intentional Deviation of New Deep Well

Tug Hill Operating, LLC - Breckenridge S-19HU

Dear Sir or Ma'am:

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If you have any questions please call me at (304) 414-1239.

Sincerely,

Susan Rose Administrator

encl:



September 14, 2021

Dear Susan Rose:

The following is in response to your request for proof of delivery on your item with the tracking number: 9489 0090 0027 6349 8920 12.

200	_			100
Item	100	Δť,	-11	c
	_	CI	- 11	

Status: Delivered, Front Desk/Reception/Mail Room

Status Date / Time: September 1, 2021, 11:55 am Location: MORGANTOWN, WV 26508

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

Return Receipt Electronic

Shipment Details

Weight: 20lb, 3.3oz

Recipient Signature

Signature of Recipient:

Marvin

Address of Recipient:

1300 FORT Presport # 201

Note: Scanned image may reflect a different destination address due to Intended Recipient's delivery instructions on file.

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



Oil and Gas Conservation Commission 601 57th Street SE, Charleston, WV 25304 304-414-1239

Randall M. Albert, Chairman dep.wv.gov

August 27, 2021

Robert Edison Andrews 3107 Broomsedge Way Durham NC 27712

9489 0090 0027 6349 8920 29

RE: Intentional Deviation of New Deep Well

Tug Hill Operating, LLC - Breckenridge S-19HU

Dear Sir:

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

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

If you have any questions please call me at (304) 414-1239.

Sincerely,

Susan Rose

Administrator



Dear Susan Rose:

The following is in response to your request for proof of delivery on your item with the tracking number: 9489 0090 0027 6349 8920 29.

Item Details		
Status:	Delivered, Left with Individual	
Status Date / Time:	September 2, 2021, 3:03 pm	
Location:	DURHAM, NC 27712	
Postal Product:	First-Class Mail®	
Extra Services:	Certified Mail™	
	Return Receipt Electronic	
Shipment Details		
Weight:	12lb, 14.4oz	
Recipient Signature		
Signature of Recipient:	(1)	
Address of Recipient:	7/27	

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Oil and Gas Conservation Commission 601 57th Street SE, Charleston, WV 25304 304-414-1239

Randall M. Albert, Chairman dep.wv.gov

August 27, 2021

Donald Wayne Andrews 141 Youngs Lane Wellsburg WV 26070

9489 0090 0027 6349 8920 36

RE: Intentional Deviation of New Deep Well

Tug Hill Operating, LLC - Breckenridge S-19HU

Dear Sir:

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

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

If you have any questions please call me at (304) 414-1239.

Sincerely,

Susan Rose

Administrator



Dear Susan Rose:

The following is in response to your request for proof of delivery on your item with the tracking number: 9489 0090 0027 6349 8920 36.

Status:	Delivered, Left with Individual	
Status Date / Time:	September 1, 2021, 1:22 pm	
Location:	WELLSBURG, WV 26070	
Postal Product:	First-Class Mail®	
Extra Services:	Certified Mail™	
	Return Receipt Electronic	
Shipment Details		
Weight:	12lb, 15.1oz	
Recipient Signature		
Signature of Recipient:		
Address of Recipient:	1/1	

Note: Scanned image may reflect a different destination address due to Intended Recipient's delivery instructions on file.

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Oil and Gas Conservation Commission 601 57th Street SE, Charleston, WV 25304 304-414-1239

Randall M. Albert, Chairman dep.wy.gov

August 27, 2021

Janet Lorraine Andrews Puskarich 54 Bluegrass Ave Middleburg FL 32068

9489 0090 0027 6349 8920 43

RE: Intentional Deviation of New Deep Well

Tug Hill Operating, LLC - Breckenridge S-19HU

Dear Ma'am:

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

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

If you have any questions please call me at (304) 414-1239.

Sincerely,

Susan Rose Administrator



Dear Susan Rose:

The following is in response to your request for proof of delivery on your item with the tracking number: 9489 0090 0027 6349 8920 43.

Item Details

Status: Delivered

Status Date / Time: September 8, 2021, 2:08 pm Location: MIDDLEBURG, FL 32068

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

Return Receipt Electronic

Shipment Details

Weight: 12lb, 15.1oz

Recipient Signature

Signature of Recipient:

54 BLUEGRASS AVI

gout tuckerial

Address of Recipient:

Note: Scanned image may reflect a different destination address due to Intended Recipient's delivery instructions on file.

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Oil and Gas Conservation Commission 601 57th Street SE, Charleston, WV 25304 304-414-1239

Randall M. Albert, Chairman dcp.wv.gov

August 27, 2021

Curtis W. Lint 123 Northwest Bowdoin Place Seattle WA 98107

9489 0090 0027 6349 8920 50

RE: Intentional Deviation of New Deep Well

Tug Hill Operating, LLC - Breckenridge S-19HU

Dear Sir:

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

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

If you have any questions please call me at (304) 414-1239.

Sincerely,

Susan Rose Administrator



Dear Susan Rose:

The following is in response to your request for proof of delivery on your item with the tracking number: 9489 0090 0027 6349 8920 50.

Status:	Delivered, Left with Individual		
Status Date / Time:	September 3, 2021, 3:14 pm		
Location:	SEATTLE, WA 98107		
Postal Product:	First-Class Mail®		
Extra Services:	Certified Mail™		
	Return Receipt Electronic		
Shipment Details			
Weight:	10lb, 1.6oz		
Recipient Signature			
Signature of Recipient:	EL C19 C1/NT		
Address of Recipient:	123 125WOOIN		

Note: Scanned image may reflect a different destination address due to Intended Recipient's delivery instructions on file.

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Oil and Gas Conservation Commission 601 57th Street SE, Charleston, WV 25304 304-414-1239

Randall M. Albert, Chairman dep.wv.gov

August 27, 2021

Penny Tedrow Ambrose 5475 Columbus Sandusky Rd N SR98 Marion OH 43302

9489 0090 0027 6349 8920 67

RE: Intentional Deviation of New Deep Well

Tug Hill Operating, LLC - Breckenridge S-19HU

Dear Ma'am:

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

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

If you have any questions please call me at (304) 414-1239.

Sincerely,

Susan Rose

Administrator



Dear Susan Rose:

The following is in response to your request for proof of delivery on your item with the tracking number: 9489 0090 0027 6349 8920 67.

Item Details

Status: Delivered, Left with Individual Status Date / Time: September 13, 2021, 2:23 pm

Location:MARION, OH 43302Postal Product:First-Class Mail®Extra Services:Certified Mail™

Return Receipt Electronic

Shipment Details

Weight: 10lb, 1.4oz

Recipient Signature

Signature of Recipient:

Penny The Cult

Address of Recipient:

Note: Scanned image may reflect a different destination address due to Intended Recipient's delivery instructions on file.

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Oil and Gas Conservation Commission 601 57th Street SE, Charleston, WV 25304 304-414-1239

Randall M. Albert, Chairman dep.wv.gov

August 27, 2021

Dorothy D. Dille 1516 5th Street New Brighton PA 15066

9489 0090 0027 6349 8920 74

RE: Intentional Deviation of New Deep Well

Tug Hill Operating, LLC - Breckenridge S-19HU

Dear Ma'am:

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

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

If you have any questions please call me at (304) 414-1239.

Sincerely,

Susan Rose Administrator



Dear Susan Rose:

The following is in response to your request for proof of delivery on your item with the tracking number: 9489 0090 0027 6349 8920 74.

Status:	Delivered, Left with Individual	
Status Date / Time:	September 1, 2021, 9:58 am	
Location:	NEW BRIGHTON, PA 15066	
Postal Product:	First-Class Mail®	
Extra Services:	Certified Mail™	
	Return Receipt Electronic	
Shipment Details		
Weight:	10lb, 1.0oz	
Recipient Signature		
Signature of Recipient:		
Address of Recipient:		

Note: Scanned image may reflect a different destination address due to Intended Recipient's delivery instructions on file.

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Oil and Gas Conservation Commission 601 57th Street SE, Charleston, WV 25304 304-414-1239

Randall M. Albert, Chairman dep.wv.gov

August 27, 2021

Darlene Marie Dille Waddingham 157 6th Ave Pittsburgh PA 15229

9489 0090 0027 6349 8920 81

RE: Intentional Deviation of New Deep Well

Tug Hill Operating, LLC – Breckenridge S-19HU

Dear Ma'am:

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

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

If you have any questions please call me at (304) 414-1239.

Sincerely,

Susan Rose

Administrator



Dear Susan Rose:

The following is in response to your request for proof of delivery on your item with the tracking number: 9489 0090 0027 6349 8920 81.

Status:	Delivered, Left with Individual		
Status Date / Time:	September 1, 2021, 9:24 am		
Location:	PITTSBURGH, PA 15229		
Postal Product:	First-Class Mail®		
Extra Services:	Certified Mail™		
	Return Receipt Electronic		
Shipment Details			
Weight:	10lb, 1.6oz		
Recipient Signature			
Signature of Recipient:	K724062		
Address of Recipient:	5764 DUE		

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Oil and Gas Conservation Commission 601 57th Street SE, Charleston, WV 25304 304-414-1239

Randall M. Albert, Chairman dep.wv.gov

August 27, 2021

Howard A. Shanor, Jr. 750 Corder Rd Apt 12 Warner Robins GA 31088

8P 05P8 P4E3 7500 0P00 P84P

RE: Intentional Deviation of New Deep Well

Tug Hill Operating, LLC - Breckenridge S-19HU

Dear Sir or Ma'am:

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

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

If you have any questions please call me at (304) 414-1239.

Sincerely,

Susan Rose

Administrator



Dear Susan Rose:

The following is in response to your request for proof of delivery on your item with the tracking number: 9489 0090 0027 6349 8920 98.

Item Details	
Status:	Delivered, Left with Individual
Status Date / Time:	September 3, 2021, 2:53 pm
Location:	WARNER ROBINS, GA 31088
Postal Product:	First-Class Mail®
Extra Services:	Certified Mail™
	Return Receipt Electronic
Shipment Details	
Weight:	10lb, 0.9oz
Recipient Signature	
Signature of Recipient:	C19 010 A.D.
Address of Recipient:	750 Corder Rd. Apt. 12

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Oil and Gas Conservation Commission 601 57th Street SE, Charleston, WV 25304 304-414-1239

Randall M. Albert, Chairman dep.wv.gov

August 27, 2021

Goldie I. Hinkle 14839 East Pike Rd Lot 34 Cambridge OH 43725 9489 0090 0027 6349 8921 04

RE: Intentional Deviation of New Deep Well

Tug Hill Operating, LLC - Breckenridge S-19HU

Dear Sir or Ma'am:

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

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If you have any questions please call me at (304) 414-1239.

Sincerely,

Susan Rose Administrator



Dear Susan Rose:

The following is in response to your request for proof of delivery on your item with the tracking number: 9489 0090 0027 6349 8921 04.

Item Details			
Status:	Delivered, Left with Individual		
Status Date / Time:	September 3, 2021, 12:42 pm		
Location:	CAMBRIDGE, OH 43725		
Postal Product:	First-Class Mail®		
Extra Services:	Certified Mail™		
	Return Receipt Electronic		
Shipment Details			
Weight:	10lb, 4.4oz		
Recipient Signature			
	Hum		
Signature of Recipient:	m dillu		
Address of Recipient:	14835 EPINE		

Note: Scanned image may reflect a different destination address due to Intended Recipient's delivery instructions on file.

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Oil and Gas Conservation Commission 601 57th Street SE, Charleston, WV 25304 304-414-1239

Randall M. Albert, Chairman dep.wv.gov

August 27, 2021

Victoria Petree 143 Pine St Salinas CA 93901

9489 0090 0027 6349 8921 11

RE: Intentional Deviation of New Deep Well

Tug Hill Operating, LLC - Breckenridge S-19HU

Dear Ma'am:

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

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If you have any questions please call me at (304) 414-1239.

Sincerely,

Susan Rose

Administrator



Dear Susan Rose:

The following is in response to your request for proof of delivery on your item with the tracking number: 9489 0090 0027 6349 8921 11.

Status:	Delivered, Left with Individual		
Status Date / Time:	September 7, 2021, 3:27 pm		
Location:	SALINAS, CA 93901		
Postal Product:	First-Class Mail®		
Extra Services:	Certified Mail™		
	Return Receipt Electronic		
Shipment Details			
Weight:	10lb, 1.3oz		
Recipient Signature		-	
Signature of Recipient:	A.		
Address of Recipient:	142		

Note: Scanned image may reflect a different destination address due to Intended Recipient's delivery instructions on file.

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Oil and Gas Conservation Commission 601 57th Street SE, Charleston, WV 25304 304-414-1239

Randall M. Albert, Chairman dep.wv.gov

August 27, 2021

Lynette Kragness 136 Century Lane Arroyo Grande, CA 32250

9489 0090 0027 6349 8921 28

RE: Intentional Deviation of New Deep Well

Tug Hill Operating, LLC - Breckenridge S-19HU

Dear Ma'am:

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

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If you have any questions please call me at (304) 414-1239.

Sincerely,

Susan Rose Administrator

encl;



Dear Susan Rose:

The following is in response to your request for proof of delivery on your item with the tracking number: 9489 0090 0027 6349 8921 28.

Status:	Delivered, Left with Individual			
Status Date / Time:	September 7, 2021, 12:12 pm			
Location:	ARROYO GRANDE, CA 93420			
Postal Product:	First-Class Mail®			
Extra Services:	Certified Mail™			
	Return Receipt Electronic			
Shipment Details				
Weight:	9lb, 15.5oz			
Recipient Signature				
Signature of Recipient:	~			
	e l			
Address of Recipient:				

Note: Scanned image may reflect a different destination address due to Intended Recipient's delivery instructions on file.

Thank you for selecting the United States Postal Service® for your mailing needs. If you require additional assistance, please contact your local Post Office™ or a Postal representative at 1-800-222-1811.

COUNTY	DISTRICT	TMP	OWNER	ADDRESS
				1320 S. University Blvd.
				Suite 500
Marshall	Cameron	3-18-3	TH EXPLORATION LLC	Fort Worth,TX 76107
				1320 S. University Blvd.
				Suite 500
Marshall	Cameron	3-18-3.1	TH EXPLORATION LLC	Fort Worth,TX 76107
				1320 S. University Blvd.
				Suite 500
Marshall	Cameron	3-19-72	TH EXPLORATION LLC	Fort Worth,TX 76107
				10000 Energy Drive
Marshall	Cameron	3-19-72	SOUTHWESTERN ENERGY	Spring, TX 77389
				6300 Bridge Point Pkwy
			EQUINOR USA ONSHORE PROPERTIES	Bldg 2, Suite 100
Marshall	Cameron	3-19-72	INC	Austin, TX 78730
				10000 Energy Drive
Marshall	Cameron	3-19-73	SOUTHWESTERN ENERGY	Spring, TX 77389
				6300 Bridge Point Pkwy
			EQUINOR USA ONSHORE PROPERTIES	Bldg 2, Suite 100
Marshall	Cameron	3-19-73	INC	Austin, TX 78730
				10000 Energy Drive
Marshall	Cameron	3-19-74	SOUTHWESTERN ENERGY	Spring, TX 77389
				6300 Bridge Point Pkwy
			EQUINOR USA ONSHORE PROPERTIES	Bldg 2, Suite 100
Marshall	Cameron	3-19-74	INC	Austin, TX 78730
				1320 S. University Blvd.
				Suite 500
Marshall	Cameron	3-19-76	TH EXPLORATION LLC	Fort Worth,TX 76107
				1320 S. University Blvd.
				Suite 500
Marshall	Cameron	3-19-77	TH EXPLORATION LLC	Fort Worth,TX 76107
			The second secon	1320 S. University Blvd.
				Suite 500
Marshall	Cameron	3-19-78	TH EXPLORATION LLC	Fort Worth,TX 76107
	54	3 23 70	THE CONTROL LEG	1320 S. University Blvd.
				Suite 500
Marshall	Cameron	3-19-79	TH EXPLORATION LLC	Fort Worth,TX 76107
		<u> </u>	THE LOWER THON LEG	1320 S. University Blvd.
				Suite 500
Marshali	Cameron	3-19-81	TH EXPLORATION LLC	Fort Worth,TX 76107
aronan			THE CALL CONTION LEG	1320 S. University Blvd.
				Suite 500
Marshall	Liberty	7-1-10	TH EXPLORATION LLC	
a. silan	Liberty	, , 10	THE ENTRICK LLC	Fort Worth,TX 76107 RECEIVED Office of Oil and

AUG 1 3 2021

WV Department of 1Environmental Protection

COUNTY	DISTRICT	TMP	OWNER	ADDRESS
				1320 S. University Blvd.
	1			Suite 500
Marshall	Liberty	7-1-11	TH EXPLORATION LLC	Fort Worth,TX 76107
				1320 S. University Blvd.
				Suite 500
Marshall	Liberty	7-1-12	TH EXPLORATION LLC	Fort Worth,TX 76107
				1320 S. University Blvd.
				Suite 500
Marshall	Liberty	7-1-13	TH EXPLORATION LLC	Fort Worth,TX 76107
				1320 S. University Blvd.
				Suite 500
Marshall	Liberty	7-1-15	TH EXPLORATION LLC	Fort Worth,TX 76107
				1320 S. University Blvd.
1				Suite 500
Marshall	Liberty	7-1-16	TH EXPLORATION LLC	Fort Worth,TX 76107
				1320 S. University Blvd.
				Suite 500
Marshall	Liberty	7-1-17	TH EXPLORATION LLC	Fort Worth,TX 76107
				1320 S. University Blvd.
				Suite 500
Marshall	Liberty	7-1-19	TH EXPLORATION LLC	Fort Worth,TX 76107
				1320 S. University Blvd.
				Suite 500
Marshall	Liberty	7-1-7	TH EXPLORATION LLC	Fort Worth,TX 76107
				1320 S. University Blvd.
	ļ			Suite 500
Marshall	Liberty	7-1-8	TH EXPLORATION LLC	Fort Worth,TX 76107
				1320 S. University Blvd.
				Suite 500
Marshall	Liberty	7-1-9	TH EXPLORATION LLC	Fort Worth,TX 76107
				10000 Energy Drive
Marshall	Liberty	7-2-4	SOUTHWESTERN ENERGY	Spring, TX 77389
				6300 Bridge Point Pkwy
			EQUINOR USA ONSHORE PROPERTIES	Bldg 2, Suite 100
Marshall	Liberty	7-2-4	INC	Austin, TX 78730
				1320 S. University Blvd.
				Suite 500
Marshall	Liberty	7-2-4	TH EXPLORATION LLC	Fort Worth,TX 76107
				3107 Broomsedge Way
Marshall	Liberty	7-2-4	ROBERT EDISON ANDREWS	Durham, NC 27712
Manufe - II		704	DONALD WAYNE AND DESCRIPTION	141 Youngs Lane
Marshall	Liberty	7-2-4	DONALD WAYNE ANDREWS	Wellsburg, WV 26070
Monshall	1.16	704	LANET LORDAINE AND SELVE DUCKE STORY	54 Bluegrass Avenue
Marshall	Liberty	7-2-4	JANET LORRAINE ANDREWS PUSKARICH	Middleburg, FL 32068

COUNTY	DISTRICT	TMP	OWNER	ADDRESS
			UNKNOWN HEIRS AND ASSIGNS OF	
Marshall	Liberty	7-2-4	RONDA OWENS SPRINGER	ADDRESS UNKNOWN
			UNKNOWN HEIRS AND ASSIGNS OF	
Marshall	Liberty	7-2-4	ROBIN OWENS	ADDRESS UNKNOWN
				10000 Energy Drive
Marshall	Liberty	7-7-8.1	SOUTHWESTERN ENERGY	Spring, TX 77389
				6300 Bridge Point Pkwy
			EQUINOR USA ONSHORE PROPERTIES	Bldg 2, Suite 100
Marshall	Liberty	7-7-8.1	INC	Austin, TX 78730
				10000 Energy Drive
Marshall	Liberty	7-7-9	SOUTHWESTERN ENERGY	Spring, TX 77389
				6300 Bridge Point Pkwy
			EQUINOR USA ONSHORE PROPERTIES	Bldg 2, Suite 100
Marshall	Liberty	7-7-9	INC	Austin, TX 78730
				1320 S. University Blvd.
				Suite 500
Marshall	Liberty	7-7-9	TH EXPLORATION LLC	Fort Worth,TX 76107
	:			10000 Energy Drive
Marshall	Liberty	7-7-9.1	SOUTHWESTERN ENERGY	Spring, TX 77389
				6300 Bridge Point Pkwy
			EQUINOR USA ONSHORE PROPERTIES	Bldg 2, Suite 100
Marshall	Liberty	7-7-9.1	INC	Austin, TX 78730
				1320 S. University Blvd.
				Suite 500
Marshall	Liberty	7-7-9.1	TH EXPLORATION LLC	Fort Worth,TX 76107
				123 Northwest Bowdoin Place
Marshall	Liberty	7-7-9.1	CURTIS W. LINT	Seattle, WA 98107
				5475 Columbus Sandusky Road N SR98
Marshall	Liberty	7-7-9.1	PENNY TEDROW AMBROSE	Marion, OH 43302
***************************************		, , 5.1	TENNI TEDNOT THIS NOSE	1516 5th Street
Marshall	Liberty	7-7-9.1	DOROTHY D. DILLE	New Brighton, PA 15066
			- Control of Control	157 6th Avenue
Marshall	Liberty	7-7-9.1	DARLENE MARIE DILLE WADDINGHAM	Pittsburgh, PA 15229
-			The state of the s	750 Corder Road, Apt. 12
Marshall	Liberty	7-7-9.1	HOWARD A. SHANOR, JR.	Warner Robins, GA 31088
			ROBERT EDISON ANDREWS A/K/A	3107 Broomsedge Way
Marshall	Liberty	7-7-9.1	EDISON ANDREWS	Durham, NC 27712
_	,			141 Youngs Lane
Marshall	Liberty	7-7-9.1	DONALD WAYNE ANDREWS	144.11.1 1411/100000
				Mellsburg, WV 26070 54 Bluegrass Avenue Middleburg, FL 32068
Marshall	Liberty	7-7-9.1	JANET LORRAINE ANDREWS PUSKARICH	Middleburg, FL 32068

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COUNTY	DISTRICT	TMP	OWNER	ADDRESS
			UNKNOWN HEIRS AND ASSIGNS OF	
Marshall	Liberty	7-7-9.1	RONDA OWENS SPRINGER	ADDRESS UNKNOWN
			UNKNOWN HEIRS AND ASSIGNS OF	
Marshall	Liberty	7-7-9.1	ROBIN OWENS	ADDRESS UNKNOWN
			UNKNOWN HEIRS AND ASSIGNS OF	
Marshali	Liberty	7-7-9.1	MARY ELLEN SAYRE	ADDRESS UNKNOWN
				14839 East Pike Road
				Lot 34
Marshall	Liberty	7-7-9.1	GOLDIE I. HINKLE	Cambridge, OH 43725
				143 Pine Street
Marshall	Liberty	7-7-9.1	VICTORIA PETREE	Salinas, CA 93901
				136 Century LN
Marshall	Liberty	7-7-9.1	LYNETTE KRAGNESS	Arroyo Grande, CA 32250
				1331 1st ST. N
				Apt. 503
Marshall	Liberty	7-7-9.1	ERNEST GRAHAM LOTT	Jacksonville Beach, FL 32250
			UNKNOWN HEIRS AND ASSIGNS OF	
Marshall	Liberty	7-7-9.1	MARJORIE JEAN FITZGERALD	ADDRESS UNKNOWN
			UNKNOWN HEIRS AND ASSIGNS OF	
Marshall	Liberty	7-7-9.1	LULILY KLEMME AKA LOU LILY KLEMME	ADDRESS UNKNOWN
			UNKNOWN HEIRS AND ASSIGNS OF	
Marshall	Liberty	7-7-9.1	HARRY ZINK AKA HARRISON YOUNG ZINK	ADDRESS UNKNOWN

Office of Environmental Protection

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Office of Oil and Gas

AUG 13 2021

WV Department of Environmental Protection

8 of 8 11/19/2021



August 4, 2021

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

RE: Breckenridge S-19HU

Subject: Road Crossing Letter

Dear Taylor:

Tug Hill Operating, LLC (THO) hereby submits this letter as confirmation that THO has obtained the right to drill, extract and produce the minerals under Marshall County Route 62 and 25/1 in the area reflected on the Breckenridge S-19HU well plat. THO has conducted a full title search in the relevant Court House to confirm its ownership under said County Route and is not currently aware of any recorded document that would suggest an ownership other than THO.

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

Sincerely,

Amy L. Morris

any Suovis

Permitting Specialist - Appalachia Region

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WV Department of Environmental Protection

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

Date of Notic	e Certification: 08/05/2021		API No. 47- 051 - Operator's Well No. Breckenridge S-19HU			
		W	ell Pad Na	me: Brecken	ridge	
Notice has b	een given:				to a state william	
	e provisions in West Virginia Code §	22-6A, the Operator has provid	ed the requ	ired parties v	with the Notice Forms listed	
	tract of land as follows:	E.	asting:	531,947.73		
State:	West Virginia Marshall			4,408,985.65		
County: District:	Carneron	Public Road Access	-	County Route 62		
Quadrangle:	Glen Easton 7.5'	Generally used farm	· .	CNX Land, LLC		
Watershed:	Grave Creek (HUC 10) & Laurel Run	Generally asea land	-			
watershed.	Crare Crock (160 1674 2007) Test					
it has provide information re of giving the requirements Virginia Code	the secretary, shall be verified and sled the owners of the surface describe equired by subsections (b) and (c), se surface owner notice of entry to su of subsection (b), section sixteen of \$ 22-6A-11(b), the applicant shall to have been completed by the applican	need in subdivisions (1), (2) and ction sixteen of this article; (ii) to the rvey pursuant to subsection (a), of this article were waived in when the proof of and certify to the	(4), subse hat the requ section te riting by the	ction (b), sed uirement was in of this arti ne surface ov	ction ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice wner; and Pursuant to Wes	
that the Oper	West Virginia Code § 22-6A, the Oprator has properly served the required	erator has attached proof to this d parties with the following:	Notice Ce	rtification	OOG OFFICE USE ONLY	
☐ 1. NOT	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRE SEISMIC ACTIVITY WAS O			☐ RECEIVED/ NOT REQUIRED	
■ 2. NOT	TICE OF ENTRY FOR PLAT SURV	TEY or D NO PLAT SURVEY	WAS CO	NDUCTED	☐ RECEIVED	
☐ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRE NOTICE OF ENTRY FOR PL WAS CONDUCTED or			☐ RECEIVED/ NOT REQUIRED	
		☐ WRITTEN WAIVER BY (PLEASE ATTACH)	SURFAC	E OWNER		
■ 4. NOT	TICE OF PLANNED OPERATION	RECE Office of O	VED Il and Gas		☐ RECEIVED	
■ 5. PUB	BLIC NOTICE	omice of a	1 3 2021		☐ RECEIVED	
■ 6. NOT	TICE OF APPLICATION	WV Depa	1	on	☐ RECEIVED	

Required Attachments:

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

WW-6AC (1/12)

Certification of Notice is hereby given:

, have read and understand the notice requirements within West Virginia Code § 22-THEREFORE, I Amy L. Morris 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, 380 Southpointe Boulevard, Plaza II, Suite 200 Address: Well Operator: Tug Hill Operating, LLC Canonsburg, PA 15317 By: Amy L. Morris Facsimile: 724-338-2030 Its: Permitting Specialist - Appalachia Region Telephone: 724-749-8388 Email: amorris@tug-hillop.com

NOTARY SEAL

Commonwealth of Pennsylvania - Notary Seal Susanne Deliere, Notary Public Washington County My commission expires January 15, 2025 Commission number 1382332

Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this 5th day of luquet 202,

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 depprivacyofficer@wv.gov.

> RECEIVED. Office of Oil and Gas

AUG 1 3 2021

WV Department of Environmental Protection

WW-6A (9-13)

API NO. 47- 051 OPERATOR WELL NO, Breckenridge S-19HU Well Pad Name: Breckenridge

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

Date of Notice: 8/10/2021 Date Permit Application Filed: 8/11/2021 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)	
Notice of: PERMIT FOR ANY CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT	
✓ PERMIT FOR ANY	
WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT	
WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT	
Delivery method pursuant to West Virginia Code § 22-6A-10(b)	
☐ PERSONAL ☐ REGISTERED ☑ METHOD OF DELIVERY THAT REQUIRES A	
SERVICE MAIL RECEIPT OR SIGNATURE CONFIRMATION	
SERVICE MAIL RECEIFFOR SIGNATURE CONFIRMATION	
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 the surface tract or which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying toil 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 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 at 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 use 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 a 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	or sed ny d to
☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice ☑ Well Plat Notice is hereby provided to:	
☑ SURFACE OWNER(s) / ☑ COAL OWNER OR LESSEE	
Name: CNX Land, LLC (Well Pad and Access Road) Name: CNX Land, LLC	
Address: 1000 Consol Energy Drive Address: 1000 Consol Energy Drive	
Canonsburg, PA 15317 Canonsburg, PA 15317	
Name: COAL OPERATOR	
Address: Name: Marshall County Coal Resources, Inc. Attn: Steve, Blair	
Address: 46226 National Road	
SURFACE OWNER(s) (Road and/or Other Disturpance) St. Clairsville, OH 43950	
Name: Kevin R. & Shelly Jo Evans	
Address: 3820 New Bethel Road AND/OR WATER PURVEYOR(s)	
Cameron, WV 26033 Name: 'see attached	
Name: David L. & Arlanne R. Robinson Address:	
Address: 3518 New Bethel Road	
Cameron, WV 26033	
SURFACE OWNER(s) (Impoundments or Pits) Name:	
Name: Address:	
Address: *Please attach additional forms if necessary Office of	CEIVED of Oil and Gas
A DESCRIPTION OF THE PROPERTY	

WV Department of Environmental Protection 11/19/2021

WW-6A (9-13)

API NO. 47- 051		
OPERATOR WE	LL NO.	Breckenridge S-19HU
Well Pad Name:	Breckenrid	ge

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

Noti	ice Time Requirement: notice shal	Il be provided no later the	an the filing date of permit application.	
	e of Notice: 8/5/2021 Date Permi ice of:	t Application Filed: 8/6/	2021	
V	PERMIT FOR ANY WELL WORK	CERTIFICATE OF API CONSTRUCTION OF	PROVAL FOR THE AN IMPOUNDMENT OR PIT	
Deli	very method pursuant to West V	irginia Code § 22-6A-1	0(b)	
	PERSONAL REGISTI SERVICE MAIL		HOD OF DELIVERY THAT REQUIRES A EIPT OR SIGNATURE CONFIRMATION	
sedin the soil a descooper more well impo have prov prop subs reco prov Cod	ment control plan required by section surface of the tract on which the well and gas leasehold being developed by ribed in the erosion and sediment contator or lessee, in the event the tract of the coal seams; (4) The owners of recontator or lessees, in the event the tract of the coal seams; (4) The owners of recontant or pit as described in section as water well, spring or water supply ride water for consumption by human cost well work activity is to take platection (b) of this section hold interested of the sheriff required to be main rision of this article to the contrary, note R. § 35-8-5.7.a requires, in part, the	is seven of this article, and is or is proposed to be loc the proposed well work, introl plan submitted pursu f land on which the well pred of the surface tract or traction to the placement, const on nine of this article; (5) source located within one is or domestic animals; an ince. (c)(1) If more than three in the lands, the application of the placement of section of the section of the placement of the lands in the lands in the lands the application of the placement of the lands in the operator shall also part of the proposed to the proposed to the lands in the operator shall also part of the proposed to the lands in the operator shall also part of the proposed to the lands in the operator shall also part of the proposed to the proposed to the lands in the operator shall also part of the proposed to the proposed	or signature confirmation, copies of the application, the the well plat to each of the following persons: (1) The cated; (2) The owners of record of the surface tract or traif the surface tract is to be used for roads or other land diant to subsection (c), section seven of this article; (3) Toproposed to be drilled is located [sic] is known to be uncated overlying the oil and gas leasehold being developed truction, enlargement, alteration, repair, removal or abandany surface owner or water purveyor who is known to be thousand five hundred feet of the center of the well paid (6) The operator of any natural gas storage field withing the tenants in common or other co-owners of interests deant may serve the documents required upon the person desight, article one, chapter eleven-a of this code. (2) Not to notice to a landowner, unless the lien holder is the land provide the Well Site Safety Plan ("WSSP") to the surfage as provided in section 15 of this rule.	owners of record of acts overlying the disturbance as the coal owner, derlain by one or d by the proposed adonment of any the applicant to d which is used to a which the escribed in escribed in the twithstanding any downer. W. Va.
	••	ice	e ☑ Well Plat Notice is hereby provided to:	
	URFACE OWNER(s) ne: CNX Land, LLC (Well Pad and Access Roa	d\	☐ COAL OWNER OR LESSEE Name: CNX Land, LLC	
	ress: 1000 Consol Energy Drive	<u></u>	Address: 1000 Consol Energy Drive	
	nsburg, PA 15317		Canonsburg, PA 15317	
Nan			COAL OPERATOR	
	ress:		Name: Marshall County Coal Resources, Inc. Attn: Steve Blair	RECEIVED Office of Oil and Gas
, , , ,			Address: 46226 National Road	Official of the second
IZI ST	URFACE OWNER(s) (Road and/or	Other Disturbance)	St. Clairsville, OH 43950	AUG 1 3 2021
	1e: Kevin R. & Shelly Jo Evans	,,	SURFACE OWNER OF WATER WELL	
	ress: 3820 New Bethel Road		AND/OR WATER PURVEYOR(s)	WV Department of Environmental Protection
	eron, WV 26033		Name: *see attached	Environmentalitiotosis
Nan	ne: David L. & Arianne R. Robinson		Address:	
Add	ress: 3518 New Bethel Road			
	eron, WV 26033		OPERATOR OF ANY NATURAL GAS STOR	AGE FIELD
	JRFACE OWNER(s) (Impoundme		Name:	
Nan	ne:		Address:	
Add	ress:			
			*Please attach additional forms if necessary	

API NO. 47-051

OPERATOR WELL NO. Breckennings S-19Hu
Well Pad Name: Breckennings

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 crosion 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.wy.gov/pitcoand-gas/pages/default.aspx.

Well Location Restrictions

AUG 1 3 2021

Pursuant to W. Va. Code § 22-6A-12. Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located with the section 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 bundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

API NO. 47-051

OPERATOR WELL NO. Breckenridge S-19HU

Well Pad Name: Breckenridge

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

RECEIVED
Chief. Office of Oil and Gas

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

AUG 1 3 2021

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.

OPERATOR WELL NO. Breckenridge S-19HU

Well Pad Name: Breckenridge

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

AUG 1 3 2021

WW-6A (8-13)

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

Notice is hereby given by:

Well Operator: Tug Hill Operating, LLC

Telephone: 724-749-8388

Email: amorris@tug-hillop.com (LV)U

Address: 380 Southpointe Boulevard, Plaza II, Suite 200

Canonsburg, PA 15317

Facsimile: 724-338-2030

Oil and Gas Privacy Notice:

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

Commonwealth of Pennsylvania - Notary Seal Susanne Deliere, Notary Public Washington County

My commission expires January 15, 2025 Commission number 1382332

Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this

day of alegiest 20

Notary Public

My Commission Expires

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Office of Oil and Gas

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Exhibit WW-6A

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

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

Well: Breckenridge S – 19HU

District: Cameron

State: WV

There is one (1) residence, no business or commercial sites, no churches, no schools or no emergency facilities within two-thousand feet (2,000') of the above referenced well location.

Residence (#1)

TM 3-19-78 CNX Land, LLC

Phone: 724-485-4000 Physical Address:

Unknown - Possible Unoccupied Home

or Hunting Cabin
Tax Address:

1000 Consol Energy DR Canonsburg, PA 15317-6506

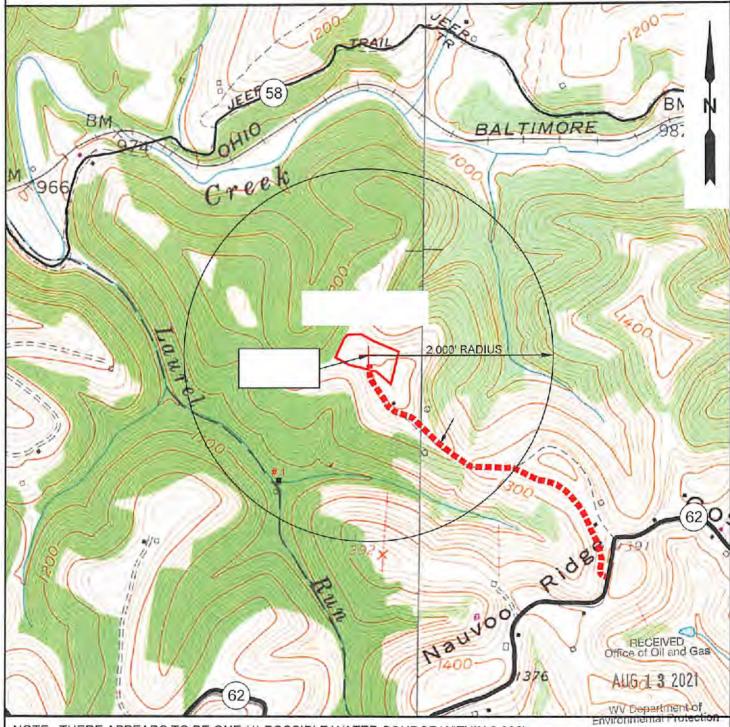
RECEIVED
Office of Oil and Gas

AUG 1 3 2021

WW-6A

PROPOSED BRECKENRIDGE S - 19HU

SUPPLEMENT PG. 1B



NOTE: THERE APPEARS TO BE ONE (1) POSSIBLE WATER SOURCE WITHIN 2,000'.



siswv.com.	
254 East Seckley Bypass Beckley, WV 25801 304,255.	5296
12 Kanawha Boulevard, East Charleston, WY 25301 304.	346.3952
Vanhom Drive P.O. Box 150 Glenville, WV 26351 304.	67,5534

TOPO S	ECTION:	OPER	ATOR:
GLEN EA	STON 7.5'	PREPARED FOR	
COUNTY	DISTRICT	380 SOUTHPOI	NTE BLVD
MARSHALL	CAMERON	SUITE 200 CANONSBURG	PA 15317
DRAWN BY	JOB NO.	DATE	SCALE
K.G.M.	9026	04/08/2021	1" - 1000



Operator Well No. Breckenridge S-19HU

WW-6A3 (1/12)

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

Date of Notice: 12/1/2020 Date of Planned Entry: 12/7/2020 Delivery method pursuant to West Virginia Code § 22-6A-10a PERSONAL REGISTERED METHOD OF DELIVER SERVICE MAIL RECEIPT OR SIGNATION TO the surface tract to conduct any plat surveys required pursuant to this article but no more than forty-five days prior to such entry to: (1) The surface owner of beneath such tract that has filed a declaration pursuant to section thirty-six, article owner of minerals underlying such tract in the county tax records. The notice shall be a declaration of the surface owner of the surface owner of minerals underlying such tract in the county tax records. The notice shall be a declaration of the surface owner of the surface owner of the surface owner of minerals underlying such tract in the county tax records.	FURE CONFIR on, the operator le. Such notice s such tract; (2) the six, chapter to the six, chapter to the six of the six ploration and properties.	MATION shall provide notice of shall be provided at leas to any owner or lessee owenty-two of this code; atement that copies of the roduction may be obtain	t seven days of coal seams and (3) any the state Erosion and from the
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and Sediment Control Manual and the statutes and rules related to oil and gas ex Secretary, which statement shall include contact information, including the addrenable the surface owner to obtain copies from the secretary.			
Notice is hereby provided to:	Parantanya		
	WNER OR LE	SSEE	
Name: CNX Land, LLC (Well Pad and Access Road) Name: CNX Land			
	Consol Energy Drive		
Canonsburg, PA 15317 Canonsburg, PA 1	5317		Office of Oil and Gas
Name: Kevin R & Shelly Jo Evans (Access Road)	0.000000000		RECEIVED GAS
	AL OWNER(s)		Other o
Cameron, WV 26033 Name: Onward	E. Burge		AUG 1 3 2021
Name: David L. & Arianne R. Robinson Address: RD 3			Aug =
Address: 3518 New Bethel Road Cameron, WV 260			Wy Department of
Cameron, WV 26033 *please attach ad	ditional forms if ne	eessary	WV Department of Environmental Protection
Notice is hereby given: Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the use a plat survey on the tract of land as follows: State: West Virginia Approx. Latitude	& Longitude:	39.83027651; -80.62685846	try to conduct
County: Marshall Public Road Acc District: Cameron Watershed:	288:	County Route 62	-18.5
	200.	Grave Creek (HUC 10) and Lau	irei Run
Quadrangle: Glen Easton 7.5' Generally used fa	irm name:	CNX Land, LLC	
Copies of the state Erosion and Sediment Control Manual and the statutes and rumay be obtained from the Secretary, at the WV Department of Environmental Procharleston, WV 25304 (304-926-0450). Copies of such documents or additional obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/defa Notice is hereby given by:	rotection headqual information re	arters, located at 601 5	7th Street, SE,
Well Operator: Tug Hill Operating, LLC Address: 38	O Southpointe Boulev	ard, Plaza II, Suite 200	
Telephone: 724-749-8388 Ca	enonsburg, PA 15317		
Email: amorris@tug-hillop.com Facsimile: 72	4-338-2020		

Oil and Gas Privacy Notice:

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

11/19/2021

WW-6A3 Attachment Breckenridge Well Pad

	Tau = 1 1
Jan Marie Crego	Nina K. Fletcher
2110 Plum Street	45 Briarwood Drive
Parkersburg, WV 26101	Wheeling, WV 26003
Leon McCard	Gary Briggs
25 Honour Cir NW	1508 26th Street
Atlanta, GA 30305	Cody, WY 82414
Jeff and Connie Briggs	Roger L. Briggs
803 Meadow Lane Ave Apt 5	908 Amble Court
Cody, WY 42414	Harrington, DE 19952
Thomas A. Briggs	Julia A. Briggs
996 Tunnel Hill Road	8154 W. Ohio State Lane NW
Cameron, WV 26033	Lancaster, OH 43130
Deena J. Palomo	Jerrilyn Litts
20 Maxwell Street, Apartment 4	5582 Fairview Street
Hebron, IN 46341	Stevensville, MI 49127
Douglas Briggs	Gerri A Bannister
PO Box 1416	508 Richards Ave
Gillette, WY 82717	Gillette, WY 82717
John Briggs	Noble Marcellus LP
PO Box 2008	15601 North Dallas Parkway, Suite 900
Richland, WA 99352	Addison, TX 75001
Meridius Ventures LLC	Hasan's Ventures LLC
PO Box 1099	PO Box 1099
Ripley, WV 25271	Ripley, WV 25271
Bounty Minerals LLC	Goshorn Ridge, LLC
777 Main Street, Suite 3400	112 Algonquin Trace
Fort Worth, TX 76102	Wheeling, WV 26003

Office of oil and cas

Office of oil and cas

AUG 13 2021

AUG 13 2021

Environmental Protection

WW-6A5 (1/12)

Operator Well No. Breckenninge S-19HU

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

Oelivery met	hod pursuant to West Virginia Co	de 8 22	-6A-16(c)		
	nou pursuant to west virginia ec	- S 22	-on-ru(c)		
CERTI	FIED MAIL		HAND		
RETUI	RN RECEIPT REQUESTED		DELIVERY		
eturn receipt ne planned of equired to be rilling of a amages to the d) The notice f notice.	requested or hand delivery, give the operation. The notice required by a provided by subsection (b), section norizontal well; and (3) A proposed as surface affected by oil and gas operate surface affected by this section shall be good by provided to the SURFACE Of the surface of the surface affected by this section shall be good by provided to the SURFACE Of the s	e surface this sub- ten of d surface erations iven to WNER	e owner whose land section shall inclused this article to a surf- e use and compen- to the extent the dather surface owner :	d will be used for de: (1) A copy ace owner whose sation agreemer amages are com	cation, an operator shall, by certified main or the drilling of a horizontal well notice of of this code section; (2) The information see land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter sted in the records of the sheriff at the time
at the addres	s listed in the records of the sheriff a		ne of notice):	N. 10 20 11 11 20 11 11 2	
	id, LLG	1	Name:	Kevin R. and Shelly J.	o Evans "See Attachea"
		/		2020 Nov. Delball	Deed
ddress: 1000 Canonsburg, PA otice is her ursuant to W peration on	Consol Energy Drive 15317 by given: /est Virginia Code § 22-6A-16(c), not the surface owner's land for the pur	otice is	Addres Cameror hereby given that the drilling a horizontal	al well on the tra	well operator has developed a planned act of land as follows:
ddress: 1000 Canonsburg, PA lotice is her ursuant to W peration on tate: ounty:	Consol Energy Drive 15317 Part Virginia Code § 22-6A-16(c), not the surface owner's land for the pur West Virginia Marshall	otice is pose of	Addres Cameron hereby given that to drilling a horizonta UTM NAD 8	he undersigned all well on the tra Easting: Northing:	well operator has developed a planned act of land as follows: 531,947.73 4,408,935.65
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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 RECEIVED Gas DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

AUG 1 3 2021 WV Department of Environmental Protection

11/19/2021

Additional Notice for WW-6A5 Breckenridge Pad

David L. & Arianne R. Robinson 3518 New Bethel Road Cameron, WV 26033

Office of Oil and Gas

AUG 13 2021

WV Department of Environmental Protection



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

January 8, 2021

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 Breckenridge Pad, Marshall County Breckenridge S-19HU Well site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2020-0398 issued to Tug Hill Operating for access to the State Road for a well site located off Marshall County Route 62 SLS MP 3.81.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a DISTRICT WIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated October 1, 2018.

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

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

Office of Oil and Gas

AUG 1 3 2021

WV Department of Environmental Protection

11/19/2021



PLANNED ADDITIVES TO BE USED IN FRACTURING OR STIMULATION

Breckenridge Wells

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

GBW-20C Hemicellulase Breaker Breaker - Water None

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

Quaternary ammonium chloride

CAS# 007173-51-5

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

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

FRAC SAND Silica Sand (various Mesh Proppant Crystalline silica (quartz)

sizes)

The second secon

CAS# 14808-60-7

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

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

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

FRW-18 Friction Reducer Hydrotreated light distillate

CAS# 064742-47-8

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

Diethylene glycol - CAS# 000111-46-6

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AUG 1 3 2021

