

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

Re: Permit approval for BRECKENRIDGE S-20HU 47-051-02399-00-00

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

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

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

James A. Martin Chief

Operator's Well Number: BRECKENRIDGE S-20HU Farm Name: CNX LAND LLC U.S. WELL NUMBER: 47-051-02399-00-00 Horizontal 6A New Drill Date Issued: 11/17/2021

Promoting a healthy environment.



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 #47-051-02399

COMPANY: Tug Hill Operating, LLC

FARM: <u>CNX Land, LLC</u>

Breckenridge S-20HU

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</u> <u>Point Pleasant completion. Pooling Docket No. 302-306.</u>

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

- 1. Comments to Notice of Deviation filed? Yes. Docket No. 302-306.
- 2. Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owners? Yes
- 3. Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of all deep wells: **yes
- 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, Mar Co 2 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-19HU 47-051-02398; Breckenridge S-21HU 47-051-02400; Breckenridge S-22HU 47-051-02401; Breckenridge S-23HU 47-051-02402

API Number:

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.

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11/19/2021

API NO. 47-051705102399

OPERATOR WELL NO. Breckennidge S-20HU Well Pad Name: Breckennidge

WW-6B (04/15)

18)

CASING AND TUBING PROGRAM

ТҮРЕ	<u>Size</u> (in)	<u>New</u> <u>or</u> Used	<u>Grade</u>	Weight per ft. (lb/ft)	<u>FOOTAGE: For</u> <u>Drilling (ft)</u>	INTERVALS: Left in Well (ft)	<u>CEMENT:</u> <u>Fill-up</u> (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#	3,000'	3,000' -⁄	2113ft^3(CTS)
Intermediate 2	9 5/8"	NEW	HPP110	47#	10,834'	10,834' 🗸	3542ft^3(CTS)
Production	5 1/2"	NEW	P110	23#	24,319'	24,319' /	5755ft^3(CTS)
Tubing	2 7/8"	NEW	P110	6.5#	11,401'		
Liners							

e	B.S.	6-1	7-21

TYPE	Size (in)	Wellbore Diameter (in)	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	<u>Burst Pressure</u> (psi)	Anticipated Max. Internal Pressure (psi)	<u>Cement</u> <u>Type</u>	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	30#	36#	1.0	2,333	1,866	CLASS A	1.2
Fresh Water/Coa	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	
Sizes:	N/A	
Depths Set:	N/A	RECEIVED Office of Oil and Ga

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P4st/49/2021

WW-6B (10/14) API NO. 47- 051 -OPERATOR WELL NO. Breckenridge S-20HU Well Pad Name: Breckenridge

B.S 6-17-21

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 (10,901'). 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 29,750,000 lb. proppant and 22,680,000 gallons of water. Max rate = 80bpm; max psi = 9,000#.

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 + .75 gal/100sk FP-13L Tail: 25:75 (Poz:Class H) + .3% R-3 + .3%

25) Proposed borehole conditioning procedures:

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

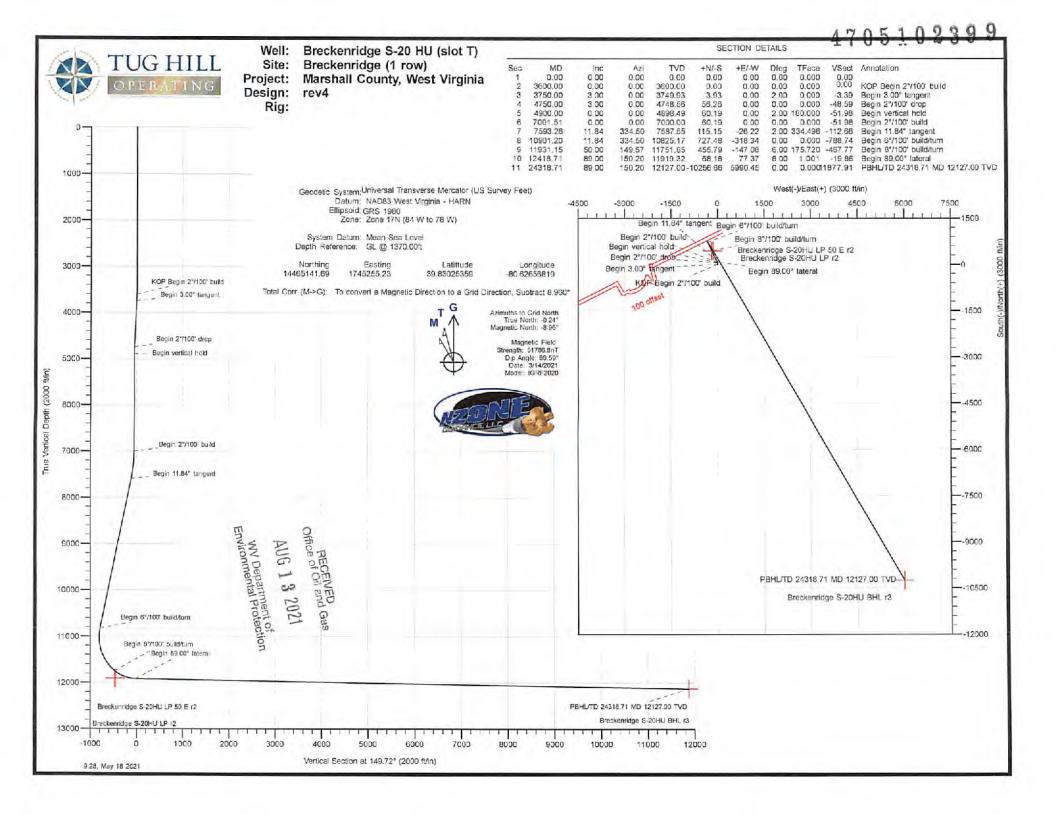
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*Note: Attach additional sheets as needed.

Past/19/2021





Tug Hill Operating, LLC Casing and Cement Program

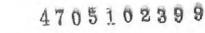
Breckenridge S-20HU

	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"	3,000'	CTS				
Intermediate 2	9 5/8"	HPP110	12 1/4"	10,834'	CTS				
Production	5 1/2"	HCP110	8 1/2"	24,319'	CTS				

Cement

Surface:	Premium NE-1 + 2% bwoc CaC12 + 46.5% Fresh Water - Surface Cement mixed at 15.6 ppg, Y=1.2
Intermediate 1:	Premium NE-1 + 1% bwoc CaC12 + 46.5% Fresh Water - Intermediate Cement mixed at 15.6 ppg, Y=1.2
Intermediate 2:	Premium NE-1 + 1% bwoc CaC12 + 46.5% Fresh Water – Intermediate Cement mixed at 15.6 ppg, Y=1.99
Production:	50:50 Poz: Premium NE-1 + .1% bwoc ASA-301 + 60lb/sk ASCA-1 + .35% bwoc BA-10A + .25% bwoc MPA-170, 44 lb sack + .5% bwoc R-3 + .75 gals/100sk FP-13L – Production Cement mixed at 15.2ppg, Y = 1.18

11/19/2021





Database: Company: Project: Site: Well: Wellbore: Design:	DB_Dec2220 Tug Hill Opera Marshall Cour Breckenridge Breckenridge Original Hole rev4	ating LLC nty, West Virg (1 row)		Local Co-ordina TVD Reference: MD Reference: North Referenc Survey Calculat	1:	Well Breckenridge S- GL @ 1370.00ft GL @ 1370.00ft Grid Minimum Curvature	20 HU (SIGTT)
Project	Marshall Count	ty, West Virgi	inia				
Geo Datum:	Universal Transv NAD83 West Vir Zone 17N (84 W	ginia - HARN	or (US Survey Feet) I	System Datum:		Mean Sea Level	_
Site	Breckenridge (1 row)					
Site Position: From: Position Uncertainty:	Lat/Long	0.00 ft	Northing: Easting: Slot Radius:	14,465,184.76 1,745,068.18 13-3/16	usft Longit		39.83037401 -80.62723379
Well	Breckenridge S	-20 HU (slot	T)				
Well Position Position Uncertainty Grid Convergence:	+N/-S +E/-W	0.00 ft 0.00 ft 0.00 ft	Northing: Easting: Wellhead Ele	1,745	,141.69 usft ,255.23 usft ft	Latitude: Longitude: Ground Level:	39.6302535 -80.6265681 1,370.00 ft
Wellbore	Original Hole						
Magnetics	Model Nan	ne	Sample Date	Declination (°)		Dip Angle (°)	Field Strength (nT)
	IGR	F2020	3/14/2021	-1	1.721	66.586	51,786.79563587
Design	rev4						
Audit Notes: Version:			Phase:	PLAN	Tie On De	pth: 0.00	
Vertical Section:			From (TVD) (ft) 0.00	+N/-S (ft) 0.00	+E/-W (ft) 0.00	Direction (°) 149.72	
Plan Survey Tool Pro Depth From (ft) 1 0.00	Depth To (ft) S	Date Survey (Well rev4 (Original		Tool Name	Rem	arks	

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Well Breckenridge S-20 HU (slot T) Local Co-ordinate Reference: DB_Dec2220_v16 Database: Company: Tug Hill Operating LLC TVD Reference: GL @ 1370.00ft Marshall County, West Virginia GL @ 1370.00ft Project: **MD** Reference: Breckenridge (1 row) Grid Site: North Reference: Breckenridge S-20 HU (slot T) Minimum Curvature Well: Survey Calculation Method: Wellbore: Original Hole rev4 Design:

Plan 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	
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.000	
3,750.00	3.00	0.00	3,749.93	3.93	0.00	2.00	2.00	0.00	0.000	
4,750.00	3.00	0.00	4,748.56	56.26	0.00	0.00	0.00	0.00	0.000	
4,900.00	0.00	0.00	4,898.49	60.19	0.00	2.00	-2.00	0.00	180.000	
7,001.51	0.00	0.00	7.000.00	60.19	0.00	0.00	0.00	0.00	0.000	
7,593.26	11.84	334.50	7,587.55	115.15	-26.22	2.00	2.00	-4.31	334.496	
10,901.20	11.84	334.50	10,825.17	727.48	-318.34	0.00	0.00	0.00	0.000	
11,931.15	50.00	149.57	11,751.85	455.79	-147.08	6.00	3.71	17.00	175.720	
12,418.71	89.00	150.20	11,919.32	68.18	77.37	8.00	8.00	0.13	1.001	
24,318,71	89.00	150.20	12,127.00	-10,256.66	5,990.45	0.00	0.00	0.00	0.000	Breckenridge S-20HI

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4705102399

Planning Report - Geographic

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Breckenridge S-20 HU (slot T) GL @ 1370.00ft GL @ 1370.00ft Grid Minimum Curvature

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WV Department of Environmental Protection

 Database:
 DB_Dec2220_v16

 Company:
 Tug Hill Operating LLC

 Project:
 Marshall County, West Virginia

 Site:
 Breckenridge (1 row)

 Well:
 Breckenridge S-20 HU (slot T)

 Wellbore:
 Original Hole

 Design:
 rev4

Planned Survey

	nclination	Azimuth	Vertical Depth (ft)	+N/-S	+E/-W	Map Northing (usft)	Map Easting (usft)	1.00.0	1 Statistics
(ft)	(°)	(*)	(14)	(ft)	(ft)	(usic)		Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,465,141.69	1,745,255.23	39,83025359	-80.626568
100.00	0.00	0.00	100,00	0.00	0.00	14,465,141,69	1,745,255.23	39.83025359	-80.626568
200.00	0.00	0.00	200.00	0.00	0.00	14,465,141,69	1,745,255.23	39,83025359	-80.626568
300,00	0.00	0.00	300.00	0.00	0.00	14,465,141.69	1,745,255,23	39.83025359	-80,626568
400.00	0.00	0.00	400.00	0.00	0.00	14,465,141.69	1,745,255.23	39,83025359	-80,626568
500.00	0.00	0.00	500.00	0.00	0.00	14,465,141.69	1,745,255.23	39,83025359	-80.626568
600.00	0.00	0.00	600.00	0.00	0.00	14,465,141.69	1,745,255.23	39.83025359	-80,626568
700.00	0.00	0.00	700.00	0.00	0.00	14,465,141.69	1,745,255.23	39.83025359	-80.626568
800.00	0.00	0.00	800.00	0.00	0.00	14,465,141.69	1,745,255.23	39.83025359	-80.626568
900.00	0.00	0.00	900.00	0.00	0.00	14,465,141.69	1,745,255.23	39.83025359	-80.62656
1,000.00	0.00	0.00	1,000.00	0.00	0.00	14,465,141.69	1,745,255.23	39,83025359	-80.62656
1,100.00	0.00	0.00	1,100.00	0.00	0.00	14,465,141.69	1,745,255.23	39.83025359	-80.62656
1 200,00	0.00	0.00	1,200.00	0.00	0.00	14,465,141.69	1,745,255.23	39.83025359	-80.52656
1,300.00	0.00	0.00	1,300.00	0.00	0.00	14,465,141.69	1,745,255.23	39.83025359	-80,626568
1,400.00	0.00	0.00	1,400.00	0.00	0.00	14,465,141.69	1,745,255.23	39,83025359	-80.62656
1.500.00	0,00	0,00	1,500.00	0.00	0.00	14,465,141.69	1,745,255,23	39,83025359	-80.62656
1,600,00	0.00	0.00	1,600.00	0.00	0.00	14,465,141.69	1,745,255.23	39.83025359	-80,62656
1,700.00	0.00	0.00	1,700.00	0.00	0.00	14,465,141.69	1,745,255,23	39,83025359	-80.62656
1,800.00	0.00	0.00	1,800.00	0.00	0.00	14,465,141.69	1,745,255.23	39.83025359	-80.62656
1,900.00	0.00	0.00	1,900.00	0.00	0.00	14,465,141.69	1,745,255,23	39.83025359	-80.62656
2,000.00	0.00	0.00	2,000.00	0.00	0.00	14,465,141.69	1,745,255.23	39.83025359	-80.62656
2,100.00	0.00	0.00	2,100.00	0.00	0.00	14,465,141.69	1,745,255,23	39.83025359	-80.62656
2,200.00	0.00	0.00	2,200.00	0.00	0.00	14,465,141.69	1,745,255.23	39.83025359	-80.62656
2,300.00	0.00	0.00	2,300.00	0.00	0.00	14,465,141.69	1,745,255.23	39.83025359	-80.62656
2,400.00	0.00	0.00	2,400.00	0.00	0.00	14,465,141.69	1,745,255.23	39.83025359	-80.62656
2,500.00	0.00	0.00	2,500.00	0.00	0.00	14,465,141.69	1,745,255.23	39.83025359	-80.626566
2,600.00	0.00	0.00	2,600.00	0.00	0.00	14,465,141.69	1,745,255.23	39.83025359	-80,626568
2,700.00	0.00	0.00	2,700.00	0.00	0.00	14,465,141.69	1,745,255.23	39.83025359	-80.626568
2,800.00	0.00	0.00	2.800.00	0.00	0.00	14,465,141.69	1,745,255.23	39.83025359	-80.626568
2,900.00	0.00	0.00	2,900.00	0.00	0.00	14,485,141.69	1,745,255.23	39,83025359	-80.626561
3,000,00	0.00	0.00	3,000.00	0.00	0,00	14,465,141.69	1,745,255,23	39,83025359	-80,62656
3,100.00	0.00	0.00	3,100.00	0.00	0.00	14,435,141.69	1,745.255.23	39,83025359	-80,62656
3,200,00	0.00	0.00	3,200.00	0.00	0.00	14,465,141.69	1,745.255.23	39.83025359	-80.62656
3,300,00	0.00	0.00	3,300.00	0.00	0.00	14,465,141.69	1,745,255.23	39,83025359	-80,62656
3,400.00	0.00	0.00	3,400.00	0.00	0.00	14,485,141.69	1,745,255.23	39.83025359	-80.626561
3,500,00	0.00	0.00	3,500.00	0.00	0.00	14,465,141.69	1,745,255,23	39,83025359	-80.626561
3,600.00	0.00	0.00	3,600.00	0.00	0.00	14,465,141,69	1,745,255,23	39,83025359	-80,62656
	2º/100' buil			3.2.2	1.00	14100111100	11 Joirooirp	addine and a	
3,700.00	2.00	0.00	3,699.98	1.75	0.00	14,465,143,44	1,745,255.23	39,83025838	-80,62656
3,750.00	3.00	0.00	3,749.93	3.93	0.00	14,465,145.62	1.745,255.23	39,83025437	-80.626568
and the second sec		0.00	0,740,00	5.55	0.00	14,405,145.62	1,745,255.25	39,63026437	-00,020300
Begin 3.00	and the second sec	0.00	2 700 00		0.00				
3,800.00	3.00	0.00	3,799.86	6.54	0.00	14.465,148.23	1,745,255.23	39.83027156	-80.626568
4,000.00	3.00		3,899.73	11,78	0.00	14,465,153,47	1,745,255.23	39,83028593	-80.626568
- CAN - CAN - CAN	3.00	0.00	3,999.59	17.01	0.00	14,465,158.70	1,745,255.23	39.83030031	-80.62656
4,100.00	3.00	0.00	4,099.45	22.24	0.00	14.465,163.94	1,745,255.23	39.83031468	-80.62656
4,200.00	3.00	0.00	4,199.31	27,48	0.00	14,465,169,17	1,745,255.23	39.83032905	-80.626567
4,300.00	3.00	0.00	4,299.18	32,71	0.00	14,465,174.40	1,745,255.23	39.83034342	-80.62656
4,400.00	3.00	0.00	4,399.04	37.94	0.00	14,465,179,64	1,745,255,23	39.83035780	-80,62656
4,500.00	3.00	0.00	4,498,90	43.18	0.00	14,465,184.87	1,745,255.23	39.83037217	-80.62656
4 500.00	3.00	0.00	4,598.77	48.41	0.00	14,465,190.10	1,745,255.23	39.83038654	-80.62655
4 700.00	3.00	0.00	4,698.63	53.65	0.00	14,465,195.34	1,745,255.23	39.83040091	-80.626567
4,750.00	3.00	0.00	4,748.56	56.26	0.00	14,465,197.95	1,745,255.23	39.83040810	-80.626567
Begin 2º/1									
4,800.00	2.00	0.00	4,798,51	58.44	0.00	14,465,200.13	1,745,255,23	39,83041409	-80.626567





DB_Dec2220_v16 Tug Hill Operating LLC

Breckenridge (1 row)

Original Hole

rev4

Marshall County, West Virginia

Breckenridge S-20 HU (slot T)

Database:

Company:

Project:

Site:

Well:

Wellbore:

Planned Survey

Design:

Planning Report - Geographic

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Breckenridge S-20 HU (slot T) GL @ 1370.00ft GL @ 1370.00ft Grid Minimum Curvature

RECEIVED Office of Oil and Gas

AUG 1 3 2021

Wy Department of Environmental Protection

Map Measured Vertical Мар Easting Depth Azimuth Denth +N/-S +F/-W Northing Inclination (usft) (ft) (ft) (ft) (usft) Latitude Longitude (ft) (*) (°) 39.83041888 -80.62656730 4,900.00 0.00 0.00 4.898.49 60,19 0.00 14,465,201.88 1,745,255,23 Begin vertical hold -80.62656730 4,998,49 60.19 0.00 14,465,201.88 1,745,255.23 39.83041888 5.000.00 0.00 0.00 -80.62656730 5,098.49 60.19 0.00 14,465,201.88 1.745.255.23 39.83041888 5,100.00 0.00 0,00 1,745,255,23 39 83041888 -80.62656730 60.19 0.00 14,465,201,88 5 200 00 0.00 0.00 5 198.49 5 300 00 0.00 0.00 5,298,49 60.19 0.00 14.465.201.88 1,745,255.23 39,83041888 -80.62656730 39.83041888 -80.62656730 1.745 255.23 5,400.00 0.00 0.00 5,398,49 60.19 0.00 14,465,201,88 39.83041888 -80.62656730 5,500.00 0.00 0.00 5,498,49 60.19 0.00 14,465,201.88 1.745 255.23 -80.62656730 39.83041888 5,600.00 0.00 0.00 5.598.49 60.19 0.00 14,465,201.88 1.745.255.23 -80.62656730 0.00 5,698,49 60.19 0.00 14,465,201.88 1.745,255,23 39.83041888 0.00 5,700.00 5,800.00 0.00 0,00 5,798.49 60.19 0 00 14,465,201.88 1.745 255.23 39.83041888 -80 62656730 39,83041888 -80.62656730 0.00 0.00 5,898,49 60.19 0.00 14,465,201,88 1.745.255.23 5,900.00 6,000.00 0.00 0.00 5,998,49 60,19 0.00 14,465,201,88 1,745,255.23 39.83041888 -80.62656730 -80.62656730 39.83041888 6,100.00 0.00 0.00 6 098 49 60 19 0.00 14,465,201.88 1.745.255.23 6,200.00 0.00 0.00 6.198.49 60.19 0.00 14,465,201.88 1,745,255,23 39.83041888 -80.62656730 -80.62656730 39,83041888 6,300.00 0.00 0.00 6.298.49 60.19 0.00 14,465,201.88 1.745.255.23 6,400.00 0.00 0.00 6,398.49 60.19 0.00 14,465,201.88 1,745,255.23 39.83041888 -80.62656730 -80.62656730 6,500.00 0.00 0.00 6 498.49 60.19 0.00 14,465,201.88 1,745,255.23 39.83041888 0.00 0.00 6,598.49 60.19 0.00 14,465,201.88 1,745,255.23 39.83041888 -80.62656730 6.600.00 6 698.49 60.19 0.00 1,745,255.23 39.83041888 -80.62656730 6,700.00 0.00 0.00 14,465,201.88 39,83041888 -80,62656730 6.800.00 0.00 0.00 6.798.49 60.19 0.00 14.465.201.88 1.745.255.23 -80.62656730 6,900.00 0.00 0.00 6,898,49 60,19 0.00 14,465,201.88 1,745,255,23 39.83041888 -80.62656730 39 83041888 7.000.00 0.00 0.00 6 998 49 60.19 0.00 14,465,201,88 1.745.255.23 0.00 0.00 7,000.00 60.19 0.00 14,465,201.88 1,745,255,23 39,83041888 -80.62656730 7.001.51 Begin 2"/100' build 1.97 334,50 7.098.47 61.72 -0.73 14,465,203.41 1,745,254.50 39.83042309 -80.62656987 7,100.00 66.39 -2.96 39.83043595 -80.62657774 3.97 334.50 7.198.33 14,465,208,08 1.745.252.27 7.200.00 7,300.00 5.97 334.50 7.297.95 74.21 -6.69 14,465,215.90 1,745,248.54 39,83045747 -80.62659091 -80,62660936 1,745,243,31 39.83048760 7.97 334.50 7.397.21 85.16 -11.91 7,400.00 14,465,226,85 7,500.00 9.97 334.50 7,495,98 99.23 -18.63 14,465,240,92 1.745.236.60 39,83052632 -80.62663306 11.84 -80.62665988 334.50 7.587.55 39.83057013 7,593.26 115 15 -26.22 14,465,256,84 1,745,229.01 Begin 11.84° tangent 7,600.00 11.84 334.50 7.594.15 116 40 -26.82 14,485,258.09 1,745,228.41 39.83057356 -80.62666198 7,700.00 11.84 334.50 7.692.02 134.91 -35.65 14,465,276.60 1,745,219,58 39,83062450 -80.62669316 7.800.00 11.84 334,50 7,789.90 153.42 -44,48 14,465,295,11 39.83067543 -80.62672434 1.745.210.75 7,900.00 11.84 334.50 7.887.77 171.93 -53.31 39.83072637 -80.62675552 14,465,313,62 1.745.201.92 8,000,00 11.84 334,50 7.985.65 190.44 -62.14 14,465,332,14 39,83077730 -80,62678670 1,745,193,09 8,083.52 8,100.00 11.84 334.50 208.95 -70.97 14,465,350.65 1,745,184.26 39.83082824 -80.62681788 -80 62884906 8,200,00 11.84 334,50 8 181 40 227 47 -79.80 14,465,369.16 1,745,175.42 39,83087918 8,279.27 8,300,00 11.84 334.50 245,98 -88.63 14,465,387.67 1,745,166.59 39.83093011 -80.62688024 -97 46 8,400,00 11.84 334 50 8 377 14 264 49 14,465,406.18 1.745,157.76 39 83098105 -80 62691142 8,500.00 11.84 334.50 8.475.02 283,00 -106.30 14,465,424.69 1,745,148.93 39.83103198 -80.62694260 8,600.00 11.84 334.50 8,572.89 301.51 -115,13 14,465,443.20 1,745,140.10 39.83108292 -80.62697378 8,700.00 11.84 334.50 8,670.77 320.02 -123.96 39.83113385 -80.62700496 14,465,461,71 1.745,131.27 8,800.00 11.84 334 50 8 768 64 338 53 -132 79 14,465,480.22 1,745,122.44 39.83118479 -80.62703614 8,900.00 11.84 334.50 8,866.52 357.04 -141.62 14,465,498.73 1.745 113.61 39.83123573 -80.62706732 9,000.00 11.84 334.50 8,964.39 375.55 -150.45 14,465,517.24 1,745,104.78 39.83128666 -80.62709850 9,100.00 11.84 334 50 9,062.26 394.06 -159.28 14 465 535.75 39,83133760 -80.62712968 1,745,095.95 9.200.00 11.84 334.50 9,160,14 412,57 -168,11 14,465,554.26 39.83138853 -80.62716086 1.745,087.12 9,300.00 11.84 334.50 9,258.01 431.08 -176.94 14 465 572 78 -80.62719204 1.745.078.29 39.83143947 9,400.00 11.84 334.50 9,355,89 449,60 -185.77 14 465 591.29 1,745,069.45 39.83149040 -80.62722322 9,500.00 11.84 334.50 9,453.76 -194.60 468.11 14,465,609,80 1,745,060.62 39 83154134 -80.62725440 9 600.00 11.84 334.50 9,551,63 486,62 -203.44 14.465.628.31 1,745,051,79 39.83159228 -80,62728558 9,700.00 11.84 334.50 9,649,51 505.13 -212.27 14,465,646.82 1,745,042.96 39.83164321 -80.62731676

COMPASS 5000.16 Build 96 11/19/2021



Local Co-ordinate Reference: Well Breckenridge S-20 HU (slot T) DB_Dec2220_v16 Database: GL @ 1370.00ft Company: Tug Hill Operating LLC TVD Reference: Marshall County, West Virginia GL @ 1370.00ft RECEIVED Office of Oil and Gas Project: MD Reference: Breckenridge (1 row) Grid North Reference: Site: Minimum Curvature Well: Breckenridge S-20 HU (slot T) Survey Calculation Method: AUG 1 3 2021 Original Hole Wellbore: rev4 Design:

Planned Survey

WV Department of Environmental Protection

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	11.84	334.50	9,747.38	523,64	-221.10	14,465,665.33	1,745,034.13	39.83169415	-80.627347
9,900.00	11.84	334.50	9,845.26	542.15	-229.93	14,465,683.84	1,745,025.30	39.83174508	-80.627379
10,000.00	11.84	334.50	9,943.13	560.66	-238.76	14,465,702.35	1,745,016.47	39,83179602	-80.627410
10,100.00	11.84	334,50	10,041.01	579.17	-247.59	14.465,720.86	1,745,007.64	39.83184695	-80.627441
10,200.00	11.84	334.50	10,138.88	597.68	-256.42	14.465,739.37	1,744,998.81	39,83189789	-80,627472
10,300.00	11.84	334,50	10,236.75	616.19	-265.25	14,465,757.88	1,744,989.98	39.83194882	-80.627503
10,400.00	11.84	334.50	10,334.63	634.70	-274.08	14,465,776.39	1,744,981.15	39.83199976	-80.627535
10,500.00	11.84	334.50	10,432.50	653.21	-282.91	14,465,794.90	1,744,972.31	39.83205070	-80.627566
10,600.00	11.84	334.50	10,530,38	671.73	-291.74	14,465,813,42	1,744,963.48	39.83210163	-80.627597
10,700.00	11.84	334.50	10,628.25	690.24	-300.58	14.465,831.93	1,744,954.65	39.83215257	-80,627628
10,800.00	11.84	334.50	10,728.13	708.75	-309.41	14,465,850,44	1,744,945.82	39.83220350	-80.627659
10,900.00	11.84	334.50	10,824.00	727.26	-318.24	14.465,868.95	1,744,935.99	39.83225444	-80.627690
10,901.20	11.84	334.50	10,825.17	727.48	-318.34	14.465,869.17	1,744,935,89	39.83225505	-80.62769
	/100' build/tur						and a second		
11,000.00	5.94	338.77	10,922.75	741.40	-324.56	14,465,883.09	1,744,930.67	39 83229335	-80.62771:
11,100.00	0.89	68.43	11,022.56	746.51	-325.72	14,465,888.20	1,744,929.51	39.83230740	-30.62771
11,200.00	6.19	142.19	11,122.36	742.54	-321.69	14,465,884.23	1,744,933.54	39.83229644	-80.62770
11,300.00	12.16	146.23	11,221.03	729.52	-312.53	14,465,871.21	1,744,942.70	39.83226057	-80.62767
11,400.00	18.15	147.63	11,317.52	707.59	-298.32	14,465,849,28	1,744,956.90	39.83220020	-30.62762
11,500.00	24.14	148.35	11,410.74	677.00	-279.24	14,465,818.69	1,744,975.99	39.83211599	-30.62755
11,600.00	30.14	148.79	11,499,69	638.09	-255.48	14,465,779.78	1,744,999.75	39,83200885	-80.62746
11,700.00	36.13	149.10	11,583.39	591.28	-227.31	14,465,732,97	1,745,027.92	39,83187996	-80,62736
11.800.00	42.13	149.34	11,660.92	537.07	-195.03	14,465,678.76	1,745,060.19	39,83173074	-30,62725
11.900.00	48.13	149.52	11,731.44	476.08	-159.01	14,465,617.77	1,745,096.22	39.83156282	-80,62712
11.931.15	50.00	149.57	11,751.85	455.79	-147.08	14,465,597.48	1,745,108.15	39.83150697	-80.62708
			11,751.05	400.78	-147.00	14,400,087.40	1,745,106.15	53.65150057	-00.02708
	/100' build/tur			100 50					
12,000.00	55.51	149.69	11,793.50	408.52	-119.38	14,465,550,21	1,745,135.84	39.83137685	-80.62698
12 100,00	63.51	149.83	11,844.21	334.14	-76.02	14,465,475.83	1,745,179.20	39.83117208	-80.62683
12 200.00	71.51	149.96	11,882.43	254.28	-29.72	14,465,395,97	1,745,225,51	39.83095223	-80.62667
12,300.00	79,50	150.07	11,907,44	170.49	18.63	14,465,312.18	1,745,273.85	39,83072157	-80.62649
12,400,00	87,50	150.18	11,918.75	84.40	68,08	14,465,226.09	1,745,323.30	39,83048459	-80.62632
12,418.71	89.00	150.20	11,919.32	68,18	77.37	14,465,209.87	1,745,332.60	39,83043993	-80,62629
	.00° lateral								
12,500,00	89.00	150.20	11,920.74	-2,36	117.76	14,465,139.33	1,745,372.99	39,83024577	-80.62614
12,600.00	89.00	150,20	11,922.48	-89,12	167.45	14,465,052,57	1,745,422.68	39,83000693	-80.62597
12,700.00	89.00	150.20	11,924.23	-175.88	217.14	14,464,965.81	1,745,472.37	39.82976809	-80.62579
12,800.00	89.00	150.20	11,925.97	-262.65	266.83	14,464,879,05	1,745,522.06	39,82952925	-80.62562
12,900.00	89.00	150.20	11,927.72	-349.41	316,52	14,464,792.28	1,745,571.75	39.82929040	-80.62544
13,000.00	89.00	150,20	11,929.46	-436.17	366.21	14,464,705.52	1.745,621.44	39,82905156	-80.62527
13,100.00	89.00	150.20	11,931.21	-522.94	415.90	14,464,618.76	1,745,671.13	39.82881272	-80.62509
13,200.00	89.00	150.20	11,932.95	-609.70	465.59	14,464,531.99	1,745,720.82	39.82857388	-80.62491
13,300.00	89.00	150.20	11,934.70	-696.46	515.28	14,464,445.23	1,745,770.51	39.82833503	-80.62474
13,400.00	89.00	150.20	11,936.44	-783.23	564.97	14,464,358.47	1,745,820.20	39.82809619	-80.62456
13,500.00	89.00	150.20	11,938.19	-869.99	614.66	14,464,271.70	1,745,869.89	39.82785735	-80.62439
13,600.00	89.00	150.20	11,939,94	-956,75	664.35	14,464,184.94	1,745,919,58	39.82761851	-80.62421
13,700.00	89.00	150.20	11,941.68	-1,043.52	714.04	14,464,098.18	1,745,969.27	39.82737966	-80.624040
13,800.00	89.00	150.20	11,943.43	-1,130.28	763.73	14,464.011.41	1,746,018.96	39.82714082	-80.62386
13,900.00	89.00	150.20	11,945.17	-1,217.04	813.42	14,463,924.65	1,746,068.65	39.82690197	-80.62368
14,000.00	89.00	150.20	11 946,92	-1,303,81	863.11	14,463,837.89	1,746,118.34	39,82666313	-80,62351
14,100.00	89.00	150,20	11,948.66	-1,390.57	912.80	14,463,751.12	1,746,168.03	39.82642428	-80.62333
14,200.00	89.00	150.20	11,950,41	-1,477.33	962,49	14,463,664.36	1,746.217.72	39.82618544	-80,62316
14,300.00	89.00	150.20	11,952.15	-1,564.10	1,012.18	14,463,577.60	1,746,267,41	39,82594659	-80,622986
14,400.00	89.00	150.20	11,953,90	-1,650.86	1,061.87	14,463,490,83	1,746,317.10	39.82570775	-80.622810
14,500.00	89.00	150.20	11,955,64	-1,737.62	1,111.56	14,463,404.07	1,746,366.79	39.82546890	-80,62263

COMPASS 5000 16 Build 96 11/19/2021



Well Breckenridge S-20 HU (slot T) DB_Dec2220_v16 Local Co-ordinate Reference: Database: RECEIVED Office of Oil and Gas Company: Tug Hill Operating LLC TVD Reference: GL @ 1370.00ft Project: Marshall County, West Virginia GL@ 1370.00ft MD Reference: Breckenridge (1 row) Grid Site: North Reference: AUG 1 3 2021 Breckennidge S-20 HU (slot T) Minimum Curvature Well: Survey Calculation Method: Wellbore: Original Hole WV Department of Environmental Protection rev4 Design:

Planned Survey

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting	Sec. 1	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
14,600,00	89.00	150.20	11,957.39	-1,824.39	1,161.25	14,463,317.31	1,746,416.47	39,82523005	-80.62245937
14,700.00	89.00	150.20	11,959.13	-1,911.15	1.210.94	14,463.230.54	1,746,466,16	39.82499121	-80.62228370
14,800,00	89.00	150.20	11,960.88	-1,997.91	1.260.63	14,463,143.78	1,746,515.85	39,82475236	-80.62210803
14,900.00	89.00	150.20	11,962.62	-2,084.68	1,310.32	14,463,057.02	1,746,585,54	39.82451351	-80.62193236
15,000,00	89.00	150.20	11,964.37	-2,171.44	1,360.01	14,462,970,26	1,746,615.23	39.82427467	-80.62175669
15,100.00	89.00	150,20	11,966.11	-2,258.20	1,409.70	14,462,883,49	1.746,664.92	39,82403582	-80.62158102
15,200.00	89.00	150.20	11,967.86	-2,344.97	1,459,39	14,462,796.73	1,746,714.61	39.82379697	-80.62140536
15,300.00	89.00	150.20	11,969.60	-2,431.73	1,509.08	14,462,709.97	1,746,764.30	39.82355812	-80.62122969
15,400.00	89.00	150.20	11,971.35	-2,518,49	1,558.77	14,462,623,20	1,746,813.99	39,82331927	-80.62105403
15,500.00	89.00	150.20	11,973.09	-2,605.26	1,608.46	14,462,536.44	1,746,863.68	39.82308043	-80,62087837
15,600.00	89.00	150.20	11,974.84	-2,692.02	1,658.15	14,462,449.68	1,746,913.37	39,82284158	-80.62070271
15,700.00	89.00	150.20	11,976.58	-2,778.78	1,707.84	14,462,362.91	1,746,963.06	39.82260273	-80.62052705
15,800,00	89,00	150,20	11,978.33	-2,865,55	1,757.53	14,462,276,15	1.747,012.75	39,82236388	-80.62035139
15,900.00	89.00	150.20	11,980.08	-2,952.31	1,807.22	14,462.189.39	1,747,082.44	39.82212503	-80.62017573
16,000.00	89.00	150.20	11,981.82	-3,039.07	1,856.91	14,462,102.62	1,747,112.13	39,82188618	-80,62000007
16,100.00	89.00	150.20	11,983.57	-3,125.84	1,906.60	14,462,015,86	1,747,161.82	39.82164733	-80.61982442
16,200.00	89.00	150.20	11,985.31	-3,212.60	1,956.29	14,461,929,10	1,747,211.51	39.82140848	-80,61954877
16,300.00	89,00	150.20	11,987.06	-3,299,36	2,005.98	14,461,842.33	1,747,261.20	39.82116963	-80,61947311
16,400,00	89.00	150,20	11,988.80	-3,386.13	2,055.67	14,461,755,57	1,747,310.89	39.82093078	-80.61929746
16,500.00	89,00	150.20	11,990.55	-3,472.89	2,105.36	14,461,668.81	1,747,360.58	39,82069192	-80.61912181
16,600.00	89.00	150,20	11,992.29	-3,559.65	2,155.05	14,461,582.04	1,747,410.27	39.82045307	-80.61894616
16,700.00	89.00	150.20	11,994.04	-3,646.42	2,204.74	14,461,495.28	1,747,459.96	39.82021422	-80.61877052
16,800.00	89.00	150.20	11,995.78	-3,733.18	2,254.42	14,461,408.52	1,747,509.65	39.81997537	-80,61859487
16,900.00	89.00	150.20	11,997.53	-3,819.94	2,304.11	14,461,321.75	1,747,559.34	39.81973652	-80.61841922
17,000.00	89.00	150.20	11,999.27	-3.906.71	2,353.80	14,461,234.99	1,747,609.03	39.81949766	-80.61824358
17,100.00	89.00	150.20	12,001.02	-3.993.47	2,403.49	14,461,148.23	1,747,658.72	39.81925881	-80.61806794 -80.61789230
17,200.00	89.00	150.20	12,002.76	-4,080.23	2,453.18	14,461,061,46	1,747,708.41	39.81901996	
17,300.00	89.00	150.20	12,004.51	-4 167.00	2,502.87	14,460,974.70	1,747,758.10	39.81878110	-80.61771665 -80.61754102
17,400.00	89.00 89.00	150.20 150.20	12,006.25	-4,253.76	2,552.56	14,460,887.94	1,747,807.79	39.81854225	-80.61736538
17,500.00	89.00	150.20	12,008.00	-4,340.52 -4,427.29	2,602.25	14,460,801.18	1,747,857.48	39.81830340	-80.61718974
17,700,00	89.00	150.20	12,009.74	-4,427.29	2,651.94 2,701.63	14,460,714.41 14,460,627.65	1,747,907.16	39.81806454 39.81782569	-80.61701411
17,800.00	89.00	150.20	12,011,43	-4,600.81	2,751.32	14,480,540,89	1,748,006,54	39.81758683	-80.61683847
17,900.00	89.00	150.20	12,013.23	-4,687,58	2,801.01	14,460,454,12	1,748,056,23	39,81734798	-80.61666284
18,000.00	89.00	150.20	12,016.72	-4,774.34	2,850.70	14,450,367.36	1,748,105.92	39.81710912	-80.61648721
18,100.00	89.00	150.20	12,018.47	-4,861.10	2,900.39	14,460,280.60	1,748,155.61	39.81687027	-80.61631158
18,200.00	89.00	150.20	12,020.22	-4,947.87	2,950,08	14,450,193.83	1,748,205.30	39.81663141	-80,61613595
18,300.00	89.00	150.20	12,021,96	-5,034.63	2,999.77	14,460,107.07	1,748,254.99	39.81639255	-80.61596032
18,400.00	89.00	150.20	12,023.71	-5,121.40	3,049.46	14,450,020.31	1,748,304.68	39.81615370	-80.61578469
18,500.00	89.00	150.20	12,025,45	-5,208.16	3,099.15	14,459,933.54	1,748,354.37	39.81591484	-80.61560906
18,600.00	89.00	150.20	12,027,20	-5,294.92	3,148.84	14,459,846.78	1,748,404.06	39.81567598	-80.61543344
18,700.00	89.00	150.20	12,028,94	-5,381.69	3,198.53	14,459,760.02	1,748,453.75	39.81543713	-80.61525782
18,800.00	89.00	150.20	12,030.69	-5,468.45	3,248.22	14,459,673.25	1,748,503.44	39.81519827	-80.61508219
18,900.00	89.00	150.20	12,032.43	-5,555.21	3,297.91	14,459,586.49	1,748,553.13	39.81495941	-80.61490657
19,000.00	89.00	150.20	12,034.18	-5,641.98	3,347.60	14,459,499.73	1,748,602.82	39.81472055	-80.61473095
19,100.00	89.00	150.20	12,035,92	-5,728,74	3,397.29	14,459,412.96	1,748,652.51	39.81448169	-80.61455534
19,200.00	89.00	150.20	12,037.67	-5,815.50	3,446.98	14,459,326,20	1,748,702.20	39,81424283	-80.61437972
19,300.00	89.00	150.20	12,039,41	-5,902.27	3,496.67	14,459,239.44	1,748,751.89	39.81400398	-80.61420410
19,400.00	89.00	150.20	12,041.16	-5,989.03	3,546,36	14,459,152.67	1,748,801.58	39.81376512	-80.61402849
19,500.00	89.00	150.20	12,042,90	-6,075.79	3,596.05	14,459,065.91	1,748,851.27	39.81352626	-80.61385287
15,600.00	89.00	150.20	12,044.65	-6,162.56	3,645.74	14.458,979.15	1,748,900,96	39.81328740	-80.61367726
19,700.00	89,00	150.20	12,046.39	-6,249,32	3,695,43	14,458,892.39	1,748,950.65	39.81304854	-80.61350165
19,800.00	89.00	150.20	12,048.14	-6,336.08	3,745,12	14,458,805.62	1,749,000,34	39.81280968	-80,61332604
19,900.00	89.00	150.20	12,049.88	-6,422.85	3,794.81	14,458,718.86	1,749,050.03	39.81257082	-80.61315043
20,000.00	89.00	150.20	12,051.63	-6,509.61	3,844.50	14,458,632.10	1,749,099,72	39.81233196	-80.61297482





Well Breckenridge S-20 HU (slot T) Local Co-ordinate Reference: Database: DB_Dec2220_v16 Tug Hill Operating LLC GL @ 1370.00ft Company: TVD Reference: Project: Marshall County, West Virginia MD Reference: GL@ 1370.00ft Site: Breckenridge (1 row) North Reference: Grid Minimum Curvature Survey Calculation Method: Well: Breckenridge S-20 HU (slot T) Original Hole Wellbore: rev4 Design:

Planned Survey

Vertical Map Map Measured Easting Depth Azimuth Denth +N/-S +E/-W Northing Inclination (usft) (ft) (ft) (usft) Latitude Longitude (ft) (ft) (°) (°) 39,81209309 -80.61279922 14,458,545,33 1 749,149,41 20.100.00 89.00 150.20 12.053.37 -6.596.37 3,894,19 150.20 12,055,12 -6,683,14 3,943,88 14,458,458.57 1 749,199.10 39.81185423 -80.61262361 20,200,00 89.00 -80 61244801 12,056.87 -6.769.90 3,993.57 14,458,371,81 1,749,248,79 39 81161537 20.300.00 89.00 150.20 -80.61227240 1,749,298.48 39.81137651 150 20 12 058 61 -6 856 66 4 043 26 14 458 285 04 20,400.00 89.00 1,749,348,17 39.81113765 -80 61209680 20 500 00 89.00 150.20 12.060.36 -6.943.43 4.092.95 14,458,198,28 39.81089878 -80.61192120 1.749,397.86 20,600,00 89.00 150.20 12.062.10 -7.030.194 142 64 14,458,111,52 -80.61174550 89.00 150.20 12,063.85 -7,116.95 4,192.33 14,458,024.75 1,749,447.54 39.81065992 20,700.00 89.00 150.20 12.065.59 -7,203.72 4,242.02 14,457,937.99 1.749,497.23 39.81042106 -80.61157000 20,800.00 -80.61139441 12,067.34 39.81018220 89.00 150.20 -7.290.48 4,291.71 14,457,851,23 1,749,546.92 20,900.00 12,069.08 14,457,764.46 1.749,596.61 39.80994333 -80 61121881 21 000.00 89.00 150.20 -7.377.24 4.341.40 39.80970447 -80.61104322 12 070 83 -7 464 01 4 391 09 14 457 677 70 1749 646.30 21.100.00 89 00 150 20 39.80946560 -80.61086763 21,200.00 89.00 150.20 12.072.57 -7.550.77 4,440.77 14,457,590.94 1,749,695.99 -80.61069203 39.80922674 1,749,745,68 21,300,00 89.00 150.20 12.074.32 -7.637.53 4 490 46 14,457,504,17 89.00 150 20 12.076.06 -7 724 30 4 540 15 14,457,417.41 1,749,795.37 39.80898788 -80.61051644 21,400.00 -80.61034085 39 80874901 21,500.00 89.00 150.20 12.077.81 -7.811.06 4.589.84 14.457.330.65 1,749,845.06 89.00 12,079,55 -7,897.82 4,639,53 14,457,243.88 1,749,894.75 39.80851015 -80.61016526 150.20 21,600.00 89.00 12,081.30 -7,984.59 4,689.22 14,457,157,12 1.749,944.44 39 80827128 -80 60998958 21,700.00 150.20 39,80803241 -80.60981409 12.083.04 89.00 -8.071.35 4,738,91 14,457,070,38 1,749,994,13 21,800,00 150.20 12,084.79 39.80779355 -80.60963851 21,900,00 89.00 150.20 -8.158.11 4.788.60 14,456,983,59 1.750.043.82 12.086.53 39 80755468 -80 60946292 22,000.00 89 00 150 20 -8 244 88 4.838.29 14,456,896,83 1.750.093.51 -80,60928734 22,100.00 89.00 150.20 12.088.28 -8,331.64 4.887.98 14,456,810.07 1,750,143.20 39.80731582 -80.60911176 22,200,00 89.00 150.20 12,090,02 -8.418.40 4.937.67 14,456,723.31 1.750,192.89 39 80707695 89.00 12.091.77 4,987.36 1.750,242.58 39 80683808 -80.60893618 22 300 00 150 20 -8.505.17 14 458 636 54 89.00 150.20 12,093.51 -8.591.93 5,037.05 14,456,549,78 1.750,292.27 39.80659921 -80.60876060 22,400.00 39.80636035 -80.60858502 89 00 150.20 12 095 26 -8 678 69 5 086 74 14 456 463 02 1750 341 96 22 500 00 12,097.01 5,136.43 39,80612148 -80.60840945 22,600.00 89.00 150.20 -8.765.46 14,456,376.25 1,750,391.65 12 098 75 39.80588261 -80.60823387 22,700.00 89.00 150 20 -8 852 22 5,186.12 14,455,289.49 1,750,441.34 -80.60805830 22,800.00 89.00 150.20 12.100.50 -8 938.98 5.235.81 14,456,202.73 1,750,491.03 39.80564374 22,900.00 89.00 150 20 12 102 24 -9 025 75 5 285 50 14.456.115.95 1.750.540.72 39.80540487 -80.60788273 89.00 150.20 12 103.99 -9,112.51 5,335.19 14,455,029.20 1.750,590.41 39.80516600 -80.60770716 23,000.00 23,100.00 89.00 150.20 12,105.73 -9,199,27 5,384.88 14,455,942.44 1.750,640.10 39.80492714 -80.60753159 23 200 00 89.00 150 20 12 107 48 -9 286 04 5 434 57 1,750,689,79 39 80468827 -80.60735602 14 455 855 67 89.00 12,109.22 -9,372.80 5,484.26 39.80444940 -80,60718045 23,300.00 150.20 14,455,768.91 1,750,739,48 -80 60700488 89.00 150 20 12 110 97 -9 459 56 5 533 95 1,750,789,17 39 80421053 23 400 00 14,455,682,15 23,500.00 89.00 150.20 12.112.71 -9 546.33 5.583.64 14,455,595.38 1,750,838.86 39.80397166 -80.60682932 23,600.00 89.00 150.20 12,114,46 -9.633.09 5,633.33 14,455,508.62 1,750,888.55 39.80373279 -80 60665375 23,700.00 89.00 150 20 12 116.20 -9 719 85 5,683.02 39 80349391 -80.60647819 14,455,421.86 1,750,938,23 23,800.00 89.00 150.20 12,117.95 -9,806.62 5,732.71 1,750,987.92 39.80325504 -80.60630263 14,455,335.09 89.00 12,119.69 150.20 -9.893.38 -80.60612707 23,900.00 5,782.40 14,455,248,33 1.751.037.61 39.80301617 24,000.00 89.00 150.20 12.121.44 -9,980.14 5,832.09 -80.60595151 14,455,161.57 1.751.087.30 39.80277730 89.00 24 100.00 150.20 12 123.18 -10 066 91 5 881 78 39 80253843 -80 60577595 14 455 074 80 1,751,136,99 24,200.00 89.00 150.20 12.124.93 5,931.47 -80.60560039 -10,153.67 14,454,988.04 1,751,186.68 39.80229956 24,300.00 89.00 150.20 1,751,236.37 12.126.67 -10.240.43 5 981.16 39 80206068 -80.60542484 14 454 901 28 24.318.71 89.00 150.20 12,127.00 -10.256.66 5.990.45 14,454,885.05 1,751,245.67 39.80201600 -80.60539200 PBHL/TD 24318.71 MD 12127.00 TVD

AUG 1 3 2021

WV Department of Environmental Protection





Database:	DB_Dec2220_v16	Local Co-ordinate Reference:	Well Breckenridge S-20	HU (slot T)
Company:	Tug Hill Operating LLC	TVD Reference:	GL @ 1370.00ft	
Project:	Marshall County, West Virginia	MD Reference:	GL @ 1370.00ft	RECEIVED Office of Oil and Gas
Site:	Breckenridge (1 row)	North Reference:	Grid	Office of OII and Ca
Well:	Breckenridge S-20 HU (slot T)	Survey Calculation Method:	Minimum Curvature	
Wellbore:	Original Hole			AUG 1 3 2021
Design:	rev4			www.popartment.of

Environmental Protection

Design Targets								Enviro	onmental Protec
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-20HU LF - plan misses target - Point	0.00 center by 116.	0.00 29ft at 1203	11,911.00 1.56ft MD (1	437.55 1810.80 TVD,	-134.32 385.73 N, -10	14,465,579.24 06.07 E)	1,745,120.91	39.83145674	-80.62704012
Breckenridge S-20HU LF - plan misses target - Point	0.00 center by 136.		11,911.00)9.85ft MD (*	437.55 11799.02 TVD	-184.31 401.49 N, -11	14,465,579.24 15.27 E)	1,745,070.91	39,83145731	-80.62721820
Breckenridge S-20HU B - plan hits target cen - Point	0.00 ter	0.00	12,127.00	-10,256.66	5,990.45	14,454,885.05	1,751,245.67	39.80201600	-80.60539200

Casing Points

		Casing Hole
Depth Depth		Diameter Diameter
(ft) (ft)	Name	(") (")

Plan Annotations

Measured	Vertical	Local Coor	dinates	
Depth (ft)	Depth (ft)	+N/-S +E/-W (ft) (ft)		Comment
3,600.00	3,600.00	0.00	0.00	KOP Begin 2°/100' build
3,750.00	3,749.93	3.93	0.00	Begin 3.00° tangent
4,750.00	4,748.56	56.26	0.00	Begin 2°/100' drop
4,900.00	4,898.49	60.19	0.00	Begin vertical hold
7,001.51	7,000.00	60.19	0.00	Begin 2°/100' build
7,593.26	7,587.55	115.15	-26.22	Begin 11.84° tangent
10,901.20	10,825.17	727.48	-318.34	Begin 6°/100' build/turn
11,931.15	11,751.85	455.79	-147.08	Begin 8°/100' build/turn
12,418.71	11,919,32	68.18	77.37	Begin 89.00° lateral
24,318,71	12,127,00	-10,256,66	5,990,45	PBHL/TD 24318.71 MD 12127.00 TVD

COMPASS 5000, 16 Build 96 11/19/2021

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

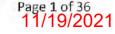
Discussion with Phil Dinterman WVGES GIS Department (7/15/2016)

- 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

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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.
4705100753	Leatherwood, Inc.	2045' TVD	Gordon Gordon Stray	unknown	No, the well is not deep enough to be within the expected fracture propagation from a Point Pleasant stimulation.	

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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
4705101076	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 6/17/2008.
4705101173	McElroy Coal Company	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 10/2/2008.
4705130250	Manufacturers Light & Heat Co.	3143' TVD	Fourth Sand	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 8/2/1946.
4705170513	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.
4705170514	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.
	1	RECEIVED Office of Oil and Gas AUG 1 3 2021 WV Department of Environmental Protection	1	1	1	Page 3 of 3

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
4705170515	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.
4705101409	Tug Hill Operating, LLC	6962' TVD / 11672' MD	Marcellus	unknown	No, this is a producing Marcellus well. The well is not deep enough to be within the expected fracture propagation from a Point Pleasant stimulation.	Recently acquired by Tug Hill Operating, LLC.
4705101475	Tug Hill Operating, LLC	7068' TVD / 11820' MD	Marcellus	unknown	No, this is a producing Marcellus well. The well is not deep enough to be within the expected fracture propagation from a Point Pleasant stimulation.	Recently acquired by Tug Hill Operating, LLC.
4705101476	Tug Hill Operating, LLC	7200' TVD (proposed) / 12977' MD	Marcellus	unknown	No, this is a producing Marcellus well. The well is not deep enough to be within the expected fracture propagation from a Point Pleasant stimulation.	Recently acquired by Tug Hill Operating, LLC.
4705101605	Tug Hill Operating, LLC	7041' TVD / 12653' MD	Marcellus	unknown	No, this is a producing Marcellus well. The well is not deep enough to be within the expected fracture propagation from a Point Pleasant stimulation.	Recently acquired by Tug Hill Operating, LLC.
	WV じょpartment of Environmental Protection	Office of Oil and Gas	1	1	1	Page 4 o

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
4705100624	CNX Gas Co. LLC (North)	3009' 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 10/31/2019.
4705100976	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 12/31/2004.
4705100997	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.	State records are incomplete.
4705170205	South Penn Oil (S. Penn Nat. Gas)	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.
4705170467	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.
	WV Department of rvironmental Protection	Office of Oil and Gas	1	I,	I	Page 5 of 3

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
4705170469	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.
4705100626	CNX Gas Co. LLC (North)	3088' 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 10/26/2007.
4705101016	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 6/29/2006.
4705101048	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 12/15/2006.
4705101078	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 6/17/2008.

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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
4705101156	Leatherwood, Inc.	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 10/14/2008.
4705130156	Interstate Pipe & Supply	3175' 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 4/16/1942.
4705130184	South Penn Oil (S. Penn Nat. Gas)	3144' 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 1942.
4705170462	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.
4705170463	unknown	unknown	unknown ញ	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.
	·		AUG 1 3 2021	Office of Oil and Gas	I	Page 7 of 3

WV Geological & Economic Survey:

Well: County = 51 Permit = 01082

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

Location Information: View Map

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

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:

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_V 4705101082_7/3/2008_6/18/2008_1262_Ground Level unclassified 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:

the second s	SUFFIX			DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS	QUALITY I	ELEV	DATUM
4705101082 F	Plugging	Pittsburgh coal	Well Record	946	Reasonable	5	Reasonable		1262	Ground Level

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

Plugging Information: API PLG_DT_DEPTH_PBT 4705101082_7/3/2008_0

There is no Sample data for this well

AUG 1 3 2021 WV Department of Environmental Protection 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		Glen Easton					

There is no Bottom Hole Location data for this well

Owner Information:

API 4705170164		SPUD_DT	ELEV DAT 1420 Baro		D DEEPEST_f Big Injun (un			INITIAL_CLASS unclassified	FINAL_CLASS unclassified	TYPE not available	RIG unknown	CMP_MTHD unknown	TVD 2374	NEW_FTG 2374	G_BEF	G_A
There is n	o Pay da	ta for this	well													
There is n	o Produc	tion Gas d	ata for this	well												
There is n	o Produc	tion Oil da	ta for this v	well ** so	me operator	may h	ave report	ed NGL under	Oil							
There is n	o Produc	tion NGL o	data for this	s well **	some operate	rs may	have repo	orted NGL und	er Oll							
There is no	o Produc	tion Water	data for th	nis well												
There is no	o Stratigr	aphy data	for this we	ll												
There is no	o Wirelin	e (E-Log) e	data for this	s well												
There is no	o Pluggin	ig data for	this well													
There is a	Sample	data for t	his 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_VD
 PROP_TRGT_FM
 1

 4705102346
 -/-/ Dvtd
 Wrkd 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 -4-4 - -4-4 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

AUG 1 3 2021 WV Department of Environmental Protection

RECEIVED Office of Oil and Gas WV Geological & Economic Survey

Well: County = 51 Permit = 00753

Report Time: Tuesday April 13, 2021 3:00:12 PM

Stor253 Marchail 753 Liberty Gen Easton Cameron 39.627/178 -00.624503 532107.3 4400643.1 tere is no Bottom Hote Location data for this well ner Information: CMP_DT SUFFIX STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_ Cameron Heat S Light Stor253 12/1928 Original Loc Completed JO Williams Richard Wayt 1 JO Williams Richard Wayt Cameron Gas Co Stor253 12/1928 Original Loc Completed JO Williams DEEPEST_FM DEEPEST_FM TITLL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TVD TMD NEW_FIG Stor253 12/1928 J-41 1320 Barometer Boottom Deeperst_FM DEEPEST_FM DEEPEST_FM DEEPEST_FM TITLL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FIG Stor253 12/1928 J-44 1320 Barometer Sto	Well Reassignment																						
COUNTY PERMIT TAX_DISTRICT QUAD_T6 QUAD_16 CAT DD LON_DD LTMN 5100733 Marshall 753 Liberity Glen Easton Cameron 36.027176 400.624603 532107.3 4400663.1 rere is no Boltiom Hole Location data for this well ner Information: Cameron Hole Location data for this well Cameron Hole Location Completed JO (Millams 1 JO Williams Cameron Heat & Light 5100733 12/1028 Onjinel Loc Completed JO (Millams 1 JO Williams Richard Wayt Cameron Gas Ce. mpletion Information: CMP DT SPUD_DT ELEV DATUM FIELD DEEPEST_FM DEEPEST_FM TINITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MIT bYD TMD NEW_FTG / Gordon Stay Gas unknown 3001 7/Show/Water Information: CMP DT ACTIVITY PRODUCT SECTION DEPTH_TOP FM_TOP DEPTH_BOT FM_BOT G_BEF G_AFT 0_BEF 0_AFT WATER_ONTY 3001 7/Show/Water Information: CMP DT ACTIVITY PRODUCT SECTION DEPTH_TOP FM_TOP DEPTH_BOT FM_BOT G_BEF G_AFT 0_BEF 0_AFT WATER_ONTY 7/Show/St 12/1028 Pay Gas Vertical 2227 Big Injin (Pince⪚) 0 0 0 7/Show/Bas Ray																							
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ner Information: CMP_DT SURFACE_OWNER Well_NUM CO_NUM LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_ 5100753 12/1928 Original Loc Completed J O Williams 1 J O Williams Cameron Heat S Light 5100753 12/1928 Original Loc Completed J O Williams Richard Wayt Cameron Gas Co. 5100753 12/1928	API COUNTY	PERMIT TAX	DISTRI	ICT QUAD_ Glen Ea	75 QUAD_ iston Camero	15 L on 3	AT_DD 9.8271) L(76 -8	ON_D	D L 803 5				1									
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Information: Common Formation Formation mpletion Information: CMP_DT_SPUD_DT_ELEV_DATUM_FIELD DEEPEST_FM_DEEPEST_FM_INITIAL_CLASS FINAL_CLASS TYPE_RIG_CMP_MTHD_TVD_TMD_NEW_FIG_M 5100753 12/-1923 -/-/- 1320 Barometer Cameron-Garner Hampshire Grp_Gordon Development Well Development Well Gas Cable Tool Shot 3045 3045 5100753 -/-/- 1320 Barometer Gordon Stray Development Well Development Well Gas Cable Tool Shot 3045 3045 5100753 12/-1928 Pay Gas Veltical 2227 Big Injun (Price&eq) 0 0 0 5100753 12/-1928 Pay Gas Veltical 2021 Gig Injun (Price&eq) 0 0 0 0 6100753 12/-1928 Pay Gas Veltical 2021 Gig Injun (Price&eq) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4705100753 12/-/1928 4705100753 JJ	Original Loc	Complet	led JOWIII	ams								-			13.00	Cam	eron Heat & Lig					
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2021 2021 Gas Protection												ő		ñ				75	00	No.			
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Page 11 of 36

WV Geological & Economic Survey.

Well: County = 51 Permit = 01076

Report Time: Tuesday, April 13, 2021 3:01:05 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD 75	QUAD 15	LAT DD	LON DD	UTME	UTMN
4705101076	Marshall	1076	Cameron	Cameron	Cameron	39.829206	-80.62451	532131.4	4408868.5

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
4705101076 6/17/2008 Plugging Completed	J Richard Wayt	M-109	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_ 4705101076 6/17/2008 6/2/2008 1356 Ground Level unclassified 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:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS QUALITY	ELEV	DATUM
4705101076	Plugging	Pittsburgh coal	Well Record	1044	Reasonable	6	Reasonable	1356	Ground Level

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

 Plugging Information:

 API
 PLG_DT
 DEPTH_PBT

 4705101076
 6/17/2008
 0

There is no Sample data for this well

AUG 1 3 2021 WV Department of Environmental Protection

Office of Oll and Gas

WV Geological & Economic Survey:

Well: County = 51 Permit = 01173

Report Time: Tuesday, April 13, 2021 3:01:21 PM

Location Information: View Map

API COUNTY PERMIT TAX_DISTRICT QUAD_76 QUAD_15 LAT_DD LON_DD UTME UTMN 4705101173 Marshall 1173 Cameron Cameron Cameron 39.826886 -80.624509 532132.6 4408611

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM CO_NUM LEASE LEA	SE_NUM MINERAL_OWN OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_F
4705101173	10/2/2008	Plugging	Completed	Charles & Sonja Strope	1335	McElroy Coal 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_BEF_G_AFT_O_BE 4705101173_10/2/2008_9/3/2008_1171_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

Stratigraphy Information:

API	SUFFIX			DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS QUALITY	ELEV	DATUM
4705101173	Plugging	Pittsburgh coal	Well Record	873	Reasonable	7	Reasonable	1171	Ground Level

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

Plugging Information:

API	PLG DT	DEPTH PBT
4705101173	10/2/2008	- 0

There is no Sample data for this well

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

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WV Geological & Economic Survey.

Well: County = 51 Permit = 30250

Report Time: Tuesday, April 13, 2021 3:01:35 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD 75	QUAD_15	LAT_DD	LON DD	UTME	UTMN
4705130250	Marshall	30250	Liberty	Cameron	Cameron	39.826161	-80.62338	532229.6	4408531

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFF	X STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM LEASE	LEASE_NUM MINERAL_OWN	OPERATOR_AT_COMPLETION PROP_VD PROP_
4705130250 8/29/1946 Origin	al Loc Completed	Chas P Mead	1	3369 Goshorn Heirs	Manufacturers Light & Heat Co	Manufacturers Light & Heat 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
4705130250	8/29/1946	6/27/1946	1205	Ground Level	Cameron	UDev undf.Ber/LoHURN	Fourth	Development Well	unclassified	Gas	Cable Tool	unknown	3143		3143	201
Comment:	8/29/194	6 Well rei	cord s	tratigraphy c	combines	the Gordon Stray an	d the Gordon	Entered in data	base as just th	ie Go	don Stray	0				

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
4705130250	8/29/1946	Show	Oil	Vertical		Big Injun (undiff)	2065	Big Injun (undiff)	0	0			7
4705130250	8/29/1946	Pay	Gas	Vertical	2847	Gordon	2851	Gordon	0	0	2		

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
4705130250	Original Loc	unidentified coal	Well Record	515	Reasonable	5	Reasonable	1205	Ground Level
4705130250	Original Loc	Waynesburg coal	Well Record	580	Reasonable	5	Reasonable	1205	Ground Level
		Sewickley coal	Well Record	760	Reasonable	5	Reasonable	1205	Ground Level
4705130250	Original Loc	Pittsburgh coal	Well Record	860	Reasonable	7	Reasonable	1205	Ground Level
1705130250	Original Loc	Morgantown Ss/Murphy	Well Record	1005	Reasonable	30	Reasonable	1205	Ground Level
705130250	Original Loc	Bufflo Ss/1st Cow Rn	Well Record	1243	Reasonable	24	Reasonable	1205	Ground Level
705130250	Original Loc	Mahonig Ss/Big Dunk	Well Record	1330	Reasonable	30	Reasonable	1205	Ground Level
1705130250	Original Loc	unidentified coal	Well Record	1525	Reasonable	5	Reasonable	1205	Ground Level
1705130250	Original Loc	1st Salt Sand	Well Record	1654	Reasonable	46	Reasonable	1205	Ground Level
4705130250	Original Loc	2nd Salt Sand	Well Record	1760	Reasonable	50	Reasonable	1205	Ground Level
705130250	Original Loc	Big Lime	Well Record	1925	Reasonable	55	Reasonable	1205	Ground Level
4705130250	Original Loc	Big Injun (undiff)	Well Record	1980	Reasonable	230	Reasonable	1205	Ground Level
4705130250	Original Loc	Thirty-foot	Well Record	2580	Reasonable	80	Reasonable	1205	Ground Level
4705130250	Original Loc	Gordon Stray	Well Record	2843	Reasonable	47	Reasonable	1205	Ground Level
4705130250	Original Loc	Fourth	Well Record	2963	Reasonable	7	Reasonable	1205	Ground Level

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

Plugging In	formatio	n:
API		DEPTH_PBT
4705130250	8/2/1946	0

AUG 1 3 2021 WV Department of Environmental Protection

Office of Oil and Gas

WV Geological & Economic Survey.

Well: County = 51 Permit = 70513

Report Time: Tuesday, April 13, 2021 3.03:38 PM

 Location Information:
 View Map_

 API
 COUNTY
 PERMIT
 TAX_DISTRICT
 QUAD_75
 QUAD_15
 LAT_DD
 LON_DD
 UTME
 UTMN

 4705170513
 Marshall
 70513
 Cameron
 Cameron
 39.827897
 -80.623372
 532229.5
 4408723.6

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SPUD_DT ELEV DATUM FIELD DEEPEST_FM DEEPEST_FMT 4705170513 -{-/	INITIAL_CLASS unclassified	FINAL_CLASS unclassified	TYPE not available	RIG unknown	CMP_MTHD unknown	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT
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 rep	orted NGL und	ler Oil									
There is no Production NGL data for this well ** some operators may have re	eported NGL ur	nder 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 Department of Environmental Protection RECEIVED Office of Oil and Gas AUG 1 3 2021

WV Geological & Economic Survey:

Well: County = 51 Permit = 70514

Report Time: Tuesday, April 13, 2021 3:03:54 PM

 Location Information:
 View Map

 API
 COUNTY
 PERMIT
 TAX_DISTRICT
 QUAD_75
 QUAD_16
 LAT_DD
 LON_DD
 UTME
 UTMN

 4705170514
 Marshall
 70514
 Cameron
 Cameron
 Cameron
 39.828187
 -80.624124
 532165
 4408755.5

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SPUD_DT ELEV DATUM FIELD DEEPEST_FM DEEPEST_FMT 4705170514 -{-/	INITIAL_CLASS unclassified	FINAL_CLASS unclassified	TYPE not available	RIG unknown	CMP_MTHD unknown	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT
here is no Pay data for this well											
here is no Production Gas data for this well											
here is no Production Oil data for this well ** some operators may have rep	orted NGL und	ler Oil									
here is no Production NGL data for this well ** some operators may have re	eported NGL u	nder Oil									
here is no Production Water data for this well											
here is no Stratigraphy data for this well											
here is no Wireline (E-Log) data for this well											
here is no Plugging data for this well											
here is no Sample data for this well											

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

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WV Geological & Economic Survey:

Well: County = 51 Permit = 70515

Report Time: Tuesday, April 13, 2021 3:05:12 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4705170515	Marshall	70515	Cameron	Cameron	Cameron	39.829347	-80.6245	532132.3	4408884.2

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SPUD_DT ELEV DATUM FIELD DEEPEST_FM DEEPEST_FMT 4705170515 -/-//-/-	INITIAL_CLASS unclassified	FINAL_CLASS unclassified	TYPE not available	RIG unknown	CMP_MTHD unknown	TVD	TMD	NEW_FTG	KOD	G_BEF C	_AFT
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 rep	orted NGL und	ler Oil									
There is no Production NGL data for this well ** some operators may have re	eported NGL u	nder 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											

AUG 1 3 2021 WV Department of Environmental Protection

RECEIVED Office of Oil and Gas

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Well: County = 51 Permit = 01409 Report Time: Tuesday April 13 2021 3 05:33 PM WV Geological & Economic Survey Location Information: <u>View Mao</u> API COUNTY PERMIT TAX DISTRICT QUAD_76 QUAD_15 LAT_0D LON_0D UTME UTMN 4705101409 Marshall 1409 Liberty Cameron Cameron 39.815855 -80.615272 532928.4 4407390.1 Bottom Hole Location Information: API EP FLAG UTME UTMN LON_DD LAT_DD 4705101409 1 As Proposed 532921.4 4409170.9 -80.615264 39.831901 Owner Information CMP_DT SUFFIX STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE LEASE NUM MINERAL_OWN OPERATOR_AT_COMPLETION PROP_VD PROP_TR Goshorn Ridge LLC Trans Energy Inc Marcellus 4705161409 2/8/2012 Dvtd Orgni Loc Completed Goshorn Goshorn Ridge LLC 16 Completion Information API CMP_DT SPUD_DT ELEV DATUM FIELD DEEPEST_FM DEEPEST_FM 4705101409 2/8/2012 10/10/2011 1308 Ground Level Cameron-Garner Onondaga Ls Marcellus Fm RIG DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE CMP_MTHD TVD TMD NEW_FTG K Development Weil Development Welt Oil and Gas Rotary unknown 6962 11672 11672 Pay/Show/Water Information API CMP_DT_ACTIVITY PRODUCT 4705101409 2/8/2012 Water Fresh Water 4705101409 2/8/2012 Water Sall Water SECTION DEPTH_TOP FM_TOP DEPTH BOT FM BOT G_BEF G_AFT O_BEF O_AFT WATER_ONTY Fresh Water Sall Water 60 Pennsylvanian System Vertical 4705101409 2/8/2012 vvale 4705101409 2/8/2012 Pay Vertical 1500 Oil & Gas Oil & Gas 7290 Marcellus Fm 7615 Marcellus Fm 7820 Marcellus Fm 7530 Marcellus Fm Deviated 7755 Marcellus Fm Deviated Oil & Gas Oil & Gas Oil & Gas Deviated 3040 Marcellus Fm 8120 Marcellus Fm 8465 Marcellus Fm Deviated 8365 Marcellus Fm 8675 Marcellus Fm Deviated 4705101409 2/8/2012 Pay Cil & Gas Cil & Gas Deviated 6740 Marcellus Fm 8985 Marcellus Fm 9320 Marcellus Fm 8925 Marcellus Fm 9182 Marcellus Fm 9495 Marcellus Fm Deviated Cil & Gas Cil & Gas Cil & Gas Deviated Deviated 9540 Marcellus Fm 9808 Marcellus Fm 9735 Marcellus Fm 9995 Marcellus Fm Deviated 4705101409 2/8/2012 Pay 4705101409 2/8/2012 Pay Cil & Gas Oil & Gas 10060 Marcellus Fm 10317 Marcellus Fm 10245 Marcellus Fm 10520 Marcellus Fm Deviated Deviated 4705101409 2/8/2012 Pay 4705101409 2/8/2012 Pay 4705101409 2/8/2012 Pay 4705101409 2/8/2012 Pay Oil & Gas 10824 Marcellus Fm Deviated 10600 Marcellus Fm Cil & Gas 10865 Marcellus Fm 11150 Marcellus Fm 11077 Marcellus Fm 11336 Marcellus Fm Deviated Deviated Oil & Gas Deviated 11418 Marcellus Fm 11618 Marcellus Fm 4705101409 2/8/2012 Pa Production Gas Information: (Volumes in Mcf)
 Bas Information (Volumes in Mcr)
 PRODUCING OPERATOR
 PRODUCING
 PEB

 Trans Energy, Inc.
 2012
 492.258
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 Trans Energy, Inc.
 2013
 377.492
 82.538
 60.233

 Trans Energy, Inc.
 2014
 540.273
 106.553
 43.05
 MAR APR MAY JUN JUL AUG 0 0 58,545 65,620 71,055 63,022 OCT NOV DCM 92 6.044 55.826 83.064 0 19.161 84,297 59.926 75 38.729 37.614 31.242 17 30.642 18.390 28.828 API 4705101409 Trans Energy Inc. 4705101409 Trans Energy Inc. 4705101409 Trans Energy Inc. 0 58.892 39.075 4705101409 Trans Energy, Inc. 4705101409 EQT Production Company 4705101409 EQT Production Company 2015 448 969 2016 2017 384 379 326 643 28,800 27,730 30,472 31,728 25,445 26,509 25,514 34,377 28,661 30,818 25,582 30,563 4705101409 EQT Production Company 2018 322 200 49.631 25.960 4705101409 EQT Production Company 273.070 16,129 1.093 Production Oil Information: (Volumes in Bbi) ** some operators may have reported NGL under Oil
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 4705101409
 Trans
 Energy_inc.
 2012
 1.976
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 252
 277
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 175

 4705101409
 Trans
 Energy_inc.
 2013
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 API
 PRODUCING_OPERATOR PRO_YEAR ANN_WTR_JAN FEB_MAR_APR_MAY_JUN_JUL_AUG_SEP_OCT_NOV_DCM

 4705101409_EQT_Production Company
 2016
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 4705101409_EQT_Production Company
 2017
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 4705101409_EQT_Production Company
 2018
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 AUG 1 3 2021 4705101409 EQT Production Company 2019 D 0 Ó 0 n 0 G D 6 WV Department of Environmental Protection Stratigraphy Information: Stratigraphy information: API SUFFIX FM 4705101409 Dvtd Orgni Loc unidentified coal 4705101409 Dvtd Orgni Loc Middlesex Sh 4705101409 Dvtd Orgni Loc Tuly Ls 4705101409 Dvtd Orgni Loc Tuly Ls 4705101409 Dvtd Orgni Loc Marcellus Fm FM_QUALITY DEPTH_TOP DEPTH_QUALITY THICKNESS THICKNESS_QUALITY ELEV DATUM 6788 Reasonable 1308 Ground Level 1308 Ground Level 1308 Ground Level Well Record Well Record 85 Reasonable Well Record 6873 Reasonable 17 27 75 Reasonable Well Record 6890 Reasonable Reasonable 1308 Ground Level Reasonable 6917 Reasonable 6933 Reasonable 1308 Ground Level 1308 Ground Level Well Record Well Record Reasonable 107 4705101409 Dvtd Orani Loc Onondaga Ls Well Record 7040 Reasonable Reasonable 1308 Ground Level Wireline (E-Log) Information:

API LOG_TOP LOG_BOT DEEPEST_FML LOGS_AVAIL SCAN DIGITIZED GR_TOP GR_BOT D_TOP D_BOT N_TOP N_BOT I_TOP I_BOT T_TOP T_BOT S_TOP S_BOT O_TOP O_BA 4705101409 4840 7300 GT V N 4840 7300 GT V N 4840 7300 Comment: CCL, CBL

WV Geological & Economic Survey:	Well: County = 51 Permit = 01475 Report	Time: Tuesday, April 13, 2021 3:44:51 PM
Location Information: <u>View Map</u> API COUNTY PERMIT TAX_DISTRICT QUAD_75 QUAD_15 LAT_DD 4705101475 Marshall 1475 Liberty Cameron Cameron 39.815856	LON_DD UTME UTMN -80.615219 532932.9 4407390.1	
Bottom Hole Location Information: API EP FLAG UTIME UTIMN LON DD LAT DD 4705101475 1 As Proposed 533057 4405876.2 -80.813845 39.80221		
Owner Information: API CMP_DT SUFFIX STATUS SURFACE_OWNER WELL_NUM 4705101475 4/5/2012 Dvid Orgni Loc Completed Gosham 2h	I CO_NUM LEASE LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLE Goshom Goshom Ridge LLC Trans Energy. Inc.	TION PROP_VD PROP_TRGT_FM YFM_ES 7200 Marcelius Fm
Completion Information: API CMP_DT_SPUD_DT_ELEV_DATUM_FIELD_DEEPEST 4705101475_46/2012_11/21/2011_1308_Ground Level_Cameron-Gamer_Onondage	FM DEEPEST FMT INITIAL_CLASS FINAL_CLASS TYPE RIG C Ls Marcellus Fm Development Weil Development Weil Oil and Gas Rotary un	MP_MTKD TVD TMD NEW FTG KOD G Iknovn 7068 11820 11820
Pay/Show/Water Information: API CMP_DT ACTIVITY PRODUCT SECTION DEPTH_TOP FM_TOP 4705101475 46/2012 Water Fresh Water Vertical 4705101475 46/2012 Water Sall Water Vertical 4705101475 46/2012 Water Sall Water Vertical 4705101475 46/2012 Pay Oil & Gas Deviated 7450 4705101475 46/2012 Pay Oil & Gas Deviated 8035 Marcethus F 4705101475 46/2012 Pay Oil & Gas Deviated 8035 Marcethus F 4705101475 46/2012 Pay Oil & Gas Deviated 8026 Marcethus F 4705101475 46/2012 Pay Oil & Gas Deviated 8777 Marcethus F 4705101475 46/2012 Pay Oil & Gas Deviated 9011 Marcethus F 4705101475 46/2012 Pay Oil & Gas Deviated 971 Marcethus F 47051	60 Pennsylvanian System 1500 7653 Marcelas Fm m 7653 Marcelas Fm m 8212 Marcelas Fm m 8490 Marcelas Fm m 8490 Marcelas Fm m 838 Marcelas Fm m 8490 Marcelas Fm m 838 Marcelas Fm m 9145 Marcelas Fm m 9411 Marcelas Fm m 942 Marcelas Fm m 9880 Marcelas Fm m 10360 Marcelas Fm m 10360 Marcelas Fm m 10360 Marcelas Fm m 10382 Marcelas Fm m 10380 Marcelas Fm m 10380 Marcelas Fm m 11017 Marcelas Fm m 11017 Marcelas Fm m 11238 Marcelas Fm m 11017 Marcelas Fm m 11013 Marcelas Fm	QNTY
4705101475 Trans Energy, Inc. 2012 565.849 0 0 4705101475 Trans Energy, Inc. 2013 279.811 74.717 53.084 3 47055101475 Trans Energy, Inc. 2014 752,110 92.573 93.493 5 47055101475 Trans Energy, Inc. 2015 532,906 49.265 20.507 47055101475 EOT Production Company 2016 438.246 47.438 28.525 3 47055101475 EOT Production Company 2016 438.246 47.438 28.525 3 47055101475 EOT Production Company 2016 438.246 47.438 28.525 3	AR APR MAY JUN JUL AUG SEP OCT NOV DCM 0 0 0 38,804 136,940 98,374 77,355 83,618 79,089 66,669 9 9,997 63,969 61,911 57,307 52,044 9,997 63,969 61,911 57,307 57,264 54,015 53,069 57,015 52,261 49,236 0 0 0 19,161 50,237 52,044 9,997 63,969 61,911 57,307 57,264 54,015 53,069 57,015 52,261 49,236 0 35,549 42,822 42,147 30,571 48,446 129,601 35,718 15,101 28,680 35,59 43,825 30,472 32,732 732 732 732 733,50 36,626 37,712 36,499 33,365 26,216 20,755 9,660 25,578 33,690 28,987 30,306 26,216 20,755 9,636 35,799 31,238 50,346	
Production Oil Information: (Volumes in Bbl) ** some operators may have a some operator a some operators may have a some operator a some opera	PR MAY JUN JUL AUG SEP OCT NOV DCM 0 0 85 339 190 173 180 76 184 0 0 0 0 0 0 0 842 247 179	
Production NGL Information: (Volumes in Bbl) ** some operators may in the second	nave reported NGL under Oil t APR MAY JUN JUL AUG SEP OCT NOV DCM 0	
Production Water Information: (Volumes in Gallons) API PRODUCING_OPERATOR PRD_YEAR ANN_WTR JAN FEB MAR 4705101475 EOT Production Company 2016 0 0 4705101475 EOT Production Company 2017 0 4705101475 EOT Production Company 2018 0	APR MAY JUN JUL AUG SEP OCT NOV DCM 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RECEIVED Office of Oil and Gas AUG 1 3 2021
Stratigraphy Information: API SUFFIX FM FM_QUALITY DEPTH_TOP DEPTH 4705101475 Dvid Orgni Loc unidentified coal Weil Record 852 Reasona 4705101475 Dvid Orgni Loc unidentified coal Weil Record 674 Reasona 4705101475 Dvid Orgni Loc Burket Sh Mbr Weil Record 6891 Reasona 4705101475 Dvid Orgni Loc Tufty Ls Weil Record 6891 Reasona 4705101475 Dvid Orgni Loc Tufty Ls Weil Record 6891 Reasona 4705101475 Dvid Orgni Loc Marceilus Fm Weil Record 6996 Reasona 4705101475 Dvid Orgni Loc Marceilus Fm Weil Record 6996 Reasona 4705101475 Dvid Orgni Loc Onordaga Ls Weil Record 6996 Reasona	ble 66 Ressonable 1308 Ground Level ble 21 Ressonable 1308 Ground Level ble 27 Ressonable 1308 Ground Level ble 78 Ressonable 1308 Ground Level ble 44 Ressonable 1308 Ground Level	WV Department of Environmental Protection
Wireline (E-Log) Information: API LOG_TOP LOG_BOT DEEPEST_FML LOGS_AVAIL SCAN DIGITIZ 4705101475 4850 7440 GT Y N	ED GR_TCP GR_BOT D_TOP D_BOT N_TOP N_BOT I_TCP I_BOT T_TCP 4850 7340 4850	T_BOT S_TOP S_BOT O_TOP O_BOT IN

API LOG TOP LOG BOT DEEPEST_FML LOGS_AVAIL SCAN DIGITIZED GR TOP GR BOT D_TOP D_BOT N_TOP N_BOT L_TOP LEOT T_TOP T_BOT S_TOP S_BOT 4705101475 4850 7440 GT Y N 4850 7340 4850 7428 Comment: CBL, CCL

WV Geological & Economic Survey:	Well: County = 51 Permit = 01476	Report Time: Tuesday, April 13, 2021 3 46 55 PM
Location Information: <u>View Map</u> API COUNTY PERMIT TAX_DISTRICT QUAD_75 QUAD_15 LAT_DD 4705101476 Marshall 1476 Liberty Cameron Camaron 39.815833	LON_DD UTME UTMN 7 -89 615167 532937 3 4407388 1	
Bottom Hole Location Information. API EP FLAG UTME UTMN LON_DD LAT_DD. 4705101476 1 As Drilled 532183.6 4409071.8 -80.623869 39.831036 4705101476 1 As Proposed 532200.6 4409080.6 -80.623869 39.831114		
Owner Information: API CMP_DT_SUFFIX_STATUS_SURFACE_OWNER_WI 4705101476_6/20/2013_Dvtd Orgri Loc_Completed_Timothy James Hubbs Trust	ELL_NUM CO_NUM LEASE LEASE_NUM MINERAL_OWN OPE 3H Goshorn Goshorn Ridge LLC Tran	RATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM is Energy, Inc. 7200 Marcellus Fm
Completion Information: API CMP DT SPUD DT ELEV DATUM FIELD DEEPE: 4705101476 6/20/2013 4/2/2013 1310 Ground Level Cameron-Gamer Marcelle Comment: 6/20/2013 KOD 6554'	ST_FM_DEEPEST_FMT_INITIAL_CLASS_FINAL_CLASS_TYPE as Fm_Marcellus Fm_Development Weil_Development Weil_Oil and (RIG CMP_MTHD TVD TMD NEW_FTG KOD G Bas Rolary Fractured 12977 12977 6554
Pay/Show/Water Information: API CMP_DT ACTIVITY PRODUCT SECTION DEPTH_TOP FM_TOP 4705101476 6/20/2013 Water Fresh Water Vertical 4705101476 6/20/2013 Water Fresh Water Vertical 4705101476 6/20/2013 Pay Oil & Gas Deviated 7515 Marcethur 4705101476 6/20/2013 Pay Oil & Gas Deviated 7915 Marcethur 4705101476 6/20/2013 Pay Oil & Gas Deviated D915 Marcethur 4705101476 6/20/2013 Pay Oil & Gas Deviated D915 Marcethur 4705101476 6/20/2013 Pay Oil & Gas Deviated B945 Marcethur 4705101476 6/20/2013 Pay Oil & Gas Deviated 9465 Marcethur 4705101476 6/20/2013 Pay Oil & Gas Deviated 9460 Marcethur 4705101476 6/20/2013 Pay Oil & Gas	60 Pennsylvanjan System 150 Pennsylvanjan System s Fm 7831 Marcellus Fm s Fm 8226 Marcellus Fm s Fm 8511 Marcellus Fm s Fm 8031 Marcellus Fm s Fm 8031 Marcellus Fm s Fm 9031 Marcellus Fm s Fm 90351 Marcellus Fm s Fm 9015 Marcellus Fm s Fm 9015 Marcellus Fm s Fm 10120 Marcellus Fm s Fm 10365 Marcellus Fm s Fm 10306 Marcellus Fm s Fm 10300 Marcellus Fm s Fm 10300 Marcellus Fm s Fm 10300 Marcellus Fm s Fm 10455 Marcellus Fm s Fm 11455 Marcellus Fm s Fm 12175 Marcellus Fm s Fm 12470 Marcellus Fm s Fm 12470 Marcellus Fm	AFT WATER_ONTY
4705101476 Trans Energy, Inc 2015 217,919 20,021 5,239 4705101476 EQT Production Company 2018 130,282 14,741 & 8,38 4705101476 EQT Production Company 2017 97,538 10,010 6,047	34.182 25.761 24.952 23.096 23.476 21.778 21.373 17.221 15.365 0 35.163 17.651 15.938 10.703 14.220 42.379 19.019 9.622 13.032 11.433 11.938 10.765 11.116 10.900 10.413 9.211 9.009 8.974 8.559 9.138 10.160 9.449 9.123 7.355 7.250 6.649 16.020 4.577 5.512 6.509 6.561 5.709 6.712 11.655 11.178	19.674 8.865 4.664 13.083
Production Oil Information: (Volumes in Bbl) ** some operators may in API PRODUCING_OPERATOR PRD_YEAR ANN_OIL JAN FEB MAR 4705101476 Trans Energy, Inc. 2013 0 0 0 0 4705101476 Trans Energy, Inc. 2014 593 0 99 56 4705101476 Trans Energy, Inc. 2015 619 62 19 0 4705101476 EOT Production Company 2017 0 4705101476 EOT Production Company 2017 0 4705101476 EOT Production Company 2017 0	APR MAY JUN JUL AUG SEP OCT NOV DCM 0 0 0 0 0 0 0 0 0 0 37 52 69 80 40 59 31 32 38 93 52 55 82 57 49 48 38 63 0 0 0 0 0 0 0 0 0 0	
Production NGL Information: (Volumes in Bbl) ** some operators may API PRODUCING_OPERATOR PRO_YEAR ANN_NGL_JAN FEB_MZ 4705101476 Trans Energy, Inc. 2013 0 0 0 4705101476 Trans Energy, Inc. 2014 12.466 1.522 1.027 1.3 4705101476 Trans Energy, Inc. 2015 12.385 860 210 4705101476 EQT Production Company 2016 0 0 4705101478 EQT Production Company 2016 0	AR APR MAY JUN JUL AUG SEP OCT NOV DCM	
Production Water Information (Volumes in Gallons) API PRODUCING_OPERATOR PRD_YEAR ANN_WTR JAN FEB MAR 4705101476 ECT Froduction Company 2016 0	R APR MAY JUN JUL AUG SEP OCT NOV DOM	
4705101476 EQT Production Company 2017 0		RECEIVED Office of Oil and Gas
Stratigraphy Information: API SUFFIX FM FM_OUALITY DEPTH_TOP DEPTH 4705101476 Dutd Orgni Loc unidentified coal Weil Record 652 Reason	H_QUALITY THICKNESS THICKNESS_QUALITY ELEV DATUM nable 1310 Ground Level	AUG 1 3 2021
4705101475 Dvtd Orgn Loc Gardon Weil Record 3052 Reaso 4705101475 Dvtd Orgn Loc Middlesex Sh Weil Record 6765 Reaso 4705101475 Dvtd Orgn Loc Burket Sh Mbr Weil Record 6872 Reaso 4705101475 Dvtd Orgn Loc Tully Ls Weil Record 6890 Reaso 4705101476 Dvtd Orgn Loc Tully Ls Weil Record 6890 Reaso 4705101476 Dvtd Orgn Loc Marcellus Fm Weil Record 6917 Reaso	nable 1310 Ground Level nable 56 Ressonable 1310 Ground Level nable 17 Ressonable 1310 Ground Level nable 26 Ressonable 1310 Ground Level nable 76 Ressonable 1310 Ground Level	WV Department of Environmental Protection

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

Page 20 of 36 11/19/2021

WV Geological & Economic Survey:	Well:	County = 51 Permit = 01605 Report Time: Tuesday. April 13, 2021 3.28:50 PM
Location Information: <u>View Map</u> API COUNTY PERMIT TAX_DISTRICT QUAD_76 QUAD_16 LAT_DD 4705101605 Marshall 1605 Liberty <u>Cameron Cameron 39.81582</u>		
Bottom Hole Location information: API EP FLAG UTME UTMN LON_DD LAT_DD 4705101605 1 As Drifled 532830 4405923 -80.616495 39.802641 4705101605 1 As Proposed 532830 4405923 -80.616495 39.802641		
Owner Information: API CKIP_DT SUFFIX STATUS SURFACE_OWNER W 4705101605 6/30/2013 Dvid Orgini Loc Completed Timothy James Hubbs Trust	ELL_NUM	A CO_NUM LEASE LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM 1 Goshern Goshern Ridge LLC Trans Energy, Inc. 7200 Marcellus Fm
Completion Information: API CMP_DT SPUD_DT ELEV DATUM FIELD DEEPE 4705101605 6/30/2013 5/4/2013 1308 Ground Level Cameron-Gamer Marcell Comment: 6/30/2013 KOP 6560'	ST_FM D usFm M	DEEPEST_FMT_INITIAL_CLASS_FINAL_CLASS_TYPE RIG_CMP_MTHD_TVD_TMD_NEW_FTG_KOD_(Marcellus FmDevelopment Well_Development Well_Oil and Gas_Rolary_Fractured_7041_12653_12653_6560_
Pay/Show/Water Information: API CMP DT ACTIVITY PRODUCT SECTION DEPTH_TOP FM_TOR 4705101605 6/30/2013 Water Fresh Water Vertical 4705101605 6/30/2013 Pay Oil & Gas Deviated 7640 Marcellu 4705101605 6/30/2013 Pay Oil & Gas Deviated 80/20 Marcellu 4705101605 6/30/2013 Pay Oil & Gas Deviated 8365 Marcellu 4705101605 6/30/2013 Pay Oil & Gas Deviated 8365 Marcellu 4705101605 6/30/2013 Pay Oil & Gas Deviated 8760 Marcellu	is Fm is Fm is Fm	PTH_BOT_FM_BOTG_BEF_G_AFT_O_BEF_O_AFT_WATER_QNTY 60 Pennsylvanian System 150 Pennsylvanian System 7951 Marcellus Fm 8331 Marcellus Fm 8676 Marcellus Fm 8956 Marcellus Fm
4705101605 6/30/2013 Pay Oil & Gas Deviated 9077 Marcellu 4705101605 6/30/2013 Pay Oil & Gas Deviated 9340 Marcellu 4705101605 6/30/2013 Pay Oil & Gas Deviated 9340 Marcellu 4705101605 6/30/2013 Pay Oil & Gas Deviated 959 Marcellu 4705101605 6/30/2013 Pay Oil & Gas Deviated 9840 Marcellu 4705101605 6/30/2013 Pay Oil & Gas Deviated 10095 Marcellu 4705101605 6/30/2013 Pay Oil & Gas Deviated 10350 Marcellu 4705101605 6/30/2013 Pay Oil & Gas Deviated 10510 Marcellu 4705101605 6/30/2013 Pay Oil & Gas Deviated 10900 Marcellu 4705101605 6/30/2013 Pay Oil & Gas Deviated 11900 Marcellu	is Fm is Fm is Fm is Fm is Fm is Fm is Fm is Fm is Fm	9276 Marcellus Fm 9586 Marcellus Fm 9760 Marcellus Fm 10025 Marcellus Fm 10280 Marcellus Fm 10825 Marcellus Fm 10825 Marcellus Fm 11377 Marcellus Fm 11347 Marcellus Fm
4705101605 6/30/2013 Pay OI & Gas Deviated 11400 Marcellu 4705101605 6/30/2013 Pay Oil & Gas Deviated 11605 Marcellu 4705101605 6/30/2013 Pay Oil & Gas Deviated 11600 Marcellu 4705101605 6/30/2013 Pay Oil & Gas Deviated 11900 Marcellu 4705101605 6/30/2013 Pay Oil & Gas Deviated 12160 Marcellu 4705101605 6/30/2013 Pay Oil & Gas Deviated 12460 Marcellu 4705101605 6/30/2013 Pay Oil & Gas Deviated 12415 Marcellu	ıs Fm ıs Fm	11830 Marcelius Fm 12085 Marcelius Fm 12355 Marcelius Fm 12367 Marcelius Fm
4705101605 Trans Energy, Inc. 2015 535305 58,412 16,531 4705101605 EOT Production Company 2016 453,031 41,613 34,332 4705101605 EOT Production Company 2017 344,966 25,554 30,794	0 97.711 99 0 78 40.244 40 37.566 34 29,519 23	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Production Oil Information: (Volumes In Bbl) ** some operators may I API PRODUCING_OPERATOR PRD_VEAR ANN_OIL JAN FEB MAR 4705101605 Trans Energy, Inc. 2013 0 0 0 0 0 4705101605 Trans Energy, Inc. 2014 1.193 86 90 93 4705101605 Trans Energy, Inc. 2015 1.175 124 37 0 4705101605 EOT Production Company 2016 0 4	APR MA 0 100 9 97 13	vorted NGL under Oli AY JUN JUL AUG SEP OCT NOV DCM 0 0 0 0 0 0 0 0 0 127 143 120 91 30 126 123 147 115 94 78 104 0 0 0 0 0 0 0 0
Production NGL Information: (Volumes in Bbi) ** some operators may API PRODUCING_OPERATOR PRD_YEAR ANN_NGL JAN FEB M 4705101605 Trans Energy, Inc. 2013 0 0 0 0 4705101605 Trans Energy, Inc. 2014 40.250 1.989 3.153 3. 4705101605 Trans Energy, Inc. 2015 28.452 258 663 4705101605 EQT Production Company 2016 651 140 65 4705101605 EQT Production Company 2017 356 365 3705101605 EQT Production Company 2017 356 4705101605 EQT Production Company 2017 356 36 3705101605 201 704444 36 0	AR APR 0 0 721 3.270	MAY JUN JUL AUG SEP OCT NOV DCM 0
Production Water Information: (Volumes in Gallons) API PRODUCING_OPERATOR PRD_YEAR ANN_WTR JAN FEB MAI 4705101605 EQT Production Company 2016 1.205 197 259 14 4705101605 EQT Production Company 2016 1.205 197 259 14 4705101605 EQT Production Company 2017 1.694 235 58 15 4705101605 EQT Production Company 2018 385 0 87 4 4705101605 EQT Production Company 2019 \$83 115 47 13	15 263 3 18 0 15 96 1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Stratigraphy Information: FM FM QUALITY DEPTH_TOP DEPTH_TOP <t< td=""><td>nable nable nable nable nable nable</td><td>WV Department of THICKNESS_QUALITY ELEV DATUM 1308 Ground Level 1308 Ground Level</td></t<>	nable nable nable nable nable nable	WV Department of THICKNESS_QUALITY ELEV DATUM 1308 Ground Level 1308 Ground Level

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 3:28:23 PM

WV Geological & Economic Survey.	well: County = 61 Permit = 00624	Report Time: Tuesday, April 13, 2021 3:28:23 PM
Location Information: View Map		
API COUNTY PERMIT TAX_DISTRICT QUAD_75 QUAD_15 LAT_I	D LON_DD UTME UTMN 022 -80.61095 533301.6 4406633.3	
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_A	CONDITION BOOD VD BOOD TOCT FM TEM
4705100624 6/5/1901 Original Loc Completed William Gray	1 32329 South Penn Oil	(S. Penn Nat. Gas)
4705100624 5/2/1903 Worked Over Completed William Gray 4705100624 10/31/2019 Plugging Completed Beverty Mae Davis	1 32329 South Penn O¥ 1 Gray CNX Gas Co. L	(S. Penn Nat. Gas)
Completion Information:		
API CMP_DT SPUD_DT ELEV DATUM FIELD I	EEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE F	IG CMP_MTHD TVD TMD NEW_FTG KOD C
4705100624 6/5/1901 2/7/1901 1240 Topo Estimation Cameron-Gamer (4705100624 5/2/1903 -/-/- 1240 Topo Estimation Cameron-Gamer (nknovn Nat/Öpen H 3009 3009 nknovn Shot 3009 0
4705100624 10/31/2019 9/11/2019 1253 Ground Level		
Pay/Show/Water Information:		
API CMP_DT ACTIVITY PRODUCT SECTION DEPTH_TOP FM_TC 4705100624 6/5/1901 Pay Oil Ventical 2984 Gordon		ER_QNTY
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	
4705100624 Pennzoii Company 1981 0 0 0 4705100624 Pennzoii Company 1982 6 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
4705100624 Pennzoil Company 1983 1 0 0 4705100624 Pennzoil Company 1984 8 0 0		
4705100624 Pennzoil Products Company 1989 0 0 0	0 0 0 0 0 0 0 0 0 0	
4705100624 Pennzoil Products Company 1998 0 0 0 4705100624 Pennzoil Products Company 1999 0 0 0	ö ö ö ö ö ö ö ö ö	
4705100624 East Resources, Inc. 2000 0 0 0 4705100624 East Resources, Inc. 2001 0 0 0		
4705100624 East Resources. Inc. 2002 0 0 0 4705100624 CNX Gas Co. LLC (North) 2002 0 0 0		
4705100624 CNX Gas Co. LLC (North) 2003 0 0 0		
4705100624 CNX Gas Co. LLC (North) 2004 0 0 0 4705100624 CNX Gas Co. LLC (North) 2005 0 0 0		
4705100624 CNX Gas Co. LLC (North) 2006 0 0 0 4705100624 CNX Gas Co. LLC (North) 2007 0 0 0		
4705100624 CNX Gas Co. LLC (North) 2008 0 0 0	0 0 0 0 0 0 0 0 0 0	
4705100624 CNX Gas Co. LLC (North) 2009 0 0 0 4705100624 CNX Gas Co. LLC (North) 2010 0 0 0	ŏ ŏ ŏ ŏ ŏ ŏ ŏ ŏ ŏ	
4705100624 CNX Gas Co LLC (North) 2011 0 0 4705100624 CNX Gas Co LLC (North) 2012 0 0 0		
4705100824 CNX Gas Co. LLC (North) 2013 0 0 0 4705100624 CNX Gas Co. LLC (North) 2015 0 0 0		
4705100624 CNX Gas Co. LLC (North) 2016 0 0 0	0 0 0 0 0 0 0 0 0 0 0	
4705100624 CNX Gas Co. LLC (North) 2017 0 0 0 4705100624 CNX Gas Co. LLC (North) 2018 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
4705100624 CNX Gas Co. LLC (North) 2019 0 0 0		
Production Oil Information: (Volumes in Bbl) ** some operators ma		
API PRODUCING_OPERATOR PRD_YEAR ANN_OIL JAN FEB N 4705100624 Pennzoil Company 1981 54 0 0	AR APR MAY JUN JUL AUG SEP OCT NOV DCM 0 0 0 0 0 0 0 0 0 0 0	
4705100624 Pennzoil Company 1982 63 0 0 4705100624 Pennzoil Company 1983 33 0 0		
4705100624 Pennzoil Company 1984 19 0 0	Ö Ö Ö Ö Ö Ö Ö Ö Ö	
4705100624 Pennzoil Products Company 1998 0 0 0	Ö Ö Ö Ö Ö Ö Ö Ö Ö	
4705100624 Pennzoil Products Company 1999 0 0 0 4705100624 East Resources, Inc. 2000 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
4705100624 East Resources, Inc. 2001 0 0 0 4705100624 East Resources, Inc. 2002 0 0 0		
4705100624 CNX Gas Co. LLC (North) 2002 0 0 0	0 0 0 0 0 0 0 0 0	
4705100624 CNX Gas Co. LLC (North) 2003 0 0 0 4705100624 CNX Gas Co. LLC (North) 2004 0 0 0	0 0 0 0 0 0 0 0 0	
4705100624 CNX Gas Co. LLC (North) 2005 0 0 0 4705100624 CNX Gas Co. LLC (North) 2006 0 0 0		
4705100624 CNX Gas Co. LLC (North) 2007 0 0 0	Ŏ Ŏ Ŏ Ŏ Ŏ Ŏ Ŏ Ŏ Ŏ	
4705100624 CNX Gas Co. LLC (North) 2009 0 0 0	0 0 0 0 0 0 0 0 0	
4705100624 CNX Gas Co. LLC (North) 2010 0 0 4705100624 CNX Gas Co. LLC (North) 2011 0 0		
4705100624 CNX Gas Co. LLC (North) 2012 0 0 0 4705100624 CNX Gas Co. LLC (North) 2013 0 0 0		
4705100624 CNX Gas Co. LLC (North) 2015 0 0 0	ŎŎŎŎŎŎŎŎŎŎ	RECEIVED
4705100624 CNX Gas Co. LLC (North) 2016 0 4705100624 CNX Gas Co. LLC (North) 2017 0		Office of Oil and Gas
4705100624 CNX Gas Co. LLC (North) 2018 0 0 0 4705100624 CNX Gas Co. LLC (North) 2019 0 0 0		AUG 7 0 2021
Production NGL Information: (Volumes in Bbl) ** some operators n	av have reported NGL under Oil	AUG 1 3 2021
API PRODUCING_OPERATOR PRD_YEAR ANN_NGL JAN FEB M	AR APR MAY JUN JUL AUG SEP OCT NOV DCM	WV Department of
4705100624 CNX Gas Co. LLC (North) 2013 0 0 0 4705100624 CNX Gas Co. LLC (North) 2015 0 0 0		WV Department of Environmental Protection
4705100624 CNX Gas Co. LLC (North) 2016 0	0 0 0 0 0 0 0 0 0	Ellano
4705100224 CNX Gas Co. LLC (North) 2018 0 0 0 4705100624 CNX Gas Co. LLC (North) 2019 0 0 0	<u> </u>	
4705100624 CNX Gas Co. LLC (North) 2018 0 0 0 4705100624 CNX Gas Co. LLC (North) 2019 0 0 0		
4705100624 CNX Gas Co. LLC (North) 2018 0 0 0 4705100624 CNX Gas Co. LLC (North) 2019 0 0 0 Production Water Information: (Volumes in Gallons) Image: Content of the second sec		
4705100624 CNX Gas Co. LLC (North) 2018 0 0 0 4705100624 CNX Gas Co. LLC (North) 2019 0 0 0 Production Water Information: (Volumes in Gallons) 2019 0 0 0		

Well: County = 51 Permit = 00624

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 4705100624 10/31/2019 0

WV Geological & Economic Survey:

Well: County = 51 Permit = 00976

Report Time: Tuesday, April 13, 2021 3:27:17 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4705100976	Marshall	976	Liberty	Cameron	Cameron	39.811226	-80.612279	533186.8	4406877.4

There is no Bottom Hole Location data for this well

Owner Information:

4705100976 12/31/2004 Plugging Completed Bernard G Frye M-434 Consolidation Coal Co.	API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NU	M CO_NUM	LEASE	LEASE_NUM	MINERAL_	OWN.	OPERATOR_AT_COMPLETION	PROP_VD PROP_TRGT_FM TFM_
	4705100976	12/31/2004	Plugging	Completed	Bernard G Frye		M-434	4 (C. 300)		Consolidati	on Coal Co	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 4705100976 12/31/2004 12/9/2004 1084 Ground Level unclassified unclassified unclassified not available 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 4705100976 12/31/2004 0

There is no Sample data for this well

AUG 1 3 2021 WV Department of Environmental Protection

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Well: County = 51 Permit = 00997

Report Time: Tuesday, April 13, 2021 3:27:01 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_76	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4705100997	Marshall	997	Liberty	Cameron	Cameron	39.806664	-80.610902	533306.8	4406371.6

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM CO_NUM	LEASE L	LEASE_NUM	MINERAL_OW	N OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM	TFM_EST_PR
4705100997	-/-/-	Plugging	Permitted	John Keith Davis et ux	M-378				Consolidation Coal Co.	
4705100997	-1-1-	Plugging	Cancelled	John & Beverly Davis	M-378				Consolidation Coal Co.	

Completion Information:

Comment: -/-/- Did not receive cancelled plugging plat, but have received another plugging plat in 2015

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 OII

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

AUG 1 3 2021 WV Department of Environmental Protection

Well: County = 51 Permit = 70205

Report Time: Tuesday, April 13, 2021 3:26:30 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4705170205	Marshall	70205	Liberty	Cameron	Cameron	39.808616	-80.610209	533365.2	4406588.5

There is no Bottom Hole Location data for this well

Owner Information:

	INITIAL_CLASS unclassified	FINAL_CLASS unclassified	TYPE not available	RIG unknown	CMP_MTHD unknown	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT
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 rep	orted NGL und	ler Oil									
There is no Production NGL data for this well ** some operators may have re	eported NGL ur	nder Oll									
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											

AUG 1 3 2021 wvv Department of Environmental Protection

RECEIVED Office of Oil and Gas

Well: County = 51 Permit = 70467

Report Time: Tuesday, April 13, 2021 3:26:11 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4705170467	Marshall	70467	Liberty	Cameron	Cameron	39.806707	-80.609647	533414.2	4406376.8

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SPUD_DT ELEV DATUM FIELD DEEPEST_FM DEEPEST_FMT 4705170467 -{	INITIAL_CLASS unclassified	FINAL_CLASS unclassified	TYPE not available	RIG unknown	CMP_MTHD unknown	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT
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 rep	orted NGL und	ler Oll									
There is no Production NGL data for this well ** some operators may have re	eported NGL u	nder 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											

AUG 1 3 2021 MV Department of Environmental Protection

Well: County = 51 Permit = 70469

Report Time: Tuesday, April 13, 2021 3:25:55 PM

 Location Information:
 View Map

 API
 COUNTY PERMIT TAX_DISTRICT
 QUAD_75
 QUAD_16
 LAT_DD
 LON_DD
 UTME
 UTMN

 4705170469
 Marshall
 70469
 Liberty
 Cameron
 39.810336
 -80.610586
 533332.1
 4406779.2

There is no Bottom Hole Location data for this well

Owner Information:

Completion Information: API CMP_DT SPUD_DT ELEV DATUM FIELD DEEPEST_FM DEEPEST_FMT 4705170469 -/-//-/-	INITIAL_CLASS unclassified	FINAL_CLASS unclassified	TYPE not available	RIG unknown	CMP_MTHD unknown	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT
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 rep	orted NGL und	ler Oil									
There is no Production NGL data for this well ** some operators may have re	eported NGL ur	nder 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 Department of Environmental Protection AUG 1 3 2021

RECEIVED Office of Oil and Gas

V/V Geological & Economic Survey		Well: County = 51 Permit = 00626	Report Time: Tuesday April 13, 2021 3 27:38 PM
	RICT QUAD_75 QUAD_15 LAT_0		
4705100626 Marshall 628 Liberty	Gameron Gameron 3980	876 -80 808517 533510.9 4406396	
There is no Bottom Hole Location data	a for this well		
Owner Information:			OWN OPERATOR AT COMPLETION
API CMP_DT SUFFIX STAT 4705100626 1/27/1902 Original Loc Comp 4705100626 10/26/2007 Plugging Comp	US SURFACE_OWNER Wi leted William Gray leted John K & Beverly M Davis	ELL_NUM_CO_NUM_LEASE_LEASE_NUM_MINERA 4 32329 M-376	LOWN OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM ' South Penn OI (S. Penn Nat, Gas) Consolidation Coal Co.
Completion Information:			and the second s
	DATUM FIELD I Topo Estimation Canteron-Gamer H Ground Level Cameron-Gamer	lampshire Grp Gordon Development Well De	IAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FT velopment Well Oil unknown Shot 3088 30; Jassified not available unknown unknown
Pay/Show/Water Information:			
API CMP_DT ACTIVITY PRODUC 4705100626 1/27/1902 Pay Oil	CT SECTION DEPTH_TOP FM_T(Vertical	OP DEPTH_BOT FM_BOT G_BEF G_AFT 0_BEF 3058 Gordon 0 10	O_AFT_WATER_QNTY
Production Gas Information: (Volumes	in Mcf)		
API PRODUCING_OPERATOR PE 4705100626 Pennzol Company	RD_YEAR ANN_GAS JAN FEB I	MAR APR MAY JUN JUL AUG SEP OCT NOV	
4705100626 Pennzol Company	1982 6 0 0	0 0 0 0 0 0 0 0	D
4705100626 Pennzoli Company 4705100626 Pennzoli Company	1953 1 0 0 1984 8 0 0		0
4705100626 Pennzoil Products Company	1959 0 0 0	0 0 0 0 0 0 0 0	0
4705100626 Pennzoli Products Company 4705100626 Pennzoli Products Company	1991 C O O 1992 O O O		0
4705100628 Pennzoil Products Company	1993 2.064 0 0	202 507 317 248 0 0 0 306 226	258
4705100626 Pennzoli Products Company 4705100626 Pennzoli Products Company	1994 2.035 290 207 1995 1.633 127 139	124 29 202 256 173 146 154 122 184 135 78 133 167 117 166 136 137 143	148
4705100626 Pennzol Products Company	1996. 677 115 88	0 20 50 128 60 75 0 0 28	113
4705100626 Pennzoli Products Company	1997 253 11 0 1998 127 0 0	0 61 24 65 20 63 9 0 0 28 12 0 14 0 25 0 0 0	0 48
4705100626 Pennzoli Products Company 4705100626 Pennzoli Products Company	1999 188 66 59	16 0 0 0 0 0 0 0 47	0
4705100626 East Resources Inc.	2000 332 3 0 2001 227 57 0	46 81 64 46 45 0 0 0 0	47
4705100626 East Resources. Inc. 4705100626 CNX Gas Co LLC (North)	2001 227 57 0 2002 590 0 0	0 0 0 0 68 0 34 6 32 0 0 0 0 0 0 155 153 163	0
4705100626 East Resources, Inc	2002 0 0 0	0 0 0 0 0 0 0 0 0	0
4705100626 CNX Gas Co. LLC (North) 4705100626 CNX Gas Co. LLC (North)	2003 1,752 220 152 2004 1,955 309 126	122 136 133 138 138 148 127 157 117 166 156 151 156 162 143 146 148 133	164 159
4705100626 CNX Gas Co LLC (North)	2005 1.670 131 128	148 145 136 144 145 169 128 128 139	129
4705100626 CNX Gas Co. LLC (North) 4705100626 CNX Gas Co. LLC (North)	2006 1,662 150 148 2007 735 125 125	149 132 144 134 148 123 124 139 146 119 145 123 52 46 0 0 0 0	125
4705100626 CNX Gas Co LLC (North)	2008 0 0 0	0 0 0 0 0 0 0 0	0
4705100626 CNX Gas Co. LLC (North) 4705100626 CNX Gas Co. LLC (North)	2009 0 0 0 0 2010 0 0 0		0
4705100626 CNX Gas Co LLC (North)	2011 0 0 0	0 0 0 0 0 0 0 0 0	ő
Production Oil Information. (Volumes I	n Bbl) ** some operators ma	y have reported NGL under Oil	
API PRODUCING_OPERATOR PE	RD_YEAR ANN_OIL JAN FEB M	AR APR MAY JUN JUL AUG SEP OCT NOV D	CM
4705100626 Pennzoli Company 4705100626 Pennzoli Company	1981 54 0 0 1982 63 0 0		0
4705100626 Pennzoil Company	1983 33 0 0	0 0 0 0 0 0 0 0	0
4705100626 Pennzoil Company 4705100626 Pennzoil Products Company	1984 19 0 0 1989 0 0 0		0
4705100626 Pennzoll Froducts Company	1991 0 0 0	0 0 0 0 0 0 0 0	0
4705100626 Pennzoli Products Company	1992 0 0 0 1993 276 23 80	0 0 0 0 0 0 0 0 0 0 0 25 22 0 0 0 27 24 32 24	0
4705100626 Pennzoil Products Company 4705100626 Pennzoll Products Company	1994 168 14 4	24 14 15 15 12 11 15 13 14	16
4705100626 Pennzoil Products Company		17 14 14 16 11 16 14 16 15	13
4705100626 Pennzoli Products Company 4705100626 Pennzoli Products Company	1996 174 13 11 1997 153 6 11	15 18 14 10 15 15 13 17 23 18 17 16 14 1 14 14 16 13	10
4705100626 Pennzoll Products Company	1998 170 12 13	12 10 13 12 13 13 19 16 18	19
4705100626 Pennzoll Products Company 4705100626 East Resources, Inc.	1999 125 15 10 2000 101 11 10	3 0 0 0 25 31 12 8 8 15 9 10 19 11 15 1 0 0	13
4705100626 East Resources. Inc.	2001 131 9 23	9 10 11 9 13 9 11 9 10	8
4705100626 CNX Gas Co LLC (North) 4705100626 East Resources. Inc.	2002 37 0 0 2002 74 10 8	0 0 0 0 0 0 9 10 9 11 8 7 11 9 10 0 0 0	9
4705100626 CNX Gas Co. LLC (North)	2003 112 10 9	9 10 10 9 10 5 9 7 10	10
4705100626 CNX Gas Co. LLC (North) 4705100626 CNX Gas Co. LLC (North)	2004 111 11 4 2005 100 5 17	10 10 10 9 11 11 2 10 15 0 6 4 12 7 6 18 3 8	7 16
4705100626 CNX Gas Co. LLC (North)	2006 108 10 10	4 10 2 10 11 8 9 9 13	12
4705100626 CNX Gas Co. LLC (North) 4705100626 CNX Gas Co. LLC (North)	2007 0 0 0 2008 0 0 0		0
4705100626 CNX Gas Co. LLC (North)	2009 0 0 0	0 0 0 0 0 0 0 0	
4705100626 CNX Gas Co. LLC (North) 4705100626 CNX Gas Co. LLC (North)	2010 0 0 0 2011 0 0 0		0 RECEIVED Office of Oil and Gas
	2011 0 0 0		Office of Oil and Gas

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 4705100626 10/26/2007 0

AUG 1 3 2021

WV Department of Environmental Protection

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Well: County = 51 Permit = 01016

Report Time: Tuesday, April 13, 2021 3 06:32 PM

Location Information: View Map

API COUNTY PERMIT TAX_DISTRICT_QUAD_75_QUAD_15_LAT_DD_LON_DD_UTME_UTMN 4705101016_Marshall_1016_Liberty_Cameron_Cameron_39.803251_-80.605507_533770.3_4405994.9

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SUFFIX STATUS	SURFACE_OWNER WELL_NUM C	CO_NUM LEASE LEASE_NUM MINERAL_OWN	OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_PR
4705101016 6/29/2006 Plugging Completed	Jean Jamison N		Consolidation Coal Co.

Completion Information:

API	CMP_DT					DEEPEST_FM	DEEPEST	FMT	INITIAL	CLASS	FINAL CLAS	S TYPE	RIG	CMP MTHD	TVD TI	MD NEW	FTG KO	D G BE	FG
470510101	6 6/29/2006	6/9/2006	1315	Ground Level	1.1.2.1.4			-	unclassi	fied	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 OII

There is no Production Water data for this well

Stratigraphy Information:

and the second second second second second second	SUFFIX			DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS	QUALITY EL	EV	DATUM
4705101016	Plugging	Pittsburgh coal	Well Record	1060	Reasonable	6	Reasonable	1	315	Ground Level

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

Plugging Information:

API	PLG_DT	DEPTH_PBT
4705101016	6/29/2006	- 0

There is no Sample data for this well

AUG 1 3 2021 MV Department of Environmental Protection

Well: County = 51 Permit = 01048

Report Time: Tuesday, April 13, 2021 3:06:52 PM

Location Information: View Map

API COUNTY PERMIT TAX_DISTRICT_QUAD_75_QUAD_16_LAT_DD_LON_DD_UTME_UTMN 4705101048_Marshall_1048_Liberty_Cameron_Cameron_39.803251_-80.608139_533545_4405993.9

There is no Bottom Hole Location data for this well

Owner Information:

4705101048 12/15/2006 Plugging Completed Jean Jamison M-384 Unknown Consolidation Coal Co.	API CMP_DT 4705101048 12/15/2006	SUFFIX	STATUS Completed	SURFACE_OWNER Jean Jamison	WELL_NUM		LEASE	LEASE_NUM		OPERATOR_AT_COMPLETION PROP_VD F Consolidation Coal Co.	ROP_TRGT_FM TFM_EST
--	-------------------------------------	--------	---------------------	-------------------------------	----------	--	-------	-----------	--	--	---------------------

Completion Information:

	CMP_DT					FM	DEEPEST	FMT	INITIAL	CLASS	FINAL_CLAS	S TYPE	RIG	CMP_MTH	D TV	D TMD	NEW_FT	G KOD
4705101048	12/15/2006	11/29/2006	1374	Ground Level	Cameron-Garner				unclassi	fied	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
4705101048	12/15/2006	0

There is no Sample data for this well

AUG 1 3 2021 MV Department of Environmental Protection

Well: County = 51 Permit = 01078

Report Time: Tuesday, April 13, 2021 3:07:07 PM

Location Information: View Map

 API
 COUNTY
 PERMIT
 TAX_DISTRICT
 QUAD_76
 QUAD_15
 LAT_DD
 LON_DD
 UTME
 UTMN

 4705101078
 Marshall
 1078
 Liberly
 Cameron
 39.801076
 -80.604567
 533851.9
 4405753.8

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_COM	MPLETION I	PROP VD	PROP TRGT I	M TFM EST PR
4705101078	6/17/2008	Plugging	Completed	Anthony Skrypek		M-424					Consolidation Coal Co	D.			

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
4705	101078	6/17/2008	5/30/2008	1275	Ground Level				-	unclassified	unclassified	not available	unknown	unknown		1961 - 2000 - 2000 V	

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
4705101078	Plugging	Pittsburgh coal	Well Record	1021	Reasonable	6	Reasonable	1275	Ground Level

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

Plugging Information:

API	PLG DT	DEPTH_PBT	٦
4705101078	6/17/2008	0	

There is no Sample data for this well

AUG 1 3 2021 WV Department of Environmental Protection

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Well: County = 51 Permit = 01156

Report Time: Tuesday, April 13, 2021 3.07:21 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4705101156	Marshall	1156					-80 608039		

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUN	A CO_NUM	LEASE	LEASE_NUM	MINERAL	OWN	OPERATOR_A	T_COMPLETION	PROP_VD	PROP_TRG	T FM TFM	EST_PR
4705101156	10/14/2008	Plugging	Completed	Jean Jamison	100,002,001	M-360					Leatherwood, In					

Completion Information:

API		CMP_DT				DEEPEST_FM	DEEPEST	FMT	INITIAL	CLASS	FINAL	CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW FTG	KOD G	BEF G
4705	101156	10/14/2008	10/3/2008	1423	Ground Level	 	0.000		unclassif	ied	unclass	ified	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 OII

There is no Production Water data for this well

Stratigraphy Information:

	SUFFIX			DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS	QUALITY	ELEV	DATUM
4705101156	Plugging	Pittsburgh coal	Well Record	1176	Reasonable	.6	Reasonable		1423	Ground Level

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

Plugging Information:

API	PLG_DT	DEPTH_PBT
4705101156	10/14/2008	0

There is no Sample data for this well

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Well: County = 51 Permit = 30156

Report Time: Tuesday, April 13, 2021 3:07:33 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD 75	QUAD 15	LAT DD	LON DD	UTME	UTMN
4705130156	Marshall	30156	Liberty				-80.603815		

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_TRG1
4705130156	4/19/1903	Original Loc	Completed	Francis Chambers	1	118	Edward Welling Heirs	Francis Chambers	Interstate Pipe & Supply
1									

Completion Information:

API CMF	DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD NEW_FTG
4705130156 4/19	/1903	2/2/1903	1415	Ground Level	Cameron-Garner	UDev undf Ber/LoHURN	Gordon	Development Well	unclassified	Oil	Cable Tool	unknown	3175	3175

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
4705130156 4/19/1	903 Pay	Oil	Vertical		Gordon		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

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH QUALITY	THICKNESS	THICKNESS QUALITY	ELEV	DATUM
4705130156	Original Loc	Sewickley coal	Well Record	1030	Reasonable	6	Reasonable	1415	Ground Level
4705130156	Original Loc	Pittsburgh coal	Well Record	1118	Reasonable	8	Reasonable	1415	Ground Level
4705130156	Original Loc	Bufflo Ss/1st Cow Rn	Well Record	1570	Reasonable	20	Reasonable	1415	Ground Level
4705130156	Original Loc	Mahonig Ss/Big Dunk	Well Record	1630	Reasonable	46	Reasonable	1415	Ground Level
4705130156	Original Loc	Maxton	Well Record	2190	Reasonable	50	Reasonable	1415	Ground Level
4705130156	Original Loc	Big Lime	Well Record	2220	Reasonable			1415	Ground Level
4705130156	Original Loc	Big Injun (undiff)	Well Record	2264	Reasonable	294	Reasonable	1415	Ground Level
4705130158	Original Loc	Gantz	Well Record	2680	Reasonable	20	Reasonable	1415	Ground Level
4705130156	Original Loc	Fifty-foot	Well Record	2876	Reasonable	24	Reasonable	1415	Ground Level
4705130156	Original Loc	Gordon Stray	Well Record	3066	Reasonable	11	Reasonable	1415	Ground Level
4705130156	Original Loc	Gordon	Well Record	3126	Reasonable	23	Reasonable	1415	Ground Level

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

Plugging Information: API PLG_DT DEPTH_PBT 4705130156 4/16/1942 0	Off A Enviro	
There is no Sample data for this well	RECEIVED fice of Oil and Gas AUG 1 3 2021 V Department of primental Protection	

Well: County = 51 Permit = 30184

Report Time: Tuesday, April 13, 2021 3:08:09 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4705130184	Marshall	30184					-80.607575		

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL N	UM CO NUM	LEASE	LEASE NUM	MINERAL OWN	OPERATOR AT COMPLETION	PROP_VD PROP_TRGT_FM TF
4705130184	6/18/1902	Original Loc	Completed	A H Dobbs		4	V P Gorby			South Penn Oil (S. Penn Nat. Gas)	
4705130184	7/9/1904	Worked Over	unknown				1.1.1.1.1.1.1		6. NO.5	unknown	

Completion Information:

API		SPUD_DT			FIELD			INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD NEW_FTG
4705130	184 6/18/1902	4/23/1902	1387	Ground Level	Cameron-Garner	UDev undf Ber/LoHURN	Gordon	Development Well	unclassified	Oil	Cable Tool	Shot	3144	3144
4705130	184 7/9/1904	-1-1-	1387	Ground Level	Cameron-Garner	UDev undf.Ber/LoHURN	Gordon	unclassified	unclassified	Oil	Cable Tool	Shot	3144	C

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:

Plugging Information:

API

API	SUFFIX	FM	FM_QUALITY	DEPTH TOP	DEPTH QUALITY	THICKNESS	THICKNESS QUALITY	ELEV	DATUM
4705130184	Original Loc	unidentified coal	Well Record	650	Reasonable	2	Reasonable	1387	Ground Level
		Sewickley coal	Well Record	1020	Reasonable	3	Reasonable	1387	Ground Level
4705130184	Original Loc	Pittsburgh coal	Well Record	1104	Reasonable	4	Reasonable	1387	Ground Level
4705130184	Original Loc	Bufflo Ss/1st Cow Rn	Well Record	1450	Reasonable	25	Reasonable	1387	Ground Level
4705130184	Original Loc	Mahonig Ss/Big Dunk	Well Record	1600	Reasonable	30	Reasonable	1387	Ground Level
4705130184	Original Loc	Salt Sands (undiff)	Well Record	1650	Reasonable	360	Reasonable	1387	Ground Level
4705130184	Original Loc	Big Lime	Well Record	2195	Reasonable	45	Reasonable	1387	Ground Level
4705130184	Original Loc	Big Injun (undiff)	Well Record	2240	Reasonable	260	Reasonable	1387	Ground Level
4705130184	Original Loc	Gordon Stray	Well Record	3072	Reasonable	4	Reasonable	1387	Ground Level
4705130184	Original Loc	Gordon	Well Record	3112	Reasonable	28	Reasonable	1387	Ground Level

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

WV Department of Environmental Protection RECEIVED Office of Oil and Gas API PLG_DT DEPTH_PBT 4705130184 -/-/1942 0 AUG 1 3 2021 There is no Sample data for this well

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Well: County = 51 Permit = 70462

Report Time: Tuesday, April 13, 2021 3:08:37 PM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD 15	LAT_DD	LON DD	UTME	UTMN
4705170462	Marshall	70462	Liberty						4405895.5

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT SPUD_DT ELEV DATUM FIELD DEEPEST_FM DEEPEST_FMT 4705170462 -/-//-/-	INITIAL_CLASS unclassified	FINAL_CLASS unclassified	TYPE not available	RIG unknown	CMP_MTHD unknown	TVD TI	NEW.	FTG KC	D G_BEF	G_AFT
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 rep	orted NGL und	er Oil								
There is no Production NGL data for this well ** some operators may have re	eported NGL ur	nder 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										

AUG 1 3 2021 WV Department of Environmental Protection

Well: County = 51 Permit = 70463

Report Time: Tuesday, April 13, 2021 3:09:01 PM

 Location Information:
 View Map

 API
 COUNTY
 PERMIT
 TAX_DISTRICT
 QUAD_75
 QUAD_15
 LAT_DD
 LON_DD
 UTME
 UTMN

 4705170463
 Marshall
 70463
 Liberty
 Cameron
 39.80453
 -80.607202
 533624.5
 4406136.1

There is no Bottom Hole Location data for this well

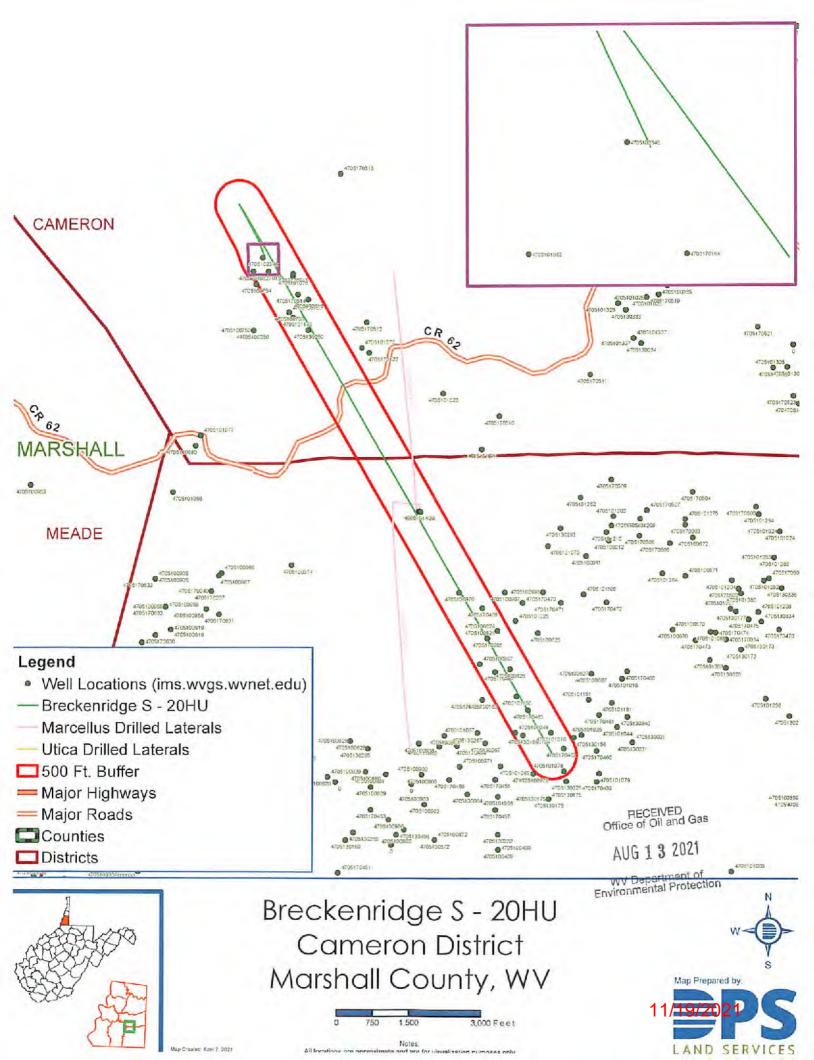
Owner Information:

API CMP_DT SPUD_DT ELEV DATUM FIELD DEEPEST_FM DEEPEST_FMT 4705170463 -//	INITIAL_CLASS unclassified	FINAL_CLASS unclassified	TYPE not-available	RIG unknown	CMP_MTHD unknown	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT
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 rep	orted NGL und	er Oil									
There is no Production NGL data for this well ** some operators may have re	eported NGL ur	nder 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 Department of Environmental Protection

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WW-9		
(4/16)	API Number 47 - 051 -	
STA	Operator's Well No. Breck	enridge S-20HU
	OF ENVIRONMENTAL PROTECTION	
	FFICE OF OIL AND GAS	RECEIVED Office of Oil and Gas
FLUIDS/ CUTTIN	GS DISPOSAL & RECLAMATION PLAN	AUG 1 3 2021
Operator Name Tug Hill Operating, LLC	OP Code _494510851	WV Department of
Watershed (HUC 10) Grave Creek & Laurel Run	Quadrangle Glen Easton 7.5	Environmental Protection
Do you anticipate using more than 5,000 bbls of water Will a pit be used? Yes No	to complete the proposed well work? Yes	No
If so, please describe anticipated pit waste:	AST Tanks with proper containment will be used for staging fresh water f	or frac and flow back water
Will a synthetic liner be used in the pit? Yes	No ✓ If so, what ml.? AST TARKES WILLIG	sed with proper contain
Proposed Disposal Method For Treated Pit W	/astes:	
Land Application		
	IC Permit Number UIC 2459, UIC 965, UIC 359, UIC 2D07	32540, UIC 2D0732523
Reuse (at API Number)
Off Site Disposal (Supply) Other (Explain	form WW-9 for disposal location)	
Will closed loop system be used? If so, describe: Yes	s - For Vertical and Horizontal Drilling	
Drilling medium anticipated for this well (vertical and	horizontal)? Air, freshwater, oil based, etc. Air for	vertical / Oil for Horizontal
-If oil based, what type? Synthetic, petroleun	n, etc. Synthetic Oil Base	
Additives to be used in drilling medium? Barite for we	ight	
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	m will be used? (cement, lime, sawdust) N/A	
-Landfill or offsite name/permit number?	zel County Sanifary Länchi (SWF-1021 /'WW0109185) and Westmoreland Sanifary Landfill, L	LC (SAN1405 / PA DEP EC#1386426)
Permittee shall provide written notice to the Office of West Virginia solid waste facility. The notice shall be where it was properly disposed.		
on August 1, 2005, by the Office of Oil and Gas of the provisions of the permit are enforceable by law. Vio law or regulation can lead to enforcement action.	lations of any term or condition of the general per- personally examined and am familiar with the info- nat, based on my inquiry of those individuals im- ation is true, accurate, and complete. I am aware	ction. I understand that the mit and/or other applicable ormation submitted on this umediately responsible for

Company Official Signature James A Concarles	
Company Official Title_Vice President - Geosciences	
Subscribed and sworn before me this 8th day of April , 2	20 21
My commission expires 1/15/2025	ry Public Susanne Deliere, Notary Public Washington County My commissi dn/ex0/es0/es0/es0232 Member, Pennsylvania Association of Notaries

Tug Hill Operating, LLC

Proposed Revegetation Treatment	nt: Acres Disturbed 45.4	40 Prevegetation pH	6.0
Lime_3	Tons/acre or to correct t	орН	
Fertilizer type 10-20-	20		
Fertilizer amount 500		lbs/acre	
Mulch2.5	т	ons/acre	
		Seed Mixtures	
Temp	orary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Ryegrass	40	Orchard Grass	12
Spring Oats	96	Ladino	3
		White Clover	2

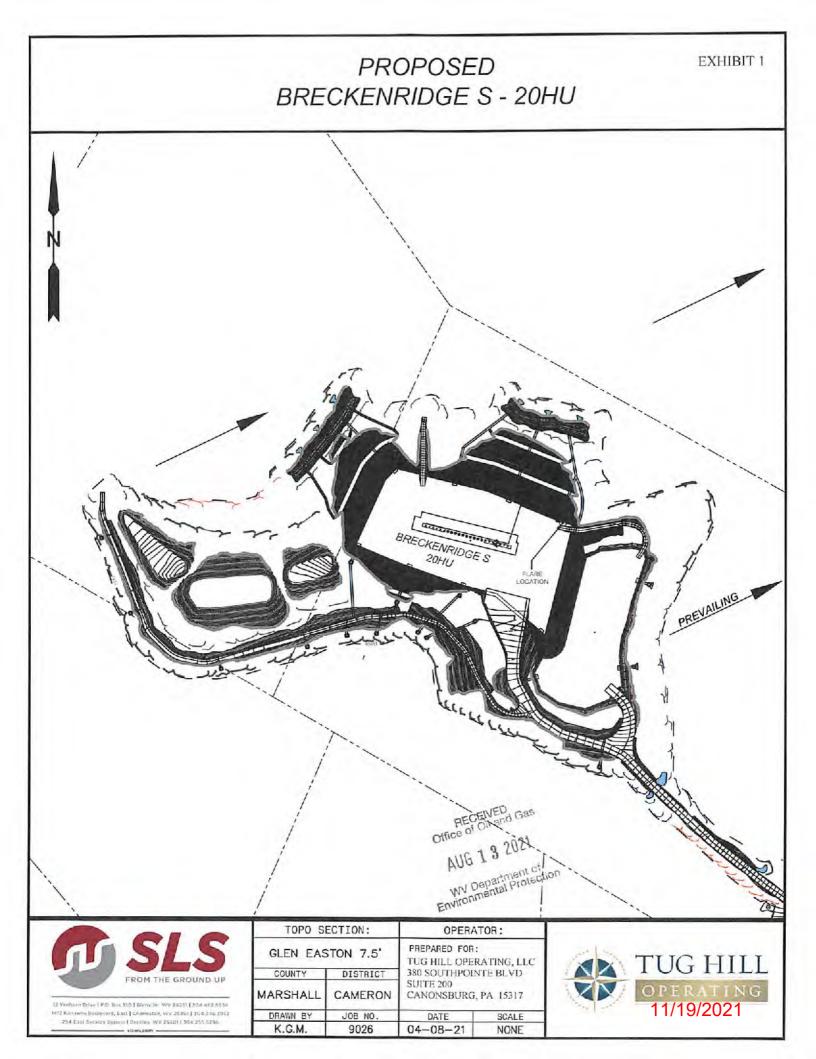
Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Barry Stilly	
Comments:	
	RECEIVED Office of Cill and Gas AUG 1 3 2021
	AUG 1 3 2021
	AUG 1 3 2021 WV Department of Environmental Protecti
	L
Title: Oil and Gas Inspector	6-17-21
Field Reviewed? () Yes () No	le - (- 2 (

11/19/2021



4705102300

Breckenridge Coal Exhibit



RECEIVED Office of Oil and Gas

AUG 1 3 2021 WV Department of Environmental 9rg1/91/2021

4705102399



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

Well Name: Breckenridge S-20HU Pad Name: Breckenridge County: Marshall

UTM (meters), NAD83, Zone 17 Northing: 4,408,984.00 Easting: 531,954.86

Bary Step 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)

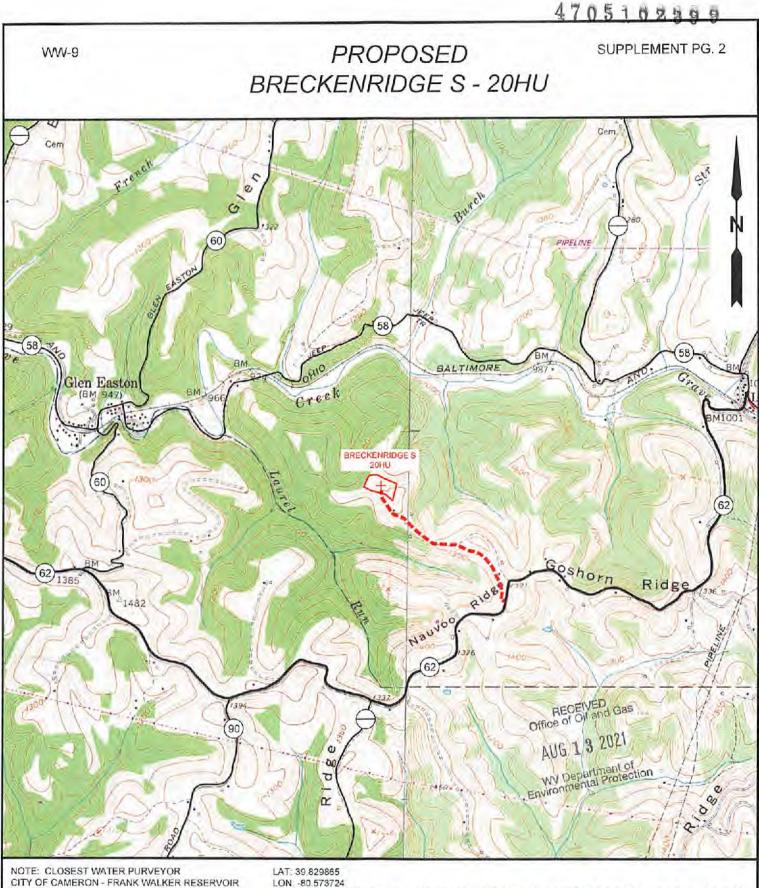
24-HOUR EMERGENCY PHONE NUMBER

(800) 921-9745

RECEIVED Office of Oil and Gas

AUG 1 3 2021

WV Department of Environmental Protection 11/19/2021



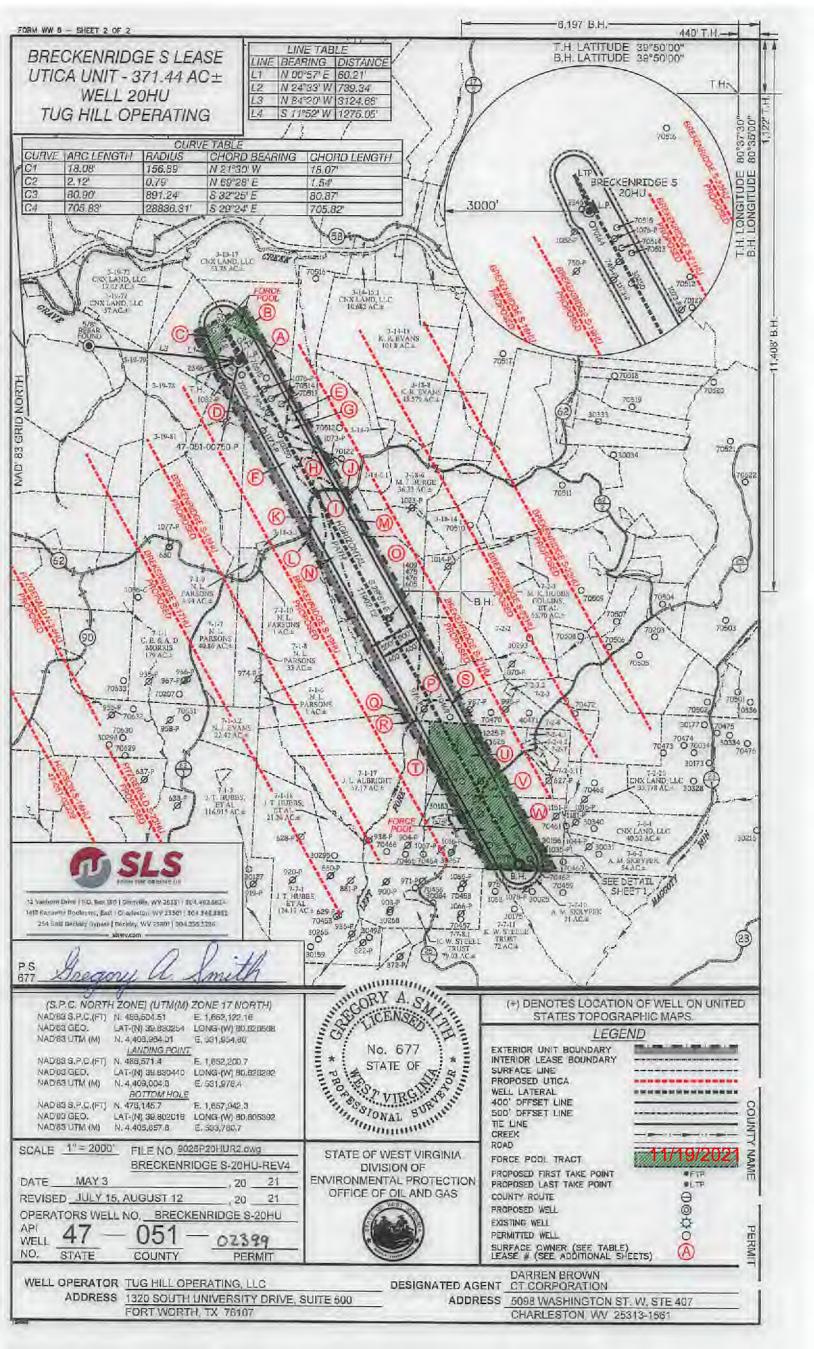
CAMDEN, WV

LON: -80.573724 LOCATED: S 88°42'19" E AT 14,928,72' FROM THE CENTER OF BRECKENRIDGE N WELL PAD LOCATION.

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FROM THE GOOUND UP	
12 Vanhorn Drive P.O. Box 150 Glenville, WV 26351 304 462 5	634
412 Kanawha Boulevard, Enst Charleston, WV 25301 304 345.	595
254 East Beckley Bypass Beckley, WV 25801 304,255,5296	1
elevateam	

		Contraction (1916)			
TOPO S	ECTION:	OPER	ATOR:		
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COUNTY	DISTRICT	380 SOUTHPOI	NTE BLVD	A TUGIIILL	
MARSHALL	CAMERON	SUITE 200 CANONSBURG	PA 15317	OPERATING	
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the second second second second second	T.H. LATITUDE 39°50'00" B.H. LATITUDE 39°50'00"	
BRECKENRIDGE S LEASE UTICA UNIT - 371.44 AC±		
WELL 20HU	T.H	-
TUG HILL OPERATING		
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S RICKIE GENE FRYE T JEAN JAMISON	7-1-19 51.89 3-19-81 XCL PROCESSING OPERATING LLC 26.52	_
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	7.7.9 WILLARD JUNIOR EVANS & ROSE MARY EVANS - LIFE 2.214	
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	REFERENCE	-S
DETAIL SCALE: 1" = 500'	1" = 2	00'
	BRECKENRIDGE 5 O	
	B.H 20H0	
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	> 2500 SO FT OR DWFLINGS WERE FOUND WITHIN 625'	- 1
	≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAO. 2. WELL SPOT DIRCLE & TOPO MARK SCALE ARE 1"=2000'	
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FORM WW 6 - SHEET 3

BRECKENRIDGE S LEASE UTICA UNIT - 371.44 AC± WELL 20HU TUG HILL OPERATING



	NO.	Lease ID	Parcel	Tag	Grantor, Lessor, Etc.	Deed Bo	ok/Page
V	1	10*31241	3-19-75	A	JAMES R WAYT, ET AL	729	40
	2	**FORCE POOL**	3-19-75	B	KATHERINE ZOGG OLIVER	663	449
1	3	**FORCE POOL**	3-19-74	С	KATHERINE ZOGG OLIVER	663	449
	4	10*25525	3-19-77	D	JAN MARIE CREGO, ET AL	939	601
	5	10*17925	3-18-1	E	BOUNTY MINERALS LLC	928	393
/	6	10*17925	3-18-3	F	BOUNTY MINERALS LLC	928	393
	7	10*17925	3-18-2	G	BOUNTY MINERALS LLC	928	393
2	8	10*17925	3-18-3.3	н	BOUNTY MINERALS LLC	928	393
	9	10*17925	3-18-3.2	1	BOUNTY MINERALS LLC	928	393
	10	10*17925	3-18-38	1	BOUNTY MINERALS LLC	928	393
-	11	10*17925	3-18-4	K	BOUNTY MINERALS LLC	928	393
	12	10*17925	7-1-11	L	BOUNTY MINERALS LLC	928	393
	13	10*17925	3-18-5	М	BOUNTY MINERALS LLC	928	393
1	14	10*17925	7-1-12	N	BOUNTY MINERALS LLC	928	393
V	15	10*17925	7-1-13	0	BOUNTY MINERALS LLC	928	393
1	16	10*29980	7-1-14	р	OLIVIA S ALLEN AND TIM C ALLEN	1103	537
10	17	10*30003	7-1-14	Р	MOLLY K COLLINS AND CHAD J COLLINS	1103	541
1	18	10*17925	7-1-15	Q	BOUNTY MINERALS LLC	928	393
18	19	10*17925	7-1-16	R	BOUNTY MINERALS LLC	928	393
1	20	10*25503	7-2-3.1	5	BEVERLY MAE DAVIS, ET AL	910	270
	21	10*17925	7-1-19	T	BOUNTY MINERALS LLC	928	393
1	22	10*30483	7.2.4	U	DAVID W MITCHELL ET AL	1105	.1
	23	10*30483	7-2-5	V	DAVID W MITCHELL ET AL	1105	1
1	24	10*29038	7-7-9.1	W	CONSTANCE LINT, ET AL	747	86

FILE NO. 9026P20HUR2.dwg BRECKENRIDGE S-20HU-REV4	SHUMBER A. SAMA	STATE OF WEST VIRGINIA
DATE MAY 3 , 20 21 REVISED JULY 15, AUGUST 12 , 20 21	No. 677	DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS
OPERATORS WELL NO. BRECKENRIDGE S-20HU API WELL 47 051 02399 NO. STATE COUNTY PERMIT	STATE OF VIRCHUS	P.S. Jregory a. Smith
WELL OPERATOR TUG HILL OPERATING, LLC ADDRESS 1320 SOUTH UNIVERSITY DRIVE, S FORT WORTH, TX 76107	DESIGNATED AGE UITE 500 ADDRE	DARREN BROWN ENT CT CORPORATION ESS 5098 WASHINGTON ST. W, STE 407 CHARLESTON, WV 25313-1561

4795192399

WW-6A1 (5/13) Operator's Well No. Breckenridge S-20HU

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 ANU SUBTRIS
Its:	Permitting Specialist - Appalachia Region

Page 1 of _____

WW-6A1 Supplement

WELL BORE TRACTS

	1	WW-6A1 Supplement Gerator's Well No. Breckenrid													enriage S-20HU	
Image Print Tag Concernents Tag Concernents Tag Augement Augement </td <td></td> <td colspan="13"></td> <td></td>																
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Mark Mark <th< td=""><td>J</td><td></td><td></td><td></td><td>JAMES R WAYT</td><td>하고 문 방 방 문 문 문 문 문 문 문 문 문 문 문 문 문</td><td></td><td></td><td></td><td></td><td></td><td></td><td>N/A</td><td>Trans Energy Inc to Republic</td><td>Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT</td><td>EQT Production Company to</td></th<>	J				JAMES R WAYT	하고 문 방 방 문 문 문 문 문 문 문 문 문 문 문 문 문							N/A	Trans Energy Inc to Republic	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT	EQT Production Company to
Product (opt) J-J-A C Landeman Edd Column Description Factor (opt) Description Factor (opt		10*31242	3-19-76	A		TRANS ENERGY INC AND REPUBLIC	1/8+	729	49	N/A	N/A	N/A	N/A		Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT	
U 19/12/25 1/1	1	**FORCE POOL**	3-19-74	с	KATHERINE ZOGG OLIVER	GREAT LAKES ENERGY PARTNERS, LLC	1/8+	663	449	Resources - Appalachia LLC:	LLC to Chesapeake Appalachia LLC and Statoil USA Onshore	Statoil USA Onshore	SWN Production Company	Properties Inc to SWN Exchange Title Holder LLC:	Exchange Titleholder LLC merged with and Into SWN Production Company LLC: CB	
U U	. 'E				BOUNTY MINERALS LLC	TH EXPLORATION LLC										
UNDER/16 7-52.1 II DECOMPTIMINISTIC THE PROMONDIAL TAP <	J٢					TH EXPLORATION LLC										
UP:0293 2-33 0 DOWN** MIREAU LLC THE DEPORTING LLC 1/2 153 857 N/A N/A N/A N/A <t< td=""><td>_v⊢</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	_v⊢															
JUNC Distance Distance <thdistance< th=""> Distance <thd< td=""><td>∽∕⊢</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thd<></thdistance<>	∽∕⊢															
10/2000 72-34. 5 000000000000000000000000000000000000	۲Ł															
19*2507 7-2-3.1 5 DAVID LIE DAVIG AND A JANE DAVIS AMERICAN PERIODULUN PARTINESS LLC 1/8 50 25 N/A N/A N/A N/A N/A N/A Operating Lic 0 TM Dependence Actions. P Action 19*2528 7-2-3.1 5 XAREN S HOLT AMERICAN PETROLEUM PARTINESS LLC 1/8 92 21 N/A N/A <td></td> <td>Operating LLC to TH Exploration LLC: 43/503</td>																Operating LLC to TH Exploration LLC: 43/503
10*25229 7-3-3.1 5 KAREN SHOLT AMERICAN PETROLEUM PATTNESLIC 1/8 90 261 N/A		10*25507	7-2-3.1	5	DAVID LEE DAVIS AND A JANE DAVIS	AMERICAN PETROLEUM PARTNERS LLC	1/8+	910	265	N/A	N/A	N/A	N/A	N/A	N/A	Operating LLC to TH Exploration LLC: 43/503
10*25531 7-3-3.1 5 KATHY LYOUNG AND ROONEY A YOUNG AMERICAN PETROLEUM PARTNERSLIC 1/4 9.2 1.42 N/A N/A <td></td> <td>10*25529</td> <td>7-2-3.1</td> <td>s</td> <td>KAREN S HOLT</td> <td>AMERICAN PETROLEUM PARTNERS LLC</td> <td>1/8+</td> <td>930</td> <td>261</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>Operating LLC to TH Exploration LLC: 43/503</td>		10*25529	7-2-3.1	s	KAREN S HOLT	AMERICAN PETROLEUM PARTNERS LLC	1/8+	930	261	N/A	N/A	N/A	N/A	N/A	N/A	Operating LLC to TH Exploration LLC: 43/503
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		10*25531	7-2-3.1	s	KATHY L YOUNG AND RODNEY A YOUNG	AMERICAN PETROLEUM PARTNERS LLC	1/8+	932	142	N/A	N/A	N/A	N/A	N/A	N/A	Operating LLC to TH Exploration LLC: 43/503
10*2537 7:23.1 5 SUSAN EWRIGHT AMERICAN PETROLEUM PARTNERS LLC 1/8 932 207 N/A N/A <td></td> <td>10*25535</td> <td>7-2-3.1</td> <td>s</td> <td>RICKY J CAIN</td> <td>AMERICAN PETROLEUM PARTNERS LLC</td> <td>1/8+</td> <td>930</td> <td>295</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>Operating LLC to TH Exploration LLC: 43/503</td>		10*25535	7-2-3.1	s	RICKY J CAIN	AMERICAN PETROLEUM PARTNERS LLC	1/8+	930	295	N/A	N/A	N/A	N/A	N/A	N/A	Operating LLC to TH Exploration LLC: 43/503
10*20154 7-24 U MICHELIE ABRAMS AND DOINNED ABBAMS THE PERIORATION LUC 1/64 1/0A N/A						AMERICAN PETROLEUM PARTNERS LLC			207							Operating LLC to TH Exploration LLC: 43/503
10*3065 7*2-4 U MARKLE PARKINS Iff EXPLORATION LLC 1/8* 10/10 N/A	≁⊢			-												
10 300067-2-40Comme Micro Mand Curin A MIGUMIf It EXPLORATION LLC1/8+1102251//AN/AN/AN/AN/AN/A10 305077-2-4UEDISON K MICRELL AND MARIELET MITCHELLTH EXPLORATION LLC1/8+110526N/AN/AN/AN/AN/AN/AN/AN/A10 305057-2-4URAYMOND LMTCHELLTH EXPLORATION LLC1/8+1104637N/AN/AN/AN/AN/AN/A10 305057-2-4URAYMOND LMTCHELLTH EXPLORATION LLC1/8+104637N/AN/AN/AN/AN/AN/A10 305057-2-4URAYMOND AMDREWSUNLEASEDN/AN/AN/AN/AN/AN/AN/A10 30501*7-2-4UROBERT GON ANDREWSUNLEASEDN/AN/AN/AN/AN/AN/AN/AN/A10 4 305557-2-4UROBERT GON ANDREWSUNLEASEDN/AN/AN/AN/AN/AN/AN/AN/A10 **FORCE POOL**7-2-4UDONALD WAYNE ANDREWSUNLEASEDN/AN/AN/AN/AN/AN/AN/AN/AN/A**FORCE POOL**7-2-4UJANET LORRAINE ANDREWSUNLEASEDN/AN/AN/AN/AN/AN/AN/AN/AN/A**FORCE POOL**7-2-4UJANET LORRAINE ANDREWS PUSCARICHUNLEASEDN/AN/AN/A	⊢															
10*301577:2-4UEDISON K MITCHELL AND MARILE J MITCHELLTHE EXPLORATION LLC1/8104645N/AN/AN/AN/AN/AN/A10*301567:2-4URATMOND L MITCHELL AND MARIT L MITCHELLTH EXPLORATION LLC1/8104645N/AN/AN/AN/AN/AN/AN/A10*301567:2-4URATMOND L MITCHELL AND MARIT L MITCHELLTH EXPLORATION LLC1/8104645N/AN/AN/AN/AN/AN/AN/A10*301567:2-4UROSERT EDISON ANDREWS AV/A EDISON ANDREWSUNLEASEDN/AN/AN/AN/AN/AN/AN/AN/A10*301577:2-4UROSERT EDISON ANDREWS AV/A EDISON ANDREWSUNLEASEDN/AN/AN/AN/AN/AN/AN/A**FORCE POOL**7:2-4UDONALD WAYNE ANDREWSUNLEASEDN/AN/AN/AN/AN/AN/AN/A**FORCE POOL**7:2-4UJANETLORRAINE ANDREWS PUSARICHUNLEASEDN/AN/AN/AN/AN/AN/AN/AN/A**FORCE POOL**7:2-4UJANETLORRAINE ANDREWS PUSARICHUNLEASEDN/AN/AN/AN/AN/AN/AN/AN/A**FORCE POOL**7:2-4UJANETLORRAINE ANDREWS PUSARICHUNLEASEDN/AN/AN/AN/AN/AN/AN/AN/AN/A**FORCE POOL**7:2-4UJANETLORRAINE ANDREWS																
10*301567-24URAYMOND L MITCHELL AND LANET L MITCHELLTH EXPLORATION LLC1/61/61/61/6N/AN/AN/AN/AN/AN/AN/AN/A10*305357-24UROBERT EDISON ANDREWSTH EXPLORATION LLC1/81/81/81/8N/A	F														N/A	
10"383357-2-4UCAROLYNA POSTLETHWAITETH EXPLORATION LLC1/8108548N/AN/AN/AN/AN/AN/AN/A**FORCE POOL**7-2-4UROBERT EDISON ANDREWSUNIEASEDN/A														N/A		
FORCE POOL 7-2-4 U ROBERT EDISON ANDREWS A/K/A EDISON ANDREWS UNLEASED N/A N/		10*38535	7-2-4	U	CAROLYN A POSTLETHWAITE					N/A	N/A	N/A				
FORCE POOL 7-2-4 U JANE LORGED AND REVIS PUSKARICH UNLEASED N/A	Ē					UNLEASED										
Noncer Gold N/A N/A <th< td=""><td>⊢</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	⊢															
Trace POULT 7-24 U SPRINGER UNLEASED N/A					KRISTINA OWENS KOLLER F/K/A KRISTINA OWENS	AMERICAN SHALE DEVELOPMENT INC AND							American Shale Devel. Inc to Republic Partners Vill LLC:	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VI & VIII, LLC, and Republic Energy Operating LLC to EQT	EQT Production Company to SWN Production Company & Equinor USA Onshore	
				υ		UNLEASED	N/A	N/A	N/A	N/A	N/A					
		FORCE POOL **	7-2-4	υ		UNLEASED	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**FORCE POOL

W	W-6A1 Su	ppleme	ent	ED and Gas 2021	Grantee, Lessee, Etc.				WELL BORE TRA	ACTS		Operator 's	s Well No. <u>Breck</u>	enridge S-20HU	
	Lease ID	Parcel	Tag	Grantor, Lessor, Etc>	Grantee, Lessee, Etc.	Rovalty	Deed Bo	ok/Page	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
	••FORCE POOL ••	7-2-4	U	KAIFE OMENS MIG: 0 10	CANERICAN SHALE DEVELOPMENT INC AND CANERICAN SHALE DEVELOPMENT INC AND	1/8+	789	296	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	7-2-4	U	SUSAN L CLENDENNING	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	761	290	N/A	Trans Energy Inc to Republic Energy Ventures LLC: 26/632	Republic Energy Ventures LLC to American Shale Development Inc: 28/227	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	EQT Production Company to SWN Production Company & Equinor USA Onshore Properties Inc: 44/489	**FORCE POOL**
	Force pool **	7-2-4	U	CAROLE SIMMONS	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	759	596	N/A	Trans Energy Inc to Republic Energy Ventures LLC: 26/632	Republic Energy Ventures LLC to American Shale Development Inc: 28/227	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	7-2-4	U	JACK OWENS JR.	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	750	575	N/A	Trans Energy Inc to Republic Energy Ventures LLC: 26/632	Republic Energy Ventures LLC to American Shale Development Inc: 28/227	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**	7-2-4	U	ALLEN W. OWENS	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	750	576	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 Onshore Properties Inc: 44/489	**FORCE POOL**
	10*29038	7-7-9.1	w	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	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
	*FORCE POOL**	7-7-9.1	w	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**		w	SANDRA LINT	AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC		787			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 VI, & 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**
	*FORCE POOL**	7-7-9.1	w	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**

Lease ID	Parcel	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Bo	ok/Page	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
FORCE POOL	7-7-9.1	w	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**
FORCE POOL	7-7-9.1	8	RHEA TEDROW	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	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 Viil 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**
10*28335	7-7-9.1	W	DENNIS TEDROW	TH EXPLORATION LLC	1/8+	1070		N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*27421	7-7-9.1	W	MARTHA MILTON	TH EXPLORATION LLC	1/8+		574	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*39020	7-7-9.1	w	MARCIE WITHEROW	TH EXPLORATION LLC	1/8+		515	N/A	N/A	N/A	N/A	N/A	N/A	N/A **FORCE POOL**
FORCE POOL 10*29114	7-7-9.1	w w	PENNY TEDROW AMBROSE TERRY WITHEROW	UNLEASED TH EXPLORATION LLC	N/A 1/8+	N/A	N/A	N/A 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*29513	7-7-9.1	w	TRACY J. WEGENDT	TH EXPLORATION LLC	1/8+		396 292	N/A N/A	N/A	N/A N/A	N/A N/A		N/A	N/A
10*29766	7-7-9.1	w	STEWART TEDROW	TH EXPLORATION LLC		11096	292	N/A N/A	N/A N/A	N/A	N/A	N/A	N/A	N/A
10*28336	7-7-9.1	Ŵ	DUSTIN TEDROW	TH EXPLORATION LLC		1070		N/A	N/A	N/A	N/A	N/A	N/A	N/A
FORCE POOL	7-7-9.1	w	SHIRLEY MORGAN and Gas 2021	TRASES ENERGY INC AND REPUBLIC O PARTNERS VI LP O つ ひ つ し し し	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	EQT Production Company to SWN Production Company & Equinor USA Onshore Properties Inc: 44/489	**FORCE POOL**
FORCE POOL	7-7-9.1	w	Office of Oil and AUG 1 3 202	다. 고 고 다 고 다 고 다 다 다 다 다 다 다 다 다 다 다 다 다	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	EQT Production Company to SWN Production Company & Equinor USA Onshore Properties Inc: 44/489	**FORCE POOL**
10*38578	7-7- 9 .1	w	LLOYD TEDROW	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	N/A	754	18	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 & 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	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	w	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 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	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	7-7-9.1	w	GARY L. TEDROW, JR	TH EXPLORATION LLC	1/8+			N/A	N/A	N/A	N/A	N/A	N/A	N/A

Lease ID	Parcel	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Bo	ook/Page	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
10*38648	7-7-9.1	×	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	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
Force pool	7-7-9.1	w	CHARLES F. MARTIN, JR.	AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	777	592	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 VI & 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**
10*38651	7-7-9.1	w	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	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*38557	7-7-9.1	w	DEBBIE DEGROFF	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	750	508	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 & 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	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	w	MARY LOU HARRISON	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	759	598	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 VI & 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**
10 * 38536	7-7-9.1	w	JOHN SAMUEL TEDROW	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	757	285	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	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*38549	7-7-9.1	w	ROBERT TEDROW	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	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	Parcel	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Bo	ook/Page	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
10*38601	7-7-9.1	8	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	7-7-9.1	w	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	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	7-7-9.1	w	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 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		SWN Production Company LLC to TH Exploration LLC: 49/120
10°38574	7-7-9.1	w	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: 31/482	Republic Energy Ventures LLC, Republic Partners VI, & VII, Republic Partners VI, & 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	Properties Inc to TH	SWN Production Company LLC to TH Exploration LLC: 49/120
10°38649	7-7-9.1	w	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 VI, & 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	Equinor USA Onshare Properties Inc to TH Exploration LLC: 49/104	SWN Production Company LLC to TH Exploration LLC: 49/120
10°38554	7-7-9.1	w	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 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*38624	7-7-9.1	w	ANTHONY J TERAVECCHIA	TRANS ENERGY INC AND REPUBLIC PARTNERS VI LP	1/8+	754	15	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	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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Image: Properties in the second sec	Lease ID	Parcel	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Bo	ook/Page	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
Image is a set of the set of th	**FORCE POOL**	7-7- 9 .1	w			1/8+	777	593	N/A	N/A	N/A	Republic Partners VIII LLC:	Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT	SWN Production Company & Equinor USA Onshore	
PRODUCT VI Description (intervent of the second s			W	DOROTHY D. DILLE	UNLEASED	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
THEORY DOL: $3/2$ </td <td>**FORCE POOL**</td> <td>7-7-9.1</td> <td>w</td> <td>DARLENE MARIE DILLE WADDINGHAM</td> <td>UNLEASED</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>**FORCE POOL**</td>	**FORCE POOL**	7-7-9.1	w	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**
Product No. Solar	PENDING	7-7-9.1	w	JOYCE LYNNE LOWRY	TH EXPLORATION LLC	1/8+	1114	314	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1**0GET DC2**7.93.1WSOUND EL MURPHYLET PRODUCTION CD 10 61 62 N/AN/AN/AN/AN/AProduction Company Production Company Production Company Dependence Company Linguige Framer VLProduction Company Production Company Dependence Company Linguige Framer VLN/A <t< td=""><td>**FORCE POOL**</td><td>7-7-9.1</td><td>w</td><td>GUY DILLE</td><td>TRANS ENERGY INC AND REPUBLIC</td><td></td><td></td><td></td><td></td><td>N/A</td><td></td><td>Republic Partners VIII LLC:</td><td>Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT</td><td>SWN Production Company & Equinor USA Onshore</td><td>**FORCE POOL**</td></t<>	**FORCE POOL**	7-7-9.1	w	GUY DILLE	TRANS ENERGY INC AND REPUBLIC					N/A		Republic Partners VIII LLC:	Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT	SWN Production Company & Equinor USA Onshore	**FORCE POOL**
$n^{-1/2}$ v 0	**FORCE POOL**	7-7-9.1	w	BONNIE L. MURPHY	EQT PRODUCTION CO.	1/8+	961	572	N/A	N/A	N/A	N/A	N/A	SWN Production Company & Equinore USA Onshore	**FORCE POOL**
Line Line Line Mathematication Line Mathematication Mathmatication Mathematication	10*30155	7-7-9.1	w		TH EXPLORATION LLC	1/8+	1104	633	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10° 3650 27-9.1 W Maslotle HARTMAN TARIS ENERGY INC. AD REFULIC. U_{19} 70 49 N/A Trais Energy in to Annotas Amorian Sala Development Inc. Republic Energy Venture LLC, Paperlie Inc. W/A Equino USA online Paperlie Inc. W/A Equino USA online Paparlie Inc. W/A Equino USA onl	10*39051	7-7-9.1	w	SUZANNE TAYLOR	TH EXPLORATION LLC	1/8+	1104	635	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*3863 7.7-9.1 W JANICE C. HETRICK TRAMS ENERGY INC. AND REPUBLIC 1/8 7.5 4.55 N/A Trans Energy Inc. to Republic Republic Partners VII L/C Republic Partners VII L/C Republic Partners VII L/C SVN Production Company Inc. Properties Inc. VI/P Republic Partners VII L/C SVN Production Company Inc. Properties Inc. VI/P Republic Partners VII L/C SVN Production Company Inc. Properties Inc. VI/P Republic Partners VII L/C SVN Production Company Inc. Properties Inc. VI/P Republic Partners VII L/C SVN Production Company Inc. Properties Inc. VI/P Republic Partners VII L/C SVN Production Company Inc. Properties Inc. VI/P Properties Inc. VI/P Republic Partners VII L/C SVN Production Company Inc. Properties Inc. VI/P Republic Partners VII L/C SVN Production Company Inc. Properties Inc. VI/P Republic Partners VII L/C SVN Production Company Inc. Properties Inc. VI/P Proparties Inc. VI/P Properties In	10*38630	7-7-9.1	w	MARJORIE HARTMAN		1/8+	750	493	N/A	Shale Development Inc:	Republic Partners VIII LLC:	Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT	SWN Production Company & Equinor USA Onshore	Properties Inc to TH	
Internal Description Description <thdescription< th=""> <thdescription< th=""> <t< td=""><td>10*38633</td><td>7-7-9.1</td><td>w</td><td>JANICE C. HETRICK</td><td></td><td>1/8+</td><td>750</td><td>495</td><td>N/A</td><td></td><td>Republic Partners VIII LLC:</td><td>Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT</td><td>SWN Production Company & Equinor USA Onshore</td><td>Properties Inc to TH</td><td></td></t<></thdescription<></thdescription<>	10*38633	7-7-9.1	w	JANICE C. HETRICK		1/8+	750	495	N/A		Republic Partners VIII LLC:	Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT	SWN Production Company & Equinor USA Onshore	Properties Inc to TH	
10*2939 7.7.9.1 W DONALD H. SHANOR TRANS ENERGY INC AND REPUBLIC PARTNERS VILP 1/8* 7.54 19 N/A Trans Energy Inc to Republic Energy Ventures LLC: 26/632 Republic Partners VII & UT, Bepublic Partners VII & UT, S1/482 Republic Partners VII & UT, Republic Partners VII & UT, S1/482 Equinor USA Onshore Properties Inc: 40/489 Equinor USA Onshore Properties Inc: 40/489 Equinor USA Onshore Properties Inc: 40/489 SWN Production Company LC SUN Production Company LC SUN Production Company LC **FORCE POOL** 7.7-9.1 W HOWARD A. SHANOR, IR. UILEASED N/A	**FORCE POOL**	7-7-9.1	w	FOT PRODUCTION CO	SWN PRODUCTION CO	1/8+	1065	545	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*29138 77-9.1 W DECORAL ANN GORBY TH EXPLORATION LLC 1/A N/A	10*29939	7-7-9.1			TRANS ENERGY INC AND REPUBLIC					Trans Energy Inc to Republic	American Shale Devel. Inc to Republic Partners VIII LLC:	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VII & VIII, LLC, and Republic Energy Operating LLC to EQT	EQT Production Company to SWN Production Company & Equinor USA Onshore Properties Inc: 44/489	Properties Inc to TH Exploration LLC: 49/104	to TH Exploration LLC: 49/120
10*29138 77-9.1 W DEBORAH ANN GORBY TH EXPLORATION LLC 1/8+ 1085 180 N/A N/A N/A N/A N/A N/A 10*30483 77-9.1 W DAVID W MITCHELL TH EXPLORATION LLC 1/8+ 105 1 N/A N/	**FORCE POOL**	7-7-9.1	w	HOWARD A. SHANOR, JR.	UNLEASED	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
10*30483 7-7-9.1 W DAVID W MITCHELL TH EXPLORATION LLC 1/8+ 1105 1 N/A N/A N/A N/A N/A 10*30154 77-9.1 W MICHELLE ABRAMS AND DONALD A ABRAMS TH EXPLORATION LLC 1/8+ 1104 641 N/A	10*29138	7-7-9.1	W									N/A	N/A		
10*30154 77-9.1 W MICHELLE ABRAMS AND DONALD A ABRAMS TH EXPLORATION LLC 1/8+ 1104 641 N/A N/A N/A N/A N/A 10*30605 77-9.1 W CAMMIE WILSON AND CLINT A WILSON TH EXPLORATION LLC 1/8+ 110 529 N/A	10*30483	7-7-9.1	W	DAVID W MITCHELL								N/A	N/A		
10*30605 7-7-9.1 W 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*30605 7.7-9.1 W NEL EDWARD WILSON TH EXPLORATION LLC 1/8+ 1110 529 N/A N/	10*30154													N/A	
10°30606 77-9.1 W NEIL EDWARD WILSON TH EXPLORATION LLC 1/8+ 110 526 N/A N/A N/A N/A N/A N/A 10°30157 77-9.1 W 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 10°30157 77-9.1 W EDISON K MITCHELL AND MARILEE J MITCHELL TH EXPLORATION LLC 1/8+ 1104 645 N/A N															
10*30157 7.7-9.1 W EDISON K MITCHELL AND MARILEE J MITCHELL TH EXPLORATION LLC 1/4															
10*30156 7-7-9.1 W RAYMOND L MITCHELL AND JANET L MITCHELL TH EXPLORATION LLC 1/8+ 104 637 N/A N/A N/A N/A N/A N/A 10*38535 77-9.1 W CAROLYN A POSTENTWAITE TH EXPLORATION LLC 1/8+ 1083 548 N/A														N/A	
10*38535 7.7-9.1 W CAROLYD A POSTLETHWAITE TH EXPLORATION LLC 1/8 548 N/A N/A N/A N/A N/A N/A **FORCE POOL** 7.7-9.1 W ROBERT EDISON ANDREWS A/K/A EDISON ANDREWS UNLEASED N/A N/A N/A N/A N/A N/A N/A **FORCE POOL** **FORCE POOL** 7.7-9.1 W ROBERT EDISON ANDREWS UNLEASED N/A N/A N/A N/A N/A N/A **FORCE POOL** **FORCE POOL** 7.7-9.1 W DONALD WAYNE ANDREWS UNLEASED N/A N/A N/A N/A N/A N/A **FORCE POOL**															
FORCE POOL 7-7-9.1 W ROBERT EDISON ANDREWS A/K/A EDISON ANDREWS UNLEASED N/A															
FORCE POOL 7.7-9.1 W DONALD WAYNE ANDREWS UNLEASED N/A															
										N/A	N/A				
	TONCEFOOL	/*/*9.1			UNLEASED	<u>N/A</u>		N/A	N/A		FCEIVED "/	L 0/6			

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FORCE POOL	7-7-9.1	>	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	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	EQT Production Company to SWN Production Company & Equinor USA Onshore Properties Inc: 44/489	**FORCE POOL**
FORCE POOL	7-7-9.1	w	UNKNOWN HEIRS AND ASSIGNS OF RONDA 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	w	SPRINGER UNKNOWN HEIRS AND ASSIGNS OF ROBIN OWENS	UNLEASED		N/A		N/A	N/A	N/A	N/A	N/A	N/A	**FORCE POOL**
••FORCE POOL••	7-7-9.1	w	KYLE OWENS	AMERICAN SHALE DEVELOPMENT INC AND REPUBLIC ENERGY VENTURES LLC	1/8+	789	296	N/A	N/A	N/A	American Shale Davel. 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	w	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	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	w	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 & 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**
10*38640	7-7-9.1	w	JACK OWENS JR.	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	Republic Energy Ventures LLC, Republic Partners VI, LP, Republic Partners VI & 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°38643	7-7-9.1	w	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	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
FORCE POOL	7-7-9.1	w	UNKNOWN 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	W	GOLDIE I. HINKLE	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	Ŵ	STONE HILL MINERALS	TH EXPLORATION LLC	1/8+	1119 N/A	493	N/A	N/A	N/A	N/A	N/A	N/A	N/A **FORCE POOL**
FORCE POOL	7-7-9.1	w		UNLEASED		N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A N/A	**FORCE POOL**
FORCE POOL **FORCE POOL**	7-7-9.1 7-7-9.1	w	LYNETTE KRAGNESS ERNEST GRAHAM LOTT	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 N/A	N/A N/A	**FORCE POOL**
FORCE POOL	7-7-9.1	w	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	N/A N/A	N/A	N/A N/A	N/A	**FORCE POOL**
FORCE POOL	7-7-9.1	w	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	7-7-9.1	w	UNKNOWN HEIRS AND ASSIGNS OF HARRY ZINK AKA HARRISON YOUNG ZINK	UNLEASED	N/A	N/A	N/A	N/A	^{N/A} BECEIVE	D N/A	N/A	N/A	N/A	**FORCE POOL**
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Office of Oil and Gas

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WV Department of Ferriconmental Protection

5000 TUAN CENTER BULEVARD, SLITE 145 CANDISERG PA 15517-5841

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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 ("BQT"), and TH EXPLORATION, LLC, a Texas limited liability company, with an address at 1320 S. University Drive, Suite 500, Fort Worth, Texas 76107 ("TH") pursuant to the terms of that certain Acreage Tede Agreement by and among EQT, TH and TH Exploration II, LLC ("TH II"), dated July 8, 2020 (the "Agreement"). EQT and TH may be reformed to herein together as the "Partier", and each individually as a "Party".

RECITALS

WHEREAS, BQT 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 <u>Exhibit A</u> 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

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DEFICED LERING

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 IH 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 <u>Exhibit B</u> attached hereto and incorporated herein (the "EQT Surface Contracts") related to the EQT 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 EQT Leases, lease files for the EQT Leases

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ASSIGNMENT AND CONVEYANCE

This Assignment and Conveyance (this "Assignment") is from SWN PRODUCTION COMPANY, LLC, a Texas limited liability company ("Assignor"), to TH Exploration, LLC, a Texas limited liability company ("Assignee"), and is executed on 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 <u>Assignment</u>. For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor hereby GRANTS, BARGAINS, ASSIGNS, CONVEYS AND TRANSFERS unto Assignee all of Assignor's right, title and interest in and to (i) the oil and gas leases described in more detail on <u>Exhibit A</u> attached hereto (the "Leases") INSOFAR AND ONLY INSOFAR as they cover those lands described on <u>Exhibit A</u> (the "Leasehold Rights") and (ii) any surface use agreements that relate to such Leasehold Rights (collectively with the Leasehold Rights, the "Conveyed Assets").

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

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

ARTICLE 2 SPECIAL WARRANTY OF TITLE AND DISCLAIMERS

Section 2.1 <u>Special Warranty of Title</u>. 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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11/19/2021



STATE OF WEST VIRGINIA §

COUNTY OF MARSHALL §

ASSIGNMENT AND CONVEYANCE

Marshall County Jan Pest, Clerk Instrument 1453365 04/24/2019 0 11:51:22 AM ASSIGNMENTS Book 43 0 Page 503 Pages Recorded 10 Recording Cost \$ 17.00

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 "Assigner") and TH EXPLORATION, LLC (hereinafter "Assignee") pursuant to the terms of that certain Acreage Trade Agreement between the Assignee 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 Assignce 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:

 <u>Assignment</u>. Assigner 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 Assigner'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 Assigner, and all persons claiming, or to claim, the same or any part thereof, by, through or under Assigner.

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.

3. <u>Successors and Assigns</u>. The terms of this Assignment shall be binding upon and inure to the benefit of the parties hereto and each of their respective successors

Office of Oil and Gas

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-20HU

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.

3-19-75 3-19-74 7-2-4 7-2-5 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,

anysuovis

Amy L. Morris Permitting Specialist - Appalachia Region **Tug Hill Operating**

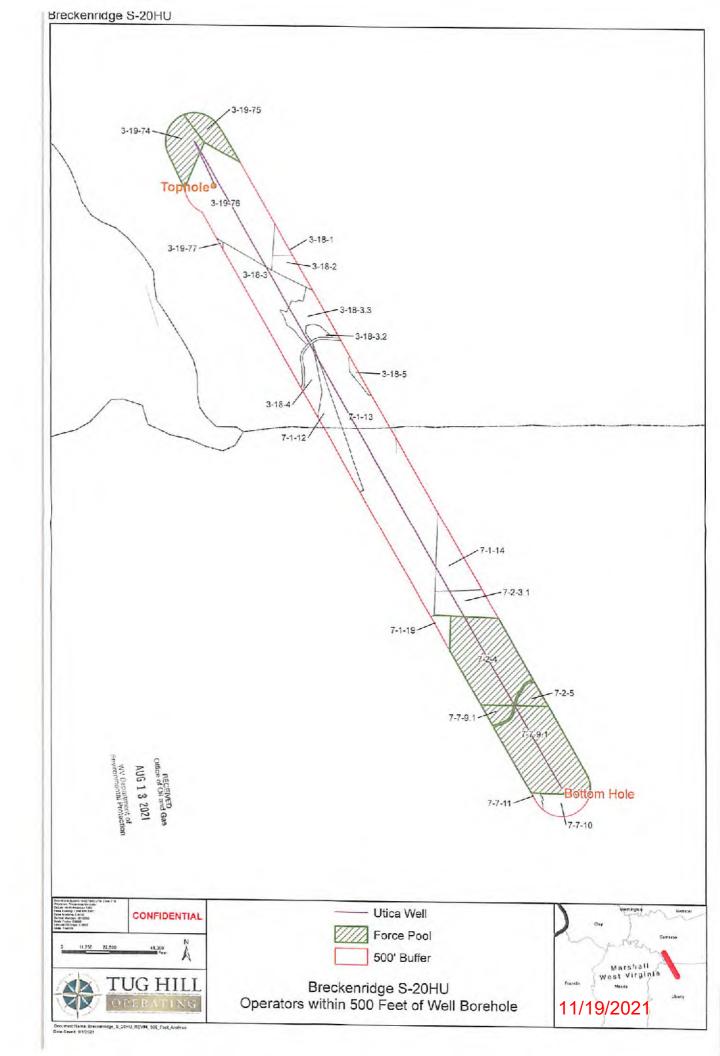
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AUG 1 3 2021

WV Department of Environmental Protection

380 SOUTHPOINTE BLVD • SUITE 200 • CANONSBURG, PA 15317 • T 724.485-2000 • F 11/19/2021



DPS LAND SERVICES CORP 6000 TOWN CENTER BOULEVARD, SUITE 145 CANONSBURG PA 15317-5841

OK 1098 ME0555

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

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AUG 1 3 2021

WV Department of Environmental Protection

11/19/2021

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

By:

Name: Reter J. Binotto Title: Assistant Vice President

COMMONWEALTH OF PENNSYLVANIA

SS:

COUNTY OF WASHINGTON

On this, the <u>30</u> day of <u>0c+</u>, 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.

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, PENNSYLVANIAASSOCIATION OF NOTARIES

> RECEIVED Office of Oil and Gas

AUG 1 3 2021

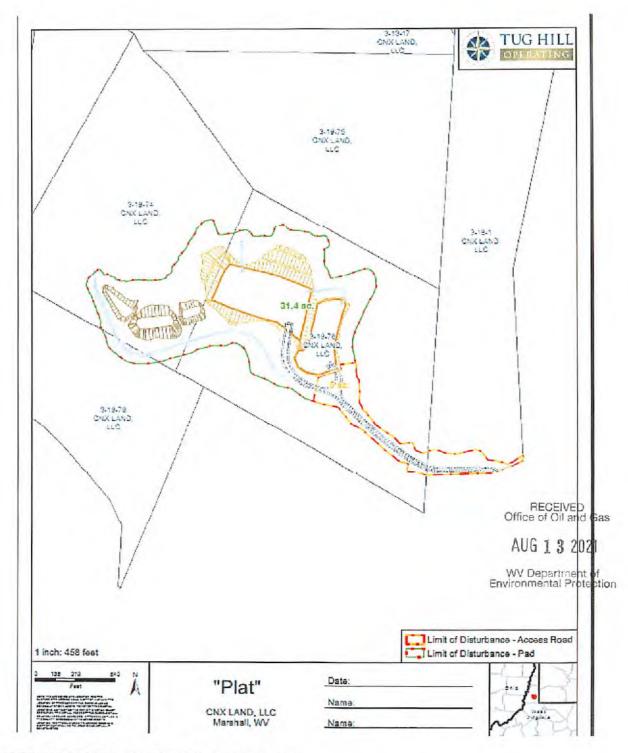
WV Department of Environmental Protection

[Signature Page to Consent and Easement]

11/19/2021

10K 1098 PAGE0557

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STATE OF WEST VIRGINIA, MARSHALL COUNTY, SCT.:

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I, JAN PEST, Clerk of the County Commission of said County, do hereby certify that the annexed writing, bearing date on the <u>and</u> day of <u>Maxmulan</u>, <u>2020</u>, was presented for and by me, admitted to record in my office upon the above certificate as to the parties therein named this <u>4th</u> day of <u>Maxmulan</u>, <u>2020</u> at <u>1:071/99/2021</u> M.

COUNTY	DISTRICT	ТМР	OWNER	ADDRESS
				1320 S. University Blvd.
				Suite 500
Marshail	Cameron	3-18-1	TH EXPLORATION LLC	Fort Worth,TX 76107
				1321 S. University Blvd.
				Suite 500
Marshall	Cameron	3-18-2	TH EXPLORATION LLC	Fort Worth,TX 76107
				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	3-18-3.2	TH EXPLORATION LLC	Fort Worth,TX 76107
				1320 S. University Blvd.
				Suite 500
Marshall	Cameron	3-18-3.3	TH EXPLORATION LLC	Fort Worth,TX 76107
				1320 S. University Blvd.
				Suite 500
Marshall	Cameron	3-18-4	TH EXPLORATION LLC	Fort Worth,TX 76107
				1320 S. University Blvd.
				Suite 500
Marshall	Cameron	3-18-5	TH EXPLORATION LLC	Fort Worth,TX 76107
				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
				10000 Energy Drive
Marshall	Cameron	3-19-75	SOUTHWESTERN ENERGY	Spring, TX 77389
				6300 Bridge Point Pkwy
			EQUINOR USA ONSHORE PROPERTIES	Bldg 2, Suite 100
Marshall	Cameron	3-19-75	INC	Austin, TX 78730
				1320 S. University Blvd.
				Suite 500
Marshall	Cameron	3-19-76	TH EXPLORATION LLC	Fort Worth,TX 76107
				1321 S. University Blvd.
				Suite 500
Marshall	Cameron	3-19-77	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
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		<u> </u>		10000 Energy Drive
Marshall	Liberty	7-7-10	SOUTHWESTERN ENERGY	Spring, TX 77389
				6300 Bridge Point Pkwy
			EQUINOR USA ONSHORE PROPERTIES	Bldg 2, Suite 100
Marshall	Liberty	7-7-10	INC	Austin, TX 78730
	Liberty	7710		10000 Energy Drive
Marshall	Liberty	7-7-11	SOUTHWESTERN ENERGY	Spring, TX 77389
Iviai Silali	LIDEILY	/-/-11	SOUTHWESTERN ENERGY	
				6300 Bridge Point Pkwy
Marshall	Liborty	7711		Bldg 2, Suite 100
Ivial Stiali	Liberty	7-7-11		Austin, TX 78730
Manahall	1 1	7701		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
				1516 5th Street
Marshall	Liberty	7-7-9.1	DOROTHY D. DILLE	New Brighton, PA 15066
			, , , , , , , , , , , , , , , , , , , ,	157 6th Avenue
Marshall	Liberty	7-7-9.1	DARLENE MARIE DILLE WADDINGHAM	Pittsburgh, PA 15229
				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	Wellsburg, WV 26070
	•			54 Bluegrass Avenue
Marshall	Liberty	7-7-9.1	JANET LORRAINE ANDREWS PUSKARICH	Middleburg, FL 32068
			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 Office of Oil and Gas
				Lot 34 Office of Oil and Gas
Marshall	Liberty	7-7-9.1	GOLDIE I. HINKLE	Cambridge, OH 43725 AUG 1 3 2021
ittai shall	LINCILY			Cambridge, 01 45725 100 10 2021

				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	
Marshail	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	
			HARRY ZINK AKA HARRISON YOUNG	
Marshall	Liberty	7-7-9.1	ZINK	ADDRESS UNKNOWN

"For those parties identified as Missing or Address Unknown, the following actions were performed in pursuit of locating these individuals : A reasonable review of the records of the clerk of the county commission, the sheriff, the assessor, and the clerk of the circuit court in the county in which the interest is located, and includes unknown heirs, successors and assigns known to be alive; A reasonable inquiry in the vicinity of the owner's last known place of residence; A diligent inquiry into known interest owners in the same tract; and A reasonable review of available Internet resources commonly utilized by the industry."

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WV Department of Environmental Protection



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AUG 1 3 2021

WV Department of Environmental Protection

11/19/2021

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AUG 1 3 2021

WV Department of Environmental Protection

11/19/2021

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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

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-20HU

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



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

Randall M. Albert, Chairman dep.wv.gov

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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-20HU

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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Sincerely,

Susan Rose Administrator



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 0027 6201 3319 87

RE: Intentional Deviation of New Deep Well Tug Hill Operating, LLC - Breckenridge S-20HU

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

Sincerely,

ser fose

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 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 First-Class Mail®		
Postal Product:			
Extra Services:	Certified Mail™		
	Return Receipt Electronic		
Shipment Details			
Weight:	20lb, 3.9oz		
Recipient Signature			
	4B		
Signature of Recipient:	JB At The Covid-19 1320 5 University		
Address of Recipient:	1320 S Universit 76,107 \$500		

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.



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-20HU

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

Sincerely, ulose 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 12**.

tem Details	
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	
Dispeture of Desinients	CO - 19
Signature of Recipient:	Marvin
	1300 Fort
Address of Recipient:	Presport 201

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.



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 63498921 11

RE: Intentional Deviation of New Deep Well Tug Hill Operating, LLC – Breckenridge S-20HU

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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.

Item Details		
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:	143	

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

Robert Edison Andrews 3107 Broomsedge Way Durham NC 27712 9489009000270349892029

RE: Intentional Deviation of New Deep Well Tug Hill Operating, LLC – Breckenridge S-20HU

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:		
Address of Recipient:	7/07	

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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

9489009000276349892036

RE: Intentional Deviation of New Deep Well Tug Hill Operating, LLC – Breckenridge S-20HU

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**.

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

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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

Janet Lorraine Andrews Puskarich 54 Bluegrass Ave Middleburg FL 32068 9489 0090 00276349 8920 43

RE: Intentional Deviation of New Deep Well Tug Hill Operating, LLC – Breckenridge S-20HU

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.

Status:	Delivered		
Status Date / Time:	September 8, 2021, 2:08 pm		
Location:	MIDDLEBURG, FL 32068 First-Class Mail [®]		
Postal Product:			
Extra Services:	Certified Mail™		
	Return Receipt Electronic		
Shipment Details			
Weight:	12lb, 15.1oz		
Recipient Signature			
Signature of Recipient:	Janit Puckerich		
Address of Recipient:	54 BLUEGRASS AVE		

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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

Curtis W. Lint 123 Northwest Bowdoin Place Seattle WA 98107

9489 0090 0027 6349 892050

RE: Intentional Deviation of New Deep Well Tug Hill Operating, LLC – Breckenridge S-20HU

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,

en lose

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.

tem Details		
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		
and a state of the second	EL CIA CINT	
Signature of Recipient:	C 1/1/17	
	123 EDTHOOIN	
Address of Recipient:		

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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-20HU

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, Zone.

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 43302	
Postal Product:	First-Class Mail [®]	
Extra Services:	Certified Mail™	
	Return Receipt Electronic	
Shipment Details	and the second	and the second
Weight:	10lb, 1.4oz	
Recipient Signature		24
Signature of Recipient:	Desney Bucken 10 Pany Dans Chule 10 Penny Tolons Chule 10 Penny Tolons Ambress	
Address of Recipient:	No PIZ Colades Scholig PAL	

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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 6349892074

RE: Intentional Deviation of New Deep Well Tug Hill Operating, LLC – Breckenridge S-20HU

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,

Rose

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 Recipie	nt:
Address of Recipie	nt:

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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-20HU

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, Rose

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.

Item Details		
Status: Status Date / Time:	Delivered, Left with Individual September 1, 2021, 9:24 am	
Location: Postal Product: Extra Services:	PITTSBURGH, PA 15229 First-Class Mail [®] Certified Mail™ Return Receipt Electronic	
Shipment Details		
Weight:	10lb, 1.6oz	
Recipient Signature		
Signature of Recipient:	K726062	
Address of Recipient:	15764 Due	

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

11/19/2021



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 9489 0090 00276349 8920 98

RE: Intentional Deviation of New Deep Well Tug Hill Operating, LLC – Breckenridge S-20HU

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, Wen Rose 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 DIO A.D.
Address of Recipient:	750 Corder Rd. Apt. (2

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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

Goldie I. Hinkle 14839 East Pike Rd Lot 34 Cambridge OH 43725 9489 0090 00276349 892104

RE: Intentional Deviation of New Deep Well Tug Hill Operating, LLC – Breckenridge S-20HU

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

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 8921 04.

Item Details	
Status: Status Date / Time: Location:	Delivered, Left with Individual September 3, 2021, 12:42 pm CAMBRIDGE, OH 43725
Postal Product: Extra Services:	First-Class Mail [®] Certified Mail™ Return Receipt Electronic
Shipment Details	
Weight:	10lb, 4.4oz
Recipient Signature	
Signature of Recipient:	HUN MM M MI 120
Address of Recipient:	14835 EPIME

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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

Lynette Kragness 136 Century Lane Arroyo Grande, CA 32250

9489009000276349892128

RE: Intentional Deviation of New Deep Well Tug Hill Operating, LLC – Breckenridge S-20HU

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:



September 14, 2021

Dear Susan Rose:

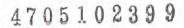
The following is in response to your request for proof of delivery on your item with the tracking number: 9489 0090 0027 6349 8921 28.

Item Details	a state t	
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:	~	
Address of Recipient:	e	

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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





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-20HU

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-20HU 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,

any suoris

Amy L. Morris Permitting Specialist – Appalachia Region

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

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

Date of Notice Certification: 08/05/2021

API No. 47- 051	-
Operator's Well	No. Breckenridge S-20HU
Well Pad Name:	Breckenridge

Notice has been given:

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

State:	West Virginia	UTM NAD 83	Easting:	531,954.86
County:	Marshall	UTM NAD 85	Northing:	4,408,984.00
District:	Cameron	Public Road Ac	cess:	County Route 62
Quadrangle:	Glen Easton 7.5	Generally used	farm name:	CNX Land, LLC
Watershed:	Grave Creek (HUC 10) & Laurel Run			

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

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:	
*PLEASE CHECK ALL THAT APPLY	OOG OFFICE USE ONLY
□ 1. NOTICE OF SEISMIC ACTIVITY or ■ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/ NOT REQUIRED
■ 2. NOTICE OF ENTRY FOR PLAT SURVEY or □ NO PLAT SURVEY WAS CONDUCTED	
□ 3. NOTICE OF INTENT TO DRILL or ■ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	RECEIVED/
U WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
4. NOTICE OF PLANNED OPERATION	
5. PUBLIC NOTICE RECEIVED Gas Office of Oil and Gas Office of Oil and Cas	
Required Attachments: Required Attachments: Required Attachments: Required Attachments:	

Required Attachments:

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

Certification of Notice is hereby given:

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

Tug Hill Operating, LLC	Address:	380 Southpointe Boulevard, Plaza II, Suite 200	
Amy L. Morris anth Subrus		Canonsburg, PA 15317	
Its: Permitting Specialist - Appalachia Region Telephone: 724-749-8388		724-338-2030	
		amorris@tug-hillop.com	
vealth of Pennsylvania - Notary Seal anne Deliere, Notary Public Washington County nission expires January 15, 2025 mmission number 1382332	Sur	orn before me this <u>5th</u> day of <u>August 2021</u> anne <u>Alliere</u> Notary Public xpires <u>1/15/2025</u>	
F7	Permitting Specialist - Appalachia Region 24-749-8388 NOTARY SEAL ealth of Pennsylvania - Notary Seal anne Deliere, Notary Public Washington County ission expires January 15, 2025	Permitting Specialist - Appalachia Region Facsimile: 24-749-8388 Email: NOTARY SEAL Subscribed and swo ealth of Pennsylvania - Notary Seal Subscribed and swo anne Deliere, Notary Public Subscribed and swo Washington County Subscribed and swo ission expires January 15, 2025 My Commission E;	

Oil and Gas Privacy Notice:

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

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

WW-6A	
(9-13)	

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice: 8/10/2021 Date Permit Application Filed: 8/11/2021

÷. •			1.1	~
N	ot	ice	01	

\checkmark	PERMIT FOR ANY	
	WELL WORK	

CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

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

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

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal scams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

☑ SURFACE OWNER(s)	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:	Caronsburg, PA 15317 COAL OPERATOR Name: Marshall County Coal Resources, Mc. Attn: Steve Blair Address: 46226 National Road AUG 1 3 2021
Address:	Name: Marshall County Coal Resources, hc. Attn: Steve Blair Office. Of Con
and the second state of the second state of the	Address: 46226 National Road AUG 1 3 2021
SURFACE OWNER(s) (Road and/or Other Disturbance)	St. Clairsville, OH 43950
Name: Kevin R. & Shelly Jo Evans	SL Clairsville, OH 43950 HOW SURFACE OWNER OF WATER WELL WV Department of AND/OR WATER PURVEYOR(s) Environmental Protection
Address: 3820 New Bethel Road	AND/OR WATER PURVEYOR(s)
Cameron WV 26033	Name: 'see attached
Name: David L. & Arianna R. Robinson	Address:
Address: 3518 New Bethel Road	
Cameron, WV 26033	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
□ SURFACE OWNER(s) (Impoundments or Pits)	Name:
Name:	Address:
Address:	
	*Please attach additional forms if necessary

API NO. 47-051 OPERATOR WELL NO. Breckenridge S-20HU Well Pad Name: Breckenridge

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

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



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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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AUG 1 3 2021

WV Department of

WV Department of Submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

API NO. 47-051 OPERATOR WELL NO. Breckenridge S-20HU 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-

<u>Permits/Pages/default.aspx</u> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

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

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil crosion 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 § $22-6\Lambda-7(k)$, 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.

AUG 13 2021 WV Department of Environmental Protection

API NO. 47-051 -OPERATOR WELL NO. Breckenridge S-20HU Well Pad Name: Breckenridge

Notice is hereby given by:

Well Opera	tor: Tug Hill Opera	ting, LLC
Telephone:	724-749-8388	
Email: amor	ris@tug-hillop.com	anyslouris

Address: 38	0 Southpointe Boulevard, Plaza II, Suite 200	
Canonsburg, P	PA 15317	
Facsimile:	724-338-2030	

Oil and Gas Privacy Notice:

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

Comm	onwealth of Pennsylvania - Notary Sea
5	Susanna Deliere, Notary Public
	Washington County
Myco	mmission expires January 15, 2025
	Commission number 1382332

C. J	ore me this 2th day of august 2021
Subscribed and sworn beto	ore me this y day of auguri avai
Susan	re Deliere Notary Public
	1
My Commission Expires_	1/15/2025

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Supplement Pg. 1A

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 – 20HUDistrict:CameronState:WV

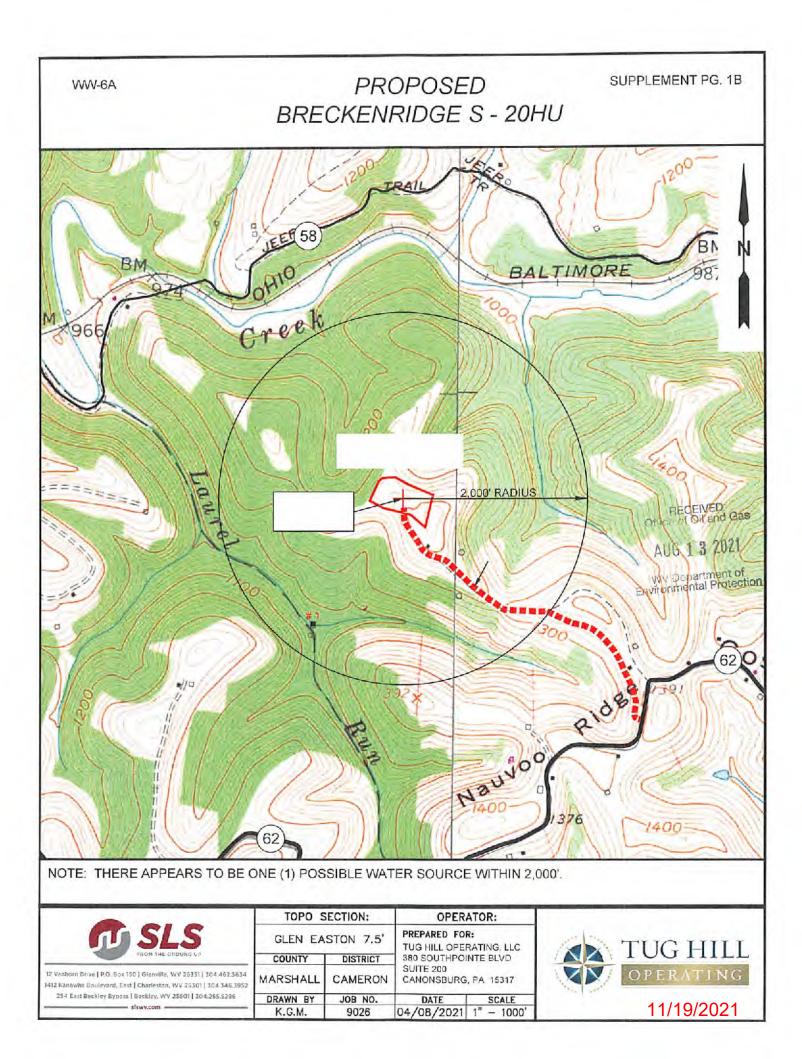
There is one (1) residence, no business or commercial sites, no churches, no schools or no emergency facilities within two-thousand feet (2,000') of the above referenced well location.

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

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AUG 1 3 2021

WV Department of Environmental Protection



WW-6A3 (1/12)

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

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry
Date of Notice: 12/1/2020 Date of Planned Entry: 12/7/2020

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

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

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

Notice is hereby provided to:

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	Office of Oil and Gas
Canonsburg, PA 15317	Canonsburg, PA 15317	
Name: Kevin R & Shelly Jo Evans (Access Road)		AUG 1 3 2021
Address: 3820 New Bethel Road	MINERAL OWNER(s)	V
Cameron, WV 26033	Name: Onward E. Burge	WV Department of Environmental Protection
Name: David L. & Arianne R. Robinson	Address: RD 3 Box 33	Environmental Protection
Address: 3518 New Bethel Road	Cameron, WV 26033 **See attached list	
Cameron, WV 26033	*please attach additional forms if necessary	

Notice is hereby given:

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

West Virginia	Approx. Latitude & Longitude:	39.83027651; -80.62685846
Marshall	Public Road Access:	County Route 62
Cameron	Watershed:	Grave Creek (HUC 10) and Laurel Run
Glen Easton 7.5'	Generally used farm name:	CNX Land, LLC
	Marshall Cameron	Marshall Public Road Access: Cameron Watershed:

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator:	Tug Hill Operating, LLC	Address:	380 Southpointe Boulevard, Plaza II, Suite 200	
Telephone:	724-749-8386		Canonsburg, PA 15317	
Email:	amorris@tug-hillop.com	Facsimile:	724-338-2020	-

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.



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WW-6A3 Attachment Breckenridge Well Pad

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

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WV Department of Environmental Protection

WW-6A5 (1/12)

Operator Well No. Breckenridge S-20HU

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 08/10/2021 Date Permit Application Filed: 08/11/2021

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

CERTIFIED MAIL	HAND
RETURN RECEIPT REQUESTED	DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s)

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

Name; CNX Land, LLC	Name: Kevin R. and Shelly Jo Evans See Attached
Address: 1000 Consol Energy Drive	Address: 3820 New Bethel Road
Canonsburg, PA 15317	Cameron, WV 26033

Notice is hereby given:

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

State:	West Virginia	UTM NAD 83	Easting:	531,954.85	RECEIVED
County:	Marshall	UTMINAD 83	Northing:	4,408,984.00	Office of Oil and Gas
District:	Cameron	Public Road Ac	cess:	CR 62	i sente de la ser
Quadrangle:	Glen Easton 7.5'	Generally used :	farm name:	CNX Land, LLC	AUG 1 3 2021
Watershed:	Grace Creek (Huc 10) & Laurel Run				
					Environmental Protection

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

Well Operator:	Tug Hill Operating, LLC	Address:	380 Southpointe Boulevard, Plaza II, Suite 200	
Telephone:	724-749-8388		Canonsburg, PA 15317	
Email:	amorris@tug-hillop.com	Facsimile:	724-338-2030	

Oil and Gas Privacy Notice:

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

Additional Notice for WW-6A5 Breckenridge Pad

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



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AUG 1 3 2021

WV Department of Environmental Protection

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION **Division of Highways**

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

Byrd E. White, III Secretary of Transportation

January 8, 2021

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-20HU 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.

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Very Truly Yours,

Gary K. Clayton

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

AUG 1 3 2021

WV Department of Environmental Protection

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

11/19/2021

E.E.O./AFFIRMATIVE ACTION EMPLOYER

4705102399



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 Quatemary ammonium chloride CAS# 007173-51-5 Alky dimethyl benzyl ammonium Chloride (C12-16) – CAS#068424-85-1 Ethanol – CAS# 000064-17-5 Water – CAS# 007732-18-5
FRAC SAND	Silica Sand (various Mesh sizes)	Proppant	Crystalline silica (quartz) CAS# 14808-60-7
S-8C, Sand	Silica Sand (100 mesh)	Sand	Silica – CAS# 14808-60-7
GW-3LDF		Gellant - Water	Petroleum Distillate Blend – Proprietary, (Not Associated with Diesel Fuel) Guar gum – CAS# 009000-30-0
FRW-18		Friction Reducer	Hydrotreated light distillate CAS# 064742-47-8
Scaletrol		Scale Inhibitor	Ethylene glycol – CAS# 000107-21-1 Diethylene glycol – CAS# 000111-46-6

RECEIVED Office of Oil and Gas

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