



west virginia department of environmental protection

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

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

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-9HU
47-103-03511-00-00

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-9HU
Farm Name: EDWARD H & JOAN E ESTEP
U.S. WELL NUMBER: 47-103-03511-00-00
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 57th 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 #47-103-03511

COMPANY: Tug Hill Operating, LLC

FARM: Edward H. Estep and Joan E. Estep Jeffersons N-9HU

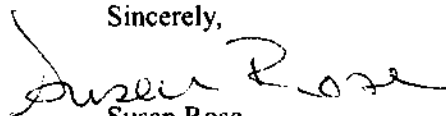
COUNTY: Wetzel DISTRICT: Proctor QUAD: New Martinsville

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-8HU 47-103-03510; Jeffersons N-7HU 47-103-03509; 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-9HU 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: 1,237.62' 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 11,417' - 11,536', thickness of 119' and anticipated pressure of approx. 7,500 psi.

8) Proposed Total Vertical Depth: 11,686'

9) Formation at Total Vertical Depth: Trenton

10) Proposed Total Measured Depth: 27,917'

11) Proposed Horizontal Leg Length: 15,848.86'

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: _____

61639
1/5/23 \$2,500

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Page 1 of 3
05/26/2023
1/10/23

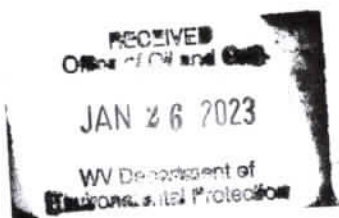
18) CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30"	NEW	BW	BW	120'	120'	259ft^3(CTS)
Fresh Water/Coal	20"	NEW	J55	106.5#	1,050'	1,050'	1,689ft^3(CTS)
Intermediate 1	13 3/8"	NEW	J55	54.5#	2,775'	2,775'	1,957ft^3(CTS)
Intermediate 2	9 5/8"	NEW	HPP110	47#	10,460'	10,460'	3,564ft^3(CTS)
Production	5 1/2"	NEW	P110	23#	27,917'	27,917'	6,573ft^3(CTS)
Tubing	2 7/8"	NEW	P110	6.5#		10,989'	
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			



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 (10,490'). 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 39,650,000 lb. proppant and 720,000 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

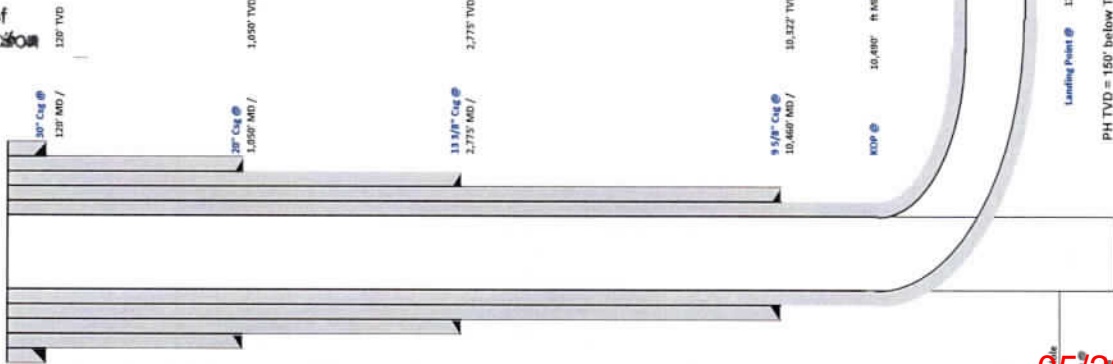
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*Note: Attach additional sheets as needed.

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WELL NAME: Jeffersons N-9HU COUNTY: Wetzel
 STATE: WV DISTRICT: Proctor
 DE Elev: 1,217' GL Elev: 1,217'
 TD: 27,917'
 TH Latitude: 39.66678888
 TH Longitude: -80.77008463
 BH Latitude: 39.725487
 BH Longitude: -80.795858



Formation	Depth TVD
Deepseat Fresh Water	935'
Sewickley Coal	887'
Pittsburgh Coal	829'
Big Lime	1,977'
Berea	2,619'
Tully	6,531'
Marcellus	6,612'
Onondaga	6,642'
Siltst	7,302'
Lodpoort	8,422'
Utica	11,197'
Point Pleasant	11,417'
Landing Depth	11,467'
Trenton	11,536'
Plant Hole TD	11,686'

CASING SUMMARY							
Type	Hole Size (in)	Csg Size (in)	Depth (MD)	Depth (TVD)	Weight (lb/ft)	Grade	Top of Cement
Conductor	36	30	120'	120'	BW	BW	Surface
Surface	26	20	1,050'	1,050'	108.5	J55	Surface
Intermediate 1	17 1/2	13 3/8	2,775'	2,775'	54.5	J55	Surface
Intermediate 2	12 1/4	9 5/8	10,468'	10,322'	47	HPP110	Surface
Production	8 1/2	5 1/2	27,917'	11,191'	23	HCP110	Surface

CEMENT SUMMARY				DRILLING DETAILS	
Type	Sacks	Class	Density (ppg)	Fluid Type	Centralizer Notes
Conductor	318	A	15.6	Air	None
Surface	1,821	A	15.6	Air	3 Centralizers at equal distance
Intermediate 1	2,123	A	15.6	Air	1 Centralizer every other joint
Intermediate 2	3,111	A	14.5	Air	1 Centralizer every other joint
Production	6,774	A	18.5	Air / SDRM	1 every other joint in lateral; 1 per joint in curve; 1 every other joint to surface

Landing Point @ 12,071' MD / 11,467' TVD
 PH TVD = 150' below Trenton Top

05/26/2023
 [Signature]

Lateral TD @ 27,917' R MD
 11,191' R TVD



Tug Hill Operating, LLC Casing and Cement Program

Jeffersons N-9HU

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"	10,460'	CTS
Production	5 1/2"	HCP110	8 1/2"	27,917'	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

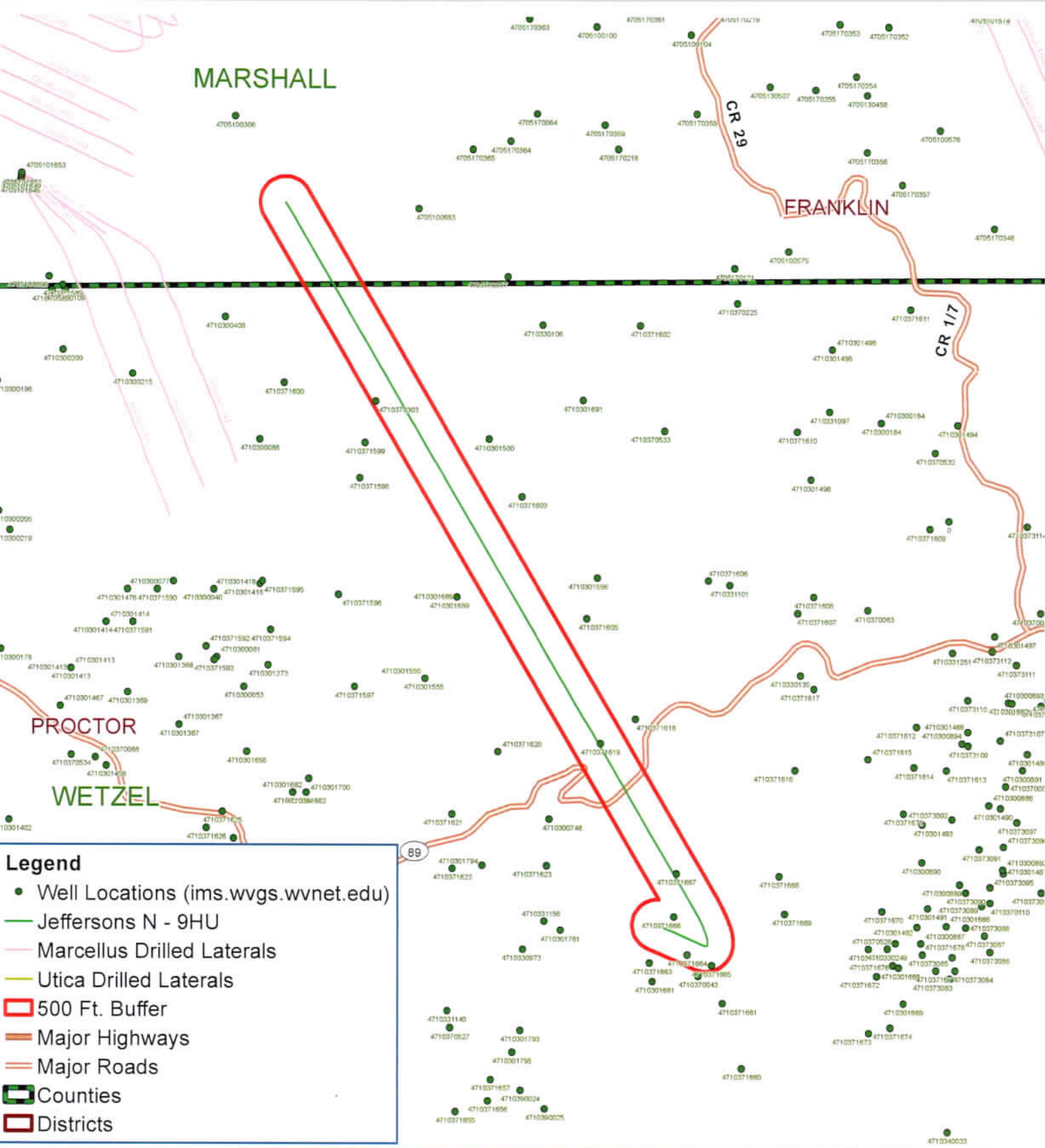
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SM



Legend

- Well Locations (ims.wvgs.wvnet.edu)
- Jeffersons N - 9HU
- Marcellus Drilled Laterals
- Utica Drilled Laterals
- 500 Ft. Buffer
- Major Highways
- Major Roads
- ▭ Counties
- ▭ Districts



Jeffersons N - 9HU Proctor District Wetzel County, WV



Map Prepared by:
DPS
 LAND SERVICES
 05/26/2023

Map Created: October 19, 2021

Notes:
 All locations are approximate and are for visualization purposes only.

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, 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
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.
4710371665	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.
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.
4710371667	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
4710371619	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.
4710370303	Manufacturers Light & Heat Co.	unknown	unknown	unknown	Unknown but unlikely. The well likely represents an old shallow well that is too shallow to be affected by fracturing in the planned Point Pleasant well.	State records are incomplete.

WV Geological & Economic Survey

Well: County = 103 Permit = 71664

Report Time: Wednesday, October 20, 2021 11:31:05 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 = 71665

Report Time: Wednesday, October 20, 2021 11:31:23 AM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4710371665	Wetzel	71665	Proctor	New Martinsville	New Martinsville	39.684609	-80.766332	520037.3	4392778.9

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_FM	TFM_EST
4710371665	---		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
4710371665	---	---						unclassified	unclassified	not available	unknown	unknown						

WV Geological & Economic Survey:

Well: County = 103 Permit = 71666

Report Time: Wednesday, October 20, 2021 11:31:37 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	519311.3	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 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
4710371666	---	---						unclassified	unclassified	not available	unknown	unknown						

WV Geological & Economic Survey:

Well: County = 103 Permit = 71667

Report Time: Wednesday, October 20, 2021 11:31:50 AM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4710371667	Wetzel	71667	Proctor	New Martinsville	New Martinsville	39.689543	-80.768771	519326.8	4393326

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.
4710371667	---		unknown	Prpty Map William Palmer	1289					----- 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
4710371667	---	---						unclassified	unclassified	not available	unknown	unknown						

WV Geological & Economic Survey:

Well: County = 103 Permit = 71619

Report Time: Wednesday, October 20, 2021 11:32:07 AM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4710371619	Wetzel	71619	Proctor	New Martinsville	New Martinsville	39.69651	-80.774026	519374.2	4394098.1

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST.
4710371619	---		unknown	Prpty Map Henry Garner		441				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
4710371619	---	---						unclassified	unclassified	not available	unknown	unknown						

WV Geological & Economic Survey:

Well: County = 103 Permit = 70303

Report Time: Wednesday, October 20, 2021 11:32:24 AM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4710370303	Wetzel	70303	Proctor	New Martinsville	New Martinsville	39.714841	-80.789619	518032.6	4396129.2

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_I
4710370303	6/14/1905		Original Loc	Completed Jacob Yoho Heirs		1	1252			Manufacturers Light & Heat Co.			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_A
4710370303	6/14/1905	---	1225	Barometer	Gordon			unclassified	unclassified	not available	unknown	Shot	2862		2862			



TUG HILL
OPERATING

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

Well Name: Jeffersons N-9HU

Pad Name: Jeffersons

County: Wetzel

UTM (meters), NAD83, Zone 17

Northing: 4,393,020.05

Easting: 519,707.68

**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)

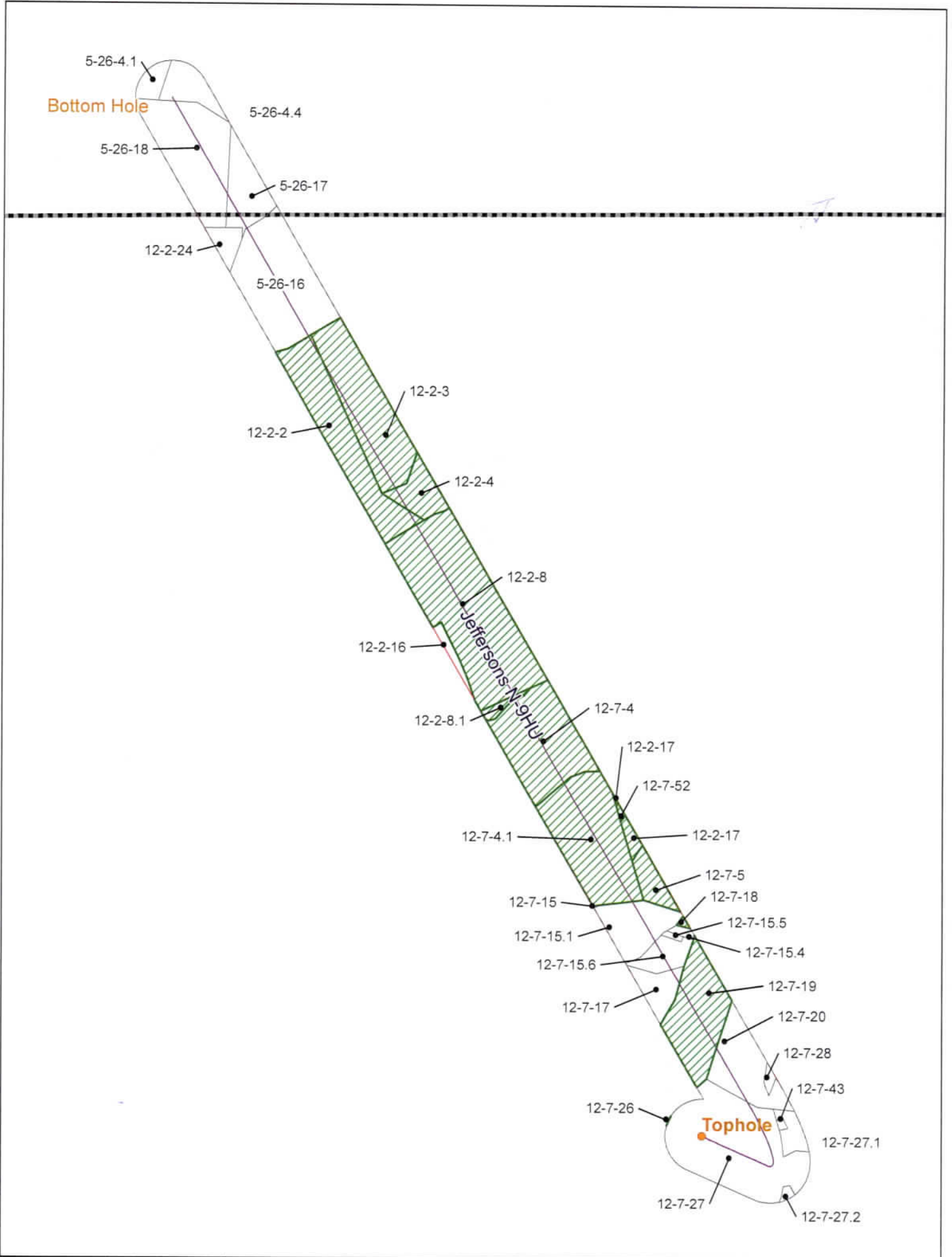
24-HOUR EMERGENCY PHONE NUMBER

(800) 921-9745

05/26/2023

[Handwritten signature]
1/10/23




Jeffersons N-9HU



Coordinate System: NAD 1983 UTM Zone 17N
 Projection: Transverse Mercator
 Datum: North American 1983
 Prime Meridian: 78° 00' 00" W
 False Easting: 600000
 False Northing: 0
 Central Meridian: -78
 Scale Factor: 0.9998
 Latitude of Origin: 39
 Units: Feet US

CONFIDENTIAL



-  Utica Well
-  500' Buffer
-  Force Pool

Jeffersons N-9HU
 Operators within 500 Feet of Well Borehole



Operators within 500' of Well Boreholes
Jefferson N - 9HU

COUNTY	DISTRICT	TMP	OWNER OR MINERAL LESSEE	ADDRESS
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 LICEMAN	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	12-2-24	TH EXPLORATION II LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-2-24	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-2-3	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-2-4	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	BILLY MASON SULLIVAN AKA BILLY J SULLIVAN	Missing
Wetzel	Proctor	12-2-8	DENZIL FLOYD MASON	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	12-2-8.1	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-2-8.1	EQT PRODUCTION COMPANY	625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222
Wetzel	Proctor	12-2-8.1	BILLY MASON SULLIVAN AKA BILLY J SULLIVAN	Missing
Wetzel	Proctor	12-2-8.1	CHRISTIAN CHURCH FACILITIES FOR THE AGING, BETHANY HOUSE	199 Rollins Avenue Rockville, MD 20852
Wetzel	Proctor	12-2-8.1	ELLEN HOGE TRUST	Ellen Hoge Trust FBO Jane B. Martin c/o JPMorgan Chase Bank, N.A. P.O. Box 2605 Mail Code TX1-1315 Fort Worth, TX 76113

05/26/2023

Operators within 500' of Well Boreholes
Jefferson N - 9HU

Wetzel	Proctor	12-2-8.1	JANE B MARTIN	1126 Melinda Ct. NE Olympia, WA 98516
Wetzel	Proctor	12-2-8.1	JEFFREY J MCGLONE	2072 Farmview Drive Newtown, PA 18940
Wetzel	Proctor	12-2-8.1	JOHN R WARSINSKY	1436 S. Marshall Street Benwood, WV 26031
Wetzel	Proctor	12-2-8.1	KELLY M MCCLONE	2072 Farmview Drive Newtown, PA 18940
Wetzel	Proctor	12-2-8.1	KENNETH JAMES PARSONS	Missing
Wetzel	Proctor	12-2-8.1	LAWRENCE R. SLADE	1848 S. Woodside Lane Virginia Beach, VA 23454
Wetzel	Proctor	12-2-8.1	LYELL L. SLADE	17 Orchard Road Concord, MA 01742
Wetzel	Proctor	12-2-8.1	PAM ISOM	71 Venable Road Annville, KY 40447
Wetzel	Proctor	12-2-8.1	REBECCA J HARRELL AKA REBECCA J ANTIBUS	533 N. Kalamazoo Avenue Marshall, MI 49068
Wetzel	Proctor	12-2-8.1	ROSEMARY CHAMBERS	725 Elmhurst Drive Unit 104 Highlands Ranch, CO 80129
Wetzel	Proctor	12-2-8.1	SHANNON HEMINGWAY	Missing
Wetzel	Proctor	12-2-8.1	STEVEN M MCGLONE	16015 S. 1st Street Phoenix, AZ 85048
Wetzel	Proctor	12-2-8.1	TERESA RANDOLPH	105 Loblolly Court Yorktown, VA 23692
Wetzel	Proctor	12-2-8.1	UNKNOWN HEIRS OF PHYLLIS JENKINS	Missing
Wetzel	Proctor	12-2-8.1	WILLIAM SLADE	2836 Shearwater Cove Virginia Beach, VA 23454
Wetzel	Proctor	12-2-16	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-2-17	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-2-17	EQT PRODUCTION COMPANY	625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222
Wetzel	Proctor	12-2-17	CRYSTAL YOUNG	Missing
Wetzel	Proctor	12-2-17	ROBERT W BOHRER	1000 Gracelawn Drive Brentwood, TN 37027
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 LLC	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
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 LLC	8857 SW 103rd Circle Ocala, FL 34481
Wetzel	Proctor	12-7-5	EQT PRODUCTION COMPANY	625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222

05/26/2023

Operators within 500' of Well Boreholes
Jefferson N - 9HU

Wetzel	Proctor	12-7-5	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
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	12-7-15.4	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-15.5	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-15.6	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	12-7-18	MASON RESOURCES INC	P.O. BOX 2506 Williston, ND 58801
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 66106
Wetzel	Proctor	12-7-20	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
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	12-7-27	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-27.1	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	12-7-28	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-43	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Wetzel	Proctor	12-7-52	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107

05/26/2023

**Operators within 500' of Well Boreholes
Jefferson N - 9HU**

Wetzel	Proctor	12-7-52	EQT PRODUCTION COMPANY	625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222
Wetzel	Proctor	12-7-52	FRITZI L WADE	8920 Canyon Springs Drive Las Vegas, NV 89117
Wetzel	Proctor	12-7-52	CRYSTAL YOUNG	Missing
Marshall	Franklin	5-26-16	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Marshall	Franklin	5-26-17	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Marshall	Franklin	5-26-18	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Marshall	Franklin	5-26-4.1	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
Marshall	Franklin	5-26-4.4	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
<p>"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."</p>				

05/26/2023


DAVID G. DELALLO LAND MANAGER
TUG HILL OPERATING
390 SOUTHPOINTE BLVD.
STE 200
CANONSBURG, PA 15317-8541

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 whose 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, 2026
Signature/Notary Public: 
Name/Notary Public (print): Michah Feather

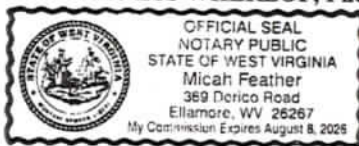
STATE OF WEST VIRGINIA


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 whose 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.

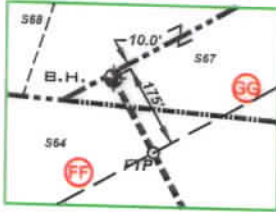


My Commission Expires: August 8, 2026
Signature/Notary Public: 
Name/Notary Public (print): Michah Feather

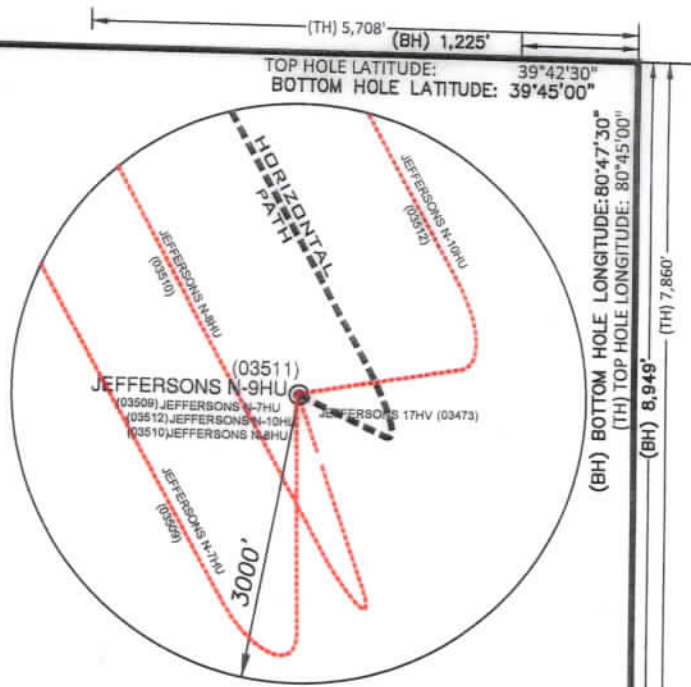
This instrument prepared by:
WV Oil and Gas Conservation Commission
601 57th Street
Charleston, WV 25304

**JEFFERSONS N-9HU
UTICA UNIT - 485.4914± ACRES
TUG HILL OPERATING**

INSET "B"

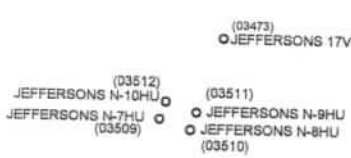


INSET "A"



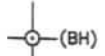
(*) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

DETAIL SKETCH "A" N.T.S.

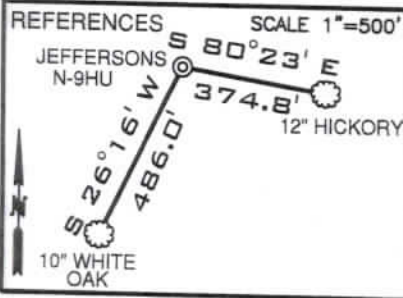


NOTES

1. BORE PATH BASED ON GRID NORTH.
2. NO WATER WELLS WITHIN 250' OF WELL WERE FOUND, NO DWELLINGS WITHIN 625' 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.



SURFACE HOLE UTM. NAD83, ZONE 17 IN METERS N) 4,393,020.05 E) 519,714.89
LANDING POINT 1 UTM. NAD83, ZONE 17 IN METERS N) 4,393,134.11 E) 519,921.11
BOTTOM HOLE UTM. NAD83, ZONE 17 IN METERS N) 4,397,309.60 E) 517,495.08



LINE	BEARING	DISTANCE
L1	N 63°40' E	853.06'
L2	S 32°13' E	1072.60'
L3	S 65°16' E	988.95'

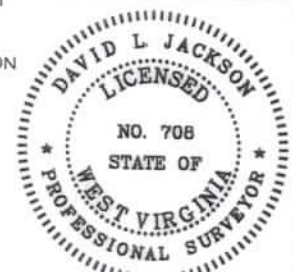
CURVE	CHORD BEARING	CHORD LENGTH	RADIUS	ARC LENGTH
C1	S 81°46' E	47.76'	62.70'	49.00'
C2	N 37°26' E	38.38'	39.97'	40.03'
C3	N 01°08' E	65.18'	183.81'	65.53'
C4	N 13°11' W	129.19'	703.97'	129.37'
C5	N 21°28' W	262.67'	2035.22'	262.85'
C6	N 28°59' W	356.43'	4238.88'	356.54'

FILE NUMBER _____
DRAWING NUMBER: JEFFERSONS_N-9HU_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



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

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS") PRODUCTION X STORAGE ___ DEEP X 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 X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___
PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE (SPECIFY) _____

TARGET FORMATION POINT PLEASANT PLUG & ABANDON ___ CLEAN OUT & REPLUG ___
ESTIMATED DEPTH TVD: 11,686' TMD: 27,917'

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

05/26/2023

COUNTY NAME
PERMIT

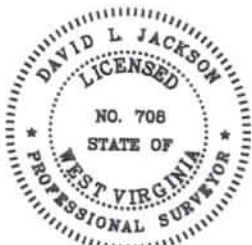
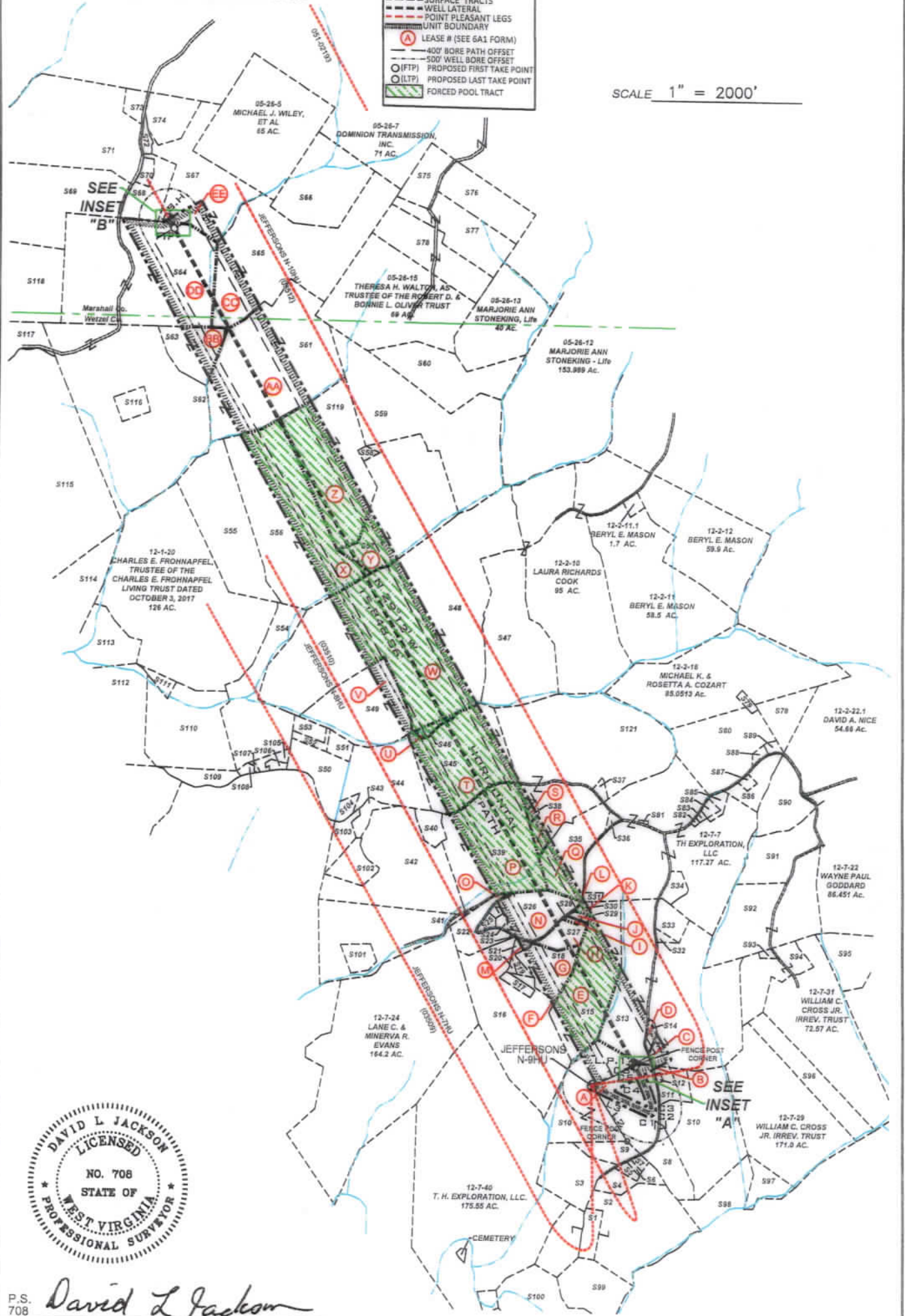
form wwb

**JEFFERSONS N-9HU
UTICA UNIT - 485.4914± ACRES
TUG HILL OPERATING**

LEGEND

- LEASED TRACTS
- - - SURFACE TRACTS
- - - WELL LATERAL
- - - POINT PLEASANT LEGS
- - - UNIT BOUNDARY
- (A) LEASE # (SEE SA1 FORM)
- 400' BORE PATH OFFSET
- 500' WELL BORE OFFSET
- (FTP) PROPOSED FIRST TAKE POINT
- (LTP) PROPOSED LAST TAKE POINT
- ▨ FORCED POOL TRACT

SCALE 1" = 2000'



P.S. 708 *David L Jackson*

05/26/2023



**TUG HILL
OPERATING**

OPERATOR'S
WELL #: JEFFERSONS N-9HU
DISTRICT: Proctor
COUNTY: Wetzel
STATE: WV
API #: 47-103-03511

WELL PLAT
PAGE 2 OF 4
DATE: 02/01/2023

FORM WVC

**JEFFERSONS N-9HU
UTICA UNIT - 485.4914± ACRES
TUG HILL OPERATING**

Parcels within Unit Boundary				
Tags	Number	Tax Map -Parcel	Surface Owner	Acres
A	S10	12-7-27	Edward H. & Joan E. Estep	92.302
B	S11	12-7-27.1	Edward H. & Joan E. Estep	6.718
C	S13	12-7-20	Jeffrey A. & Paula J. Gorby	104.72
D	S14	12-7-28	Palmer Cemetery	0.98
E	S15	12-7-19	Jeffery S. Underwood & Velvet K. Parks	41.4
F	S16	12-7-26	T.H. Exploration, LLC.	59.89
G	S18	12-7-17	Jeffery S. Underwood & Velvet K. Parks	13.43
H	S27	12-7-15.6	Jeffery S. Underwood & Velvet K. Parks	5.923
I	S28	12-7-15.5	Jimmy L. & Sharon Sue Calvin	0.46
J	S29	12-7-15.4	Jimmy L. & Sharon Sue Calvin	0.97
K	S30	12-7-18	Anthony M. & Elizabeth G. Parks	1
L	S31	12-7-7.6	William E. & Glenda E. Kaufman	1.55
M	S21	12-7-16	Grant & Jennifer Throckmorton	1.1
N	S26	12-7-15.1	Billy Sweeney	10.72
O	S22	12-7-15	Rost Energy Company, Inc.	22.63
P	S39	12-7-4.1	Robert Joseph Coleman	55.81
Q	S35	12-7-5	Matthew D. Arrick	20.37
R	S121	12-2-17	Randy F Eller	97.75
S	S38	12-7-32	Brent J. & Sara L. Eller	10.25
T	S45	12-7-4	Rodney G. Eller	46.7
U	S46	12-2-8.1	Friend W. Parsons	0.5
V	S49	12-2-16	Laura Lee Cook	33
W	S48	12-2-8	Laura Richards Cook	185.125
X	S56	12-2-2	Ruby Wood, Et Al	82
Y	S57	12-2-4	Edith Salem & Lisa G. Larson	56.25
Z	S119	12-2-3	Nelson M. & Mary D. Miller	51.72
AA	S61	05-26-16	Heartwood Forestland Fund VII LP	82.5
BB	S63	12-2-24	Maggie Ann Rockwell, Merk W. Booth & George E. Booth, Jr.	13.1
CC	S65	05-26-17	Heartwood Forestland Fund VII LP	82.56
DD	S64	05-26-18	Eric Jay Booth	94
EE	S67	05-26-4.4	Otis F. & Glenda M. Rush	35.436

 * FORCED POOLED TRACTS ARE HIGHLIGHTED



P.S. 708 *David L Jackson*

Number	Tax Map -Parcel	Adjoining Parcel Ownership Table	Acres
51	12-7-44.1	James Foster	5.054
52	12-7-44	Yonself Jay Eller III & Jennifer Lynn Eller	15.06
53	12-7-42.4	Peggy Lou & Albert Cecil - L/E Steven Mark Cecil, Et Al	17.333
54	12-7-42.5	James D. Furbee, II	5.43
55	12-7-42.2	April Fuluharty	1.072
56	12-7-42.3	James D. Furbee, II	0.528
57	12-7-42.1	James D. Furbee, II	1.21
58	12-7-27.2	Douglas I. & Patricia A. Pitts	10.73
59	12-7-42	James D. Furbee, II	6.5
512	12-7-43	Furbee Cemetery	1.11
517	12-7-26.1	Colby Dean Sidenstricker	2.01
519	12-7-17.2	T.H. Exploration, LLC.	1.29
520	12-7-17.1	T.H. Exploration, LLC.	0.521
523	12-7-15.7	T.H. Exploration III, LLC.	0.68
524	12-7-15.2	Billy Sweeney	1.8
525	12-7-15.3	Billy Sweeney	1.26
532	12-7-20.2	Peter R. Tamborello & Annis E. Poniviar	0.9
533	12-7-20.1	Peter R. Tamborello & Annis E. Poniviar	5.18
534	12-7-7.4	Charles Lee & Betty J. Huggins	4
536	12-7-6	Stacy E. Briner	0.25
537	12-7-51	Jean J. Eller	1.25
540	12-7-59	Tanner Kelley	5
541	12-7-14	Matthew Rohr & Wayne Raber	32.74
542	12-7-3	Matthew Rohr & Wayne Raber	55.828
543	12-7-3.3	Robert Joseph Coleman	3.33
544	12-7-3.2	Lisa M. Naegele	28.47
547	12-2-9	Laura Richards Cook	77
550	12-7-2	Jeremy W. & Sharon E. Heddelson	19.8
551	12-2-15.1	Vivian A. Parsons, Et Al	5
552	12-2-15.2	Charles Phillip Parsons	2
553	12-2-15	Charles Phillip Parsons	3
554	12-2-7	John D. Ammah	44.5
555	12-2-1	Roy Yoho	49
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
562	05-26-14	Mark W. Booth, Maggie Ann Rockwell & George E. Booth, Jr.	117
566	05-26-6	Heartwood Forestland Fund VII LP	36.17
568	05-26-4.1	Otis S. Rush, Et Al	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, etuk	1.58
573	05-26-4	James R. & Meloy 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. & Alma 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
S100	12-12-9	Rickey A. Farley	17.175
S101	12-7-14.1	W VA Dept of Highways	3.49
S102	12-7-3.4	Dru W. Bills	8.253
S103	12-7-3.5	Robert Joseph Coleman	5.422
S104	12-7-3.1	Jeremy W. & Sharon E. Heddelson	2.99
S105	12-7-57	John D. & Deborah L. Ammah	2.33
S106	12-7-58	John D. & Deborah L. Ammah	1.03
S107	12-7-56	Stacia K. Richmond	0.3
S108	12-7-1	Tammara & William J. Wetzel	1
S109	12-6-52	John D. & Deborah L. Ammah	6.45
S110	12-1-34	John D. & Deborah L. Ammah	38
S111	12-1-34.1	Herbert Parsons & Virginia Yoho Roy	2
S112	12-1-32	Baxter Farm, LLC	78.74
S113	12-1-31	Steven Jack & Susan Louise Hafer	20
S114	12-1-19	Steven J. & Susan L. Hafer	36.5
S115	12-1-8	Benjamin J. Kocher	168.67
S116	12-1-41	Mark W. Booth, Maggie Ann Rockwell & George E. Booth, Jr.	5
S117	12-1-8.1	Robert F. Rothlisberger	50.33
S118	05-27-24	Robert F. Rothlisberger	60.1
S120		Midcap School	

05/26/2023



OPERATOR'S WELL #: JEFFERSONS N-9HU
 DISTRICT: Proctor
 COUNTY: Wetzel
 STATE: WV
 API #: 47-103-03511

WELL PLAT
PAGE 3 OF 4
DATE: 02/01/2023

form wv6

**JEFFERSONS N-9HU
 UTICA UNIT - 485.4914± ACRES
 TUG HILL OPERATING**

LEASE ID	TMP	TAG	GRANTOR, LESSOR, ETC.	DEED BOOK/PAGE
10*22042	12-7-27	A	EDWARD H ESTEP AND JOAN E ESTEP	210A 205
10*22042	12-7-27.1	B	EDWARD H ESTEP AND JOAN E ESTEP	210A 205
10*28422	12-7-20	C	COVESTRO LLC, ET AL	236A 577
10*28422	12-7-28	D	COVESTRO LLC, ET AL	236A 577
FORCE POOL	12-7-19	E	BETTY WATSON HALL, ET AL	234A 362
FORCE POOL	12-7-26	F	BETTY WATSON HALL, ET AL	234A 362
10*39154	12-7-17	G	ROST ENERGY COMPANY INC	269A 641
10*25310	12-7-15.6	H	JEFFERY S UNDERWOOD AND VELVET K PARKS	222A 145
10*28392	12-7-15.5	I	SHARON COLVIN AND JIMMY LEE COLVIN	202A 387
10*39154	12-7-15.4	J	ROST ENERGY COMPANY INC	269A 641
FORCE POOL	12-7-18	K	TAMELA P WOOD AND JAMES G WOOD	152A 181
10*21510	12-7-7.6	L	BARBARA A SPRAGUE	197A 894
10*39154	12-7-16	M	ROST ENERGY COMPANY INC	269A 641
10*23046	12-7-15.1	N	PHILIP H ESTEP	204A 164
10*39154	12-7-15	O	ROST ENERGY COMPANY INC	269A 641
FORCE POOL	12-7-4.1	P	BARBARA A EDDY, ET AL	173A 497
FORCE POOL	12-7-5	Q	ALLEN STEWART, ET AL	215A 809
FORCE POOL	12-2-17	R	ALLEN STEWART, ET AL	215A 315
FORCE POOL	12-7-52	S	ALLEN STEWART, ET AL	215A 315
FORCE POOL	12-7-4	T	BARBARA A EDDY, ET AL	173A 497
FORCE POOL	12-2-8.1	U	AARON DAVIS, ET AL	143A 517
10*31168	12-2-16	V	HERBERT L MILLER AND BRENDA S MILLER	173A 673
FORCE POOL	12-2-8	W	AARON DAVIS, ET AL	143A 517
FORCE POOL	12-2-2	X	BETTY J FLANAGAN FKA BETTY J ECKLES, ET AL	176A 429
10*31102	12-2-4	Y	JACKSON YOHO	56 240
10*31102	12-2-3	Z	JACKSON YOHO	56 240
10*22286	5-26-16	AA	VENABLE ROYALTY LTD AND VENRO LTD, ET AL	926 133
10*15088	12-2-24	BB	MARK W BOOTH, ET AL	154A 122
10*22286	5-26-17	CC	VENABLE ROYALTY LTD AND VENRO LTD, ET AL	926 133
10*19733	5-26-18	DD	GEORGE E BOOTH SR AND MARGARET E BOOTH, ET AL	944 575
10*17137	5-26-4.4	EE	MARK E SMITH AND VALERIE SMITH LIFE TENANT, ET AL	685 521



P.S. 708 *David L Jackson*

05/26/2023



**TUG HILL
 OPERATING**

OPERATOR'S
 WELL #: JEFFERSONS N-9HU
 DISTRICT: Proctor
 COUNTY: Wetzel
 STATE: WV
 API #: 47-103-03511

WELL PLAT
 PAGE 4 OF 4
 DATE: 02/01/2023

**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
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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.

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.	ROYALT	DEED BOOK/PAGE	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
10*22042	12-7-27	A	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	N/A
10*22042	12-7-27.1	B	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	N/A
10*28422	12-7-20	C	COVESTRO LLC	TH EXPLORATION LLC	1/8+	236A 577	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*29363	12-7-20	C	ALENA R FAYAD AND MICHAEL J FAYAD III	TH EXPLORATION LLC	1/8+	247A 287	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*39518	12-7-20	C	FORREST MILLER	TH EXPLORATION LLC	1/8+	266A 216	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*28422	12-7-28	D	COVESTRO LLC	TH EXPLORATION LLC	1/8+	236A 577	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*29363	12-7-28	D	ALENA R FAYAD AND MICHAEL J FAYAD III	TH EXPLORATION LLC	1/8+	247A 287	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*39518	12-7-28	D	FORREST MILLER	TH EXPLORATION LLC	1/8+	266A 216	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FORCE POOL	12-7-19	E	BETTY WATSON HALL	EQT PRODUCTION COMPANY	1/8+	234A 362										
FORCE POOL	12-7-19	E	CHARLES R STURGILLO	UNLEASED	NA	NA NA										
FORCE POOL	12-7-19	E	HEIRS OF LAWRENCE R PALMER JR	UNLEASED	NA	NA NA										
FORCE POOL	12-7-19	E	JOHN RICHARD NUZUM	UNLEASED	NA	NA NA										
FORCE POOL	12-7-19	E	JOSHUA L STURGILLO	UNLEASED	NA	NA NA										
FORCE POOL	12-7-19	E	ROBIN M GUYET	UNLEASED	NA	NA NA										
10*22696	12-7-19	E	MARY M STERLING AND WAYNE S STERLING	TH EXPLORATION LLC	1/8+	209A 179	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*22697	12-7-19	E	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	N/A
10*29716	12-7-19	E	RAYMOND P HARTLEY AND MARY ANN HARTLEY	TH EXPLORATION LLC	1/8+	252A 117	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*29726	12-7-19	E	GLENN C PALMER AND MARIELLEN PALMER	TH EXPLORATION LLC	1/8+	252A 374	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*29727	12-7-19	E	MARGARET F RICHMOND DEBORAH FEDOR POA	TH EXPLORATION LLC	1/8+	252A 372	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*29761	12-7-19	E	TAMRA DRDA	TH EXPLORATION LLC	1/8+	252A 378	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*29762	12-7-19	E	TERESA NAGEL AND THOMAS NAGEL	TH EXPLORATION LLC	1/8+	252A 376	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*29851	12-7-19	E	MARGARET M PALMER	TH EXPLORATION LLC	1/8+	253A 351	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*29922	12-7-19	E	CAROL ROBERSON AND SHANE ROBERSON	TH EXPLORATION LLC	1/8+	253A 631	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*29923	12-7-19	E	PATRICIA A SCHILLER	TH EXPLORATION LLC	1/8+	255A 272	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*29937	12-7-19	E	WANDA MARIE BAUM	TH EXPLORATION LLC	1/8+	255A 268	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*29941	12-7-19	E	PATRICIA A HARTLEY	TH EXPLORATION LLC	1/8+	255A 274	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*29973	12-7-19	E	ELMER STURGILLO	TH EXPLORATION LLC	1/8+	255A 270	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*30002	12-7-19	E	WILLIAM CHARLES CONVERSE	TH EXPLORATION LLC	1/8+	258A 215	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*39154	12-7-19	E	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
10*39251	12-7-19	E	JAMES QUINN ELIOTT AND RUQAIYAH YEARBY	TH EXPLORATION LLC	1/8+	262A 664	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*39483	12-7-19	E	WAYNE LEON WEST AND KATHERINE A WEST	TH EXPLORATION LLC	1/8+	266A 214	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*39485	12-7-19	E	NILA JEAN BRADEN	TH EXPLORATION LLC	1/8+	267A 67	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*39486	12-7-19	E	SHIRLEY ANNN MARLING	TH EXPLORATION LLC	1/8+	267A 907	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*39488	12-7-19	E	GARY L PALMER	TH EXPLORATION LLC	1/8+	267A 63	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*39508	12-7-19	E	LU ANN JOHNSON AND LARRY A JOHNSON	TH EXPLORATION LLC	1/8+	267A 65	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*39526	12-7-19	E	CINDY A SOUTH	TH EXPLORATION LLC	1/8+	267A 909	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*39527	12-7-19	E	LINDA K CLARKE	TH EXPLORATION LLC	1/8+	267A 905	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*39631	12-7-19	E	JERRY W HARTLEY AND BARBARA HARTLEY	TH EXPLORATION LLC	1/8+	269A 620	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*39762	12-7-19	E	JEANETTE L LONGWORTH AND DANIEL C LONGWORTH SR	TH EXPLORATION LLC	1/8+	271A 483	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*22697	12-7-26	F	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	N/A
10*22696	12-7-26	F	MARY M STERLING AND WAYNE S STERLING	TH EXPLORATION LLC	1/8+	209A 179	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23728	12-7-26	F	VENABLE ROYALTY LTD & V2, LP, A TX LTD PARTNERSHIPS	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	N/A
FORCE POOL	12-7-26	F	BETTY WATSON HALL	EQT PRODUCTION COMPANY	1/8+	234A 362										
FORCE POOL	12-7-26	F	JOHN RICHARD NUZUM	UNLEASED	NA	NA NA										
10*39154	12-7-17	G	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
10*25310	12-7-15.6	H	JEFFERY S UNDERWOOD AND VELVET K PARKS	TH EXPLORATION LLC	1/8+	222A 145	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*28392	12-7-15.5	I	SHARON COLVIN AND JIMMY LEE COLVIN	AMERICAN PETROLEUM PARTNERS LLC	1/8+	202A 387	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*39154	12-7-15.4	J	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
FORCE POOL	12-7-18	K	TAMELA P WOOD AND JAMES G WOOD	MASON RESOURCES INC	1/8+	152A 181										

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Office of Oil and Gas
MAX 18 2023
N/A Department
Environmental Protection

American Petroleum Partners Operating LLC with TH Exploration LLC: 256A/B13

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	12-7-7.6	L	BARBARA A SPRAGUE	STONE ENERGY CORPORATION	1/8+	137A 554	Stone Energy Corp to EQT Production Company: 183A/305										**FORCE POOL**
10*39154	12-7-16	M	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*23046	12-7-15.1	N	PHILIP H ESTEP	TH EXPLORATION LLC	1/8+	204A 164	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23046	12-7-15.2	O	PHILIP H ESTEP	TH EXPLORATION LLC	1/8+	204A 164	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*39154	12-7-15	P	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
FORCE POOL	12-7-4.1	Q	BARBARA A EDDY	ANTERO RESOURCES CORPORATION	1/8+	173A 497	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
PENDING	12-7-4.1	Q	EDDY HERITAGE LLC	ANTERO RESOURCES CORPORATION	1/8+	293A 921	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Antero Resources Corporation to TH
FORCE POOL	12-7-4.1	Q	LARRY D GARNER	EQT PRODUCTION COMPANY	1/8+	255A 813											**FORCE POOL**
FORCE POOL	12-7-4.1	Q	THOMAS E GARNER	EQT PRODUCTION COMPANY	1/8+	255A 828											**FORCE POOL**
PENDING	12-7-4.1	Q	ROBERT JOSEPH COLEMAN	ANTERO RESOURCES CORPORATION	1/8+	306A 88	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Antero Resources Corporation to TH
FORCE POOL	12-7-4.1	Q	ANTERO RESOURCES CORPORATION	UNLEASED	NA	NA NA											Exploration LLC
FORCE POOL	12-7-4.1	Q	VANITA AND CORDOVA HOLDING COMPANY	UNLEASED	NA	NA NA											**FORCE POOL**
10*24519	12-7-4.1	Q	THOMAS J CROGHAN AND ANITA P CROGHAN	TH EXPLORATION LLC	1/8+	218A 900	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**FORCE POOL**
10*24520	12-7-4.1	Q	CHRISTOPHER F PALMER AND BEVERLY PALMER	TH EXPLORATION LLC	1/8+	218A 892	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24521	12-7-4.1	Q	DARIA F. PALMER	TH EXPLORATION LLC	1/8+	218A 896	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24612	12-7-4.1	Q	LISA P BEERS AND GARY J BEERS	TH EXPLORATION LLC	1/8+	223A 378	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*26433	12-7-4.1	Q	ROBERT W BURTON AND SHARON BURTON	TH EXPLORATION LLC	1/8+	224A 167	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*26649	12-7-4.1	Q	MICHELLE C SHERWOOD	TH EXPLORATION LLC	1/8+	224A 531	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*27190	12-7-4.1	Q	VICKI S VOORHIS AND NORMAN K VOORHIS	TH EXPLORATION LLC	1/8+	228A 311	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*28217	12-7-4.1	Q	THELMA NELL PALMER	TH EXPLORATION LLC	1/8+	235A 561	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*28828	12-7-4.1	Q	CAROL BRECKENRIDGE AND ROBERT BRECKENRIDGE	TH EXPLORATION LLC	1/8+	239A 42	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*28829	12-7-4.1	Q	DAVID ROY EALY AND KAREN A EALY	TH EXPLORATION LLC	1/8+	239A 46	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*28862	12-7-4.1	Q	ELLEN KAY SHOOK	TH EXPLORATION LLC	1/8+	239A 131	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*29541	12-7-4.1	Q	TAMELA P WOOD AND JAMES G WOOD	TH EXPLORATION LLC	1/8+	251A 388	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*29998	12-7-4.1	Q	CHARLES W KOLISH SR AND KAREN KOLISH	TH EXPLORATION LLC	1/8+	255A 305	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*29999	12-7-4.1	Q	CHARLES W KOLISH JR AND JILL KOLISH	TH EXPLORATION LLC	1/8+	255A 301	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*30000	12-7-4.1	Q	SUSAN G ROSIER	TH EXPLORATION LLC	1/8+	255A 309	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*39287	12-7-4.1	Q	RIDGETOP ROYALTIES LLC	TH EXPLORATION LLC	1/8+	264A 97	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*40341	12-7-4.1	Q	R SHANE GODDARD AND KATHRYN R GODDARD	TH EXPLORATION LLC	1/8+	PENDING	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*41098	12-7-4.1	Q	ROGER E WOODINGTON	TH EXPLORATION LLC	1/8+	306A 9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*40443	12-7-5	R	MATTHEW D ARRICK	TH EXPLORATION LLC	1/8+	286A 903	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FORCE POOL	12-7-5	R	ALLEN STEWART	EQT PRODUCTION COMPANY	1/8+	215A 809											**FORCE POOL**
FORCE POOL	12-7-5	R	BEVERLY LYNN JOHNSON HUNTER	EQT PRODUCTION COMPANY	1/8+	215A 553											**FORCE POOL**
FORCE POOL	12-7-5	R	JANICE LANGDON	EQT PRODUCTION COMPANY	1/8+	215A 309											**FORCE POOL**
FORCE POOL	12-7-5	R	NANCY RITZ AKA NANCY BLAIR RITZ	EQT PRODUCTION COMPANY	1/8+	217A 941											**FORCE POOL**
FORCE POOL	12-7-5	R	RONALD STEWART	STONE ENERGY CORPORATION	1/8+	166A 385	Stone Energy Corp to EQT Production Company: 183A/305										**FORCE POOL**
10*21701	12-2-17	S	FRITZI L WADE	TH EXPLORATION LLC	1/8+	201A 432	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*22573	12-2-17	S	PAUL YOHO AND MARY CONSANCE YOHO	TH EXPLORATION LLC	1/8+	210A 811	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*22578	12-2-17	S	CAROL ANN YOHO HENNING	TH EXPLORATION LLC	1/8+	210A 813	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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LEASE ID	TMP	TAG	GRANTOR, LESSOR, ETC.	GRANTEE, LESSEE, ETC.	ROYALT	DEED BOOK/PAGE	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	
10*23329	12-2-17	S	RYAN P DUNHAM	TH EXPLORATION LLC	1/8+	211A 219	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*23379	12-2-17	S	GARRY YOUNG	TH EXPLORATION LLC	1/8+	212A 16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*23380	12-2-17	S	SANDRA RAE GAVIN AND LEON GAVIN	TH EXPLORATION LLC	1/8+	212A 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*23421	12-2-17	S	TRISHA C ROOK AND RAYMOND ROOK	TH EXPLORATION LLC	1/8+	212A 47	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*23432	12-2-17	S	PARIS CAMARENA AND JEFFREY CAMARENA	TH EXPLORATION LLC	1/8+	212A 52	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*23501	12-2-17	S	BARBARA A SPRAGUE	TH EXPLORATION LLC	1/8+	212A 396	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*23503	12-2-17	S	ROBERT F FROTHUSBERGER	TH EXPLORATION LLC	1/8+	210A 799	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*23650	12-2-17	S	LINDSEY GADDIS	TH EXPLORATION LLC	1/8+	212A 529	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*23840	12-2-17	S	RANDY F AND NANCY J ELLER	TH EXPLORATION LLC	1/8+	214A 355	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*26641	12-2-17	S	DONNA JO CAIN	TH EXPLORATION LLC	1/8+	224A 543	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*27302	12-2-17	S	THOMAS KEVIN SELLERS AND MICHELLE SELLERS	TH EXPLORATION LLC	1/8+	229A 587	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*27303	12-2-17	S	THOMAS CALVIN SELLERS AND KAREN SELLERS	TH EXPLORATION LLC	1/8+	229A 583	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*27396	12-2-17	S	DALE L MASON	TH EXPLORATION LLC	1/8+	229A 791	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*27423	12-2-17	S	RHONDA MASON PURDUM	TH EXPLORATION LLC	1/8+	229A 821	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*27523	12-2-17	S	SUSAN VANDYNE WALTERS AND ROGER WALTERS	TH EXPLORATION LLC	1/8+	230A 649	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*27525	12-2-17	S	ROXANN MASON MCNAUGHTON	TH EXPLORATION LLC	1/8+	230A 643	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*27526	12-2-17	S	BRENDA VANDYNE AUMAN AND DAVID AUMAN	TH EXPLORATION LLC	1/8+	230A 646	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*27567	12-2-17	S	CHARLES KENT SELLERS AND JULIE SELLERS	TH EXPLORATION LLC	1/8+	230A 704	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*27846	12-2-17	S	BRIDGE STREET CHURCH OF CHRIST	TH EXPLORATION LLC	1/8+	232A 145	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
FORCE POOL	12-2-17	S	ALLEN STEWART	EQT PRODUCTION COMPANY	1/8+	215A 315										**FORCE POOL**	
FORCE POOL	12-2-17	S	BEVERLY LYNN JOHNSON HUNTER	EQT PRODUCTION COMPANY	1/8+	215A 814										**FORCE POOL**	
FORCE POOL	12-2-17	S	UNKNOWN HEIRS AND ASSIGNS OF ORA E YOHO ET AL BY DAVID C WHITE SPEC COMM	STONE ENERGY CORPORATION	1/8+	181A 537	Stone Energy Corp to EQT Production Company: 183A/305										**FORCE POOL**
FORCE POOL	12-2-17	S	DEBRA FROHNAFFEL	EQT PRODUCTION COMPANY	1/8+	216A 234											**FORCE POOL**
FORCE POOL	12-2-17	S	GEORGE H BOHRER JR	EQT PRODUCTION COMPANY	1/8+	224A 262											**FORCE POOL**
FORCE POOL	12-2-17	S	JANICE LANGDON	EQT PRODUCTION COMPANY	1/8+	215A 304											**FORCE POOL**
FORCE POOL	12-2-17	S	KIM HONAKER	EQT PRODUCTION COMPANY	1/8+	216A 246											**FORCE POOL**
FORCE POOL	12-2-17	S	MICHAEL DUGAS AKA MIKE DUGAS	STONE ENERGY CORPORATION	1/8+	217A 578	Stone Energy Corp to EQT Production Company: 183A/305										**FORCE POOL**
FORCE POOL	12-2-17	S	MICHELLE DUGAS	EQT PRODUCTION COMPANY	1/8+	217A 572											**FORCE POOL**
FORCE POOL	12-2-17	S	NANCY RITZ AKA NANCY BLAIR RITZ	EQT PRODUCTION COMPANY	1/8+	217A 581											**FORCE POOL**
FORCE POOL	12-2-17	S	PAUL EUGENE EMCH	EQT PRODUCTION COMPANY	1/8+	214A 883											**FORCE POOL**
FORCE POOL	12-2-17	S	REBECCA KLUG	EQT PRODUCTION COMPANY	1/8+	216A 242											**FORCE POOL**
FORCE POOL	12-2-17	S	ROBERTA THOMAS	EQT PRODUCTION COMPANY	1/8+	145A 870											**FORCE POOL**
FORCE POOL	12-2-17	S	RONALD STEWART	STONE ENERGY CORPORATION	1/8+	166A 380	Stone Energy Corp to EQT Production Company: 183A/305										**FORCE POOL**
FORCE POOL	12-2-17	S	VICKY NOHRER BY DEBRA FROHNAFFEL, AGENT AND AIF	EQT PRODUCTION COMPANY	1/8+	216A 238											**FORCE POOL**
FORCE POOL	12-2-17	S	CRYSTAL YOUNG	UNLEASED	NA	NA NA											**FORCE POOL**
FORCE POOL	12-2-17	S	ROBERT W BOHRER	UNLEASED	NA	NA NA											**FORCE POOL**
10*22573	12-7-52	T	PAUL YOHO AND MARY CONSANSE YOHO	TH EXPLORATION LLC	1/8+	210A 811	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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10*23329	12-7-52	T	RYAN P DUNHAM	TH EXPLORATION LLC	1/8+	211A 219	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23379	12-7-52	T	GARRY YOUNG	TH EXPLORATION LLC	1/8+	212A 15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23380	12-7-52	T	SANDRA RAE GAVIN AND LEON GAVIN	TH EXPLORATION LLC	1/8+	212A 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23421	12-7-52	T	TRISHA C ROOK AND RAYMOND ROOK	TH EXPLORATION LLC	1/8+	212A 47	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23432	12-7-52	T	PARIS CAMARENA AND JEFFREY CAMARENA	TH EXPLORATION LLC	1/8+	212A 52	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23501	12-7-52	T	BARBARA A SPRAGUE	TH EXPLORATION LLC	1/8+	212A 396	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23503	12-7-52	T	ROBERT F ROTHUSBERGER	TH EXPLORATION LLC	1/8+	210A 799	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23650	12-7-52	T	LINDSEY GADDIS	TH EXPLORATION LLC	1/8+	212A 529	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*26641	12-7-52	T	DONNA JO CAIN	TH EXPLORATION LLC	1/8+	224A 543	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*27302	12-7-52	T	THOMAS KEVIN SELLERS AND MICHELLE SELLERS	TH EXPLORATION LLC	1/8+	229A 587	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*27303	12-7-52	T	THOMAS CALVIN SELLERS AND KAREN SELLERS	TH EXPLORATION LLC	1/8+	229A 583	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*27396	12-7-52	T	DALE L MASON	TH EXPLORATION LLC	1/8+	229A 791	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*27423	12-7-52	T	RHONDA MASON PURDUM	TH EXPLORATION LLC	1/8+	229A 821	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*27523	12-7-52	T	SUSAN VANDYNE WALTERS AND ROGER WALTERS	TH EXPLORATION LLC	1/8+	230A 649	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*27525	12-7-52	T	ROXANN MASON MCNAUGHTON	TH EXPLORATION LLC	1/8+	230A 643	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*27526	12-7-52	T	BRENDA VANDYNE AUMAN AND DAVID AUMAN	TH EXPLORATION LLC	1/8+	230A 645	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*27567	12-7-52	T	CHARLES KENT SELLERS AND JULIE SELLERS	TH EXPLORATION LLC	1/8+	230A 704	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*27846	12-7-52	T	BRIDGE STREET CHURCH OF CHRIST	TH EXPLORATION LLC	1/8+	232A 145	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*39056	12-7-52	T	CAROL ANN YOHO HENNING	TH EXPLORATION LLC	1/8+	259A 69	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*40362	12-7-52	T	BRENT J AND SARA L ELLER	TH EXPLORATION LLC	1/8+	289A 727	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FORCE POOL	12-7-52	T	ALLEN STEWART	EQT PRODUCTION COMPANY	1/8+	215A 315								**FORCE POOL**		
FORCE POOL	12-7-52	T	BEVERLY LYNN JOHNSON HUNTER	EQT PRODUCTION COMPANY	1/8+	215A 814								**FORCE POOL**		
FORCE POOL	12-7-52	T	UNKNOWN HEIRS AND ASSIGNS OF ORA E YOHO ET AL BY DAVID C WHITE SPEC COMM	STONE ENERGY CORPORATION	1/8+	181A 537	Stone Energy Corp to EQT Production Company: 183A/305							**FORCE POOL**		
FORCE POOL	12-7-52	T	DEBRA FROHNAPEL	EQT PRODUCTION COMPANY	1/8+	216A 234								**FORCE POOL**		
FORCE POOL	12-7-52	T	VICKY BOHRER BY DEBRA FROHNAPEL, AGENT AND AIF	EQT PRODUCTION COMPANY	1/8+	216A 238								**FORCE POOL**		
FORCE POOL	12-7-52	T	GEORGE H BOHRER JR	EQT PRODUCTION COMPANY	1/8+	224A 262								**FORCE POOL**		
FORCE POOL	12-7-52	T	JANICE LANGOON	EQT PRODUCTION COMPANY	1/8+	215A 304								**FORCE POOL**		
FORCE POOL	12-7-52	T	KIM HONAKER	EQT PRODUCTION COMPANY	1/8+	216A 246								**FORCE POOL**		
FORCE POOL	12-7-52	T	MICHAEL DUGAS AKA MIKE DUGAS	STONE ENERGY CORPORATION	1/8+	217A 578	Stone Energy Corp to EQT Production Company: 183A/305							**FORCE POOL**		
FORCE POOL	12-7-52	T	MICHELLE DUGAS	EQT PRODUCTION COMPANY	1/8+	217A 572								**FORCE POOL**		
FORCE POOL	12-7-52	T	NANCY RITZ AKA NANCY BLAIR RITZ	EQT PRODUCTION COMPANY	1/8+	217A 581								**FORCE POOL**		
FORCE POOL	12-7-52	T	PAUL EUGENE EMCH	EQT PRODUCTION COMPANY	1/8+	214A 883								**FORCE POOL**		
FORCE POOL	12-7-52	T	REBECCA KLUG	EQT PRODUCTION COMPANY	1/8+	216A 242								**FORCE POOL**		
FORCE POOL	12-7-52	T	ROBERTA THOMAS	EQT PRODUCTION COMPANY	1/8+	145A 870								**FORCE POOL**		
FORCE POOL	12-7-52	T	RONALD STEWART	STONE ENERGY CORPORATION	1/8+	166A 380	Stone Energy Corp to EQT Production Company: 183A/305							**FORCE POOL**		

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FORCE POOL	12-7-52	T	ROBERT W BOHRER	STONE ENERGY CORPORATION	1/8+	147A 266												**FORCE POOL**
FORCE POOL	12-7-52	T	FRITZI L WADE	UNLEASED	NA	NA NA												**FORCE POOL**
FORCE POOL	12-7-52	U	CRYSTAL YOUNG	UNLEASED	NA	NA NA												**FORCE POOL**
10*24519	12-7-4	U	THOMAS J CROGHAN AND ANITA P CROGHAN	TH EXPLORATION LLC	1/8+	218A 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*24520	12-7-4	U	CHRISTOPHER F PALMER AND BEVERLY PALMER	TH EXPLORATION LLC	1/8+	218A 892	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*24521	12-7-4	U	DARIA F. PALMER	TH EXPLORATION LLC	1/8+	218A 896	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*24612	12-7-4	U	LISA P BEERS AND GARY J BEERS	TH EXPLORATION LLC	1/8+	223A 378	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*26433	12-7-4	U	ROBERT W BURTON AND SHARON BURTON	TH EXPLORATION LLC	1/8+	224A 167	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*26649	12-7-4	U	MICHELLE C SHERWOOD	TH EXPLORATION LLC	1/8+	224A 531	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*27190	12-7-4	U	VICKI S VOORHIS AND NORMAN K VOORHIS	TH EXPLORATION LLC	1/8+	228A 311	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*27522	12-7-4	U	RODNEY G ELLER	TH EXPLORATION LLC	1/8+	234A 470	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*28217	12-7-4	U	THELMA NELL PALMER	TH EXPLORATION LLC	1/8+	235A 561	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*28828	12-7-4	U	CAROL BRECKENRIDGE AND ROBERT BRECKENRIDGE	TH EXPLORATION LLC	1/8+	239A 42	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*28829	12-7-4	U	DAVID ROY EALY AND KAREN A EALY	TH EXPLORATION LLC	1/8+	239A 46	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*28862	12-7-4	U	ELLEN KAY SHOOK	TH EXPLORATION LLC	1/8+	239A 131	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*29641	12-7-4	U	TAMELA P WOOD AND JAMES G WOOD	TH EXPLORATION LLC	1/8+	251A 388	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*29998	12-7-4	U	CHARLES W KOLISH SR AND KAREN KOLISH	TH EXPLORATION LLC	1/8+	255A 305	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*29999	12-7-4	U	CHARLES W KOLISH JR AND JILL KOLISH	TH EXPLORATION LLC	1/8+	255A 301	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*30000	12-7-4	U	SUSAN G ROSIER	TH EXPLORATION LLC	1/8+	255A 309	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*39287	12-7-4	U	RIDGETOP ROYALTIES LLC	TH EXPLORATION LLC	1/8+	264A 97	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*40341	12-7-4	U	R SHANE GODDARD AND KATHRYN R GODDARD	TH EXPLORATION LLC	1/8+	PENDING	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*41098	12-7-4	U	ROGER E WOODINGTON	TH EXPLORATION LLC	1/8+	306A 9	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	12-7-4	U	BARBARA A EDDY	ANTERO RESOURCES CORPORATION	1/8+	173A 497												**FORCE POOL**
PENDING	12-7-4	U	EDDY HERITAGE LLC	ANTERO RESOURCES CORPORATION	1/8+	293A 921	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Antero Resources Corporation to TH
FORCE POOL	12-7-4	U	LARRY D GARNER	EQT PRODUCTION COMPANY	1/8+	255A 813												**FORCE POOL**
FORCE POOL	12-7-4	U	THOMAS E GARNER	EQT PRODUCTION COMPANY	1/8+	255A 828												**FORCE POOL**
FORCE POOL	12-7-4	U	VANITA AND CORDOVA HOLDING COMPANY	UNLEASED	NA	NA NA												**FORCE POOL**
10*18336	12-2-8.1	V	ED BROOME INC	TH EXPLORATION LLC	1/8+	198A 718	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*22229	12-2-8.1	V	MURIEL A MILLER	TH EXPLORATION LLC	1/8+	204A 150	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*22230	12-2-8.1	V	JOHN P SNYDER	TH EXPLORATION LLC	1/8+	204A 146	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*23007	12-2-8.1	V	JOHN M PARSONS & ANTOINETTE L COSTANTINO	TH EXPLORATION LLC	1/8+	209A 287	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23512	12-2-8.1	V	VIVIAN A PARSONS	TH EXPLORATION LLC	1/8+	212A 59	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*23824	12-2-8.1	V	JAMES H PARSONS JR	TH EXPLORATION LLC	1/8+	215A 262	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24073	12-2-8.1	V	ARTHUR ALVIN ANDERSON	TH EXPLORATION LLC	1/8+	216A 395	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*24074	12-2-8.1	V	HOLLINS RANDOLPH III & AMY J RANDOLPH	TH EXPLORATION LLC	1/8+	216A 397	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*24087	12-2-8.1	V	MARTHA C HYRE AND RICHARD D HYRE JR	TH EXPLORATION LLC	1/8+	216A 408	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*24088	12-2-8.1	V	WILLIAM H WILD	TH EXPLORATION LLC	1/8+	216A 410	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*24100	12-2-8.1	V	ROME PRESBYTERIAN CHURCH OF PROCTORVILLE	TH EXPLORATION LLC	1/8+	216A 422	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*24148	12-2-8.1	V	ROY C PARSONS	TH EXPLORATION LLC	1/8+	212A 517	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*24242	12-2-8.1	V	MARJORIE B KIDD AND ROBERT C KIDD	TH EXPLORATION LLC	1/8+	217A 187	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*24243	12-2-8.1	V	THE RANDOLPH FAMILY TRUST MARY MARIE SPITLER RANDOLPH TRUSTEE	TH EXPLORATION LLC	1/8+	217A 191	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*24244	12-2-8.1	V	BONNIE S SMITH	TH EXPLORATION LLC	1/8+	217A 189	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*24303	12-2-8.1	V	RICHARD P BACHMAN AND JEANETTE M BACHMAN	TH EXPLORATION LLC	1/8+	217A 696	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*24304	12-2-8.1	V	LAURENCE MYERS EVANS II AND PENNY EVANS	TH EXPLORATION LLC	1/8+	217A 694	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*24305	12-2-8.1	V	MARY E MUMFORD AIF LISA ANN FISHER	TH EXPLORATION LLC	1/8+	217A 692	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*24376	12-2-8.1	V	WYO LEMON	TH EXPLORATION LLC	1/8+	218A 504	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*24459	12-2-8.1	V	CHARLES E BLUE IV AND ALLA RABINOVICH	TH EXPLORATION LLC	1/8+	218A 483	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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10*24472	12-2-8.1	V	ROY FRIEND YOHO	TH EXPLORATION LLC	1/8+	219A 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24501	12-2-8.1	V	LORNA MARIE LEW	TH EXPLORATION LLC	1/8+	218A 920	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24620	12-2-8.1	V	KORI D MASON	TH EXPLORATION LLC	1/8+	211A 854	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24683	12-2-8.1	V	OKEY W DAVIS, JR	TH EXPLORATION LLC	1/8+	219A 570	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24732	12-2-8.1	V	JEFFREY SMITH AND LESLIE SMITH	TH EXPLORATION LLC	1/8+	220A 23	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24754	12-2-8.1	V	WILLIAM M GREENE	TH EXPLORATION LLC	1/8+	220A 44	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24755	12-2-8.1	V	JOHNNY P GREENE	TH EXPLORATION LLC	1/8+	471 222A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*25013	12-2-8.1	V	KENNETH WAYNE MASON AND LANA FRETZ MASON	TH EXPLORATION LLC	1/8+	221A 311	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*25014	12-2-8.1	V	RICHARD JOSEPH MASON AND VICKY ANN MASON	TH EXPLORATION LLC	1/8+	221A 307	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*25314	12-2-8.1	V	LISA SUTPHIN	TH EXPLORATION LLC	1/8+	222A 123	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*25359	12-2-8.1	V	MASON A BEGLEY AND DENINA M BEGLEY	TH EXPLORATION LLC	1/8+	222A 468	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*25714	12-2-8.1	V	VICTORIA A PAKROVSKY AND STEPHEN W PAKROVSKY	TH EXPLORATION LLC	1/8+	223A 524	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*25720	12-2-8.1	V	CATHRA LYNN BEGLEY	TH EXPLORATION LLC	1/8+	223A 526	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*26574	12-2-8.1	V	JACQUELEIN R KOSKI	TH EXPLORATION LLC	1/8+	224A 505	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*26575	12-2-8.1	V	ALANNA L HAMILTON	TH EXPLORATION LLC	1/8+	224A 502	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*26942	12-2-8.1	V	SHERRY L FEE	TH EXPLORATION LLC	1/8+	226A 412	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*27146	12-2-8.1	V	JULIE P SIMMONS AND DOUGLAS A SIMMONS	TH EXPLORATION LLC	1/8+	228A 189	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*27149	12-2-8.1	V	NEIL D PATTERSON JR & THERESA PATTERSON	TH EXPLORATION LLC	1/8+	228a 186	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*27310	12-2-8.1	V	CLARK E PATTERSON AND MAUSSA D PATTERSON	TH EXPLORATION LLC	1/8+	228A 192	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*27963	12-2-8.1	V	STONE HILL MINERALS HOLDINGS LLC	TH EXPLORATION LLC	1/8+	232A 339	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*28421	12-2-8.1	V	ROBERT G JEWELL	TH EXPLORATION LLC	1/8+	236A 838	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*28515	12-2-8.1	V	KATHARINE EVANS COFFEY	TH EXPLORATION LLC	1/8+	237A 656	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*29189	12-2-8.1	V	DWAYNE EARL BEGLEY	TH EXPLORATION LLC	1/8+	245A 371	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*29243	12-2-8.1	V	HARRY L WILLIAMS AND ROBERTA L WILLIAMS	TH EXPLORATION LLC	1/8+	246A 693	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*29273	12-2-8.1	V	LILLIAN GALLAGHER	TH EXPLORATION LLC	1/8+	246A 917	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*29327	12-2-8.1	V	MICHAEL V PARSONS AND LINDA D PARSONS	TH EXPLORATION LLC	1/8+	285A 567	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*39162	12-2-8.1	V	HAMMETT LAND & MINERALS LLC	TH EXPLORATION LLC	1/8+	263A 278	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*39899	12-2-8.1	V	EDWARD A BROOME	TH EXPLORATION LLC	1/8+	273A 876	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*40351	12-2-8.1	V	STONE HILL MINERALS HOLDINGS LLC	TH EXPLORATION LLC	1/8+	282A 435	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*40367	12-2-8.1	V	LAURA LEE RICHARDS COOK	TH EXPLORATION LLC	1/8+	289A 725	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*40499	12-2-8.1	V	ALL DALE MINERALS II LP	TH EXPLORATION LLC	1/8+	292A 937	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*40567	12-2-8.1	V	RONALD M WOOD	TH EXPLORATION LLC	1/8+	294A 156	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*41089	12-2-8.1	V	STONE HILL MINERALS HOLDINGS LLC	TH EXPLORATION LLC	1/8+	305A 239	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FORCE POOL	12-2-8.1	V	AARON DAVIS	STONE ENERGY CORPORATION	1/8+	143A 517	Stone Energy Corp to EQT Production Company: 183A/305										**FORCE POOL**
FORCE POOL	12-2-8.1	V	ALICE J PRATKO	STONE ENERGY CORPORATION	1/8+	144A 892	Stone Energy Corp to EQT Production Company: 183A/305										**FORCE POOL**
FORCE POOL	12-2-8.1	V	AMANDA SPONAUGLE	STONE ENERGY CORPORATION	1/8+	144A 317	Stone Energy Corp to EQT Production Company: 183A/305										**FORCE POOL**
FORCE POOL	12-2-8.1	V	CARRIE ELLEN MORSE	EQT PRODUCTION COMPANY	1/8+	219A 241											**FORCE POOL**
FORCE POOL	12-2-8.1	V	CHERYL ANN MOORE	STONE ENERGY CORPORATION	1/8+	143A 523	Stone Energy Corp to EQT Production Company: 183A/305										**FORCE POOL**
FORCE POOL	12-2-8.1	V	DANNY DAVIS JR AND JENNIFER DAVIS	STONE ENERGY CORPORATION	1/8+	143A 527	Stone Energy Corp to EQT Production Company: 183A/305										**FORCE POOL**
FORCE POOL	12-2-8.1	V	DOROTHY JOANNE HAAS	EQT PRODUCTION COMPANY	1/8+	212A 861											**FORCE POOL**

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FORCE POOL	12-2-8.1	V	DOROTHY PYATT LEWIS	ANTERO RESOURCES CORPORATION	1/8+	175A 513	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**	
FORCE POOL	12-2-8.1	V	DWG OIL & GAS ACQUISITIONS LLC	ANTERO RESOURCES CORPORATION	1/8+	187A 555	Antero Resources Corporation to EQT Production Company: 231A/22											**FORCE POOL**
FORCE POOL	12-2-8.1	V	JO ANDERSON COMBS	EQT PRODUCTION COMPANY	1/8+	219A 237												**FORCE POOL**
FORCE POOL	12-2-8.1	V	JOHN B COOK JR AND LAURA LEE RICHARDS COOK	STONE ENERGY CORPORATION	1/8+	134A 127	Stone Energy Corp to EQT Production Company: 183A/305											**FORCE POOL**
FORCE POOL	12-2-8.1	V	JOHN PHILLIP HOWSER	EQT PRODUCTION COMPANY	1/8+	219A 234												**FORCE POOL**
FORCE POOL	12-2-8.1	V	JUDITH R WHITE AND FRANKIE D WHITE	STONE ENERGY CORPORATION	1/8+	143A 509	Stone Energy Corp to EQT Production Company: 183A/305											**FORCE POOL**
FORCE POOL	12-2-8.1	V	KATHERINE J MCGUANE	STONE ENERGY CORPORATION	1/8+	143A 505	Stone Energy Corp to EQT Production Company: 183A/305											**FORCE POOL**
FORCE POOL	12-2-8.1	V	LENORA S SHELTON	ANTERO RESOURCES CORPORATION	1/8+	175A 527	Antero Resources Corporation to EQT Production Company: 231A/22											**FORCE POOL**
10*40391	12-2-8.1	V	MASON ENERGY LLC	TH EXPLORATION LLC	1/8+	290A 160	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	12-2-8.1	V	PATRICIA MAE SHRIVER	ANTERO RESOURCES CORPORATION	1/8+	175A 806	Antero Resources Corporation to EQT Production Company: 231A/22											**FORCE POOL**
FORCE POOL	12-2-8.1	V	ROSE MARIE BARKER	ANTERO RESOURCES CORPORATION	1/8+	175A 509	Antero Resources Corporation to EQT Production Company: 231A/22											**FORCE POOL**
FORCE POOL	12-2-8.1	V	VICKIE NOLAN	STONE ENERGY CORPORATION	1/8+	144A 319	Stone Energy Corp to EQT Production Company: 183A/305											**FORCE POOL**
FORCE POOL	12-2-8.1	V	MONA LOU MOORE	ANTERO RESOURCES CORPORATION	1/8+	175A 519	Antero Resources Corporation to EQT Production Company: 231A/22											**FORCE POOL**
FORCE POOL	12-2-8.1	V	BILLY MASON SULLIVAN AKA BILLY J SULLIVAN	UNLEASED	NA	NA NA												**FORCE POOL**
FORCE POOL	12-2-8.1	V	CHRISTIAN CHURCH FACILITIES FOR THE AGING; BETHANY HOUSE	UNLEASED	NA	NA NA												**FORCE POOL**
FORCE POOL	12-2-8.1	V	ELLEN HOGE TRUST	UNLEASED	NA	NA NA												**FORCE POOL**

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FORCE POOL	12-2-8.1	V	JEFFREY J MCGLONE	UNLEASED	NA	NA	NA											**FORCE POOL**
FORCE POOL	12-2-8.1	V	JOHN R WARSINSKY	UNLEASED	NA	NA	NA											**FORCE POOL**
FORCE POOL	12-2-8.1	V	KELLY M MCCLONE	UNLEASED	NA	NA	NA											**FORCE POOL**
FORCE POOL	12-2-8.1	V	KENNETH JAMES PARSONS	UNLEASED	NA	NA	NA											**FORCE POOL**
FORCE POOL	12-2-8.1	V	LAWRENCE SLADE	UNLEASED	NA	NA	NA											**FORCE POOL**
FORCE POOL	12-2-8.1	V	LYELL SLADE	UNLEASED	NA	NA	NA											**FORCE POOL**
FORCE POOL	12-2-8.1	V	PAM ISOM	UNLEASED	NA	NA	NA											**FORCE POOL**
FORCE POOL	12-2-8.1	V	REBECCA J ANTIBUS AKA REBECCA J HARRELL	UNLEASED	NA	NA	NA											**FORCE POOL**
FORCE POOL	12-2-8.1	V	ROSEMARY CHAMBERS	UNLEASED	NA	NA	NA											**FORCE POOL**
FORCE POOL	12-2-8.1	V	SHANNON HAMINGWAY	UNLEASED	NA	NA	NA											**FORCE POOL**
FORCE POOL	12-2-8.1	V	STEVEN M MCGLONE	UNLEASED	NA	NA	NA											**FORCE POOL**
FORCE POOL	12-2-8.1	V	UNKNOWN HEIRS OF PHYLLIS JENKINS	UNLEASED	NA	NA	NA											**FORCE POOL**
FORCE POOL	12-2-8.1	V	WILLIAM SLADE	UNLEASED	NA	NA	NA											**FORCE POOL**
10*40056	12-7-3.2	W	MATTHEW ROHR AND WAYNE RABER, REMAINDERMAN ELIZABETH A. BEACHELL, TRUSTEE, AND HER SUCCESSORS IN TRUST OF THE MCCALL 2016 DELAWARE TRUST DATED MAY 4, 2016	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	**FORCE POOL**
FORCE POOL	12-7-3.2	W		EQT PRODUCTION COMPANY	1/8+	277A	615											**FORCE POOL**
FORCE POOL	12-7-3.2	W	JOHN J MENSORE REVOCABLE TRUST DTD 7/12/2001, JOHN J MENSORE, INDIVID & UNDER THE TRUST	STONE ENERGY CORPORATION	1/8+	151A	540	Stone Energy Corp to EQT Production Company: 183A/305										**FORCE POOL**
10*31168	12-2-16	X	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	Antero Resources Corporation to TH Exploration LLC: 256A/813
10*18336	12-2-8	Y	ED BROOME INC	TH EXPLORATION LLC	1/8+	198A	718	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*18556	12-2-8	Y	VANITA AND CORDOVA HOLDING COMPANY	TH EXPLORATION LLC	1/8+	188A	497	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*22219	12-2-8	Y	PAUL D MASON	TH EXPLORATION LLC	1/8+	202A	834	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*22225	12-2-8	Y	HAMMETT LAND & MINERALS LLC	TH EXPLORATION LLC	1/8+	204A	191	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*22229	12-2-8	Y	MURIEL A MILLER	TH EXPLORATION LLC	1/8+	204A	150	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*22230	12-2-8	Y	JOHN P SNYDER	TH EXPLORATION LLC	1/8+	204A	146	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23007	12-2-8	Y	JOHN M PARSONS & ANTOINETTE L COSTANTINO	TH EXPLORATION LLC	1/8+	209A	287	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23266	12-2-8	Y	KEVIN P MASON	TH EXPLORATION LLC	1/8+	209A	225	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23512	12-2-8	Y	VIVIAN A PARSONS	TH EXPLORATION LLC	1/8+	212A	59	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23824	12-2-8	Y	JAMES H PARSONS JR	TH EXPLORATION LLC	1/8+	215A	262	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24100	12-2-8	Y	ROME PRESBYTERIAN CHURCH OF PROCTORVILLE	TH EXPLORATION LLC	1/8+	216A	422	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24148	12-2-8	Y	ROY C PARSONS	TH EXPLORATION LLC	1/8+	212A	517	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24376	12-2-8	Y	WD LEMON	TH EXPLORATION LLC	1/8+	218A	504	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24620	12-2-8	Y	KORI D MASON	TH EXPLORATION LLC	1/8+	211A	854	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24683	12-2-8	Y	OKEY W DAVIS, JR	TH EXPLORATION LLC	1/8+	219A	570	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24732	12-2-8	Y	JEFFREY SMITH AND LESLIE SMITH	TH EXPLORATION LLC	1/8+	220A	23	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24754	12-2-8	Y	WILLIAM M GREENE	TH EXPLORATION LLC	1/8+	220A	44	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24755	12-2-8	Y	JOHNNY P GREENE	TH EXPLORATION LLC	1/8+	222A	471	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*25013	12-2-8	Y	KENNETH WAYNE MASON AND LANA FRETZ MASON	TH EXPLORATION LLC	1/8+	221A	311	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*25014	12-2-8	Y	RICHARD JOSEPH MASON AND VICKY ANN MASON	TH EXPLORATION LLC	1/8+	221A	307	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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10*25314	12-2-8	Y	LISA SUTPHIN	TH EXPLORATION LLC	1/8+	222A 123	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*25359	12-2-8	Y	MASON A BEGLEY AND DENINA M BEGLEY	TH EXPLORATION LLC	1/8+	222A 468	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*25720	12-2-8	Y	CATHRA LYNN BEGLEY	TH EXPLORATION LLC	1/8+	223A 526	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*26574	12-2-8	Y	JACQUELEIN R KOSKI	TH EXPLORATION LLC	1/8+	224A 505	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*26575	12-2-8	Y	ALANNA L HAMILTON	TH EXPLORATION LLC	1/8+	224A 502	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*26942	12-2-8	Y	SHERRY L FEE	TH EXPLORATION LLC	1/8+	226A 412	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*27146	12-2-8	Y	JULIE P SIMMONS AND DOUGLAS A SIMMONS	TH EXPLORATION LLC	1/8+	228A 189	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*27149	12-2-8	Y	NEIL D PATTERSON JR & THERESA PATTERSON	TH EXPLORATION LLC	1/8+	228a 186	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*27310	12-2-8	Y	CLARK E PATTERSON AND MALISSA D PATTERSON	TH EXPLORATION LLC	1/8+	228A 192	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*28421	12-2-8	Y	ROBERT G JEWELL	TH EXPLORATION LLC	1/8+	236A 838	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*29189	12-2-8	Y	DWAYNE EARL BEGLEY	TH EXPLORATION LLC	1/8+	245A 371	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*29243	12-2-8	Y	HARRY L WILLIAMS AND ROBERTA L WILLIAMS	TH EXPLORATION LLC	1/8+	246A 693	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*29273	12-2-8	Y	LILLIAN GALLAGHER	TH EXPLORATION LLC	1/8+	246A 917	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*29327	12-2-8	Y	MICHAEL V PARSONS AND LINDA D PARSONS	TH EXPLORATION LLC	1/8+	285A 567	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*39899	12-2-8	Y	EDWARD A BROOME	TH EXPLORATION LLC	1/8+	273A 876	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*40351	12-2-8	Y	STONE HILL MINERALS HOLDINGS LLC	TH EXPLORATION LLC	1/8+	282A 435	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*40367	12-2-8	Y	LAURA LEE RICHARDS COOK	TH EXPLORATION LLC	1/8+	289A 725	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*40499	12-2-8	Y	ALL DALE MINERALS II LP	TH EXPLORATION LLC	1/8+	292A 937	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*41089	12-2-8	Y	STONE HILL MINERALS HOLDINGS LLC	TH EXPLORATION LLC	1/8+	305A 239	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
FORCE POOL	12-2-8	Y	AARON DAVIS	STONE ENERGY CORPORATION	1/8+	143A 517	Stone Energy Corp to EQT Production Company: 183A/305										**FORCE POOL**
FORCE POOL	12-2-8	Y	ALF T MOORE AND CHERYL A MOORE	STONE ENERGY CORPORATION	1/8+	143A 523	Stone Energy Corp to EQT Production Company: 183A/305										**FORCE POOL**
FORCE POOL	12-2-8	Y	ALICE J PRATKO	STONE ENERGY CORPORATION	1/8+	144A 317	Stone Energy Corp to EQT Production Company: 183A/305										**FORCE POOL**
FORCE POOL	12-2-8	Y	AMANDA SPONAUGLE	STONE ENERGY CORPORATION	1/8+	144A 317	Stone Energy Corp to EQT Production Company: 183A/305										**FORCE POOL**
FORCE POOL	12-2-8	Y	CARRIE ELLEN MORSE	EQT PRODUCTION COMPANY	1/8+	219A 241										**FORCE POOL**	
FORCE POOL	12-2-8	Y	DANNY DAVIS JR AND JENNIFER DAVIS	STONE ENERGY CORPORATION	1/8+	143A 527	Stone Energy Corp to EQT Production Company: 183A/305										**FORCE POOL**
FORCE POOL	12-2-8	Y	DOROTHY JOANNE HAAS	EQT PRODUCTION COMPANY	1/8+	212A 861										**FORCE POOL**	
FORCE POOL	12-2-8	Y	DOROTHY PYATT LEWIS	ANTERO RESOURCES CORPORATION	1/8+	175A 513	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
FORCE POOL	12-2-8	Y	DWG OIL & GAS ACQUISITIONS LLC	ANTERO RESOURCES CORPORATION	1/8+	187A 555	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
FORCE POOL	12-2-8	Y	JO ANDERSON COMBS	EQT PRODUCTION COMPANY	1/8+	219A 237										**FORCE POOL**	
FORCE POOL	12-2-8	Y	JOHN PHILLIP HOWSER	EQT PRODUCTION COMPANY	1/8+	219A 234										**FORCE POOL**	

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FORCE POOL	12-2-8	Y	JUDITH R WHITE AND FRANKIE D WHITE	STONE ENERGY CORPORATION	1/8+	143A 509	Stone Energy Corp to EQT Production Company: 183A/305										**FORCE POOL**	
FORCE POOL	12-2-8	Y	KATHERINE J MCGUANE	STONE ENERGY CORPORATION	1/8+	143A 505	Stone Energy Corp to EQT Production Company: 183A/305											**FORCE POOL**
FORCE POOL	12-2-8	Y	LENORA S SHELTON	ANTERO RESOURCES CORPORATION	1/8+	175A 527	Antero Resources Corporation to EQT Production Company: 231A/22											**FORCE POOL**
10*40391	12-2-8	Y	MASON ENERGY LLC	TH EXPLORATION LLC	1/8+	290A 160	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	12-2-8	Y	MONA LOU MOORE	ANTERO RESOURCES CORPORATION	1/8+	175A 519	Antero Resources Corporation to EQT Production Company: 231A/22											**FORCE POOL**
FORCE POOL	12-2-8	Y	ROSE MARIE BARKER	ANTERO RESOURCES CORPORATION	1/8+	175A 509	Antero Resources Corporation to EQT Production Company: 231A/22											**FORCE POOL**
FORCE POOL	12-2-8	Y	ROY YOHO AND DARLENE YOHO	STONE ENERGY CORPORATION	1/8+	144A 323	Stone Energy Corp to EQT Production Company: 183A/305											**FORCE POOL**
FORCE POOL	12-2-8	Y	BILLIE MASON SULLIVAN	UNLEASED	NA	NA NA												**FORCE POOL**
FORCE POOL	12-2-8	Y	DENZIL FLOYD MASON	UNLEASED	NA	NA NA												**FORCE POOL**
FORCE POOL	12-2-8	Y	JEFFREY MCGLONE	UNLEASED	NA	NA NA												**FORCE POOL**
FORCE POOL	12-2-8	Y	JOHN R WARSINSKY	UNLEASED	NA	NA NA												**FORCE POOL**
FORCE POOL	12-2-8	Y	KELLY MCGLONE	UNLEASED	NA	NA NA												**FORCE POOL**
FORCE POOL	12-2-8	Y	KENNETH PARSONS	UNLEASED	NA	NA NA												**FORCE POOL**
FORCE POOL	12-2-8.1	Y	LENORA S SHELTON	UNLEASED	NA	NA NA												**FORCE POOL**
FORCE POOL	12-2-8	Y	PAM ISOM	UNLEASED	NA	NA NA												**FORCE POOL**
FORCE POOL	12-2-8	Y	REBECCA ANTIBUS AKA REBECCA HARRELL	UNLEASED	NA	NA NA												**FORCE POOL**
FORCE POOL	12-2-8	Y	ROBERT D NOLAN AND VICTORIA DEE NOLAN	UNLEASED	NA	NA NA												**FORCE POOL**
FORCE POOL	12-2-8	Y	SHANNON HEMINGWAY	UNLEASED	NA	NA NA												**FORCE POOL**
FORCE POOL	12-2-8	Y	STEVEN MCGLONE	UNLEASED	NA	NA NA												**FORCE POOL**
10*21141	12-2-2	Z	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	N/A
10*21366	12-2-2	Z	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	N/A
10*21672	12-2-2	Z	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	N/A
10*21697	12-2-2	Z	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	N/A
10*21699	12-2-2	Z	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	N/A
10*21700	12-2-2	Z	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	N/A

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10*22071	12-2-2	Z	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	
10*22072	12-2-2	Z	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	
10*22204	12-2-2	Z	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	
10*22291	12-2-2	Z	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	
10*23038	12-2-2	Z	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	Z	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	Z	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	Z	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	Z	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	Z	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	Z	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	Z	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	Z	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	Z	BETTY / 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	Z	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	Merge - 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	Merge - 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	Z	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	Z	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	Z	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	Z	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	Z	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	Z	RICHARD S WHITE II	ANTERO RESOURCES CORPORATION	1/8+	176A 474	Antero Resources Corporation to EQT Production Company: 231A/22	**FORCE POOL**									

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FORCE POOL	12-2-2	Z	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	Z	SHARON E YOHO	ANTERO RESOURCES CORPORATION	1/8+	176A 476	Antero Resources Corporation to EQT Production Company: 231A/22											**FORCE POOL**
FORCE POOL	12-2-2	Z	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	Z	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	Z	THOMAS L ICEMAN	UNLEASED	NA	NA NA												**FORCE POOL**
FORCE POOL	12-2-2	Z	SUE M SCHAAD	UNLEASED	NA	NA NA												**FORCE POOL**
FORCE POOL	12-2-2	Z	VIRGINIA MAHN	UNLEASED	NA	NA NA												**FORCE POOL**
10*31102	12-2-4	AA	JACKSON YOHO	C F SMITH	1/8+	56 240	C F Smith to South Penn Oil Company: 56/240	South Penn Oil Company to Hope Natural Gas Company: 9A/227	Hope Natural Gas Company merged with and into Consolidated Gas Supply Corp: 233/387	Consolidated Gas Supply Corp to Consolidated Gas Transmission Corp: 66A/69	Consolidated Gas Transmission Corp to CNG Development Company: 67A/453	CNG Development Co merged into CNG Producing Company on 1/1/1991	Name change - CNG Producing Company to Dominion Exploration & Production Inc: 5/10/2000	Dominion Exploration & Production Co changes name to Consol Gas Company: CB 13/108	Consol Gas Company was merged with and into CNX Gas Company LLC on 1/1/2011	CNX Gas Company LLC to TH Exploration LLC: 251A-561		
10*31102	12-2-3	BB	JACKSON YOHO	C F SMITH	1/8+	56 240	C F Smith to South Penn Oil Company: 56/240	South Penn Oil Company to Hope Natural Gas Company: 9A/227	Hope Natural Gas Company merged with and into Consolidated Gas Supply Corp: 233/387	Consolidated Gas Supply Corp to Consolidated Gas Transmission Corp: 66A/69	Consolidated Gas Transmission Corp to CNG Development Company: 67A/453	CNG Development Co merged into CNG Producing Company on 1/1/1991	Name change - CNG Producing Company to Dominion Exploration & Production Inc: 5/10/2000	Dominion Exploration & Production Co changes name to Consol Gas Company: CB 13/108	Consol Gas Company was merged with and into CNX Gas Company LLC on 1/1/2011	CNX Gas Company LLC to TH Exploration LLC: 251A-561		
10*22286	5-26-16	CC	VENABLE ROYALTY LTD AND VENRO LTD	AMERICAN PETROLEUM PARTNERS LLC	1/8+	926 133	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	American Petroleum Partners Operating LLC to TH Exploration LLC: 41/380
10*23093	5-26-16	CC	PURPLEBURGH VENTURES, LLC	CHEVRON USA INC	1/8+	950 125	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 41/411
10*23094	5-26-16	CC	WILDES MINERAL INTERESTS LLC	CHEVRON USA INC	1/8+	950 134	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 41/411
10*23096	5-26-16	CC	APPALACHIAN BASIN MINERALS LP	CHEVRON USA INC	1/8+	950 128	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 41/411
10*23097	5-26-16	CC	PENNMARC RESOURCES II LP	CHEVRON USA INC	1/8+	950 137	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 41/411
10*23098	5-26-16	CC	MCCROW ENERGY PARTNERS II LLC	CHEVRON USA INC	1/8+	950 122	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 41/411

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10*23089	5-26-16	CC	MARCELLUS TX MINERAL PARTNERS LTD	CHEVRON USA INC	1/8+	950 131	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 41/411
10*15088	12-2-24	DD	MARK W BOOTH	GASTAR EXPLORATION USA INC	1/8+	154A 122	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Gastar Exploration USA Inc to Atinum Marcellus I LLC: 155A/753 Gastar Exploration Inc to TH Exploration II LLC: 173A/431 TH Exploration II LLC to TH Exploration LLC: 199A/576 Atinum Marcellus I LLC to TH Exploration II LLC: 253A/97
10*15089	12-2-24	DD	MAGGIE ANN ROCKWELL	GASTAR EXPLORATION USA INC	1/8+	152A 487	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Gastar Exploration USA Inc to Atinum Marcellus I LLC: 155A/753 Gastar Exploration Inc to TH Exploration II LLC: 173A/431 TH Exploration II LLC to TH Exploration LLC: 199A/576 Atinum Marcellus I LLC to TH Exploration II LLC: 253A/97
10*15090	12-2-24	DD	GEORGE E BOOTH JR	GASTAR EXPLORATION USA INC	1/8+	152A 440	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Gastar Exploration USA Inc to Atinum Marcellus I LLC: 155A/753 Gastar Exploration Inc to TH Exploration II LLC: 173A/431 TH Exploration II LLC to TH Exploration LLC: 199A/576 Atinum Marcellus I LLC to TH Exploration II LLC: 253A/97
10*21151	12-2-24	DD	RICHARD K REYNOLDS & SHIRLEY REYNOLDS	TH EXPLORATION LLC	1/8+	198A 347	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*21165	12-2-24	DD	GARNETT IRENE ROBINSON	TH EXPLORATION LLC	1/8+	198A 349	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*22286	5-26-17	EE	VENABLE ROYALTY LTD AND VENRO LTD	AMERICAN PETROLEUM PARTNERS LLC	1/8+	926 133	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	American Petroleum Partners Operating LLC to TH Exploration LLC: 41/380
10*23093	5-26-17	EE	PURPLEBURGH VENTURES, LLC	CHEVRON USA INC	1/8+	950 125	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 41/411
10*23094	5-26-17	EE	WILDES MINERAL INTERESTS LLC	CHEVRON USA INC	1/8+	950 134	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 41/411
10*23096	5-26-17	EE	APPALACHIAN BASIN MINERALS LP	CHEVRON USA INC	1/8+	950 128	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 41/411
10*23097	5-26-17	EE	PENNMARC RESOURCES II LP	CHEVRON USA INC	1/8+	950 137	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 41/411
10*23098	5-26-17	EE	MCCROW ENERGY PARTNERS II LLC	CHEVRON USA INC	1/8+	950 122	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 41/411
10*23099	5-26-17	EE	MARCELLUS TX MINERAL PARTNERS LTD	CHEVRON USA INC	1/8+	950 131	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 41/411
10*19733	5-26-18	FF	GEORGE E BOOTH SR AND MARGARET E BOOTH	TH EXPLORATION LLC	1/8+	944 575	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*19910	5-26-18	FF	GOLDA K ANDERSON	TH EXPLORATION LLC	1/8+	945 440	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*21450	5-26-18	FF	ERIC JAY BOOTH	TH EXPLORATION LLC	1/8+	953 258	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*17137	5-26-4.4	GG	MARK E SMITH AND VALERIE SMITH LIFE TENANT	CHESAPEAKE APPALACHIA LLC	1/8+	685 521	N/A	N/A	N/A	N/A	N/A	Chesapeake Appalachia LLC to Statoil USA Onshore Properties Inc: 22/235	Chesapeake Appalachia LLC to SWN Production Company LLC: 33/110	Statoil USA Onshore Properties Inc to SWN Production Titleholder LLC: 33/424	merger SWN Exchange Titleholder LLC merged with and into SWN Production Company LLC: MB 19/624	Statoil USA Onshore Properties Inc to TH Exploration LLC: 41/238	SWN Production Company LLC to TH Exploration LLC: 41/256

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10*17153	5-26-4.4	GG	ALLEN SMITH & BARBARA SMITH REMAINDERMAN	CHESAPEAKE APPALACHIA LLC	1/8+	687 46	N/A	N/A	N/A	N/A	Chesapeake Appalachia LLC to Statoil USA Onshore Properties Inc: 23/16	Chesapeake Appalachia LLC to SWN Production Company LLC: 33/110	Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC: 33/424	merger - SWN Exchange Titleholder LLC merged with and into SWN Production Company LLC: MB 19/624	Statoil USA Onshore Properties Inc to TH Exploration LLC: 41/238	SWN Production Company LLC to TH Exploration LLC: 41/256

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