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west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Friday, May 26, 2023  
PERMIT MODIFICATION APPROVAL  
Horizontal 6A / New Drill

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

Re: Permit Modification Approval for JEFFERSONS N-8HU  
47-103-03510-00-00

**Added Lateral Length**

TUG HILL OPERATING, LLC

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before 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: JEFFERSONS N-8HU  
Farm Name: EDWARD H & JOAN E ESTEP  
U.S. WELL NUMBER: 47-103-03510-00-00  
Horizontal 6A New Drill  
Date Modification Issued: 5/26/2023

Promoting a healthy environment.

05/26/2023



west virginia department of environmental protection

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

Randall M. Albert, Chairman  
dep.wv.gov

May 8, 2023

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

RE: Application for Deep Well Permit – API #47-103-03510

COMPANY: Tug Hill Operating, LLC

FARM: Edward H. Estep and Joan E. Estep Jeffersons N-8HU

COUNTY: Wetzell DISTRICT: Proctor QUAD: New Martinsville

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

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

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

Sincerely,

Susan Rose  
Administrator

\*\*Burch Ridge S-6HU 47-051-02193; Burch Ridge S-7HU 47-051-02194; McMasters S-16HU 47-051-02497; Elmer N-14HU 47-103-03502; Jeffersons N-7HU 47-103-03509; Jeffersons N-9HU 47-103-03511; Jeffersons N-10HU 47-103-03512

05/26/2023

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

1) Well Operator: Tug Hill Operating, LLC 494510851 Wetzel Proctor New Martinsville  
Operator ID County District Quadrangle

2) Operator's Well Number: Jeffersons N-8HU Well Pad Name: Jeffersons

3) Farm Name/Surface Owner: Edward H. Estep & Joan E. Estep Public Road Access: Co. Rt. 1/6 Palmer Ridge

4) Elevation, current ground: 1,236.64' Elevation, proposed post-construction: 1,217.50'

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

(b) If Gas Shallow  Deep   
Horizontal

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Point Pleasant is the target formation at a depth of 11,425' - 11,544', thickness of 119' and anticipated pressure of approx. 7,500 psi.

8) Proposed Total Vertical Depth: 11,694'

9) Formation at Total Vertical Depth: Trenton

10) Proposed Total Measured Depth: 24,223'

11) Proposed Horizontal Leg Length: 11,683.51'

12) Approximate Fresh Water Strata Depths: 70; 935'

13) Method to Determine Fresh Water Depths: Based on the depth of Pittsburgh Coal seam, per WVGES mapping contours

14) Approximate Saltwater Depths: 1,637'

15) Approximate Coal Seam Depths: Sewickley Coal - 837' and Pittsburgh Coal - 929'

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

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

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

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18) CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30"	NEW	BW	BW	120'	120'	259ft <sup>3</sup> (CTS)
Fresh Water/Coal	20"	NEW	J55	106.5#	1,050'	1,050'	1,689ft <sup>3</sup> (CTS)
Intermediate 1	13 3/8"	NEW	J55	54.5#	2,775'	2,775'	1,957ft <sup>3</sup> (CTS)
Intermediate 2	9 5/8"	NEW	HPP110	47#	10,942'	10,942'	3,564ft <sup>3</sup> (CTS)
Production	5 1/2"	NEW	P110	23#	24,223'	24,223'	5,735ft <sup>3</sup> (CTS)
Tubing	2 7/8"	NEW	P110	6.5#		11,067'	
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	36"	1.0	2,333	1,866	CLASS A	1.2
Fresh Water	20"	26"	.5	2,410	1,928	SEE #24	1.2
Coal	13 3/8"	17 1/2"	.38	2,740	2,192	SEE #24	1.2
Intermediate	9 5/8"	12 1/4"	.472	10,730	6,968	SEE #24	1.33
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			

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1/10/23



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 (10,567'). 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 29,200,000 lb. proppant and 525,000 bbl of water. Max rate = 80bpm; max psi = 9,000#.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 18.49 acres

22) Area to be disturbed for well pad only, less access road (acres): 6.86 acres

23) Describe centralizer placement for each casing string:

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

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

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

25) Proposed borehole conditioning procedures:

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

POOH

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\*Note: Attach additional sheets as needed.



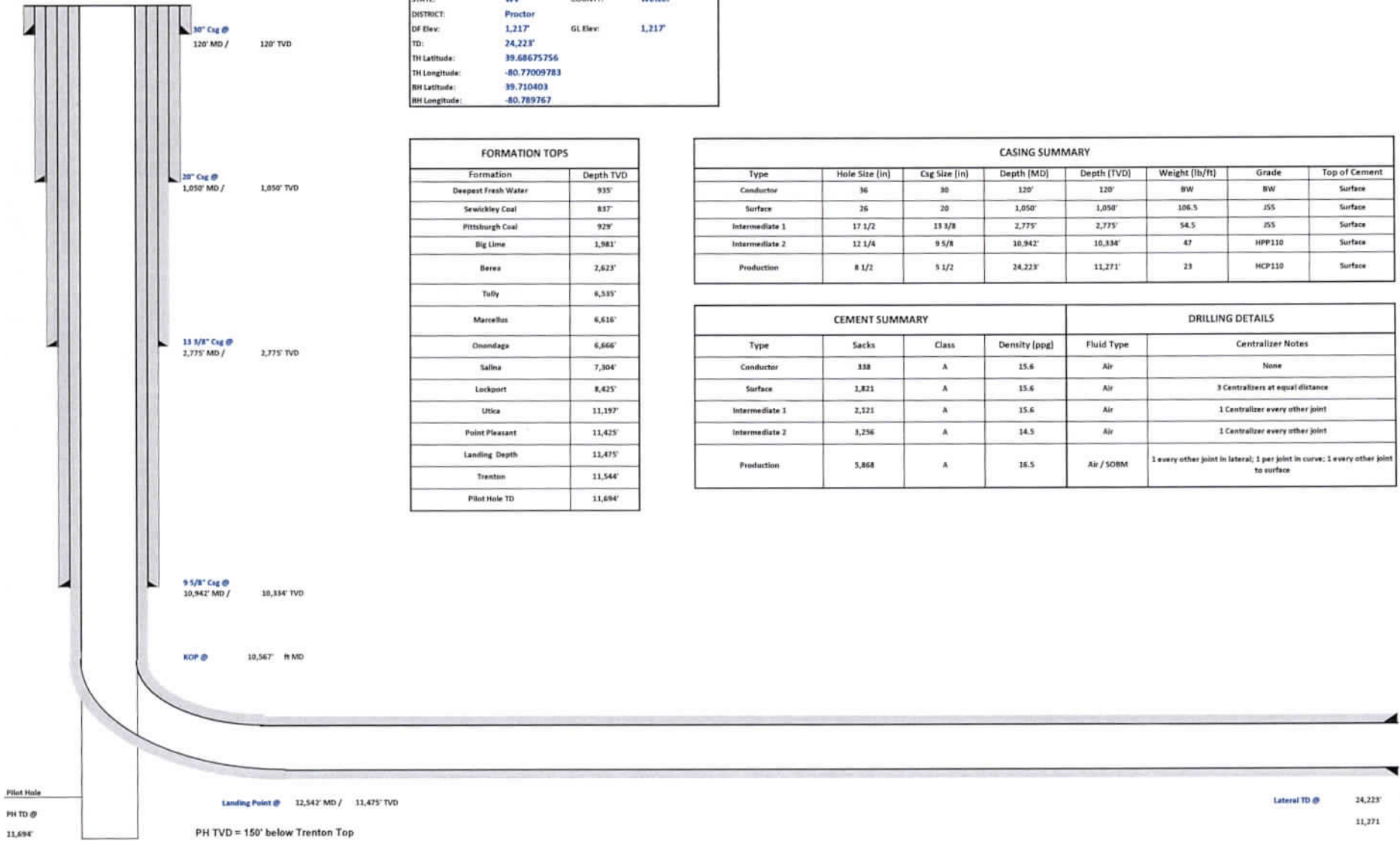
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WELL NAME:	Jeffersons N-8HU		
STATE:	WV	COUNTY:	Wetzel
DISTRICT:	Proctor		
DF Elev:	1,217'	GL Elev:	1,217'
TD:	24,223'		
TH Latitude:	39.68675756		
TH Longitude:	-80.77009783		
BH Latitude:	39.710403		
BH Longitude:	-80.789767		

FORMATION TOPS	
Formation	Depth TVD
Deepest Fresh Water	935'
Sewickley Coal	837'
Pittsburgh Coal	929'
Big Lime	1,981'
Berea	2,623'
Tully	6,555'
Marcellus	8,616'
Onondaga	6,866'
Salina	7,304'
Lockport	8,425'
Utica	11,197'
Point Pleasant	11,425'
Landing Depth	11,475'
Trenton	11,544'
Pilot Hole TD	11,694'

CASING SUMMARY							
Type	Hole Size (in)	Csg Size (in)	Depth (MD)	Depth (TVD)	Weight (lb/ft)	Grade	Top of Cement
Conductor	36	30	120'	120'	8W	BW	Surface
Surface	26	20	1,050'	1,050'	106.5	J55	Surface
Intermediate 1	17 1/2	13 3/8	2,775'	2,775'	94.5	J55	Surface
Intermediate 2	12 1/4	9 5/8	10,942'	10,934'	47	HPP110	Surface
Production	8 1/2	5 1/2	24,223'	11,271'	23	HCP110	Surface

CEMENT SUMMARY				DRILLING DETAILS	
Type	Sacks	Class	Density (ppg)	Fluid Type	Centralizer Notes
Conductor	338	A	15.6	Air	None
Surface	1,821	A	15.6	Air	3 Centralizers at equal distance
Intermediate 1	2,221	A	15.6	Air	1 Centralizer every other joint
Intermediate 2	8,256	A	14.5	Air	1 Centralizer every other joint
Production	5,868	A	16.5	Air / SOBIM	1 every other joint in lateral; 1 per joint in curve; 1 every other joint to surface



*Handwritten signature*



**Tug Hill Operating, LLC Casing and Cement Program**

**Jeffersons N-8HU**

**Casing**

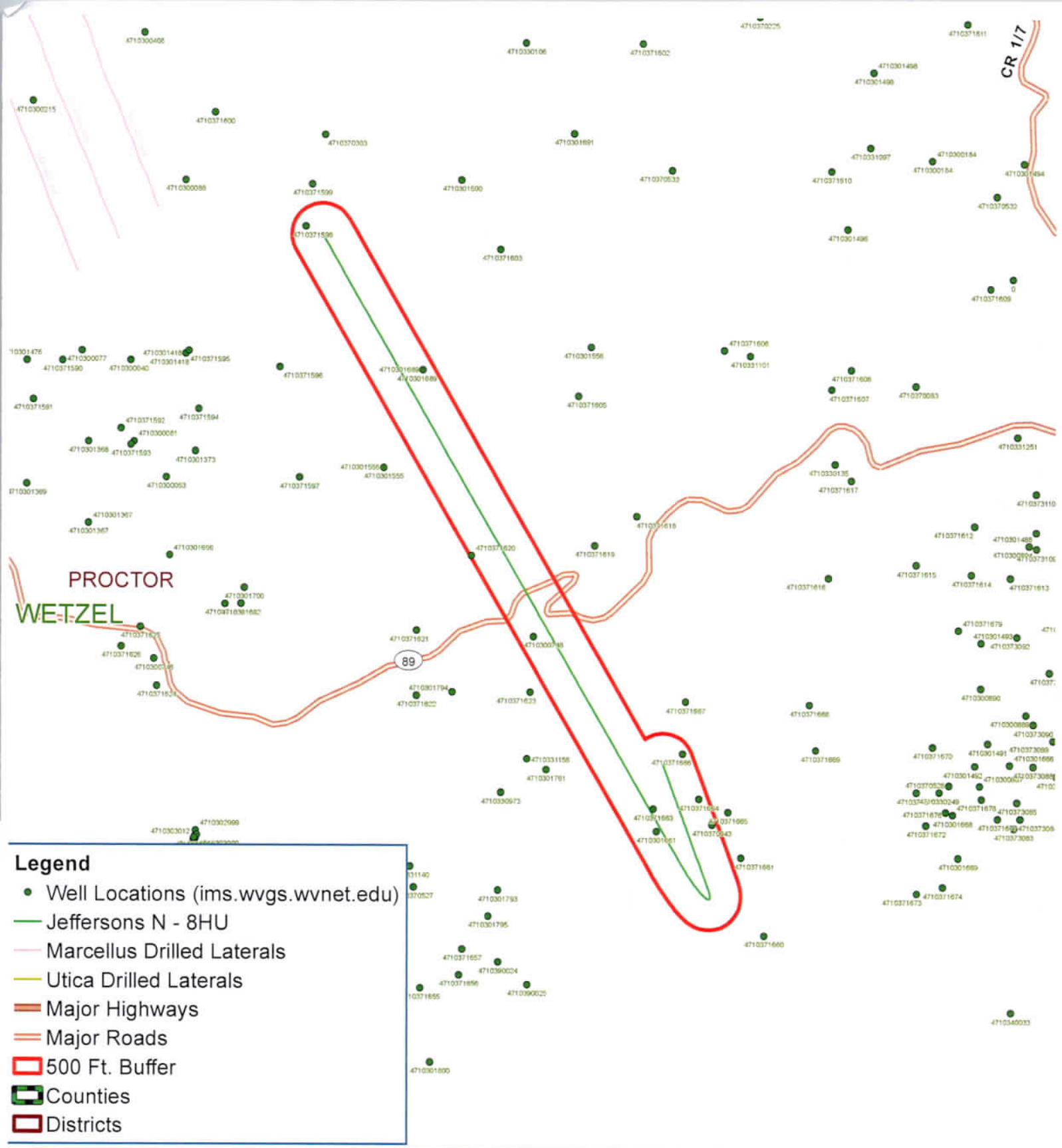
	String	Grade	Bit Size	Depth (Measured)	Cement Fill Up
Conductor	30"	BW	36"	120'	CTS
Surface	20"	J55	26"	1,050'	CTS
Intermediate 1	13 3/8"	J55	17 1/2"	2,775'	CTS
Intermediate 2	9 5/8"	HPP110	12 1/4"	10,942'	CTS
Production	5 1/2"	HCP110	8 1/2"	24,223'	CTS

**Cement**

- Conductor: Premium NE-1 + 2% bwoc CaC12 + 46.5% Fresh Water – Conductor Cement mixed at 15.6 ppg, Y=1.2
- 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 14.5 ppg, Y=1.35
- Kick Off Plug: Class H Cement + 1% CD-32 + .7% Sodium Metasilicate + .1% R-3 + .75 gal/100sk FP-13L - KOP Plug
- 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 16.5 ppg, Y = 1.03

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# Jeffersons N - 8HU Proctor District Wetzel County, WV



Map Prepared by:  
**DPS**  
 LAND SERVICES

05/26/2023



### 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, [apicard@dpslandservices.com](mailto:apicard@dpslandservices.com), DPS GIS (10/19/2021) 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 Enverus All Wells Layer
2. Map with Farm lines overlain and any well spots identified on Farm Maps
3. More recent (1970s vintage) topos and older topos

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

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

**Wells within 500' Buffer**

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

API Number	Operator Name	Total Depth	Perforated Fms	Producing zones not perforated	Is this well "known or reasonably expected to penetrate a depth that could be within the range of Fracture propagation"? 1000' is max limit I would assign to wells that might be within in range of fracture propagation	Comments
4710301661	Perkins Oil and Gas, Inc.	2900' 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 10/9/2014.
4710370043	South Penn Oil (S. Penn Nat. Gas)	2998' TVD	Gordon	unknown	No, the well is not deep enough to be within the expected fracture propagation from a Point Pleasant stimulation.	
4710371663	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.
4710371664	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.

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
4710371666	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.
4710300748	Columbia Gas Transmission Group	2785' 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 9/7/1989.
4710371620	Hope Natural Gas 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.	State records are incomplete.
4710301689	Perkins Oil and Gas, Inc.	2846' 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 11/21/2014.
4710371598	Hope Natural Gas 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.	State records are incomplete.





WV Geological & Economic Survey:

**Well: County = 103 Permit = 01661**

Report Time: Wednesday, October 20, 2021 11:28:26 AM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4710301661	Wetzel	1661	Proctor	New Martinsville	New Martinsville	39 683764	-80 771528	519592	4392684

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	PROF
4710301661	10/9/2014	Plugging	Completed	Mark Cecil et al	1		A J Briggs		E Briggs Heirs and/or Assigns et al	Perkins Oil and Gas, Inc.	2900	Gordc
4710301661	-/-	Original Loc	Completed	A J Briggs	1		A J Briggs			Perkins Oil and Gas, Inc.		

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_B
4710301661	10/9/2014	9/19/2014	1188	Ground Level													
4710301661	-/-	-/-	1240	Topo Estimation				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

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
4710301661	10/9/2014	0

WV Geological &amp; Economic Survey:

Well: County = 103 Permit = 70043

Report Time: Wednesday, October 20, 2021 11:28:43 AM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4710370043	Wetzel	70043	Proctor	New Martinsville	New Martinsville	39.68405	-80.767269	519957.1	4392716.7

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
4710370043	-/-		Original Loc	Completed	A J Briggs		3			South Penn Oil (S. Penn Nat. Gas)			

## 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
4710370043	-/-	-/-			Cameron-Garner	Hampshire Grp	Gordon	unclassified	unclassified	Oil	unknown	unknown	2998		2998		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
4710370043	-/-	Show	Oil	Vertical			2296	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
4710370043	Original Loc	unidentified coal	Well Record	520	Reasonable	5	Reasonable		unknown
4710370043	Original Loc	Sewickley coal	Well Record	885	Reasonable	2	Reasonable		unknown
4710370043	Original Loc	Pittsburgh coal	Well Record	970	Reasonable	6	Reasonable		unknown
4710370043	Original Loc	Salt Sands (undiff)	Well Record	1705	Reasonable	45	Reasonable		unknown
4710370043	Original Loc	Big Lime	Well Record	2070	Reasonable	40	Reasonable		unknown
4710370043	Original Loc	Big Injun (undiff)	Well Record	2110	Reasonable	270	Reasonable		unknown
4710370043	Original Loc	Gordon	Well Record	2983	Reasonable	13	Reasonable		unknown

WV Geological & Economic Survey:

**Well: County = 103 Permit = 71663**

Report Time: Wednesday, October 20, 2021 11:28:56 AM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4710371663	Wetzel	71663	Proctor	New Martinsville	New Martinsville	39.684753	-80.770648	519667.1	4392794

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.
4710371663	-/-		unknown	Prpty Map T V Smith	1					----- unknown -----			

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_A
4710371663	-/-	-/-						unclassified	unclassified	not available	unknown	unknown						

WV Geological & Economic Survey:

**Well: County = 103 Permit = 71664**

Report Time: Wednesday, October 20, 2021 11:29:09 AM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4710371664	Wetzel	71664	Proctor	New Martinsville	New Martinsville	39.68519	-80.768021	519892.3	4392843

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.
4710371664	-/-		unknown	Prpty Map T V Smith	1					----- unknown -----			

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_A
4710371664	-/-	-/-						unclassified	unclassified	not available	unknown	unknown						

WV Geological & Economic Survey:

**Well: County = 103 Permit = 71666**

Report Time: Wednesday, October 20, 2021 11:29:24 AM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4710371666	Wetzel	71666	Proctor	New Martinsville	New Martinsville	39.687222	-80.768958	519811.3	4393068.3

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_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST.
4710371666	--		unknown	Prpty Map TV Smith		1				----- unknown -----			

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_A
4710371666	--	--						unclassified	unclassified	not available	unknown	unknown						



WV Geological & Economic Survey

Well: County = 103 Permit = 00748

Report Time Wednesday, October 20, 2021 11:29:36 AM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_76	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4710300748	Wetzel	748	Proctor	New Martinsville	New Martinsville	39.69246	-80.777594	519069.4	4389647.9

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_F
4710300748	-/1900	-/-	Completed	Olan H Hall	1	1263	Meshach Yoho			Columbia Gas Transmission Corp		
4710300748	9/7/1989	Plugging	Completed	Olan Hall		L-1263	Olan H Hall	L-3031	Olan H Hall et al	Columbia Gas Transmission Corp		

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FWT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TYD	TMD	NEW_FTG	K
4710300748	-/1900	-/-	1077	Ground Level	Cameron-Garner	Gordon	Gordon	unclassified	unclassified	Gas	unknown	Nat/Open H	2785		2785	
4710300748	9/7/1989	9/4/1989	1077	Ground Level						not available	unknown	unknown				

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
4710300748	-/1900	Pay	Gas	Vertical			2732	Gordon Stray	0	0			
4710300748	-/1900	Pay	Gas	Vertical			2750	Gordon	0	0			

Production Gas Information: (Volumes in Mcf)

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4710300748	Columbia Gas Transmission Corp.	1980	2,316	266	261	247	265	258	123	0	0	29	282	296	289
4710300748	Columbia Gas Transmission Corp.	1981	1,846	298	302	277	312	303	91	0	0	0	0	0	263
4710300748	Columbia Gas Transmission Corp.	1982	1,131	305	302	267	0	0	0	0	0	0	0	0	257
4710300748	Columbia Gas Transmission Corp.	1983	0	0	0	0	0	0	0	0	0	0	0	0	0
4710300748	Columbia Gas Transmission Corp.	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4710300748	Columbia Gas Transmission Corp.	1985	0	0	0	0	0	0	0	0	0	0	0	0	0
4710300748	Columbia Gas Transmission Corp.	1986	0	0	0	0	0	0	0	0	0	0	0	0	0
4710300748	Columbia Gas Transmission Corp.	1987	0	0	0	0	0	0	0	0	0	0	0	0	0
4710300748	Columbia Gas Transmission Corp.	1988	0	0	0	0	0	0	0	0	0	0	0	0	0
4710300748	Columbia Gas Transmission Corp.	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4710300748	Columbia Gas Transmission Corp.	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4710300748	Columbia Gas Transmission Corp.	1991	0	0	0	0	0	0	0	0	0	0	0	0	0

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

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4710300748	Columbia Gas Transmission Corp.	1980	0	0	0	0	0	0	0	0	0	0	0	0	0
4710300748	Columbia Gas Transmission Corp.	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4710300748	Columbia Gas Transmission Corp.	1982	0	0	0	0	0	0	0	0	0	0	0	0	0
4710300748	Columbia Gas Transmission Corp.	1983	0	0	0	0	0	0	0	0	0	0	0	0	0
4710300748	Columbia Gas Transmission Corp.	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4710300748	Columbia Gas Transmission Corp.	1985	0	0	0	0	0	0	0	0	0	0	0	0	0
4710300748	Columbia Gas Transmission Corp.	1986	0	0	0	0	0	0	0	0	0	0	0	0	0
4710300748	Columbia Gas Transmission Corp.	1987	0	0	0	0	0	0	0	0	0	0	0	0	0
4710300748	Columbia Gas Transmission Corp.	1988	0	0	0	0	0	0	0	0	0	0	0	0	0
4710300748	Columbia Gas Transmission Corp.	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4710300748	Columbia Gas Transmission Corp.	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4710300748	Columbia Gas Transmission Corp.	1991	0	0	0	0	0	0	0	0	0	0	0	0	0

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

There is no Production Water data for this well

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
4710300748	9/7/1989	0

WV Geological & Economic Survey:

**Well: County = 103 Permit = 71620**

Report Time: Wednesday, October 20, 2021 11:30:05 AM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4710371620	Wetzel	71620	Proctor	New Martinsville	New Martinsville	39.696074	-80.781158	518762.9	4394048.2

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST.
4710371620	-/-		unknown	Prpty Map Oscar Allen				635		Hope Natural Gas Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_A
4710371620	-/-	-/-						unclassified	unclassified	not available	unknown	unknown						

WV Geological & Economic Survey:

**Well: County = 103 Permit = 01689**

Report Time: Wednesday, October 20, 2021 11:30:27 AM

Well Reassignment Information: Reassigned From

OLD_COUNTY	OLD_PERMIT	NEW_COUNTY	NEW_PERMIT
103	71604	103	1689

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4710301689	Wetzel	1689	Proctor	New Martinsville	New Martinsville	39.703466	-80.783979	518519	4394868

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	PRC
4710301689	6/25/1905	Original Loc	Completed	Alvaretta Parsons			1220			Perkins Oil and Gas, Inc.	
4710301689	11/21/2014	Plugging	Completed	John Jr & Laura Cook			1220	Alvaretta Parsons	Alvaretta Parsons Heirs and/or Assigns	Perkins Oil and Gas, Inc.	
4710301689	-/-	unknown	Prpty Map	A Parsons			1220			unknown	

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_FT
4710301689	6/25/1905	3/17/1905	1150	Topo Estimation	Cameron-Garner	Hampshire Grp	Gordon	unclassified	unclassified	not available	Cable Tool	unknown	2846		284
4710301689	11/21/2014	11/3/2014	1113	Ground Level											
4710301689	-/-	-/-						unclassified	unclassified	not available	unknown	unknown			

Comment: 6/25/1905 Well was reassigned from 47-103-71604. No open flow values given. See documents for additional information.

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
4710301689	Original Loc	unidentified coal	Well Record	492	Reasonable			1150	Topo Estimation
4710301689	Original Loc	unidentified coal	Well Record	620	Reasonable			1150	Topo Estimation

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

Plugging Information:

API	PLG_DT	DEPTH_PBT
4710301689	11/21/2014	0

WV Geological & Economic Survey:

**Well: County = 103 Permit = 71598**

Report Time: Wednesday, October 20, 2021 11:30:41 AM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LO_N_DD	UTME	UTMN
4710371598	Wetzel	71598	Proctor	New Martinsville	New Martinsville	39.710745	-80.790728	517938.5	4395674.5

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.
4710371598	---		unknown	Prpty Map Lucius Hoge			556			Hope Natural Gas Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_A
4710371598	---	---						unclassified	unclassified	not available	unknown	unknown						





**TUG HILL**  
**OPERATING**

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

**Well Name: Jeffersons N-8HU**

**Pad Name: Jeffersons**

**County: Wetzel**

UTM (meters), NAD83, Zone 17

Northing: 4,393,016.57

Easting: 519,713.77

**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**

*[Signature]*  
05/26/2023  
1/10/23



January 24, 2023

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

RE: Jeffersons N-8HU

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, except

12-1-20	12-7-26	12-7-42.2
12-2-1	12-7-26.1	12-7-42.3
12-2-2	12-7-3	12-7-42.4
12-2-8	12-7-3.1	12-7-4.1
12-7-14	12-7-3.2	12-7-59
12-7-19	12-7-3.3	
12-7-2	12-7-4	
12-7-42.5	12-7-40	
12-7-44	12-7-42	
12-7-44.1	12-7-42.1	

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-hill.com](mailto:amorris@tug-hill.com).

Sincerely,

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

**CERTIFICATE OF CONSENT AND EASEMENT**

We, the undersigned, for valuable consideration, the receipt and sufficiency of which is hereby acknowledged, being all the owners of the surface of that certain lot, tract or parcel of land located in Proctor District, Wetzel County, State of West Virginia, shown on the attached plat or survey, hereby consents and grants an easement, 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 assigns, for the drilling and operation of a deep well for the production of oil or gas at the location shown on the attached plat or survey.

Executed this 25 day of May, 2022.

  
Edward H. Estep

  
Joan E. Estep

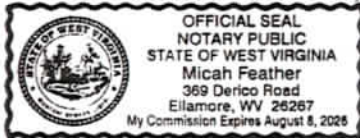
STATE OF WEST VIRGINIA


SS:

COUNTY OF WETZEL

On this, the 25 day of May, 2022, before me, a notary public, the undersigned officer, personally appeared Edward H. Estep, known to me (or satisfactorily proven) to be the person whos name is subscribed to the within instrument, and acknowledged that he/she executed the same for purposed therein contained.

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



My Commission Expires: August 8, 2025  
Signature/Notary Public:   
Name/Notary Public (print): Micah Feather

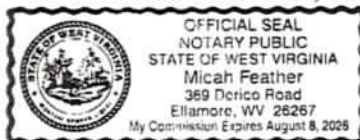
STATE OF WEST VIRGINIA


SS:

COUNTY OF WETZEL

On this, the 25 day of May, 2022, before me, a notary public, the undersigned officer, personally appeared Joan E. Estep, known to me (or satisfactorily proven) to be the person whos name is subscribed to the within instrument, and acknowledged that he/she executed the same for purposed therein contained.

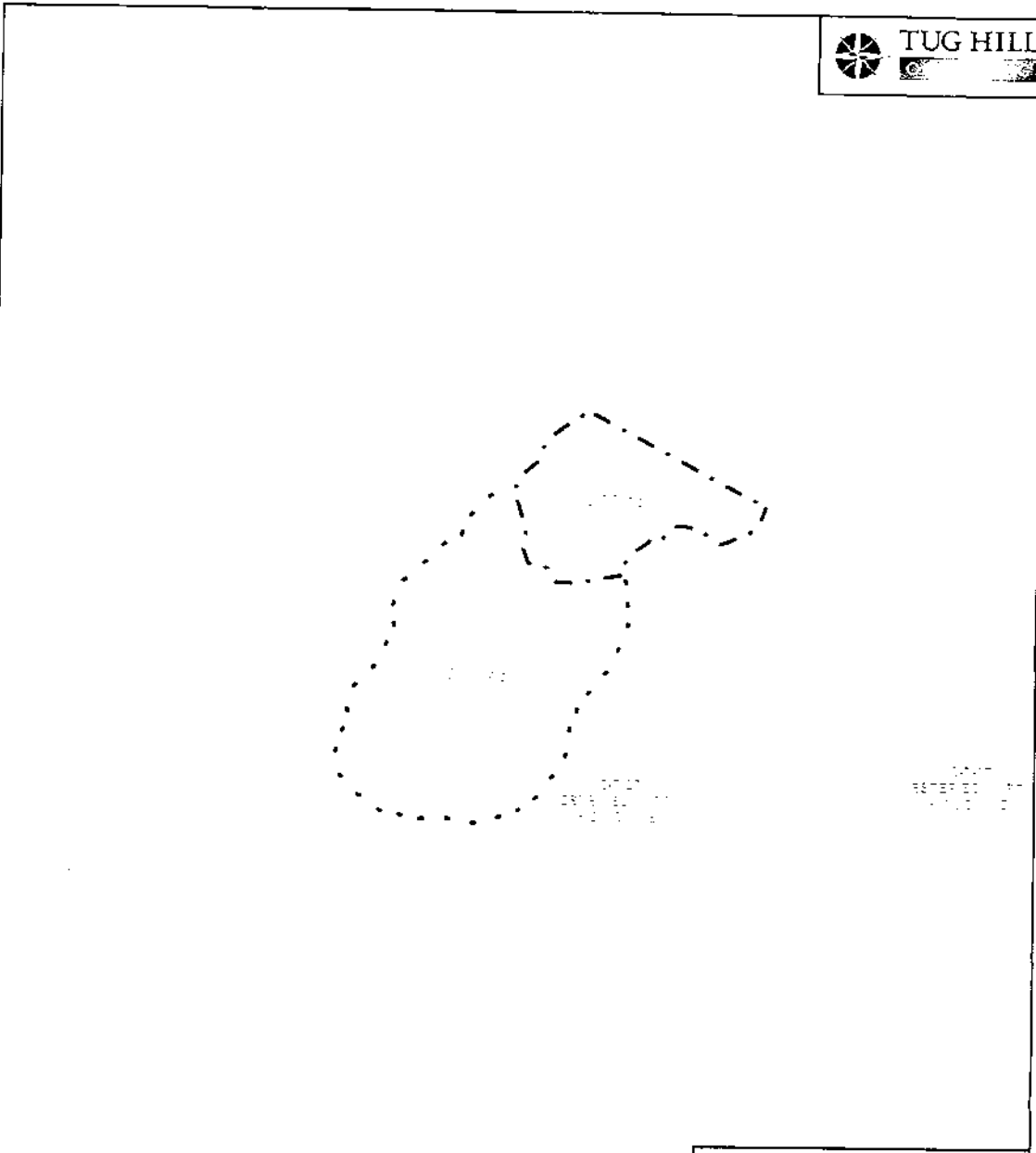
IN WITNESS WHEREOF, I hereunto set my hand and official seal.



My Commission Expires: August 8, 2025  
Signature/Notary Public:   
Name/Notary Public (print): Micah Feather

This instrument prepared by:  
WV Oil and Gas Conservation Commission  
601 57<sup>th</sup> Street  
Charleston, WV 25304

11-25-2018  
 11-25-2018  
 11-25-2018  
 11-25-2018  
 11-25-2018  
 11-25-2018  
 11-25-2018  
 11-25-2018  
 11-25-2018  
 11-25-2018  
 11-25-2018



1 inch: 333 feet

- Limit of Disturbance - Access Road
- Limit of Disturbance - Pad

0 85 190 380  
Feet

N

NOTE: THIS APPROXIMATE SITE REPRESENTATION HAS BEEN PREPARED BY THE ENGINEER BASED ON THE INFORMATION PROVIDED BY THE CLIENT. THE ENGINEER HAS CONDUCTED VISUAL INSPECTIONS OF THE PROPERTY AND HAS FOUND NO EVIDENCE OF ANY OBSTRUCTIONS OR ENCUMBRANCES. THE ENGINEER HAS NOT CONDUCTED ANY SURVEYING OR MEASUREMENTS. THIS REPRESENTATION IS NOT TO BE USED FOR ANY PURPOSES OTHER THAN THE INTENDED PURPOSE. THE CLIENT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE ENGINEER'S LIABILITY IS LIMITED TO THE SERVICES PROVIDED HEREIN.

"PLAT"  
Edward Estep  
Marshall, WV

Date: \_\_\_\_\_

Name: \_\_\_\_\_

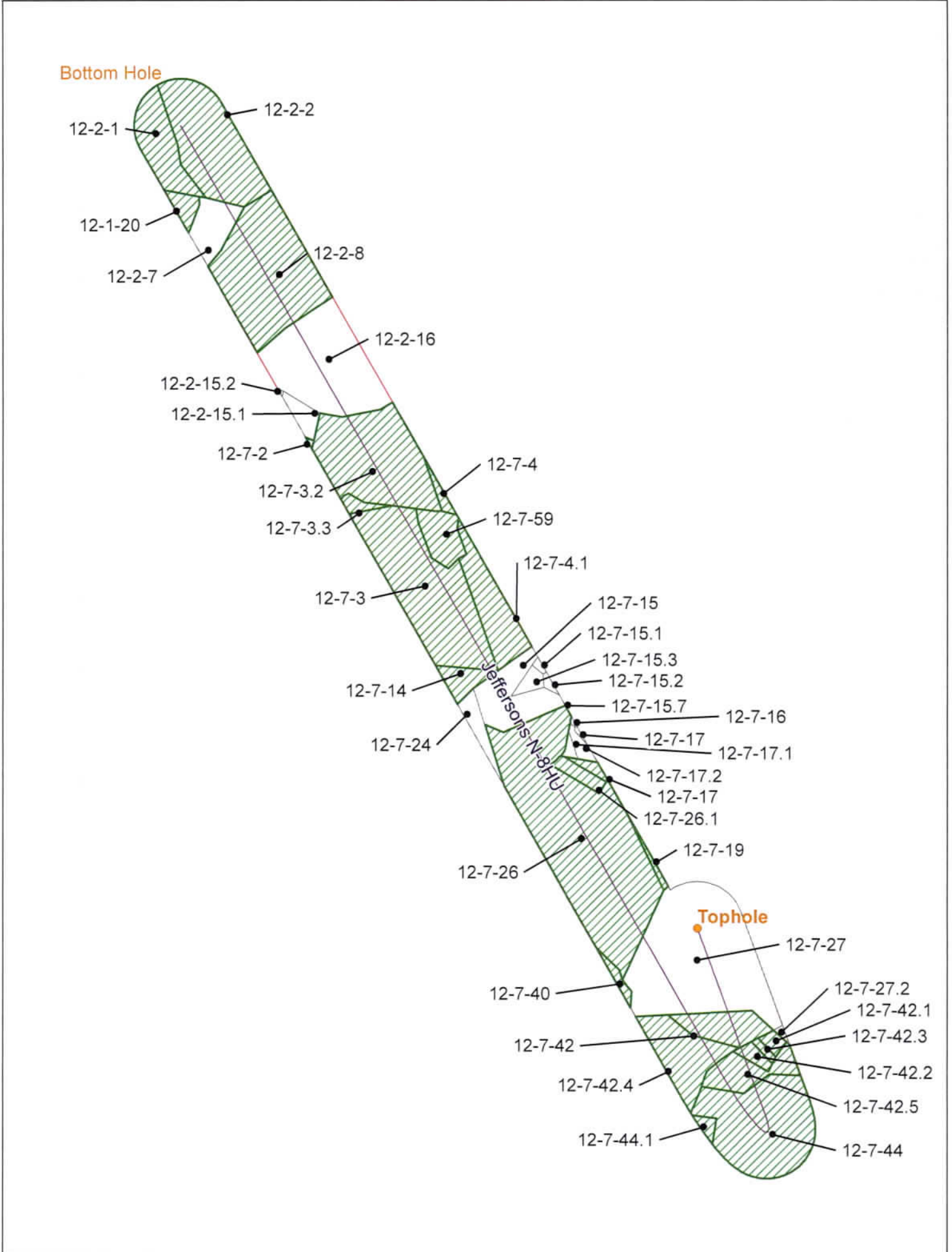
Name: \_\_\_\_\_



Date: 5/11/2018  
PCS: NAD 1983 UTM Zone 17N Foot US

05/26/2023

Jeffersons N-8HU



Coordinate System: NAD 1983 UTM Zone 17N  
 Projection: Transverse Mercator  
 Datum: North American 1983  
 False Easting: 1 000 000 Meters  
 False Northing: 0.0000  
 Central Meridian: -81.0000  
 Scale Factor: 0.9999  
 Latitude Of Origin: 0.0000  
 Units: Feet US

**CONFIDENTIAL**

0 15,000 31,000 62,000 Feet

**TUG HILL OPERATING**

- Utica Well
- 500' Buffer
- Force Pool

Jeffersons N-8HU  
Operators within 500 Feet of Well Borehole





**Operators within 500' of Well Boreholes  
Jeffersons N - 8HU**

COUNTY	DISTRICT	TMP	MINERAL OWNER OR LESSEE	ADDRESS
Wetzel	Proctor	12-1-20	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-1-20	EQT PRODUCTION COMPANY	625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222
Wetzel	Proctor	12-1-20	UNKNOWN HEIRS OF ALENE MCKIMIE	Missing
Wetzel	Proctor	12-2-1	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-2-1	EQT PRODUCTION COMPANY	625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222
Wetzel	Proctor	12-2-2	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-2-2	EQT PRODUCTION COMPANY	625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222
Wetzel	Proctor	12-2-2	THOMAS L ICEMAN	565 Baldwin Heights Circle Howard, OH 43028
Wetzel	Proctor	12-2-2	SUE M SCHAAD	455 Crestview Drive Lebanon, OH 45036
Wetzel	Proctor	12-2-2	VIRGINIA HAHN	6536 Greenwich Road Westfield Center, OH 44251
Wetzel	Proctor	12-2-7	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-2-8	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-2-8	EQT PRODUCTION COMPANY	625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222
Wetzel	Proctor	12-2-8	BILLIE MASON SULLIVAN	Missing
Wetzel	Proctor	12-2-8	JEFFREY J MCGLONE	2072 Farmview Drive Newtown, PA 18940
Wetzel	Proctor	12-2-8	JOHN R WARSINSKY	1436 S. Marshall Street Benwood, WV 26031
Wetzel	Proctor	12-2-8	KELLY M MCCLONE	2072 Farmview Drive Newtown, PA 18940
Wetzel	Proctor	12-2-8	KENNETH JAMES PARSONS	Missing
Wetzel	Proctor	12-2-8	PAM ISOM	71 Venable Road Annville, KY 40447
Wetzel	Proctor	12-2-8	REBECCA J HARRELL AKA REBECCA J ANTIBUS	533 N. Kalamazoo Avenue Marshall, MI 49068
Wetzel	Proctor	12-2-8	ROBERT D NOLAN AND VICTORIA DEE NOLAN	Missing
Wetzel	Proctor	12-2-8	SHANNON HEMINGWAY	Missing
Wetzel	Proctor	12-2-8	STEVEN M MCGLONE	16015 S. 1st Street Phoenix, AZ 85048
Wetzel	Proctor	12-2-15.1	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-2-15.2	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107

05/26/2023

**Operators within 500' of Well Boreholes  
Jeffersons N - 8HU**

Wetzel	Proctor	12-2-16	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-2	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-2	EQT PRODUCTION COMPANY	625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222
Wetzel	Proctor	12-7-2	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-2	PERKINS OIL & GAS INC	2966 Northwest Turnpike Pennsboro, WV 26415
Wetzel	Proctor	12-7-2	JOHN RICHARD NUZUM	2728 Cypress Street Columbia, SC 29205
Wetzel	Proctor	12-7-2	THREE RIVERS ROYALTY II LLC	9005 East Mineral Circle Ste 110 Centennial, CO 80112
Wetzel	Proctor	12-7-2	LISA P BEERS AND GARY J BEERS	2832 Woodley Road Montgomery, AL 36111
Wetzel	Proctor	12-7-2	ANITA LOUISE CROGHAN	46 Fox Lane Winnetka, IL 60093
Wetzel	Proctor	12-7-3	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-3	EQT PRODUCTION COMPANY	625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222
Wetzel	Proctor	12-7-3.2	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-3.2	EQT PRODUCTION COMPANY	625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222
Wetzel	Proctor	12-7-3.3	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-3.3	EQT PRODUCTION COMPANY	625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222
Wetzel	Proctor	12-7-4	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-4	EQT PRODUCTION COMPANY	625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222
Wetzel	Proctor	12-7-4	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-4	VANITA AND CORDOVA HOLDING COMPANY	8857 SW 103rd Circle Ocala, FL 34481
Wetzel	Proctor	12-7-4.1	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-4.1	EQT PRODUCTION COMPANY	625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222

**Operators within 500' of Well Boreholes  
Jeffersons N - 8HU**

Wetzel	Proctor	12-7-4.1	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-4.1	VANITA AND CORDOVA HOLDING COMPANY	8857 SW 103rd Circle Ocala, FL 34481
Wetzel	Proctor	12-7-14	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-14	EQT PRODUCTION COMPANY	625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222
Wetzel	Proctor	12-7-14	CHERYL ANN COCHRAN	231 Gamble Lane Moundsville, WV 26041
Wetzel	Proctor	12-7-15	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-15.1	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-15.2	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-15.3	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-15.7	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-16	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-17	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-17.1	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-17.2	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-19	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-19	EQT PRODUCTION COMPANY	625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222
Wetzel	Proctor	12-7-19	CHARLES R STURGILLO	58 Royal Drive Kansas City, KS 66111
Wetzel	Proctor	12-7-19	HEIRS OF LAWRENCE R PALMER JR	Missing
Wetzel	Proctor	12-7-19	JOHN RICHARD NUZUM	2728 Cypress Street Columbia, SC 29205
Wetzel	Proctor	12-7-19	JOSHUA L STURGILLO	58 Royal Drive Kansas City, KS 66111
Wetzel	Proctor	12-7-19	ROBIN M GUYET	3411 Strong Avenue, Apt 2 Kansas City, KS 65106/2023
Wetzel	Proctor	12-7-24	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107

**Operators within 500' of Well Boreholes  
Jeffersons N - 8HU**

Wetzel	Proctor	12-7-26	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-26	EQT PRODUCTION COMPANY	625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222
Wetzel	Proctor	12-7-26	JOHN RICHARD NUZUM	2728 Cypress Street Columbia, SC 29205
Wetzel	Proctor	12-7-26.1	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-26.1	EQT PRODUCTION COMPANY	625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222
Wetzel	Proctor	12-7-26.1	JOHN RICHARD NUZUM	2728 Cypress Street Columbia, SC 29205
Wetzel	Proctor	12-7-27	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-27.2	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-40	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-40	EQT PRODUCTION COMPANY	625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222
Wetzel	Proctor	12-7-40	JOHN RICHARD NUZUM	2728 Cypress Street Columbia, SC 29205
Wetzel	Proctor	12-7-40	HEIRS OF ALMA SIBERT	Missing
Wetzel	Proctor	12-7-42	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-42	EQT PRODUCTION COMPANY	625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222
Wetzel	Proctor	12-7-42.1	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-42.1	EQT PRODUCTION COMPANY	625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222
Wetzel	Proctor	12-7-42.2	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-42.2	EQT PRODUCTION COMPANY	625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222
Wetzel	Proctor	12-7-42.3	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-42.3	EQT PRODUCTION COMPANY	625 Liberty Avenue Suite 1700 Pittsburgh, PA <del>15222</del> 05/26/2023
Wetzel	Proctor	12-7-42.4	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107

**Operators within 500' of Well Boreholes  
Jeffersons N - 8HU**

Wetzel	Proctor	12-7-42.4	EQT PRODUCTION COMPANY	625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222
Wetzel	Proctor	12-7-42.5	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-42.5	EQT PRODUCTION COMPANY	625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222
Wetzel	Proctor	12-7-44	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-44	EQT PRODUCTION COMPANY	625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222
Wetzel	Proctor	12-7-44	DORIS MATTHEWS	c/o Joyce Raidle 2100 Main Line Blvd. Alexandria, VA 22301
Wetzel	Proctor	12-7-44.1	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-44.1	EQT PRODUCTION COMPANY	625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222
Wetzel	Proctor	12-7-44.1	DORIS MATTHEWS	c/o Joyce Raidle 2100 Main Line Blvd. Alexandria, VA 22301
Wetzel	Proctor	12-7-59	TH EXPLORATION LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-59	EQT PRODUCTION COMPANY	625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222
Wetzel	Proctor	12-7-59	JOHN RICHARD NUZUM	2728 Cypress Street Columbia, SC 29205
Wetzel	Proctor	12-7-59	MARY MARGARET STERLING	372 Ruddles Mill Road Paris, KY 40361
Wetzel	Proctor	12-7-59	LINDA L NUZUM	98 Michigan Avenue Ashville, NC 28806
Wetzel	Proctor	12-7-59	THREE RIVERS ROYALTY II LLC	9005 East Mineral Circle Ste 110 Centennial, CO 80112
Wetzel	Proctor	12-7-59	ROBERT JOSEPH COLEMAN	2406 Newman Ridge Road Proctor, WV 26055
Wetzel	Proctor	12-7-59	VANITA AND CORDOVA HOLDING COMPANY	8857 SW 103rd Circle Ocala, FL 34481

**"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."**

05/26/2023



**JEFFERSONS N-8HU**  
**UTICA UNIT - 338.8835± ACRES**  
**TUG HILL OPERATING**

NOTES

1. BORE PATH BASED ON GRID NORTH.
2. NO WATER WELLS WITHIN 250' OF WELL WERE FOUND, NO DWELLINGS WITHIN 825' OF PAD CENTER WERE FOUND.
3. OWNERSHIP TAKEN FROM PUBLIC RECORDS OF WETZEL COUNTY, WV IN NOVEMBER, 2021. COORDINATES AND WELL TIES BASED UPON DIFFERENTIAL GPS MEASUREMENTS.
4. WELL LOCATION REFERENCES ARE BASED UPON THE MAGNETIC MERIDIAN.
5. ALL DEEP WELLS WITHIN 1,000' ARE SHOWN ON THIS PLAT.
6. BOUNDARIES ALONG ROADWAYS ARE BASED UPON MEMORANDUM BY DICKIE, MCCAMEY & CHILCOTE, P.C. FILE 0058304.0401147
7. L.P.1 & LTP ARE THE SAME POINT.

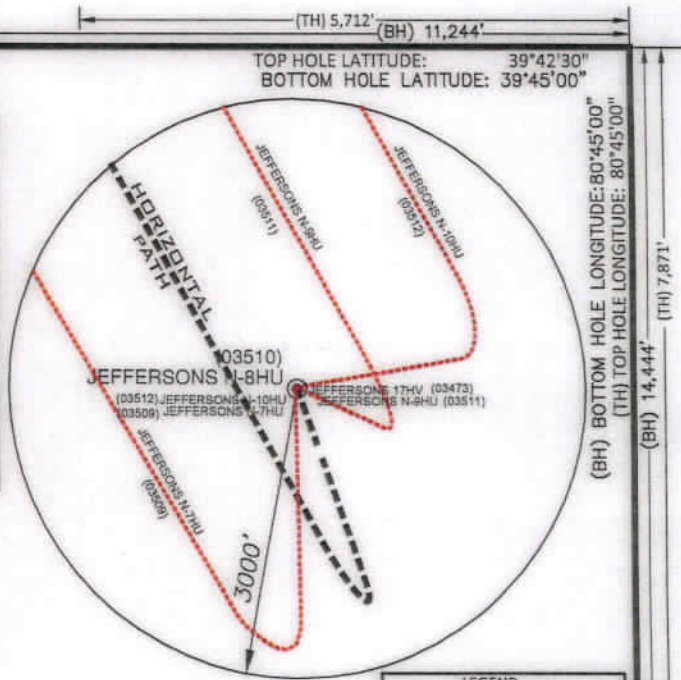
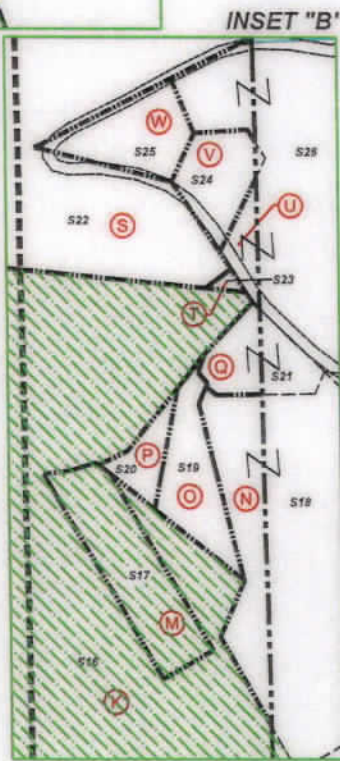
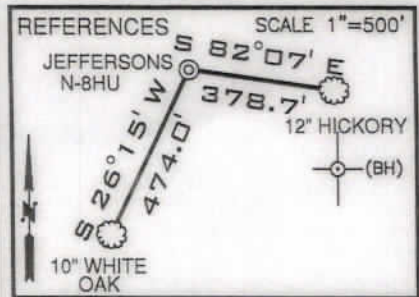
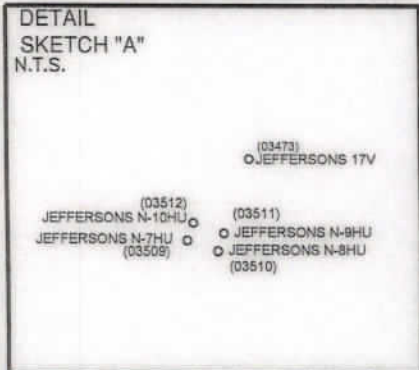
INSET "C"



INSET "A"



(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS



LEGEND

- LEASE TRACTS
- - - SURFACE TRACTS
- - - WELL LATERAL
- - - POINT PLEASANT LEGS
- - - UNIT BOUNDARY
- (A) LEASE # (SEE 6A1 FORM)
- 400' BORE PATH OFFSET
- - - 500' WELL BORE OFFSET
- (FTP) PROPOSED FIRST TAKE POINT
- (LTP) PROPOSED LAST TAKE POINT
- ▨ FORCED POOL TRACT

**SURFACE HOLE**  
 UTM. NAD83, ZONE 17  
 IN METERS  
 N) 4,393,016.57  
 E) 519,713.77

**LANDING POINT 1**  
 UTM. NAD83, ZONE 17  
 IN METERS  
 N) 4,392,547.16  
 E) 519,789.59

**BOTTOM HOLE**  
 UTM. NAD83, ZONE 17  
 IN METERS  
 N) 4,395,636.71  
 E) 518,021.01

LINE	BEARING	DISTANCE
L1	N 63°06' E	861.61'
L2	S 32°44' E	1065.10'
L3	N 19°08' E	2102.76'

CURVE	CHORD BEARING	CHORD LENGTH	RADIUS	ARC LENGTH
C1	S 15°35' E	141.80'	1005.87'	141.92'
C2	S 02°25' E	57.23'	167.43'	57.51'
C3	S 50°53' W	33.34'	21.71'	38.02'
C4	N 60°16' W	49.17'	106.24'	49.62'
C5	N 45°08' W	85.06'	554.16'	85.15'
C6	N 38°27' W	154.42'	1649.20'	154.48'
C7	N 32°00' W	532.32'	3726.33'	532.78'

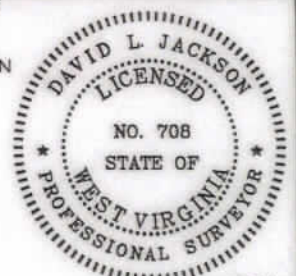
FILE NUMBER \_\_\_\_\_  
 DRAWING NUMBER: JEFFERSONS\_N-8HU\_REVO  
 SCALE 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION SUBMETER MAPPING  
GRADE GPS

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

P.S. 708

*David L Jackson*

JACKSON SURVEYING INC.  
 P.O. Box 1460  
 Clarksburg, WV 26302  
 304-623-5851



SEAL

WVDEP  
 OFFICE OF OIL & GAS  
 601 57TH STREET, SE  
 CHARLESTON, WV 25304

DATE: JANUARY 31, 2023

OPERATORS WELL NO. JEFFERSONS N-8HU

API WELL NO. 47-103-03510

STATE WV COUNTY WETZEL PERMIT 05/26/2023

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

LOCATION ELEVATION 1217.5' WATERSHED (HUC 10) PROCTOR CREEK OF FRENCH CREEK - OHIO RIVER (HUC-10)

DISTRICT PROCTOR COUNTY WETZEL

QUADRANGLE NEW MARTINSVILLE 7.5' LEASE NUMBER SEE WW-6A1 FORM

SURFACE OWNER EDWARD H. & JOAN E. ESTEP ACREAGE 92.302

OIL & GAS ROYALTY OWNER EDWARD H. & JOAN E. ESTEP - SEE WW-6A1 LEASE ACREAGE 92.302

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION   
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE (SPECIFY) \_\_\_\_\_

PLUG & ABANDON  CLEAN OUT & REPLUG

TARGET FORMATION POINT PLEASANT ESTIMATED DEPTH TVD: 11,694' TMD: 24,223'

WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DARREN BROWN, CT CORP

ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107 ADDRESS 5098 WASHINGTON STREET WEST, SUITE 407 CHARLESTON, WV 25313-1561

COUNTY NAME  
 PERMIT







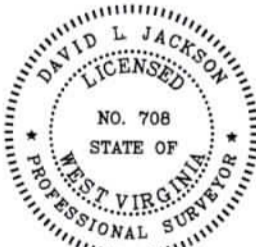
form ww6

**JEFFERSONS N-8HU  
UTICA UNIT - 338.8835± ACRES  
TUG HILL OPERATING**

\* FORCED POOLED TRACTS ARE HIGHLIGHTED

Parcels within Unit Boundary				
Tags	Number	Tax Map -Parcel	Surface Owner	Acres
A	52	12-7-44	Yonself Jay Eller III & Jennifer Lynn Eller	15.06
B	51	12-7-44.1	James Foster	5.054
C	53	12-7-42.4	Peggy Lou & Albert Cecil - L/E Stoven Mark Cecil, Et Al	17.333
D	54	12-7-42.5	James D. Furbee, II	6.43
E	55	12-7-42.3	April Fluharty	1.072
F	56	12-7-42.3	James D. Furbee, II	0.528
G	57	12-7-42.1	James D. Furbee, II	1.21
H	59	12-7-42	James D. Furbee, II	6.5
I	510	12-7-27	Edward H. & Joan E. Estep	92.302
J	5121	12-7-40	T.H. Exploration, LLC.	175.55
K	516	12-7-26	T.H. Exploration, LLC.	59.89
L	515	12-7-19	Jeffery S. Underwood & Velvet K. Paris	41.4
M	517	12-7-26.1	Colby Dean Sidenstricker	2.01
N	518	12-7-17	Jeffery S. Underwood & Velvet K. Paris	13.43
O	519	12-7-17.2	T.H. Exploration, LLC.	1.29
P	520	12-7-17.1	T.H. Exploration, LLC.	0.521
Q	521	12-7-16	Grant & Jennifer Throckmorton	1.1
R	5122	12-7-27	Lance C. & Minerva R. Evans	164.2
S	522	12-7-15	Rost Energy Company, Inc.	22.63
T	523	12-7-15.7	T.H. Exploration III, LLC.	0.68
U	526	12-7-15.1	Billy Sweeney	10.72
V	524	12-7-15.2	Billy Sweeney	1.8
W	525	12-7-15.3	Billy Sweeney	1.26
X	541	12-7-14	Matthew Rohr & Wayne Raber	32.74
Y	539	12-7-4.1	Robert Joseph Coleman	55.81
Z	542	12-7-3	Matthew Rohr & Wayne Raber	55.828
AA	540	12-7-59	Tanner Kelley	5
BB	543	12-7-3.3	Robert Joseph Coleman	3.53
CC	5104	12-7-3.1	Jeremy W. & Sharon E. Heddelson	2.99
DD	544	12-7-3.2	Lisa M. Naegele	28.47
EE	545	12-7-4	Rodney G. Eller	46.7
FF	550	12-7-2	Jeremy W. & Sharon E. Heddelson	19.8
GG	551	12-2-15.1	Vivian A. Parsons, Et Al	5
HH	552	12-2-15.2	Charles Phillip Parsons	2
II	553	12-2-15	Charles Phillip Parsons	3
JJ	549	12-2-16	Laura Lee Richards Cook	33
KK	548	12-2-8	Laura Richards Cook	185.125
LL	554	12-2-7	John D. Amnah	44.5
MM	5123	12-1-20	Charles E. Frohnapef, Trustee of the Charles E. Frohnapef Living Trust Dated October 3, 2017	126
NN	556	12-2-2	Ruby Wood, Et Al	82
OO	555	12-2-1	Roy Yoho	49

Number	Tax Map -Parcel	Adjoining Parcels Ownership Table	Acres
58	12-7-27.2	Douglas I. & Patricia A. Pitts	10.73
511	12-7-27.1	Edward H. & Joan E. Estep	6.718
512	12-7-43	Furbee Cemetery	1.11
513	12-7-20	Jeffrey A. & Paula J. Gorby	104.72
514	12-7-28	Palmer Cemetery	0.98
527	12-7-15.6	Jeffery S. Underwood & Velvet K. Paris	5.923
528	12-7-15.5	Jimmy L. & Sharon Sue Colvin	0.46
529	12-7-15.4	Jimmy L. & Sharon Sue Colvin	0.97
530	12-7-18	Anthony M. & Elizabeth G. Parks	1
531	12-7-7.6	William E. & Glenda E. Kaufman	1.55
532	12-7-20.2	Peter R. Tamborello & Annis E. Ponikvar	0.9
533	12-7-20.1	Peter R. Tamborello & Annis E. Ponikvar	5.18
534	12-7-7.4	Charles Lee & Betty J. Huggins	4
535	12-7-5	Matthew D. Arrick	20.37
536	12-7-6	Stacy E. Briner	0.25
537	12-7-51	Jean J. Eller	1.25
538	12-7-52	Brent J. & Sara L. Eller	10.25
546	12-2-8.1	Friend W. Parsons	0.5
547	12-2-9	Laura Richards Cook	77
557	12-2-4	Edith Salem & Lisa G. Larson	56.25
558	12-2-4.1	Tyrone Sultzbach & Richard Wolf	1
559	12-2-5	Clifford W. & Alberta B. Johnson	75.96
560	12-2-6	Clifford W. & Alberta B. Johnson	36
561	05-26-16	Heartwood Forestland Fund VII LP	82.5
562	12-01-40	Mark W. Booth, Maggie Ann Rockwell & George E. Booth, Jr.	117
563	12-2-24	Maggie Ann Rockwell, Mark W. Booth & George E. Booth, Jr.	13.1
564	05-26-18	Eric Jay Booth	94
565	05-26-17	Heartwood Forestland Fund VII LP	82.56
566	05-26-6	Heartwood Forestland Fund VII LP	36.17
567	05-26-4.4	Otis F. & Gienna M. Rush	39.436
568	05-26-4.1	Otis S. Rush, Et Ux	12.188
569	05-26-19	Lois E. Booth & Eric Jay Booth	50
570	05-26-4.3	Crystal & Randolph F. Matask	2.253
571	05-26-4.5	Eric Jay Booth	74.388
572	05-26-4.2	Otis S. Rush, et ux	1.58
573	05-26-4	James R. & Melody A. Anderson	3.887
574	05-26-4.6	Otis F. Rush Jr.	12.268
575	05-26-23	Richard Joseph Otte	11.34
576	05-26-9	Theresa H. Walton, as Trustee of The Robert D. & Bonnie L. Oliver Trust	21.75
577	05-26-10	Theresa H. Walton, as Trustee of The Robert D. & Bonnie L. Oliver Trust	24.94
578	05-26-14	Theresa H. Walton, as Trustee of The Robert D. & Bonnie L. Oliver Trust	27.56
579	12-2-25	Michael K. & Rosetta A. Cozart	1.265
580	12-2-20	Michael K. & Rosetta A. Cozart	34.0637
581	12-7-7.7	Gregory D. & Bobbie Jo Hughes	0.17
582	12-7-7.3	Robert N. & Deborah Sue Edwards	0.24
583	12-7-7.2	Robert N. & Deborah Sue Edwards	0.412
584	12-7-7.1	Mark E. Eller	1.41
585	12-7-7.5	Mark E. Eller	1.94
586	12-7-8.1	Brian & Christine L. Nice	7.628
587	12-7-8	Mark E. Eller	1.012
588	12-2-20.1	Shirley L. & Kenneth L. Haught	1
589	12-2-20.2	Michael K. Cozart	1.025
590	12-7-9.1	James T. Eddy	17.47
591	12-7-9	Michael J. & Alena R. Fayad	22.526
592	12-7-21	Alena R. & Michael J. Fayad, III	58
593	12-7-31.1	Nancy Jayne & Mark J. Davis	0.808
594	12-7-31.2	Nancy Jayne & Mark J. Davis	17.37
595	12-7-32.1	Charles & Judith Rose - L/E, Charles D. Rose, Jr. Et Al	18
596	12-7-30	William C. Cross Jr. Irrev. Trust	19.75
597	12-7-46	William C. Cross Jr. Irrev. Trust	9.53
598	12-7-45	William C. Cross Jr. Irrev. Trust	17.24
599	12-7-44.2	Danny E. & Jill L. McKinney	19.46
5100	12-12-9	Rickey A. Farley	17.175
5101	12-7-14.1	W VA Dept of Highways	3.49
5102	12-7-3.4	Dru W. Bills	8.253
5103	12-7-3.5	Robert Joseph Coleman	5.422
5105	12-7-57	John D. & Deborah L. Amnah	2.33
5106	12-7-58	John D. & Deborah L. Amnah	1.03
5107	12-7-56	Starla K. Richmond	0.3
5108	12-7-1	Tamara & William J. Wetzel	1
5109	12-6-52	John D. & Deborah L. Amnah	6.46
5110	12-1-34	John D. & Deborah L. Amnah	38
5111	12-1-34.1	Herbert Parsons & Virginia Yoho Roy	2
5112	12-1-32	Baxter Farm, LLC	78.74
5113	12-1-31	Steven Jack & Susan Louise Hafer	20
5114	12-1-19	Steven J. & Susan L. Hafer	36.5
5115	12-1-8	Benjamin J. Kocher	168.67
5116	12-1-41	Mark W. Booth, Maggie Ann Rockwell & George E. Booth, Jr.	5
5117	12-1-8.1	Robert F. Rothlisberger	50.33
5118	05-27-24	Robert F. Rothlisberger	60.1
5119	12-02-03	Nelson M. & Mary D. Miller	51.72
5120		Miccip School	



P.S. 708

*David L Jackson*

05/26/2023



**TUG HILL  
OPERATING**

OPERATOR'S WELL #: JEFFERSONS N-8HU  
DISTRICT: Proctor  
COUNTY: Wetzel  
STATE: WV  
API #: 47-103-03510

WELL PLAT  
PAGE 3 OF 4  
DATE: 01/31/2023

form ww6

**JEFFERSONS N-8HU  
UTICA UNIT - 338.8835± ACRES  
TUG HILL OPERATING**

Lease ID	TMP	Tag	Grantor, Lessor, Etc.	Deed Book/Page	
**FORCE POOL**	12-7-44	A	DORIS B MATTHEWS, ET AL	NA	NA
**FORCE POOL**	12-7-44.1	B	DORIS B MATTHEWS, ET AL	NA	NA
**FORCE POOL**	12-7-42.4	C	THOMAS DELLATORRE AND SANDRA DELLATORRE, ET AL	196A	360
**FORCE POOL**	12-7-42.5	D	BEVERLY J MATTHEWS, ET AL	197A	595
**FORCE POOL**	12-7-42.2	E	BEVERLY J MATTHEWS, ET AL	197A	595
**FORCE POOL**	12-7-42.3	F	BEVERLY J MATTHEWS, ET AL	197A	595
**FORCE POOL**	12-7-42.1	G	BEVERLY J MATTHEWS, ET AL	197A	595
**FORCE POOL**	12-7-42	H	BEVERLY J MATTHEWS, ET AL	197A	595
10*22042	12-7-27	I	EDWARD H ESTEP AND JOAN E ESTEP	210A	205
**FORCE POOL**	12-7-40	J	BETTY WATSON HALL, ET AL	234A	362
**FORCE POOL**	12-7-26	K	BETTY WATSON HALL, ET AL	234A	362
**FORCE POOL**	12-7-19	L	BETTY WATSON HALL, ET AL	234A	362
**FORCE POOL**	12-7-26.1	M	BETTY WATSON HALL, ET AL	234A	362
10*39154	12-7-17	N	ROST ENERGY COMPANY INC	269A	641
10*24215	12-7-17.2	O	MITCHELL M WHITE AND KAREN M WHITE	215A	897
10*24215	12-7-17.1	P	MITCHELL M WHITE AND KAREN M WHITE	215A	897
10*39154	12-7-16	Q	ROST ENERGY COMPANY INC	269A	641
10*39048	12-7-24	R	DAVID S PALMER, ET AL	258A	213
10*39154	12-7-15	S	ROST ENERGY COMPANY INC	269A	641
10*24215	12-7-15.7	T	MITCHELL M WHITE AND KAREN M WHITE	215A	897
10*23046	12-7-15.1	U	PHILIP H ESTEP	204A	164
10*23046	12-7-15.2	V	PHILIP H ESTEP	204A	164
10*23046	12-7-15.3	W	PHILIP H ESTEP	204A	164
**FORCE POOL**	12-7-14	X	CHRISTINA JO DAVIES FKN CHRISTINA JO YOHO, ET AL	174A	564
**FORCE POOL**	12-7-4.1	Y	BARBARA A EDDY, ET AL	173A	497
**FORCE POOL**	12-7-3	Z	JOHN J MENSORE, TULANE B MENSORE, ESTA MARIE MCCALL AND JOHN J MENSORE, TRUSTEE UNDER JOHN J MENSORE REV TR DTD 7/12/2001, ET AL	151A	540
**FORCE POOL**	12-7-59	AA	JOHN J MENSORE, TULANE B MENSORE, ESTA MARIE MCCALL AND JOHN J MENSORE, TRUSTEE UNDER JOHN J MENSORE REV TR DTD 7/12/2001, ET AL	151A	540
**FORCE POOL**	12-7-3.3	BB	JOHN J MENSORE, TULANE B MENSORE, ESTA MARIE MCCALL AND JOHN J MENSORE, TRUSTEE UNDER JOHN J MENSORE REV TR DTD 7/12/2001, ET AL	151A	540
**FORCE POOL**	12-7-3.1	CC	JOHN J MENSORE, TULANE B MENSORE, ESTA MARIE MCCALL AND JOHN J MENSORE, TRUSTEE UNDER JOHN J MENSORE REV TR DTD 7/12/2001, ET AL	151A	540
**FORCE POOL**	12-7-3.2	DD	JOHN J MENSORE, TULANE B MENSORE, ESTA MARIE MCCALL AND JOHN J MENSORE, TRUSTEE UNDER JOHN J MENSORE REV TR DTD 7/12/2001, ET AL	151A	540
**FORCE POOL**	12-7-4	EE	BARBARA A EDDY, ET AL	173A	497
**FORCE POOL**	12-7-2	FF	CAROL ANN EALY BRECKENRIDGE, ET AL	167A	749
10*18856	12-2-15.1	GG	ROY FRIEND YOHO, ET AL	190A	118
10*18856	12-2-15.2	HH	ROY FRIEND YOHO, ET AL	190A	118
10*22364	12-2-15	II	CHARLES PHILIP PARSONS, ET AL	221A	648
10*31168	12-2-16	JJ	HERBERT L MILLER AND BRENDA S MILLER	173A	673
**FORCE POOL**	12-2-8	KK	AARON DAVIS, ET AL	143A	517
10*24617	12-2-7	LL	BETTY LOU GOUDY	220A	884
**FORCE POOL**	12-1-20	MM	SHIBEN ESTATES INC, ET AL	155A	629
**FORCE POOL**	12-2-2	NN	BETTY J FLANAGAN FKA BETTY J ECKLES, ET AL	176A	429
**FORCE POOL**	12-2-1	OO	PATHFINDER RESOURCES LLC DBA RECON PATHFINDER LLC ET AL	275A	203



P.S. 708 *David L Jackson*

05/26/2023



**TUG HILL  
OPERATING**

OPERATOR'S  
WELL #: JEFFERSONS N-8HU  
DISTRICT: Proctor  
COUNTY: Wetzel  
STATE: WV  
API #: 47-103-03510

WELL PLAT  
PAGE 4 OF 4  
DATE: 01/31/2023



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

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

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

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

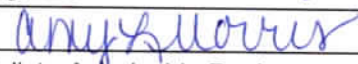
\*See attached pages

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

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

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

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

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



Lease ID	TMP	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Book/Page	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
10*21912	12-7-44	A	JOANNE ELIZABETH RHODES	TH EXPLORATION LLC	1/8+	200A 447	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*21919	12-7-44	A	JAMES D ELLER	TH EXPLORATION LLC	1/8+	200A 433	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*22070	12-7-44	A	VONSELL JAY ELLER AND JENNIFER LYNN	TH EXPLORATION LLC	1/8+	201A 423	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23288	12-7-44	A	LORI LYNN BRIGGS	TH EXPLORATION LLC	1/8+	213A 178	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23289	12-7-44	A	PHYLLIS JEAN HAUGHT CROASMUN	TH EXPLORATION LLC	1/8+	212A 12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23290	12-7-44	A	JIMMY LEE BRIGGS AND LORNA A BRIGGS	TH EXPLORATION LLC	1/8+	212A 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23291	12-7-44	A	STAR BANAY BRIGGS	TH EXPLORATION LLC	1/8+	212A 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23292	12-7-44	A	NANCY DELLATORRE MCCANN	TH EXPLORATION LLC	1/8+	212A 398	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23744	12-7-44	A	THOMAS DELLATORRE AND SANDRA DELLATORRE	TH EXPLORATION LLC	1/8+	213A 692	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23804	12-7-44	A	SUSAN GAIL KISNER AND STEVE A KISNER	TH EXPLORATION LLC	1/8+	209A 252	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24319	12-7-44	A	SAMUEL E HALL JR AND LISA L HALL	TH EXPLORATION LLC	1/8+	215A 900	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*25313	12-7-44	A	TIMOTHY L BRIGGS AND ROBIN GALE BRIGGS	TH EXPLORATION LLC	1/8+	222A 148	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*28247	12-7-44	A	PENELOPE A BARDET AND PATRICK J BARDET	TH EXPLORATION LLC	1/8+	235A 565	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*28440	12-7-44	A	JOHN ARNOLD BRIGGS AND THERESA BRIGGS	TH EXPLORATION LLC	1/8+	237A 364	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*39686	12-7-44	A	BETTY JANE OLIVE	TH EXPLORATION LLC	1/8+	272A 151	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*39750	12-7-44	A	RAYMOND ALLEN BRIGGS AND DEBORAH BRIGGS	TH EXPLORATION LLC	1/8+	270A 469	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*39964	12-7-44	A	DOUGLAS ANTHONY MATTHEWS SNT TODD WALLEVAND TRU	TH EXPLORATION LLC	1/8+	277A 688	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*40011	12-7-44	A	BRETT J MARTINEZ AND ERIN B MARTINEZ	TH EXPLORATION LLC	1/8+	277A 692	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*40085	12-7-44	A	DAVID W GOLDMAN AND SANDRA L MATTHEWS	TH EXPLORATION LLC	1/8+	278A 835	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*40128	12-7-44	A	NEMANJA SVIRCEV AND PAIGE N ZALESKI	TH EXPLORATION LLC	1/8+	278A 839	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				BRC WORKING INTEREST COMPANY LLC	1/8+	102A 505	BRC Working Interest Company LLC to Chesapeake Appalachia LLC: 103A/470	Chesapeake Appalachia LLC to Statoil Onshore Properties Inc: 120A/109	Chesapeake Appalachia LLC to SWN Production Company LLC: 157A/540	Statoil Onshore Properties Inc to SWN Exchange Titleholder LLC: 158A/801	Merger - SWN Exchange Titleholder LLC merged with and into SWN Production Company LLC: CB 13/296	SWN Production Company LLC to Antero Exchange Properties: 177A/533	Statoil Onshore Properties Inc to Antero Exchange Properties LLC: 177A/738	Merger - Antero Exchange Properties LLC merged with and into Antero Resources Corporation: CB 13/311	Antero Resources Corporation to EQT Production Company: 231A/22	**FORCE POOL**
**FORCE POOL**	12-7-44	A	BRC APPALACHIAN MINERALS I LLC	UNLEASED	NA	NA					**FORCE POOL**					
**FORCE POOL**	12-7-44	A	DORIS B MATTHEWS	TH EXPLORATION LLC	1/8+	209A 252	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23804	12-7-42.4	C	SUSAN GAIL KISNER AND STEVE A KISNER	TH EXPLORATION LLC	1/8+	215A 900	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24319	12-7-42.4	C	SAMUEL E HALL JR AND LISA L HALL	TH EXPLORATION LLC	1/8+	218A 926	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24486	12-7-42.4	C	PEGGY HUGGINS AND MICHAEL HUGGINS	TH EXPLORATION LLC	1/8+	218A 923	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24487	12-7-42.4	C	TAMMY J WEAKEY AND DALE K WEAKEY	TH EXPLORATION LLC	1/8+	218A 923	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24738	12-7-42.4	C	DEBRA D THROCKMORTON AND JOHN G THROCKMORTON	TH EXPLORATION LLC	1/8+	220A 17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*25313	12-7-42.4	C	TIMOTHY L BRIGGS AND ROBIN GALE BRIGGS	TH EXPLORATION LLC	1/8+	222A 148	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*28247	12-7-42.4	C	PENELOPE A BARDET AND PATRICK J BARDET	TH EXPLORATION LLC	1/8+	235A 565	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*29204	12-7-42.4	C	REGAN JOHNSON	TH EXPLORATION LLC	1/8+	245A 368	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*39686	12-7-42.4	C	BETTY JANE OLIVE	TH EXPLORATION LLC	1/8+	272A 151	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
**FORCE POOL**	12-7-42.4	C	BEVERLY J MATTHEWS	ANTERO RESOURCES CORPORATION	1/8+	197A 595	Antero Resources Corporation to EQT Production Company: 231A/22				**FORCE POOL**					
**FORCE POOL**	12-7-42.4	C	BRC APPALACHIAN MINERALS I, LLC	BRC WORKING INTEREST COMPANY LLC	1/8+	102A 505	BRC Working Interest Company LLC to Chesapeake Appalachia LLC: 103A/470	Chesapeake Appalachia LLC to Statoil Onshore Properties Inc: 120A/109	Chesapeake Appalachia LLC to SWN Production Company LLC: 157A/540	Statoil Onshore Properties Inc to SWN Exchange Titleholder LLC: 158A/801	Merger - SWN Exchange Titleholder LLC merged with and into SWN Production Company LLC: CB 13/296	SWN Production Company LLC to Antero Exchange Properties: 177A/533	Statoil Onshore Properties Inc to Antero Exchange Properties LLC: 177A/738	Merger - Antero Exchange Properties LLC merged with and into Antero Resources Corporation: CB 13/311	Antero Resources Corporation to EQT Production Company: 231A/22	**FORCE POOL**
**FORCE POOL**	12-7-42.4	C	CARLA BRIGGS GRABITS	ANTERO RESOURCES CORPORATION	1/8+	194A 807	Antero Resources Corporation to EQT Production Company: 231A/22				**FORCE POOL**					
**FORCE POOL**	12-7-42.4	C	CAROLYN L GRAHAM AND JAMES B GRAHAM	ANTERO RESOURCES CORPORATION	1/8+	194A 810	Antero Resources Corporation to EQT Production Company: 231A/22				**FORCE POOL**					
**FORCE POOL**	12-7-42.4	C	CONNIE YONYON	ANTERO RESOURCES CORPORATION	1/8+	195A 276	Antero Resources Corporation to EQT Production Company: 231A/22				**FORCE POOL**					
**FORCE POOL**	12-7-42.4	C	DORIS B MATTHEWS	ANTERO RESOURCES CORPORATION	1/8+	194A 552	Antero Resources Corporation to EQT Production Company: 231A/22				**FORCE POOL**					

Lease ID	TMP	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Book/Page	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
**FORCE POOL**	12-7-42.4	C	JAMES D AND REBECCA S ELLER	ANTERO RESOURCES CORPORATION	1/8+	194A 801	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42.4	C	JAMES R BEALS	ANTERO RESOURCES CORPORATION	1/8+	194A 543	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42.4	C	JIMMY L BRIGGS AND LORNA A BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A 546	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42.4	C	JOANNE ELIZABETH RHODES AND GREGORY K RHODES	ANTERO RESOURCES CORPORATION	1/8+	195A 273	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42.4	C	JOHN ARNOLD BRIGGS AND THERESA BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A 795	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42.4	C	KATHLEEN D RUSSELL	ANTERO RESOURCES CORPORATION	1/8+	194A 555	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42.4	C	KATHY RUSSELL WELLMAN AND KENNETH WELLMAN	ANTERO RESOURCES CORPORATION	1/8+	194A 561	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42.4	C	LINDA L LYKINS	ANTERO RESOURCES CORPORATION	1/8+	194A 819	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42.4	C	LORI LYNN BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A 76	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42.4	C	MARY MAGDALENE ELLER	ANTERO RESOURCES CORPORATION	1/8+	195A 258	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42.4	C	MERRILYN E SAMPSON AND JOHNNEY D SAMPSON	ANTERO RESOURCES CORPORATION	1/8+	194A 829	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42.4	C	NANCY DELLATORRE MCCANN	ANTERO RESOURCES CORPORATION	1/8+	196A 369	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42.4	C	PHYLLIS JEAN CROASMUM	ANTERO RESOURCES CORPORATION	1/8+	194A 549	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42.4	C	RANDALL HOWARD RUSSELL	ANTERO RESOURCES CORPORATION	1/8+	194A 558	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42.4	C	RAYMOND ALLEN BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A 798	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42.4	C	STAR BANAY BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A 79	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**

Lease ID	TMP	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Book/Page	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
**FORCE POOL**	12-7-42.4	C	THOMAS DELLATORRE AND SANDRA DELLATORRE	ANTERO RESOURCES CORPORATION	1/8+	196A 360	Antero Resources Corporation to EQT Production Company: 231A/22	**FORCE POOL**								
10*23804	12-7-42.5	D	SUSAN GAIL KISNER AND STEVE A KISNER	TH EXPLORATION LLC	1/8+	209A 252	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24319	12-7-42.5	D	SAMUEL E HALL JR AND LISA L HALL	TH EXPLORATION LLC	1/8+	215A 900	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24486	12-7-42.5	D	PEGGY HUGGINS AND MICHAEL HUGGINS	TH EXPLORATION LLC	1/8+	218A 926	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24487	12-7-42.5	D	TAMMY J WEAKLEY AND DALE K WEAKLEY	TH EXPLORATION LLC	1/8+	218A 923	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24738	12-7-42.5	D	DEBRA D THROCKMORTON AND JOHN G THROCKMORTON	TH EXPLORATION LLC	1/8+	220A 17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*25313	12-7-42.5	D	TIMOTHY L BRIGGS AND ROBIN GALE BRIGGS	TH EXPLORATION LLC	1/8+	222A 148	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*28247	12-7-42.5	D	PENELOPE A BARDET AND PATRICK J BARDET	TH EXPLORATION LLC	1/8+	235A 565	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*29204	12-7-42.5	D	REGAN JOHNSON	TH EXPLORATION LLC	1/8+	245A 368	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*39686	12-7-42.5	D	BETTY JANE OLIVE	TH EXPLORATION LLC	1/8+	272A 151	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
**FORCE POOL**	12-7-42.5	D	BEVERLY J MATTHEWS	ANTERO RESOURCES CORPORATION	1/8+	197A 595	Antero Resources Corporation to EQT Production Company: 231A/22	**FORCE POOL**								
**FORCE POOL**	12-7-42.5	D	BRC APPALACHIAN MINERALS I, LLC	BRC WORKING INTEREST COMPANY LLC	1/8+	102A 505	BRC Working Interest Company LLC to Chesapeake Appalachia LLC: 103A/470	Chesapeake Appalachia LLC to Statoil Onshore Properties Inc: 120A/109	Chesapeake Appalachia LLC to SWN Production Company LLC: 157A/540	Statoil Onshore Properties Inc to SWN Exchange Titleholder LLC: 158A/801	Merger - SWN Exchange Titleholder LLC merged with and into SWN Production Company LLC: CB 13/296	SWN Production Company LLC to Antero Exchange Properties: 177A/533	Statoil Onshore Properties Inc to Antero Exchange Properties LLC: 177A/738	Merger - Antero Exchange Properties LLC merged with and into Antero Resources Corporation: CB 13/311	Antero Resources Corporation to EQT Production Company: 231A/22	**FORCE POOL**
**FORCE POOL**	12-7-42.5	D	CARLA BRIGGS GRABITS	ANTERO RESOURCES CORPORATION	1/8+	194A 807	Antero Resources Corporation to EQT Production Company: 231A/22	**FORCE POOL**								
**FORCE POOL**	12-7-42.5	D	CAROLYN L GRAHAM AND JAMES B GRAHAM	ANTERO RESOURCES CORPORATION	1/8+	194A 810	Antero Resources Corporation to EQT Production Company: 231A/22	**FORCE POOL**								
**FORCE POOL**	12-7-42.5	D	CONNIE YONYON	ANTERO RESOURCES CORPORATION	1/8+	195A 276	Antero Resources Corporation to EQT Production Company: 231A/22	**FORCE POOL**								
**FORCE POOL**	12-7-42.5	D	DORIS B MATTHEWS	ANTERO RESOURCES CORPORATION	1/8+	194A 552	Antero Resources Corporation to EQT Production Company: 231A/22	**FORCE POOL**								
**FORCE POOL**	12-7-42.5	D	JAMES D AND REBECCA S ELLER	ANTERO RESOURCES CORPORATION	1/8+	194A 801	Antero Resources Corporation to EQT Production Company: 231A/22	**FORCE POOL**								
**FORCE POOL**	12-7-42.5	D	JAMES R BEALS	ANTERO RESOURCES CORPORATION	1/8+	194A 543	Antero Resources Corporation to EQT Production Company: 231A/22	**FORCE POOL**								
**FORCE POOL**	12-7-42.5	D	JIMMY L BRIGGS AND LORNA A BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A 546	Antero Resources Corporation to EQT Production Company: 231A/22	**FORCE POOL**								
**FORCE POOL**	12-7-42.5	D	JOANNE ELIZABETH RHODES AND GREGORY K RHODES	ANTERO RESOURCES CORPORATION	1/8+	195A 273	Antero Resources Corporation to EQT Production Company: 231A/22	**FORCE POOL**								
**FORCE POOL**	12-7-42.5	D	JOHN ARNOLD BRIGGS AND THERESA BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A 795	Antero Resources Corporation to EQT Production Company: 231A/22	**FORCE POOL**								
**FORCE POOL**	12-7-42.5	D	KATHLEEN D RUSSELL	ANTERO RESOURCES CORPORATION	1/8+	194A 555	Antero Resources Corporation to EQT Production Company: 231A/22	**FORCE POOL**								

Lease ID	TMP	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Book/Page	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	
**FORCE POOL**	12-7-42.5	D	KATHY RUSSELL WELLMAN AND KENNETH WELLMAN	ANTERO RESOURCES CORPORATION	1/8+	194A 561	Antero Resources Corporation to EQT Production Company: 231A/22									**FORCE POOL**	
**FORCE POOL**	12-7-42.5	D	LINDA L LYKINS	ANTERO RESOURCES CORPORATION	1/8+	194A 819	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
**FORCE POOL**	12-7-42.5	D	LORI LYNN BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A 76	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
**FORCE POOL**	12-7-42.5	D	MARY MAGDALENE ELLER	ANTERO RESOURCES CORPORATION	1/8+	195A 258	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
**FORCE POOL**	12-7-42.5	D	MERRILYN E SAMPSON AND JOHNEY D SAMPSON	ANTERO RESOURCES CORPORATION	1/8+	194A 829	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
**FORCE POOL**	12-7-42.5	D	NANCY DELLATORRE MCCANN	ANTERO RESOURCES CORPORATION	1/8+	196A 369	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
**FORCE POOL**	12-7-42.5	D	PHYLLIS JEAN CROASMUM	ANTERO RESOURCES CORPORATION	1/8+	194A 549	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
**FORCE POOL**	12-7-42.5	D	RANDALL HOWARD RUSSELL	ANTERO RESOURCES CORPORATION	1/8+	194A 558	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
**FORCE POOL**	12-7-42.5	D	RAYMOND ALLEN BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A 798	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
**FORCE POOL**	12-7-42.5	D	STAR BANAY BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A 79	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
**FORCE POOL**	12-7-42.5	D	THOMAS DELLATORRE AND SANDRA DELLATORRE	ANTERO RESOURCES CORPORATION	1/8+	196A 360	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
10*23804	12-7-42.2	E	SUSAN GAIL KISNER AND STEVE A KISNER	TH EXPLORATION LLC	1/8+	209A 252	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24319	12-7-42.2	E	SAMUEL E HALL JR AND LISA L HALL	TH EXPLORATION LLC	1/8+	215A 900	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24486	12-7-42.2	E	PEGGY HUGGINS AND MICHAEL HUGGINS	TH EXPLORATION LLC	1/8+	218A 926	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24487	12-7-42.2	E	TAMMY J WEAKLEY AND DALE K WEAKLEY	TH EXPLORATION LLC	1/8+	218A 923	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24738	12-7-42.2	E	DEBRA D THROCKMORTON AND JOHN G THROCKMORTON	TH EXPLORATION LLC	1/8+	220A 17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*25313	12-7-42.2	E	TIMOTHY L BRIGGS AND ROBIN GALE BRIGGS	TH EXPLORATION LLC	1/8+	222A 148	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*28247	12-7-42.2	E	PENÉLOPE A BARDET AND PATRICK J BARDET	TH EXPLORATION LLC	1/8+	235A 565	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*29204	12-7-42.2	E	REGAN JOHNSON	TH EXPLORATION LLC	1/8+	245A 368	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*39686	12-7-42.2	E	BETTY JANE OLIVE	TH EXPLORATION LLC	1/8+	272A 151	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
**FORCE POOL**	12-7-42.2	E	BEVERLY J MATTHEWS	ANTERO RESOURCES CORPORATION	1/8+	197A 595	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
**FORCE POOL**	12-7-42.2	E	BRC APPALACHIAN MINERALS I, LLC	BRC WORKING INTEREST COMPANY LLC	1/8+	102A 505	BRC Working Interest Company LLC to Chesapeake Appalachia LLC: 103A/470	Chesapeake Appalachia LLC to Statoil Onshore Properties Inc: 120A/109	Chesapeake Appalachia LLC to SWN Production Company LLC: 157A/540	Statoil Onshore Properties Inc to SWN Exchange Titleholder LLC: 158A/801	Merger - SWN Exchange Titleholder LLC merged with and into SWN Production Company LLC: CB 13/296	SWN Production Company LLC to Antero Exchange Properties: 177A/533	Statoil Onshore Properties Inc to Antero Exchange Properties LLC: 177A/738	Merger - Antero Exchange Properties LLC merged with and into Antero Resources Corporation: CB 13/311	Antero Resources Corporation to EQT Production Company: 231A/22	**FORCE POOL**	

Lease ID	TMP	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Book/Page		Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
**FORCE POOL**	12-7-42.2	E	CARLA BRIGGS GRABITS	ANTERO RESOURCES CORPORATION	1/8+	194A	807	Antero Resources Corporation to EQT Production Company: 231A/22							**FORCE POOL**
**FORCE POOL**	12-7-42.2	E	CAROLYN L GRAHAM AND JAMES B GRAHAM	ANTERO RESOURCES CORPORATION	1/8+	194A	810	Antero Resources Corporation to EQT Production Company: 231A/22							**FORCE POOL**
**FORCE POOL**	12-7-42.2	E	CONNIE YONYON	ANTERO RESOURCES CORPORATION	1/8+	195A	276	Antero Resources Corporation to EQT Production Company: 231A/22							**FORCE POOL**
**FORCE POOL**	12-7-42.2	E	DORIS B MATTHEWS	ANTERO RESOURCES CORPORATION	1/8+	194A	552	Antero Resources Corporation to EQT Production Company: 231A/22							**FORCE POOL**
**FORCE POOL**	12-7-42.2	E	JAMES D AND REBECCA S ELLER	ANTERO RESOURCES CORPORATION	1/8+	194A	801	Antero Resources Corporation to EQT Production Company: 231A/22							**FORCE POOL**
**FORCE POOL**	12-7-42.2	E	JAMES R BEALS	ANTERO RESOURCES CORPORATION	1/8+	194A	543	Antero Resources Corporation to EQT Production Company: 231A/22							**FORCE POOL**
**FORCE POOL**	12-7-42.2	E	JIMMY L BRIGGS AND LORNA A BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A	546	Antero Resources Corporation to EQT Production Company: 231A/22							**FORCE POOL**
**FORCE POOL**	12-7-42.2	E	JOANNE ELIZABETH RHODES AND GREGORY K RHODES	ANTERO RESOURCES CORPORATION	1/8+	195A	273	Antero Resources Corporation to EQT Production Company: 231A/22							**FORCE POOL**
**FORCE POOL**	12-7-42.2	E	JOHN ARNOLD BRIGGS AND THERESA BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A	795	Antero Resources Corporation to EQT Production Company: 231A/22							**FORCE POOL**
**FORCE POOL**	12-7-42.2	E	KATHLEEN D RUSSELL	ANTERO RESOURCES CORPORATION	1/8+	194A	555	Antero Resources Corporation to EQT Production Company: 231A/22							**FORCE POOL**
**FORCE POOL**	12-7-42.2	E	KATHY RUSSELL, WELLMAN AND KENNETH WELLMAN	ANTERO RESOURCES CORPORATION	1/8+	194A	561	Antero Resources Corporation to EQT Production Company: 231A/22							**FORCE POOL**
**FORCE POOL**	12-7-42.2	E	LINDA L LYKINS	ANTERO RESOURCES CORPORATION	1/8+	194A	819	Antero Resources Corporation to EQT Production Company: 231A/22							**FORCE POOL**
**FORCE POOL**	12-7-42.2	E	LORI LYNN BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A	76	Antero Resources Corporation to EQT Production Company: 231A/22							**FORCE POOL**
**FORCE POOL**	12-7-42.2	E	MARY MAGDALENE ELLER	ANTERO RESOURCES CORPORATION	1/8+	195A	258	Antero Resources Corporation to EQT Production Company: 231A/22							**FORCE POOL**
**FORCE POOL**	12-7-42.2	E	MERRILYN E SAMPSON AND JOHNNY D SAMPSON	ANTERO RESOURCES CORPORATION	1/8+	194A	829	Antero Resources Corporation to EQT Production Company: 231A/22							**FORCE POOL**
**FORCE POOL**	12-7-42.2	E	NANCY DELLATORRE MCCANN	ANTERO RESOURCES CORPORATION	1/8+	195A	369	Antero Resources Corporation to EQT Production Company: 231A/22							**FORCE POOL**



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**FORCE POOL**	12-7-42.2	E	PHYLLIS JEAN CROASMUM	ANTERO RESOURCES CORPORATION	1/8+	194A 549	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**	
**FORCE POOL**	12-7-42.2	E	RANDALL HOWARD RUSSELL	ANTERO RESOURCES CORPORATION	1/8+	194A 558	Antero Resources Corporation to EQT Production Company: 231A/22											**FORCE POOL**
**FORCE POOL**	12-7-42.2	E	RAYMOND ALLEN BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A 798	Antero Resources Corporation to EQT Production Company: 231A/22											**FORCE POOL**
**FORCE POOL**	12-7-42.2	E	STAR BANAY BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A 79	Antero Resources Corporation to EQT Production Company: 231A/22											**FORCE POOL**
**FORCE POOL**	12-7-42.2	E	THOMAS DELLATORRE AND SANDRA DELLATORRE	ANTERO RESOURCES CORPORATION	1/8+	196A 360	Antero Resources Corporation to EQT Production Company: 231A/22											**FORCE POOL**
10*23804	12-7-42	H	SUSAN GAIL KISNER AND STEVE A KISNER	TH EXPLORATION LLC	1/8+	209A 252	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*24319	12-7-42	H	SAMUEL E HALL JR AND LISA L HALL	TH EXPLORATION LLC	1/8+	215A 900	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*24486	12-7-42	H	PEGGY HUGGINS AND MICHAEL HUGGINS	TH EXPLORATION LLC	1/8+	218A 926	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*24487	12-7-42	H	TAMMY J WEAKLEY AND DALE K WEAKLEY	TH EXPLORATION LLC	1/8+	218A 923	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*24738	12-7-42	H	DEBRA D THROCKMORTON AND JOHN G THROCKMORTON	TH EXPLORATION LLC	1/8+	220A 17	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*25313	12-7-42	H	TIMOTHY L BRIGGS AND ROBIN GALE BRIGGS	TH EXPLORATION LLC	1/8+	222A 148	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*28247	12-7-42	H	PENELOPE A BARDET AND PATRICK J BARDET	TH EXPLORATION LLC	1/8+	235A 565	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*29204	12-7-42	H	REGAN JOHNSON	TH EXPLORATION LLC	1/8+	245A 368	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*39686	12-7-42	H	BETTY JANE OLIVE	TH EXPLORATION LLC	1/8+	272A 151	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
**FORCE POOL**	12-7-42	H	BEVERLY J MATTHEWS	ANTERO RESOURCES CORPORATION	1/8+	197A 595	Antero Resources Corporation to EQT Production Company: 231A/22											**FORCE POOL**
**FORCE POOL**	12-7-42	H	BRC APPALACHIAN MINERALS I, LLC	BRC WORKING INTEREST COMPANY LLC	1/8+	102A 505	BRC Working Interest Company LLC to Chesapeake Appalachia LLC: 103A/470	Chesapeake Appalachia LLC to Statoil Onshore Properties Inc: 120A/109	Chesapeake Appalachia LLC to SWN Production Company LLC: 157A/540	Statoil Onshore Properties Inc to SWN Exchange Titleholder LLC: 158A/801	Merger - SWN Exchange Titleholder LLC merged with and into SWN Production Company LLC: CB 13/296	SWN Production Company LLC to Antero Exchange Properties: 177A/533	Statoil Onshore Properties Inc to Antero Exchange Properties LLC: 177A/738	Merger - Antero Exchange Properties LLC merged with and into Antero Resources Corporation: CB 13/311	Antero Resources Corporation to EQT Production Company: 231A/22			**FORCE POOL**
**FORCE POOL**	12-7-42	H	CARLA BRIGGS GRABITS	ANTERO RESOURCES CORPORATION	1/8+	194A 807	Antero Resources Corporation to EQT Production Company: 231A/22											**FORCE POOL**
**FORCE POOL**	12-7-42	H	CAROLYN L GRAHAM AND JAMES B GRAHAM	ANTERO RESOURCES CORPORATION	1/8+	194A 810	Antero Resources Corporation to EQT Production Company: 231A/22											**FORCE POOL**
**FORCE POOL**	12-7-42	H	CONNIE YONYON	ANTERO RESOURCES CORPORATION	1/8+	195A 276	Antero Resources Corporation to EQT Production Company: 231A/22											**FORCE POOL**
**FORCE POOL**	12-7-42	H	DORIS B MATTHEWS	ANTERO RESOURCES CORPORATION	1/8+	194A 552	Antero Resources Corporation to EQT Production Company: 231A/22											**FORCE POOL**
**FORCE POOL**	12-7-42	H	JAMES D AND REBECCA S ELLER	ANTERO RESOURCES CORPORATION	1/8+	194A 801	Antero Resources Corporation to EQT Production Company: 231A/22											**FORCE POOL**
**FORCE POOL**	12-7-42	H	JAMES R BEALS	ANTERO RESOURCES CORPORATION	1/8+	194A 543	Antero Resources Corporation to EQT Production Company: 231A/22											**FORCE POOL**

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**FORCE POOL**	12-7-42	H	JIMMY L BRIGGS AND LORNA A BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A	546	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42	H	JOANNE ELIZABETH RHODES AND GREGORY K RHODES	ANTERO RESOURCES CORPORATION	1/8+	195A	273	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42	H	JOHN ARNOLD BRIGGS AND THERESA BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A	795	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42	H	KATHLEEN D RUSSELL	ANTERO RESOURCES CORPORATION	1/8+	194A	555	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42	H	KATHY RUSSELL WELLMAN AND KENNETH WELLMAN	ANTERO RESOURCES CORPORATION	1/8+	194A	561	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42	H	LINDA L LYKINS	ANTERO RESOURCES CORPORATION	1/8+	194A	819	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42	H	LORI LYNN BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A	76	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42	H	MARY MAGDALENE ELLER	ANTERO RESOURCES CORPORATION	1/8+	195A	258	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42	H	MERRILYN E SAMPSON AND JOHNNY D SAMPSON	ANTERO RESOURCES CORPORATION	1/8+	194A	829	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42	H	NANCY DELLATORRE MCCANN	ANTERO RESOURCES CORPORATION	1/8+	196A	369	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42	H	PHYLLIS JEAN CROASMUM	ANTERO RESOURCES CORPORATION	1/8+	194A	549	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42	H	RANDALL HOWARD RUSSELL	ANTERO RESOURCES CORPORATION	1/8+	194A	558	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42	H	RAYMOND ALLEN BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A	798	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42	H	STAR BANAY BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A	79	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42	H	THOMAS DELLATORRE AND SANDRA DELLATORRE	ANTERO RESOURCES CORPORATION	1/8+	196A	360	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
10*22042	12-7-27	I	EDWARD H ESTEP AND JOAN E ESTEP	TH EXPLORATION LLC	1/8+	210A	205	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*22696	12-7-26	K	MARY M STERLING AND WAYNE S STERLING	TH EXPLORATION LLC	1/8+	208A	179	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*22697	12-7-26	K	LINDA LEE NUZUM	TH EXPLORATION LLC	1/8+	209A	175	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23728	12-7-26	K	VENABLE ROYALTY LTD AND VENRO LTD	TH EXPLORATION LLC	1/8+	214A	692	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
**FORCE POOL**	12-7-26	K	BETTY WATSON HALL	EQT PRODUCTION COMPANY	1/8+	234A	362									**FORCE POOL**

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**FORCE POOL**	12-7-26	K	JOHN RICHARD NUZUM	UNLEASED	NA	NA	NA										
10*39154	12-7-15	S	ROST ENERGY COMPANY INC	TH EXPLORATION LLC	1/8+	269A 641	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*22363	12-7-14	X	LINDA M YOHO	TH EXPLORATION LLC	1/8+	204A 115	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*22365	12-7-14	X	GARY LEVERNE YOHO	TH EXPLORATION LLC	1/8+	204A 122	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*22369	12-7-14	X	SHARON E POTTS	TH EXPLORATION LLC	1/8+	208A 433	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*22691	12-7-14	X	BETTY JEAN SMITH	TH EXPLORATION LLC	1/8+	209A 291	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23019	12-7-14	X	JODI LYNN PAULEY	TH EXPLORATION LLC	1/8+	209A 223	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23456	12-7-14	X	RICHARD L YOHO AND DIANA LYNN YOHO	TH EXPLORATION LLC	1/8+	209A 254	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23745	12-7-14	X	JENNIFER ANN YOHO	TH EXPLORATION LLC	1/8+	213A 699	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24666	12-7-14	X	CHERYL A INGHAM	TH EXPLORATION LLC	1/8+	219A 393	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24667	12-7-14	X	CARL W WHITE	TH EXPLORATION LLC	1/8+	219A 391	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*25019	12-7-14	X	ELAINE F BROWNING	TH EXPLORATION LLC	1/8+	221A 214	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*25023	12-7-14	X	CHARLES MICHAEL SMITH AND CHERIE L SMITH	TH EXPLORATION LLC	1/8+	221A 206	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*25273	12-7-14	X	JAMES R WHITE AND FRANKIE L WHITE	TH EXPLORATION LLC	1/8+	221A 874	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*26900	12-7-14	X	NINA K ALTHOFF AND RONALD D ALTHOFF	TH EXPLORATION LLC	1/8+	225A 778	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*29375	12-7-14	X	STARIA K RICHMOND	TH EXPLORATION LLC	1/8+	250A 456	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*30216	12-7-14	X	STONE HILL MINERALS HOLDINGS LLC	TH EXPLORATION LLC	1/8+	254A 335	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*39276	12-7-14	X	THE PYETT TRUST VICK M FERRIS TRUSTEE	TH EXPLORATION LLC	1/8+	261A 880	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*39972	12-7-14	X	WAYNE ROHR	TH EXPLORATION LLC	1/8+	278A 816	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*39973	12-7-14	X	MATTHEW ROHR	TH EXPLORATION LLC	1/8+	278A 814	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
**FORCE POOL**	12-7-14	X	CHRISTINA JO DAVIES FKN CHRISTINA JO YOHO	ANTERO RESOURCES CORPORATION	1/8+	174A 564	Antero Resources Corporation to EQT Production Company: 231A/22										
**FORCE POOL**	12-7-14	X	JMA LEE YOHO	ANTERO RESOURCES CORPORATION	1/8+	169A 666	Antero Resources Corporation to EQT Production Company: 231A/22										
**FORCE POOL**	12-7-14	X	JANE ELLEN MARCUM	STONE ENERGY CORPORATION	1/8+	166A 871	Stone Energy Corp to EQT Production Company: 183A/305										
**FORCE POOL**	12-7-14	X	LAWRENCE ELDON YOHO	ANTERO RESOURCES CORPORATION	1/8+	173A 357	Antero Resources Corporation to EQT Production Company: 231A/22										
**FORCE POOL**	12-7-14	X	NOEL S YOHO	ANTERO RESOURCES CORPORATION	1/8+	173A 207	Antero Resources Corporation to EQT Production Company: 231A/22										
**FORCE POOL**	12-7-14	X	THOMAS S YOHO	ANTERO RESOURCES CORPORATION	1/8+	172A 898	Antero Resources Corporation to EQT Production Company: 231A/22										
**FORCE POOL**	12-7-14	X	CHERYL ANN COCHRAN	UNLEASED	NA	NA	NA										
**FORCE POOL**	12-7-3	Z	JOHN J MENSORE, TULANE B MENSORE, ESTA MARIE MCCALL AND JOHN J MENSORE, TRUSTEE UNDER JOHN J MENSORE REV TR DTD 7/12/2001	STONE ENERGY CORPORATION	1/8+	151A 540	Stone Energy Corp to EQT Production Company: 183A/305										
10*40056	12-7-3	Z	MATTHEW ROHR & WAYNE RABER	TH EXPLORATION LLC	1/8+	278A 810	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
**FORCE POOL**	12-7-3.2	DD	JOHN J MENSORE, TULANE B MENSORE, ESTA MARIE MCCALL AND JOHN J MENSORE, TRUSTEE UNDER JOHN J MENSORE REV TR DTD 7/12/2001	STONE ENERGY CORPORATION	1/8+	151A 540	Stone Energy Corp to EQT Production Company: 183A/305										
10*40056	12-7-3.2	DD	MATTHEW ROHR & WAYNE RABER	TH EXPLORATION LLC	1/8+	278A 810	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*31168	12-2-16	JJ	HERBERT L MILLER AND BRENDA S MILLER	ANTERO RESOURCES CORPORATION	1/8+	173A 673	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24617	12-2-7	LL	BETTY LOU GOUDY	TH EXPLORATION LLC	1/8+	220A 884	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*21141	12-2-2	NN	SHARON S ANDREWS AND GERARD S ANDREWS	TH EXPLORATION LLC	1/8+	200A 443	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*21366	12-2-2	NN	BONNIE BOLDEN	TH EXPLORATION LLC	1/8+	201A 434	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*21672	12-2-2	NN	VICKIE L BOLDEN	TH EXPLORATION LLC	1/8+	201A 436	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*21697	12-2-2	NN	CONNIE SIMS	TH EXPLORATION LLC	1/8+	214A 364	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*21699	12-2-2	NN	PATRICIA M LEOHR	TH EXPLORATION LLC	1/8+	212A 35	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*21700	12-2-2	NN	NANCY SELLERS	TH EXPLORATION LLC	1/8+	213A 408	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*22071	12-2-2	NN	SALLY BROKKEN AND TOM BROKKEN	TH EXPLORATION LLC	1/8+	202A 820	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*22072	12-2-2	NN	HAROLD E SELLERS	TH EXPLORATION LLC	1/8+	213A 682	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*22204	12-2-2	NN	JAMES A MAIBACH & MELISSA F MAIBACH	TH EXPLORATION LLC	1/8+	216A 169	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*22231	12-2-2	NN	MARILYN SLATER	TH EXPLORATION LLC	1/8+	204A 144	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Lease ID	TMP	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Book/Page	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	
10*23038	12-2-2	NN	SHIRLEY JANE MILLIKEN	TH EXPLORATION LLC	1/8+	220A 280	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*23044	12-2-2	NN	DONNA R WOLFE AND DWIGHT WOLFE	TH EXPLORATION LLC	1/8+	204A 160	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*23344	12-2-2	NN	JEFFREY S MAIBACH	TH EXPLORATION LLC	1/8+	214A 678	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*23346	12-2-2	NN	EMILY B MORRIS	TH EXPLORATION LLC	1/8+	214A 682	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*24021	12-2-2	NN	KELLI PAGE MARTI	TH EXPLORATION LLC	1/8+	215A 884	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*24081	12-2-2	NN	DON MATTHEW PAGE	TH EXPLORATION LLC	1/8+	216A 401	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*24318	12-2-2	NN	LORI PAGE ESBORN AND MICHAEL ESBORN	TH EXPLORATION LLC	1/8+	217A 164	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*24356	12-2-2	NN	BEATRICE TORRES	TH EXPLORATION LLC	1/8+	218A 179	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*30216	12-2-2	NN	STONE HILL MINERALS HOLDINGS LLC	TH EXPLORATION LLC	1/8+	254A 335	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
**FORCE POOL**	12-2-2	NN	BETTY J FLANAGAN FKA BETTY J ECKLES	ANTERO RESOURCES CORPORATION	1/8+	176A 429	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
**FORCE POOL**	12-2-2	NN	BRC APPALACHIAN MINERALS I, LLC	BRC WORKING INTEREST COMPANY LLC	1/8+	102A 505	BRC Working Interest Company LLC to Chesapeake Appalachia LLC: 103A/470	Chesapeake Appalachia LLC to Statoil Onshore Properties Inc: 120A/109	Chesapeake Appalachia LLC to SWN Production Company LLC: 157A/540	Statoil Onshore Properties Inc to SWN Exchange Titleholder LLC: 158A/801	Merger - SWN Exchange Titleholder LLC merged with and into SWN Production Company LLC: CB 13/296	SWN Production Company LLC to Antero Exchange Properties: 177A/533	Statoil Onshore Properties Inc to Antero Exchange Properties LLC: 177A/738	Merger - Antero Exchange Properties LLC merged with and into Antero Resources Corporation: CB 13/311	Antero Resources Corporation to EQT Production Company: 231A/22	**FORCE POOL**	
**FORCE POOL**	12-2-2	NN	CHARLES R MYERS	ANTERO RESOURCES CORPORATION	1/8+	176A 441	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
**FORCE POOL**	12-2-2	NN	CLAUDIA R SCHEEHLE	ANTERO RESOURCES CORPORATION	1/8+	176A 457	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
**FORCE POOL**	12-2-2	NN	DWG OIL & GAS ACQUISITIONS LLC	STONE ENERGY CORPORATION	1/8+	137A 597	Stone Energy Corp to EQT Production Company: 183A/305										**FORCE POOL**
**FORCE POOL**	12-2-2	NN	HERBERT D MINOR	ANTERO RESOURCES CORPORATION	1/8+	170A 420	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
**FORCE POOL**	12-2-2	NN	PATRICIA E ECKLES	ANTERO RESOURCES CORPORATION	1/8+	176A 425	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
**FORCE POOL**	12-2-2	NN	RICHARD S WHITE II	ANTERO RESOURCES CORPORATION	1/8+	176A 474	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
**FORCE POOL**	12-2-2	NN	RUTH ANN SHINGLETON	ANTERO RESOURCES CORPORATION	1/8+	176A 465	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
**FORCE POOL**	12-2-2	NN	SHARON E YDHO	ANTERO RESOURCES CORPORATION	1/8+	176A 476	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
**FORCE POOL**	12-2-2	NN	SHIRLEY DORSEY FKA SHIRLEY M WOOD	ANTERO RESOURCES CORPORATION	1/8+	176A 421	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
**FORCE POOL**	12-2-2	NN	SHIRLEY K COUSIN FKA SHIRLEY K WHITE	ANTERO RESOURCES CORPORATION	1/8+	176A 472	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
**FORCE POOL**	12-2-2	NN	THOMAS L ICEMAN	UNLEASED	NA	NA NA										**FORCE POOL**	
**FORCE POOL**	12-2-2	NN	SUE M SCHAAD	UNLEASED	NA	NA NA										**FORCE POOL**	
**FORCE POOL**	12-2-2	NN	VIRGINIA HAHN	UNLEASED	NA	NA NA										**FORCE POOL**	

**VOID**

**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
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\*See attached pages

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

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

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

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

**RECEIVED**  
Office of Oil and Gas

JAN 26 2023

WV Department of  
Environmental Protection

Well Operator: Tug Hill Operating, LLC

By: Amy L. Morris *Amy L. Morris*

Its: Permitting Specialist - Appalachia Region



Lease ID	TMP	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Book/Page	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
10*21917	12-7-44	A	JOANNE ELIZABETH RHODES	TH EXPLORATION LLC	1/8+	200A 447	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*21919	12-7-44	A	JAMES D ELLER	TH EXPLORATION LLC	1/8+	200A 433	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*22070	12-7-44	A	YONSELL JAY ELLER AND JENNIFER LYNN	TH EXPLORATION LLC	1/8+	201A 423	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23288	12-7-44	A	LORI LYNN BRIGGS	TH EXPLORATION LLC	1/8+	213A 178	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23289	12-7-44	A	PHYLLIS JEAN HAUGHT CROASMUN	TH EXPLORATION LLC	1/8+	212A 12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23290	12-7-44	A	JIMMY LEE BRIGGS AND LORNA A BRIGGS	TH EXPLORATION LLC	1/8+	212A 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23291	12-7-44	A	STAR BANAY BRIGGS	TH EXPLORATION LLC	1/8+	212A 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23292	12-7-44	A	NANCY DELLATORRE MCCANN	TH EXPLORATION LLC	1/8+	212A 398	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23744	12-7-44	A	THOMAS DELLATORRE AND SANDRA DELLATORRE	TH EXPLORATION LLC	1/8+	213A 692	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23804	12-7-44	A	SUSAN GAIL KISNER AND STEVE A KISNER	TH EXPLORATION LLC	1/8+	209A 252	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24319	12-7-44	A	SAMUEL E HALL JR AND LISA L HALL	TH EXPLORATION LLC	1/8+	215A 900	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*25313	12-7-44	A	TIMOTHY L BRIGGS AND ROBIN GALE BRIGGS	TH EXPLORATION LLC	1/8+	222A 148	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*28247	12-7-44	A	PENELOPE A BARDET AND PATRICK J BARDET	TH EXPLORATION LLC	1/8+	235A 565	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*28440	12-7-44	A	JOHN ARNOLD BRIGGS AND THERESA BRIGGS	TH EXPLORATION LLC	1/8+	237A 364	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*39686	12-7-44	A	BETTY JANE OLIVE	TH EXPLORATION LLC	1/8+	272A 151	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*39750	12-7-44	A	RAYMOND ALLEN BRIGGS AND DEBORAH BRIGGS	TH EXPLORATION LLC	1/8+	270A 469	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*39964	12-7-44	A	DOUGLAS ANTHONY MATTHEWS SNT TODD WALLEVAND TRU	TH EXPLORATION LLC	1/8+	277A 688	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*40011	12-7-44	A	BRETT J MARTINEZ AND ERIN B MARTINEZ	TH EXPLORATION LLC	1/8+	277A 692	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*40085	12-7-44	A	DAVID W GOLDMAN AND SANDRA L MATTHEWS	TH EXPLORATION LLC	1/8+	278A 835	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*40128	12-7-44	A	NEMANJA SVIRCEV AND PAIGE N ZALESKI	TH EXPLORATION LLC	1/8+	278A 839	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
**FORCE POOL**	12-7-44	A	BRC APPALACHIAN MINERALS I LLC	BRC WORKING INTEREST COMPANY LLC	1/8+	102A 505	BRC Working Interest Company LLC to Chesapeake Appalachia LLC: 103A/470	Chesapeake Appalachia LLC to Statoil Onshore Properties Inc: 120A/109	Chesapeake Appalachia LLC to SWN Production Company LLC: 157A/540	Statoil Onshore Properties Inc to SWN Exchange Titleholder LLC: 158A/801	Merger - SWN Exchange Titleholder LLC merged with and into SWN Production Company LLC: CB 13/296	SWN Production Company LLC to Antero Exchange Properties: 177A/533	Statoil Onshore Properties Inc to Antero Exchange Properties LLC: 177A/738	Merger - Antero Exchange Properties LLC merged with and into Antero Resources Corporation: CB 13/311	Antero Resources Corporation to EQT Production Company: 231A/22	**FORCE POOL**
**FORCE POOL**	12-7-44	A	DORIS B MATTHEWS	UNLEASED	NA	NA					**FORCE POOL**					
10*23804	12-7-42.4	C	SUSAN GAIL KISNER AND STEVE A KISNER	TH EXPLORATION LLC	1/8+	209A 252	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24319	12-7-42.4	C	SAMUEL E HALL JR AND LISA L HALL	TH EXPLORATION LLC	1/8+	215A 900	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24486	12-7-42.4	C	PEGGY HUGGINS AND MICHAEL HUGGINS	TH EXPLORATION LLC	1/8+	218A 926	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24487	12-7-42.4	C	TAMMY J WEAKLEY AND DALE K WEAKLEY	TH EXPLORATION LLC	1/8+	218A 923	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24738	12-7-42.4	C	DEBRA D THROCKMORTON AND JOHN G THROCKMORTON	TH EXPLORATION LLC	1/8+	220A 17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*25313	12-7-42.4	C	TIMOTHY L BRIGGS AND ROBIN GALE BRIGGS	TH EXPLORATION LLC	1/8+	222A 148	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*28247	12-7-42.4	C	PENELOPE A BARDET AND PATRICK J BARDET	TH EXPLORATION LLC	1/8+	235A 565	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*29204	12-7-42.4	C	REGAN JOHNSON	TH EXPLORATION LLC	1/8+	245A 368	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*39686	12-7-42.4	C	BETTY JANE OLIVE	TH EXPLORATION LLC	1/8+	272A 151	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
**FORCE POOL**	12-7-42.4	C	BEVERLY J MATTHEWS	ANTERO RESOURCES CORPORATION	1/8+	197A 595	Antero Resources Corporation to EQT Production Company: 231A/22					**FORCE POOL**				
**FORCE POOL**	12-7-42.4	C	BRC APPALACHIAN MINERALS I, LLC	BRC WORKING INTEREST COMPANY LLC	1/8+	102A 505	BRC Working Interest Company LLC to Chesapeake Appalachia LLC: 103A/470	Chesapeake Appalachia LLC to Statoil Onshore Properties Inc: 120A/109	Chesapeake Appalachia LLC to SWN Production Company LLC: 157A/540	Statoil Onshore Properties Inc to SWN Exchange Titleholder LLC: 158A/801	Merger - SWN Exchange Titleholder LLC merged with and into SWN Production Company LLC: CB 13/296	SWN Production Company LLC to Antero Exchange Properties: 177A/533	Statoil Onshore Properties Inc to Antero Exchange Properties LLC: 177A/738	Merger - Antero Exchange Properties LLC merged with and into Antero Resources Corporation: CB 13/311	Antero Resources Corporation to EQT Production Company: 231A/22	**FORCE POOL**
**FORCE POOL**	12-7-42.4	C	CARLA BRIGGS GRABITS	ANTERO RESOURCES CORPORATION	1/8+	194A 807	Antero Resources Corporation to EQT Production Company: 231A/22					**FORCE POOL**				
**FORCE POOL**	12-7-42.4	C	CAROLYN L GRAHAM AND JAMES B GRAHAM	ANTERO RESOURCES CORPORATION	1/8+	194A 810	Antero Resources Corporation to EQT Production Company: 231A/22					**FORCE POOL**				
**FORCE POOL**	12-7-42.4	C	CONNIE YONYON	ANTERO RESOURCES CORPORATION	1/8+	195A 276	Antero Resources Corporation to EQT Production Company: 231A/22					**FORCE POOL**				



Lease ID	TMP	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Book/Page	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
**FORCE POOL**	12-7-42.4	C	DORIS B MATTHEWS	ANTERO RESOURCES CORPORATION	1/8+	194A 552	Antero Resources Corporation to EQT Production Company: 231A/22						**FORCE POOL**	
**FORCE POOL**	12-7-42.4	C	JAMES D AND REBECCA S ELLER	ANTERO RESOURCES CORPORATION	1/8+	194A 801	Antero Resources Corporation to EQT Production Company: 231A/22						**FORCE POOL**	
**FORCE POOL**	12-7-42.4	C	JAMES R BEALS	ANTERO RESOURCES CORPORATION	1/8+	194A 543	Antero Resources Corporation to EQT Production Company: 231A/22						**FORCE POOL**	
**FORCE POOL**	12-7-42.4	C	JIMMY L BRIGGS AND LORNA A BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A 546	Antero Resources Corporation to EQT Production Company: 231A/22						**FORCE POOL**	
**FORCE POOL**	12-7-42.4	C	JOANNE ELIZABETH RHODES AND GREGORY K RHODES	ANTERO RESOURCES CORPORATION	1/8+	195A 273	Antero Resources Corporation to EQT Production Company: 231A/22						**FORCE POOL**	
**FORCE POOL**	12-7-42.4	C	JOHN ARNOLD BRIGGS AND THERESA BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A 795	Antero Resources Corporation to EQT Production Company: 231A/22						**FORCE POOL**	
**FORCE POOL**	12-7-42.4	C	KATHLEEN D RUSSELL	ANTERO RESOURCES CORPORATION	1/8+	194A 555	Antero Resources Corporation to EQT Production Company: 231A/22						**FORCE POOL**	
**FORCE POOL**	12-7-42.4	C	KATHY RUSSELL WELLMAN AND KENNETH WELLMAN	ANTERO RESOURCES CORPORATION	1/8+	194A 561	Antero Resources Corporation to EQT Production Company: 231A/22						**FORCE POOL**	
**FORCE POOL**	12-7-42.4	C	LINDA L LYKINS	ANTERO RESOURCES CORPORATION	1/8+	194A 819	Antero Resources Corporation to EQT Production Company: 231A/22						**FORCE POOL**	
**FORCE POOL**	12-7-42.4	C	LORI LYNN BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A 76	Antero Resources Corporation to EQT Production Company: 231A/22						**FORCE POOL**	
**FORCE POOL**	12-7-42.4	C	MARY MAGDALENE ELLER	ANTERO RESOURCES CORPORATION	1/8+	195A 258	Antero Resources Corporation to EQT Production Company: 231A/22						**FORCE POOL**	
**FORCE POOL**	12-7-42.4	C	MERRILYN E SAMPSON AND JOHNEY D SAMPSON	ANTERO RESOURCES CORPORATION	1/8+	194A 829	Antero Resources Corporation to EQT Production Company: 231A/22						**FORCE POOL**	
**FORCE POOL**	12-7-42.4	C	NANCY DELLATORRE MCCANN	ANTERO RESOURCES CORPORATION	1/8+	196A 369	Antero Resources Corporation to EQT Production Company: 231A/22						**FORCE POOL**	
**FORCE POOL**	12-7-42.4	C	PHYLLIS JEAN CROASMUM	ANTERO RESOURCES CORPORATION	1/8+	194A 549	Antero Resources Corporation to EQT Production Company: 231A/22						**FORCE POOL**	
**FORCE POOL**	12-7-42.4	C	RANDALL HOWARD RUSSELL	ANTERO RESOURCES CORPORATION	1/8+	194A 558	Antero Resources Corporation to EQT Production Company: 231A/22						**FORCE POOL**	
**FORCE POOL**	12-7-42.4	C	RAYMOND ALLEN BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A 798	Antero Resources Corporation to EQT Production Company: 231A/22						**FORCE POOL**	

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**FORCE POOL**	12-7-42.4	C	STAR BANAY BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A 79	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
**FORCE POOL**	12-7-42.4	C	THOMAS DELLATORRE AND SANDRA DELLATORRE	ANTERO RESOURCES CORPORATION	1/8+	196A 360	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
10*23804	12-7-42.5	D	SUSAN GAIL KISNER AND STEVE A KISNER	TH EXPLORATION LLC	1/8+	209A 252	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*24319	12-7-42.5	D	SAMUEL E HALL JR AND LISA L HALL	TH EXPLORATION LLC	1/8+	215A 900	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*24486	12-7-42.5	D	PEGGY HUGGINS AND MICHAEL HUGGINS	TH EXPLORATION LLC	1/8+	218A 926	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*24487	12-7-42.5	D	TAMMY J WEAKLEY AND DALE K WEAKLEY	TH EXPLORATION LLC	1/8+	218A 923	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*24738	12-7-42.5	D	DEBRA D THROCKMORTON AND JOHN G THROCKMORTON	TH EXPLORATION LLC	1/8+	220A 17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*25313	12-7-42.5	D	TIMOTHY L BRIGGS AND ROBIN GALE BRIGGS	TH EXPLORATION LLC	1/8+	222A 148	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*28247	12-7-42.5	D	PENELOPE A BARDET AND PATRICK J BARDET	TH EXPLORATION LLC	1/8+	235A 565	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*29204	12-7-42.5	D	REGAN JOHNSON	TH EXPLORATION LLC	1/8+	245A 368	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*39686	12-7-42.5	D	BETTY JANE OLIVE	TH EXPLORATION LLC	1/8+	272A 151	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
**FORCE POOL**	12-7-42.5	D	BEVERLY J MATTHEWS	ANTERO RESOURCES CORPORATION	1/8+	197A 595	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
**FORCE POOL**	12-7-42.5	D	BRC APPALACHIAN MINERALS I, LLC	BRC WORKING INTEREST COMPANY LLC	1/8+	102A 505	BRC Working Interest Company LLC to Chesapeake Appalachia LLC: 103A/470	Chesapeake Appalachia LLC to Statoil Onshore Properties Inc: 120A/109	Chesapeake Appalachia LLC to SWN Production Company LLC: 157A/540	Statoil Onshore Properties Inc to SWN Exchange Titleholder LLC: 158A/801	Merger - SWN Exchange Titleholder LLC merged with and into SWN Production Company LLC: CB 13/296	SWN Production Company LLC to Antero Exchange Properties: 177A/533	Statoil Onshore Properties Inc to Antero Exchange Properties LLC: 177A/738	Merger - Antero Exchange Properties LLC merged with and into Antero Resources Corporation: CB 13/311	Antero Resources Corporation to EQT Production Company: 231A/22	**FORCE POOL**	
**FORCE POOL**	12-7-42.5	D	CARLA BRIGGS GRABITS	ANTERO RESOURCES CORPORATION	1/8+	194A 807	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
**FORCE POOL**	12-7-42.5	D	CAROLYN L GRAHAM AND JAMES B GRAHAM	ANTERO RESOURCES CORPORATION	1/8+	194A 810	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
**FORCE POOL**	12-7-42.5	D	CONNIE YONYON	ANTERO RESOURCES CORPORATION	1/8+	195A 276	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
**FORCE POOL**	12-7-42.5	D	DORIS B MATTHEWS	ANTERO RESOURCES CORPORATION	1/8+	194A 552	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
**FORCE POOL**	12-7-42.5	D	JAMES D AND REBECCA S ELLER	ANTERO RESOURCES CORPORATION	1/8+	194A 801	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
**FORCE POOL**	12-7-42.5	D	JAMES R BEALS	ANTERO RESOURCES CORPORATION	1/8+	194A 543	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
**FORCE POOL**	12-7-42.5	D	JIMMY L BRIGGS AND LORNA A BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A 546	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
**FORCE POOL**	12-7-42.5	D	IOANNE ELIZABETH RHODES AND GREGORY K RHODES	ANTERO RESOURCES CORPORATION	1/8+	195A 273	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**

Lease ID	TMP	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Book/Page		Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	
**FORCE POOL**	12-7-42.5	D	JOHN ARNOLD BRIGGS AND THERESA BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A	795	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**	
**FORCE POOL**	12-7-42.5	D	KATHLEEN D RUSSELL	ANTERO RESOURCES CORPORATION	1/8+	194A	555	Antero Resources Corporation to EQT Production Company: 231A/22									**FORCE POOL**
**FORCE POOL**	12-7-42.5	D	KATHY RUSSELL WELLMAN AND KENNETH WELLMAN	ANTERO RESOURCES CORPORATION	1/8+	194A	561	Antero Resources Corporation to EQT Production Company: 231A/22									**FORCE POOL**
**FORCE POOL**	12-7-42.5	D	LINDA L LYKINS	ANTERO RESOURCES CORPORATION	1/8+	194A	819	Antero Resources Corporation to EQT Production Company: 231A/22									**FORCE POOL**
**FORCE POOL**	12-7-42.5	D	LORI LYNN BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A	76	Antero Resources Corporation to EQT Production Company: 231A/22									**FORCE POOL**
**FORCE POOL**	12-7-42.5	D	MARY MAGDALENE ELLER	ANTERO RESOURCES CORPORATION	1/8+	195A	258	Antero Resources Corporation to EQT Production Company: 231A/22									**FORCE POOL**
**FORCE POOL**	12-7-42.5	D	MERRILYN E SAMPSON AND JOHNNEY D SAMPSON	ANTERO RESOURCES CORPORATION	1/8+	194A	829	Antero Resources Corporation to EQT Production Company: 231A/22									**FORCE POOL**
**FORCE POOL**	12-7-42.5	D	NANCY DELLATORRE MCCANN	ANTERO RESOURCES CORPORATION	1/8+	196A	369	Antero Resources Corporation to EQT Production Company: 231A/22									**FORCE POOL**
**FORCE POOL**	12-7-42.5	D	PHYLLIS JEAN CROASMUM	ANTERO RESOURCES CORPORATION	1/8+	194A	549	Antero Resources Corporation to EQT Production Company: 231A/22									**FORCE POOL**
**FORCE POOL**	12-7-42.5	D	RANDALL HOWARD RUSSELL	ANTERO RESOURCES CORPORATION	1/8+	194A	558	Antero Resources Corporation to EQT Production Company: 231A/22									**FORCE POOL**
**FORCE POOL**	12-7-42.5	D	RAYMOND ALLEN BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A	798	Antero Resources Corporation to EQT Production Company: 231A/22									**FORCE POOL**
**FORCE POOL**	12-7-42.5	D	STAR BANAY BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A	79	Antero Resources Corporation to EQT Production Company: 231A/22									**FORCE POOL**
**FORCE POOL**	12-7-42.5	D	THOMAS DELLATORRE AND SANDRA DELLATORRE	ANTERO RESOURCES CORPORATION	1/8+	196A	360	Antero Resources Corporation to EQT Production Company: 231A/22									**FORCE POOL**
10*23804	12-7-42.2	E	SUSAN GAIL KISNER AND STEVE A KISNER	TH EXPLORATION LLC	1/8+	209A	252	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24319	12-7-42.2	E	SAMUEL E HALL JR AND LISA L HALL	TH EXPLORATION LLC	1/8+	215A	900	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24486	12-7-42.2	E	PEGGY HUGGINS AND MICHAEL HUGGINS	TH EXPLORATION LLC	1/8+	218A	926	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24487	12-7-42.2	E	TAMMY J WEAKLEY AND DALE K WEAKLEY	TH EXPLORATION LLC	1/8+	218A	923	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24738	12-7-42.2	E	DEBRA D THROCKMORTON AND JOHN G THROCKMORTON	TH EXPLORATION LLC	1/8+	220A	17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*25313	12-7-42.2	E	TIMOTHY L BRIGGS AND ROBIN GALE BRIGGS	TH EXPLORATION LLC	1/8+	222A	148	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*28247	12-7-42.2	E	PENELOPE A BARDET AND PATRICK J BARDET	TH EXPLORATION LLC	1/8+	235A	565	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*29204	12-7-42.2	E	REGAN JOHNSON	TH EXPLORATION LLC	1/8+	245A	368	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*39686	12-7-42.2	E	BETTY JANE OLIVE	TH EXPLORATION LLC	1/8+	272A	151	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A



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**FORCE POOL**	12-7-42.2	E	BEVERLY J MATTHEWS	ANTERO RESOURCES CORPORATION	1/8+	197A 595	Antero Resources Corporation to EQT Production Company: 231A/22	**FORCE POOL**								
**FORCE POOL**	12-7-42.2	E	BRC APPALACHIAN MINERALS I, LLC	BRC WORKING INTEREST COMPANY LLC	1/8+	102A 505	BRC Working Interest Company LLC to Chesapeake Appalachia LLC: 103A/470	Chesapeake Appalachia LLC to Statoil Onshore Properties Inc: 120A/109	Chesapeake Appalachia LLC to SWN Production Company LLC: 157A/540	Statoil Onshore Properties Inc to SWN Exchange Titleholder LLC: 158A/801	Merger - SWN Exchange Titleholder LLC merged with and into SWN Production Company LLC: CB 13/296	SWN Production Company LLC to Antero Exchange Properties: 177A/533	Statoil Onshore Properties Inc to Antero Exchange Properties LLC: 177A/738	Merger - Antero Exchange Properties LLC merged with and into Antero Resources Corporation: CB 13/311	Antero Resources Corporation to EQT Production Company: 231A/22	**FORCE POOL**
**FORCE POOL**	12-7-42.2	E	CARLA BRIGGS GRABITS	ANTERO RESOURCES CORPORATION	1/8+	194A 807	Antero Resources Corporation to EQT Production Company: 231A/22	**FORCE POOL**								
**FORCE POOL**	12-7-42.2	E	CAROLYN L GRAHAM AND JAMES B GRAHAM	ANTERO RESOURCES CORPORATION	1/8+	194A 810	Antero Resources Corporation to EQT Production Company: 231A/22	**FORCE POOL**								
**FORCE POOL**	12-7-42.2	E	CONNIE YONYON	ANTERO RESOURCES CORPORATION	1/8+	195A 276	Antero Resources Corporation to EQT Production Company: 231A/22	**FORCE POOL**								
**FORCE POOL**	12-7-42.2	E	DORIS B MATTHEWS	ANTERO RESOURCES CORPORATION	1/8+	194A 552	Antero Resources Corporation to EQT Production Company: 231A/22	**FORCE POOL**								
**FORCE POOL**	12-7-42.2	E	JAMES D AND REBECCA S ELLER	ANTERO RESOURCES CORPORATION	1/8+	194A 801	Antero Resources Corporation to EQT Production Company: 231A/22	**FORCE POOL**								
**FORCE POOL**	12-7-42.2	E	JAMES R BEALS	ANTERO RESOURCES CORPORATION	1/8+	194A 543	Antero Resources Corporation to EQT Production Company: 231A/22	**FORCE POOL**								
**FORCE POOL**	12-7-42.2	E	JIMMY L BRIGGS AND LORNA A BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A 546	Antero Resources Corporation to EQT Production Company: 231A/22	**FORCE POOL**								
**FORCE POOL**	12-7-42.2	E	JOANNE ELIZABETH RHODES AND GREGORY K RHODES	ANTERO RESOURCES CORPORATION	1/8+	195A 273	Antero Resources Corporation to EQT Production Company: 231A/22	**FORCE POOL**								
**FORCE POOL**	12-7-42.2	E	JOHN ARNOLD BRIGGS AND THERESA BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A 795	Antero Resources Corporation to EQT Production Company: 231A/22	**FORCE POOL**								
**FORCE POOL**	12-7-42.2	E	KATHLEEN D RUSSELL	ANTERO RESOURCES CORPORATION	1/8+	194A 555	Antero Resources Corporation to EQT Production Company: 231A/22	**FORCE POOL**								
**FORCE POOL**	12-7-42.2	E	KATHY RUSSELL WELLMAN AND KENNETH WELLMAN	ANTERO RESOURCES CORPORATION	1/8+	194A 561	Antero Resources Corporation to EQT Production Company: 231A/22	**FORCE POOL**								
**FORCE POOL**	12-7-42.2	E	LUNDA L LYKINS	ANTERO RESOURCES CORPORATION	1/8+	194A 819	Antero Resources Corporation to EQT Production Company: 231A/22	**FORCE POOL**								
**FORCE POOL**	12-7-42.2	E	LORI LYNN BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A 76	Antero Resources Corporation to EQT Production Company: 231A/22	**FORCE POOL**								

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**FORCE POOL**	12-7-42.2	E	MARY MAGDALENE ELLER	ANTERO RESOURCES CORPORATION	1/8+	195A 258	Antero Resources Corporation to EQT Production Company: 231A/22									**FORCE POOL**	
**FORCE POOL**	12-7-42.2	E	MERRILYN E SAMPSON AND JOHNEY D SAMPSON	ANTERO RESOURCES CORPORATION	1/8+	194A 829	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
**FORCE POOL**	12-7-42.2	E	NANCY DELLATORRE MCCANN	ANTERO RESOURCES CORPORATION	1/8+	196A 369	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
**FORCE POOL**	12-7-42.2	E	PHYLIS JEAN CROASMUM	ANTERO RESOURCES CORPORATION	1/8+	194A 549	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
**FORCE POOL**	12-7-42.2	E	BANDALL HOWARD RUSSELL	ANTERO RESOURCES CORPORATION	1/8+	194A 558	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
**FORCE POOL**	12-7-42.2	E	RAYMOND ALLEN BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A 798	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
**FORCE POOL**	12-7-42.2	E	STAR BANAY BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A 79	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
**FORCE POOL**	12-7-42.2	E	THOMAS DELLATORRE AND SANDRA DELLATORRE	ANTERO RESOURCES CORPORATION	1/8+	196A 360	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
10*23804	12-7-42	H	SUSAN GAIL KISNER AND STEVE A KISNER	TH EXPLORATION LLC	1/8+	209A 252	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24319	12-7-42	H	SAMUEL E HALL JR AND LISA L HALL	TH EXPLORATION LLC	1/8+	215A 900	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24486	12-7-42	H	PEGGY HUGGINS AND MICHAEL HUGGINS	TH EXPLORATION LLC	1/8+	218A 926	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24487	12-7-42	H	TAMMY J WEAKLEY AND DALE K WEAKLEY	TH EXPLORATION LLC	1/8+	218A 923	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24738	12-7-42	H	DEBRA D THROCKMORTON AND JOHN G THROCKMORTON	TH EXPLORATION LLC	1/8+	220A 17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*25313	12-7-42	H	TIMOTHY L BRIGGS AND ROBIN GALE BRIGGS	TH EXPLORATION LLC	1/8+	222A 148	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*28247	12-7-42	H	PENELOPE A BARDET AND PATRICK J BARDET	TH EXPLORATION LLC	1/8+	235A 565	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*29204	12-7-42	H	REGAN JOHNSON	TH EXPLORATION LLC	1/8+	245A 368	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*39686	12-7-42	H	BETTY JANE OLIVE	TH EXPLORATION LLC	1/8+	272A 151	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
**FORCE POOL**	12-7-42	H	BEVERLY J MATTHEWS	ANTERO RESOURCES CORPORATION	1/8+	197A 595	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
**FORCE POOL**	12-7-42	H	BRC APPALACHIAN MINERALS I, LLC	BRC WORKING INTEREST COMPANY LLC	1/8+	102A 505	BRC Working Interest Company LLC to Chesapeake Appalachia LLC: 103A/470	Chesapeake Appalachia LLC to Statoil Onshore Properties Inc: 120A/109	Chesapeake Appalachia LLC to SWN Production Company LLC: 157A/540	Statoil Onshore Properties Inc to SWN Exchange Titleholder LLC: 158A/801	Merger - SWN Exchange Titleholder LLC merged with and into SWN Production Company LLC: CB 13/296	SWN Production Company LLC to Antero Exchange Properties: 177A/533	Statoil Onshore Properties Inc to Antero Exchange Properties LLC: 177A/738	Merger - Antero Exchange Properties LLC merged with and into Antero Resources Corporation: CB 13/311	Antero Resources Corporation to EQT Production Company: 231A/22		**FORCE POOL**
**FORCE POOL**	12-7-42	H	CARLA BRIGGS GRABITS	ANTERO RESOURCES CORPORATION	1/8+	194A 807	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
**FORCE POOL**	12-7-42	H	CAROLYN L GRAHAM AND JAMES B GRAHAM	ANTERO RESOURCES CORPORATION	1/8+	194A 810	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**

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**FORCE POOL**	12-7-42	H	CONNIE YONYON	ANTERO RESOURCES CORPORATION	1/8+	195A 276	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42	H	DORIS B MATTHEWS	ANTERO RESOURCES CORPORATION	1/8+	194A 552	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42	H	JAMES D AND REBECCA S ELLER	ANTERO RESOURCES CORPORATION	1/8+	194A 801	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42	H	JAMES R BEALS	ANTERO RESOURCES CORPORATION	1/8+	194A 543	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42	H	JIMMY L BRIGGS AND LORNA A BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A 546	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42	H	JOANNE ELIZABETH RHODES AND GREGORY K RHODES	ANTERO RESOURCES CORPORATION	1/8+	195A 273	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42	H	JOHN ARNOLD BRIGGS AND THERESA BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A 795	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42	H	KATHLEEN D RUSSELL	ANTERO RESOURCES CORPORATION	1/8+	194A 555	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42	H	KATHY RUSSELL WELLMAN AND KENNETH WELLMAN	ANTERO RESOURCES CORPORATION	1/8+	194A 561	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42	H	LINDA L LYKINS	ANTERO RESOURCES CORPORATION	1/8+	194A 819	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42	H	LORI LYNN BRIGGS	ANTERO RESOURCES CORPORATION	1/8+	194A 76	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42	H	MARY MAGDALENE ELLER	ANTERO RESOURCES CORPORATION	1/8+	195A 258	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42	H	MERRILYN E SAMPSON AND JOHNNY D SAMPSON	ANTERO RESOURCES CORPORATION	1/8+	194A 829	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42	H	NANCY DELLATORRE MCCANN	ANTERO RESOURCES CORPORATION	1/8+	196A 369	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42	H	PHYLLIS JEAN CROASMUM	ANTERO RESOURCES CORPORATION	1/8+	194A 549	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**
**FORCE POOL**	12-7-42	H	RANDALL HOWARD RUSSELL	ANTERO RESOURCES CORPORATION	1/8+	194A 558	Antero Resources Corporation to EQT Production Company: 231A/22								**FORCE POOL**







Lease ID	TMP	Tkg	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Book/Pg#	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	
**FORCE POOL**	12-2-2	OO	RICHARD S WHITE II	ANTERO RESOURCES CORPORATION	1/8+	176A	474	Antero Resources Corporation to EQT Production Company: 231A/22										
**FORCE POOL**	12-2-2	OO	RUTH ANN SHINGLETON	ANTERO RESOURCES CORPORATION	1/8+	176A	465	Antero Resources Corporation to EQT Production Company: 231A/22										
**FORCE POOL**	12-2-2	OO	SHARON E YOHIO	ANTERO RESOURCES CORPORATION	1/8+	176A	476	Antero Resources Corporation to EQT Production Company: 231A/22										
**FORCE POOL**	12-2-2	OO	SHIRLEY DORSEY EKA SHIRLEY M WOOD	ANTERO RESOURCES CORPORATION	1/8+	176A	421	Antero Resources Corporation to EQT Production Company: 231A/22										
**FORCE POOL**	12-2-2	OO	SHIRLEY K COUSIN FVA SHIRLEY K WHITE	ANTERO RESOURCES CORPORATION	1/8+	176A	472	Antero Resources Corporation to EQT Production Company: 231A/22										
**FORCE POOL**	12-2-2	OO	THOMAS J ICEMAN	UNLEASED	NA	NA	NA											
**FORCE POOL**	12-2-2	OO	SUE M SCHMID	UNLEASED	NA	NA	NA											
**FORCE POOL**	12-2-2	OO	VIRGINIA HAHN	UNLEASED	NA	NA	NA											

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