



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-10HU
47-103-03512-00-00

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-10HU
Farm Name: EDWARD H & JOAN E ESTEP
U.S. WELL NUMBER: 47-103-03512-00-00
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 #47-103-03512

COMPANY: Tug Hill Operating, LLC

FARM: Edward H. Estep and Joan E. Estep Jeffersons N-10HU

COUNTY: Wetzell DISTRICT: Proctor QUAD: New Martinsville

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

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

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

Sincerely,

A handwritten signature in black ink that reads "Susan Rose".

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-9HU 47-103-03511; Jeffersons N-7HU 47-103-03509

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-10HU 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: 1,240.84' 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 11,430' - 11,549', thickness of 119' and anticipated pressure of approx. 7,500 psi.

8) Proposed Total Vertical Depth: 11,699'

9) Formation at Total Vertical Depth: Trenton

10) Proposed Total Measured Depth: 27,901'

11) Proposed Horizontal Leg Length: 15,600.63'

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

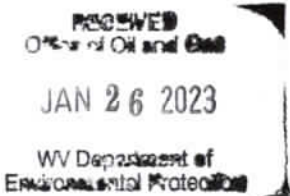
14) Approximate Saltwater Depths: 1,637'

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: _____



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#	10,609'	10,609'	3,460ft^3(CTS)
Production	5 1/2"	NEW	P110	23#	27,901'	27,901'	6,572ft^3(CTS)
Tubing	2 7/8"	NEW	P110	6.5#		11,345'	
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			

RECEIVED
Office of Oil and Gas
JAN 26 2023
WV Department of
Environmental Protection

Page 2 of 3
05/26/2023
1/10/23

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill through the Point Pleasant and TD Pilot Hole 150' into the Trenton. Log vertical section and run a solid cement plug back to proposed KOP (10,845'). 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 39,000,000 lb. proppant and 700,000 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:

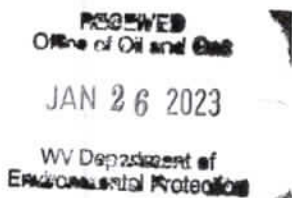
Will run 3 centralizers on surface casing at equal distance. Intermediate strings will have 1 centralizer every other joint. Production casing will have one centralizer every other joint in lateral, one centralizer every joint through curve, one centralizer every other joint to surface.

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

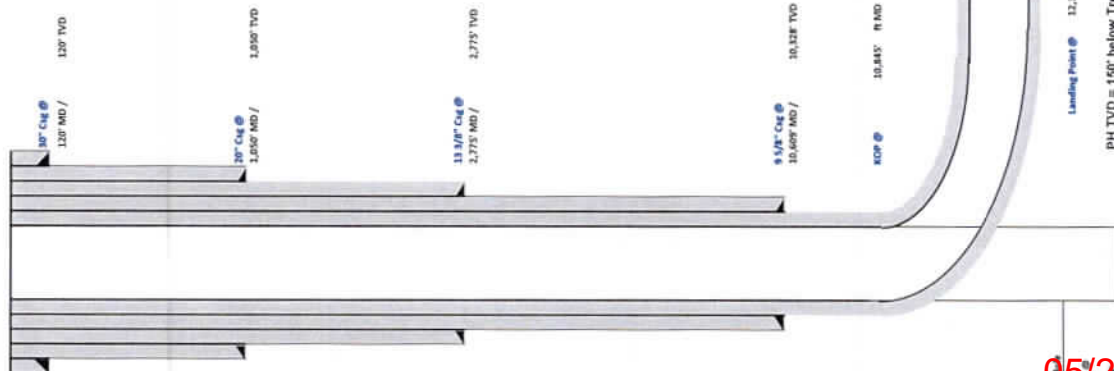


*Note: Attach additional sheets as needed.

Page 7 of 8
05/26/2023
1/10/23



WELL NAME: Jeffersons N 10HU
STATE: WV **COUNTY:** Wetzel
DISTRICT: Proctor
DF Elev: 1,217' **GL Elev:** 1,217'
TD: 27,903'
TH Latitude: 39.6886674
TH Longitude: -80.77015558
BH Latitude: 39.727197
BH Longitude: -80.792002



Formation	Depth TVD
Deepest Fresh Water	935'
Sewickley Coal	837'
Pittsburgh Coal	928'
Hg Lime	1,978'
Berea	2,621'
Tully	6,538'
Marcellus	6,614'
Onondaga	6,664'
Salina	7,805'
Lockport	8,425'
Utica	11,211'
Point Pleasant	11,430'
Landing Depth	11,480'
Trenton	11,548'
Pilot Hole TD	11,698'

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	1,000'	1,000'	106.5	J55	Surface
Intermediate 1	17 1/2	13 1/8	2,775'	2,775'	54.5	J55	Surface
Intermediate 2	12 1/4	9 5/8	10,699'	10,328'	47	HPP110	Surface
Production	8 1/2	5 1/2	27,903'	11,208'	23	HCP110	Surface

CEMENT SUMMARY				DRILLING DETAILS	
Type	Sacks	Class	Density (ppg)	Fluid Type	Centralizer Notes
Conductor	398	A	15.6	Air	None
Surface	1,821	A	15.6	Air	3 Centralizers at equal distance
Intermediate 1	2,321	A	15.6	Air	1 Centralizer every other joint
Intermediate 2	1,156	A	14.5	Air	1 Centralizer every other joint
Production	6,770	A	14.5	Air / SOBMA	3 every other joint in borehole; 1 per joint in curve; 1 every other joint to surface

PH TD = 150' below Trenton Top
 Landing Point @ 11,480' MD / 11,480' TVD

Lateral TD @ 27,903' R MD
 11,208' R TVD

RECEIVED
 Office of Oil and Gas
 JAN 26 2023
 WV Department of Environmental Protection

05/26/2023
 JSM



Tug Hill Operating, LLC Casing and Cement Program

Jeffersons N-10HU

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"	10,609'	CTS
Production	5 1/2"	HCP110	8 1/2"	27,901'	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

RECEIVED
Office of Oil and Gas
JAN 26 2023
WV Department of
Environmental Protection

RECEIVED
Office of Oil and Gas
JAN 26 2023
WV Department of
Environmental Protection

05/26/2023
SM

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

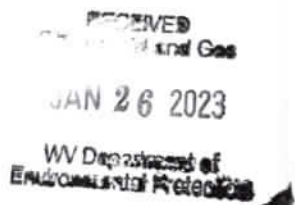
Contacted Adam Picard 724-485-9331, apicard@dpslandservices.com, DPS GIS (10/19/2021) to have him make maps of the wellbores with his information. DPS utilizes WVGES maps for their mapping seems it is the best publicly available. See attached map he provided.

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
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.
4710371618	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.
4710301500	Perkins Oil and Gas, Inc.	unknown	Gordon	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.
4710301556	Hope Natural Gas Company	2875' TVD	Gordon	unknown	No, the well is not deep enough to be within the expected fracture propagation from a Point Pleasant stimulation.	

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
4710371603	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.
4710371605	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.

RECEIVED
 Office of Oil and Gas
 JAN 26 2023
 W. Department of
 Environmental Protection

WV Geological & Economic Survey:

Well: County = 103 Permit = 71666

Report Time: Wednesday, October 20, 2021 11:32:48 AM

Location Information: [View Map](#)

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

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR	AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST
4710371666	-/-	-/-	unknown	Prpty Map	T V Smith	1								

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	unknown	unknown	unknown	unknown	unknown	unknown

WV Geological & Economic Survey:

Well: County = 103 Permit = 71618

Report Time: Wednesday, October 20, 2021 11:33:05 AM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4710371618	Wetzel	71618	Proctor	New Martinsville	New Martinsville	39.697817	-80.771585	519583.1	4394243.6

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR	AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST
4710371618	-/-	-/-	unknown	Prpty Map	Meshack Yoho	1265								

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
4710371618	-/-	-/-	-/-	-/-	-/-	-/-	-/-	unclassified	unclassified	not available	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown

WV Geological & Economic Survey

Well: County = 103 Permit = 01500

Report Time: Wednesday, October 20, 2021 11:33:20 AM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_45	LAT_DD	LONG_DD	UTME	UTMN
4710301500	Wetzel	1500	Proctor	New Marlinsville	New Marlinsville	39.712811	-80.781732	518709.1	4395905.6

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM
4710301500	11/13/1904	Original Loc.	Completed	Jackson Yoho		565			OP=AM Snider	Hope Natural Gas Company		

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RNG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD
4710301500	11/13/1904	---	1262	Ground Level	Cameron-Garner		Gordon	unclassified	unclassified	Gas	unknown	unknown				0

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4710301500	11/13/1904	Pay	Gas	Vertical	2817	Gordon	2827	Gordon	2047		0		

Production Gas Information: (Volumes in Mcf)

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4710301500	Perkins Oil and Gas, Inc.	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301500	Perkins Oil and Gas, Inc.	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301500	Perkins Oil and Gas, Inc.	1997	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301500	Perkins Oil and Gas, Inc.	2004	599	0	0	0	0	0	0	0	0	150	154	156	139
4710301500	Perkins Oil and Gas, Inc.	2005	1,589	141	118	107	137	140	139	83	147	143	135	159	140
4710301500	Perkins Oil and Gas, Inc.	2006	1,538	123	90	141	113	136	133	141	143	135	138	125	120
4710301500	Perkins Oil and Gas, Inc.	2007	1,535	128	98	122	126	137	133	117	140	136	143	132	123
4710301500	Perkins Oil and Gas, Inc.	2008	1,441	124	111	113	87	95	135	140	140	105	139	129	123
4710301500	Perkins Oil and Gas, Inc.	2009	1,366	107	107	117	107	127	129	128	136	4	133	146	125
4710301500	Perkins Oil and Gas, Inc.	2010	1,735	116	149	184	132	140	135	166	152	68	188	194	111
4710301500	Perkins Oil and Gas, Inc.	2011	1,874	72	164	209	216	189	159	182	181	138	143	106	115
4710301500	Perkins Oil and Gas, Inc.	2012	1,623	118	107	129	71	123	107	131	212	186	207	132	100
4710301500	Perkins Oil and Gas, Inc.	2013	1,652	63	87	179	166	147	117	153	189	175	139	110	127
4710301500	Perkins Oil and Gas, Inc.	2014	1,776	114	146	150	173	131	110	159	144	167	161	135	185
4710301500	Perkins Oil and Gas, Inc.	2015	1,544	95	117	131	111	111	52	142	221	118	101	137	210
4710301500	Perkins Oil and Gas, Inc.	2016	1,482	102	146	162	126	105	143	115	113	202	95	0	171
4710301500	Perkins Oil and Gas, Inc.	2017	1,528	307	64	125	0	238	93	100	122	157	100	0	222
4710301500	Perkins Oil and Gas, Inc.	2018	2,401	181	146	248	186	172	224	221	237	400	152	0	234
4710301500	Perkins Oil and Gas, Inc.	2019	2,734	283	313	379	284	205	186	281	143	261	204	0	235
4710301500	Perkins Oil and Gas, Inc.	2020	1,295	98	92	113	108	111	114	119	122	112	112	95	99

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

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4710301500	Perkins Oil and Gas, Inc.	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301500	Perkins Oil and Gas, Inc.	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301500	Perkins Oil and Gas, Inc.	1997	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301500	Perkins Oil and Gas, Inc.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301500	Perkins Oil and Gas, Inc.	2005	15	0	5	0	0	5	0	0	0	0	0	0	5
4710301500	Perkins Oil and Gas, Inc.	2006	10	0	0	5	0	0	0	0	0	0	0	0	5
4710301500	Perkins Oil and Gas, Inc.	2007	7	0	2	0	0	0	5	0	0	0	0	0	0
4710301500	Perkins Oil and Gas, Inc.	2008	13	5	0	4	0	0	0	0	0	0	4	0	0
4710301500	Perkins Oil and Gas, Inc.	2009	12	4	0	0	4	0	0	0	4	0	0	0	0
4710301500	Perkins Oil and Gas, Inc.	2010	8	4	0	0	0	0	0	4	0	0	0	0	0
4710301500	Perkins Oil and Gas, Inc.	2011	11	0	3	0	0	4	0	0	0	0	0	4	0
4710301500	Perkins Oil and Gas, Inc.	2012	5	0	5	0	0	0	0	0	0	0	0	0	0
4710301500	Perkins Oil and Gas, Inc.	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301500	Perkins Oil and Gas, Inc.	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301500	Perkins Oil and Gas, Inc.	2015	4	0	0	0	4	0	0	0	0	0	0	0	0
4710301500	Perkins Oil and Gas, Inc.	2016	4	0	0	4	0	0	0	0	0	0	0	0	0
4710301500	Perkins Oil and Gas, Inc.	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301500	Perkins Oil and Gas, Inc.	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301500	Perkins Oil and Gas, Inc.	2019	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301500	Perkins Oil and Gas, Inc.	2020	0	0	0	0	0	0	0	0	0	0	0	0	0

RECEIVED
 OCTOBER 20, 2021
 JAN 26 2023
 WV Department of
 Environmental Protection

WV Geological & Economic Survey:

Well: County = 103 Permit = 01556

Report Time: Wednesday, October 20, 2021 11:33:55 AM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4710301556	Wetzel	1556	Proctor	New Martinsville	New Martinsville	39.705366	-80.77422	519355.1	4395080.9

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_
4710301556	1/22/1905	Original Loc	Completed	Marra Parsons	659					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
4710301556	1/22/1905	--/--	1060	Topo Estimation	Cameron-Garner	Gordon	Gordon	unclassified	unclassified	Gas	unknown	unknown	2875	2875		2875

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4710301556	1/22/1905	Pay	Gas	Vertical	2760	Gordon	2785	Gordon	2360	0			

There is no Production Gas data for this well

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

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

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4710301556	Original Loc	Gordon	Well Record	2760	Reasonable	25	Reasonable	1060	Topo Estimation

WV Geological & Economic Survey:

Well: County = 103 Permit = 71603

Report Time: Wednesday, October 20, 2021 11:34:20 AM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4710371603	Wetzel	71603	Proctor	New Martinsville	New Martinsville	39.709729	-80.779468	518904	4395564

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_
4710371603	--/--	unknown	Prpby Map	F M Parsons	1241					----- 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
4710371603	--/--	--/--						unclassified	unclassified	not available	unknown	unknown						

WV Geological & Economic Survey:

Well: County = 103 Permit = 71605

Report Time: Wednesday, October 20, 2021 11:34:32 AM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX	DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4710371605	Wetzel	71605	Proctor	New Martinsville	New Martinsville	New Martinsville	39.703186	-80.774984	519291.9	4394838.8

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR	AT_COMPLETION	PROP_VD	PROP_IRGT_FM	TFM_EST.
4710371605	++	unknown	Pipky Map	Henry Garner	1263						unknown			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TYD	TMD	NEW_FTG	KOD	G_BEF	G_A
4710371605	++	++	++	++				unclassified	unclassified	not available	unknown	unknown						

RECEIVED
Office of Oil and Gas
JAN 26 2023
WV Department of
Environmental Protection



TUG HILL
OPERATING

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

Well Name: Jeffersons N-10HU

Pad Name: Jeffersons

County: Wetzel

UTM (meters), NAD83, Zone 17

Northing: 4,393,022.02

Easting: 519,708.80

**KEY CONTACT FOR WELL SITE SAFETY PLAN
DEVELOPMENT AND MAINTENANCE**

Jerry V. DeRosa, Director EH&S Affairs

(724) 338-2029 (office)

(412) 736-5767 (cellular)

24-HOUR EMERGENCY PHONE NUMBER

(800) 921-9745

RECEIVED
Office of Oil and Gas

JAN 26 2023

West Virginia Department of
Environmental Protection

05/26/2023
1/30/23

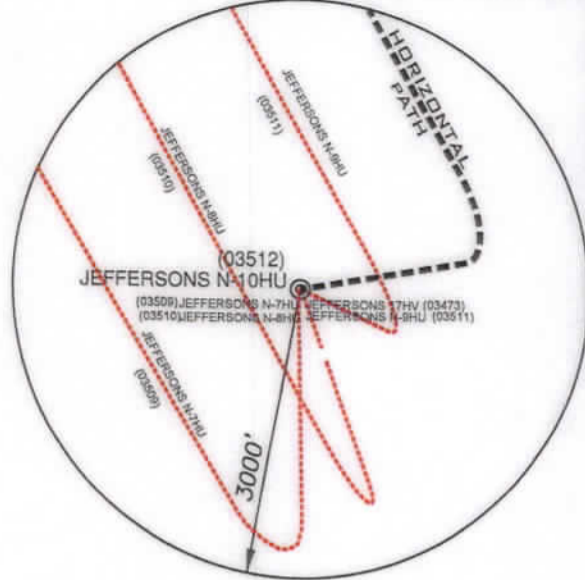
JEFFERSONS N-10HU
UTICA UNIT - 462.8862± ACRES
TUG HILL OPERATING

TOP HOLE LATITUDE: 39°42'30"
BOTTOM HOLE LATITUDE: 39°45'00"

INSET "B"



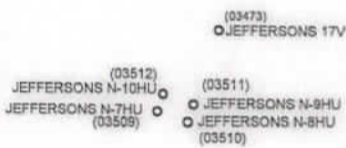
INSET "A"



(BH) BOTTOM HOLE LONGITUDE: 80°47'30"
(TH) TOP HOLE LONGITUDE: 80°45'00"

(+) 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...
3. OWNERSHIP TAKEN FROM PUBLIC RECORDS OF WETZEL COUNTY, WV...
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.



(BH)

SURFACE HOLE UTM. NAD83, ZONE 17 IN METERS N) 4,393,022.02 E) 519,708.80

LANDING POINT 1 UTM. NAD83, ZONE 17 IN METERS N) 4,393,390.14 E) 520,213.27

BOTTOM HOLE UTM. NAD83, ZONE 17 IN METERS N) 4,397,500.15 E) 517,825.11

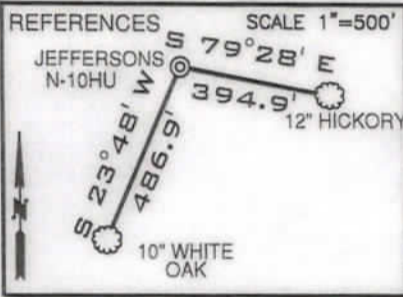


Table with 3 columns: LINE, BEARING, DISTANCE. Rows L1, L2, L3.

Table with 5 columns: CURVE, CHORD BEARING, CHORD LENGTH, RADIUS, ARC LENGTH. Rows C1, C2, C3, C4, C5.

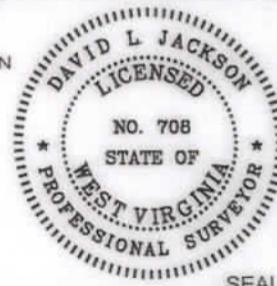
FILE NUMBER, DRAWING NUMBER, SCALE, MINIMUM DEGREE OF ACCURACY, PROVEN SOURCE OF ELEVATION.

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



DATE: FEBRUARY 01, 2023 OPERATORS WELL NO. JEFFERSONS N-10HU API WELL NO.

47-103-03512 STATE COUNTY PERMIT

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 ESTIMATED DEPTH TVD: 11,699' TMD: 27,901'

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

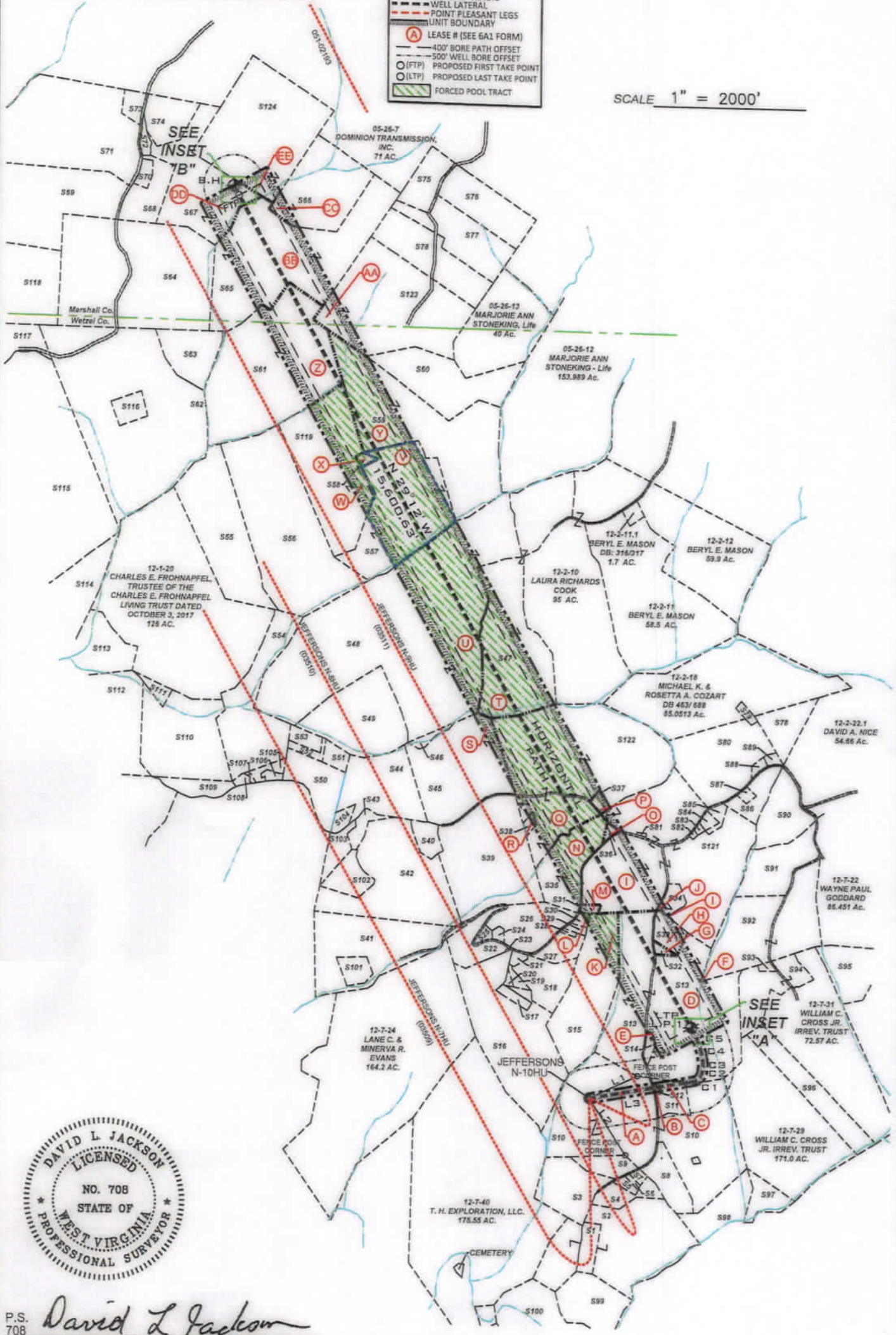
COUNTY NAME PERMIT

JEFFERSONS N-10HU UTICA UNIT - 462.8862± ACRES TUG HILL OPERATING

LEGEND


- LEASE TRACTS
- SURFACE TRACTS
- WELL LATERAL
- POINT PLEASANT LEGS
- UNIT BOUNDARY
- (A) LEASE # (SEE GAL 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

 <p>TUG HILL OPERATING</p>	OPERATOR'S	WELL PLAT
	WELL #: JEFFERSONS N-10HU	PAGE 2 OF 4
	DISTRICT: Proctor	DATE: 02/01/2023
	COUNTY: Wetzel	
	STATE: WV	
API #: 47-103-03512		

form ww6

**JEFFERSONS N-10HU
UTICA UNIT - 462.8862± 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	S12	12-7-43	Furbee Cemetery	1.11
C	S11	12-7-27.1	Edward H. & Joan E. Estep	6.718
D	S13	12-7-20	Jeffrey A. & Paula J. Gorby	104.72
E	S14	12-7-28	Palmer Cemetery	0.98
F	S92	12-7-21	Alena R. & Michael J. Fayad, III	58
G	S32	12-7-20.2	Peter R. Tamborello & Annis E. Ponikvar	0.9
H	S33	12-7-20.1	Peter R. Tamborello & Annis E. Ponikvar	5.18
I	S121	12-7-7	T.H. Exploration, LLC.	117.27
J	S34	12-7-7.4	Charles Lee & Betty J. Huggins	4
K	S15	12-7-19	Jeffery S. Underwood & Velvet K. Parks	41.4
L	S30	12-7-18	Anthony M. & Elizabeth G. Parks	1
M	S31	12-7-7.6	William E. & Glenda E. Kaufman	1.55
N	S35	12-7-5	Matthew D. Arrick	20.37
O	S36	12-7-6	Stacy E. Briner	0.25
P	S37	12-7-51	Jean J. Eller	1.25
Q	S122	12-2-17	Randy F. Eller	97.75
R	S38	12-7-52	Brent J. & Sara L. Eller	10.25
S	S45	12-7-4	Rodney G. Eller	46.7
T	S47	12-2-9	Laura Richards Cook	77
U	S48	12-2-8	Laura Richards Cook	185.125
V	S57	12-2-4	Edith Salem & Lisa G. Larson	56.25
W	S119	12-2-3	Nelson M. & Mary D. Miller	51.72
X	S58	12-2-4.1	Tyrone Sultzbach & Richard Wolf	1
Y	S59	12-2-5	Clifford W. & Alberta B. Johnson	75.96
Z	S61	05-26-16	Heartwood Forestland Fund VII LP	82.5
AA	S123	05-26-15	Theresa H. Walton, as Trustee of the Robert D. & Bonnie L. Oliver Trust	69
BB	S65	05-26-17	Heartwood Forestland Fund VII LP	82.56
CC	S66	05-26-6	Heartwood Forestland Fund VII LP	36.17
DD	S67	05-26-4.4	Otis F. & Glenda M. Rush	39.436
EE	S124	05-26-05	Michael J. Wiley, Et Al	65

* FORCED POOLED TRACTS ARE HIGHLIGHTED

Number	Tax Map -Parcel	Adjoining Parcels Ownership Table	Acres
51	12-7-44.1	James Foster	5.054
52	12-7-44	Yonsell Jay Eller III & Jennifer Lynn Eller	15.06
53	12-7-42.4	Peggy Lou & Albert Cecil - U/E Steven Mark Cecil, Et Al	17.333
54	12-7-42.5	James D. Furbee, II	6.43
55	12-7-42.2	April Fulgharty	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
516	12-7-26	T.H. Exploration, LLC.	59.89
517	12-7-26.1	Colby Dean Sidenstricker	2.01
518	12-7-17	Jeffery S. Underwood & Velvet K. Parks	13.43
519	12-7-17.2	T.H. Exploration, LLC.	1.29
520	12-7-17.1	T.H. Exploration, LLC.	0.521
521	12-7-16	Grant & Jennifer Throckmorton	1.1
522	12-7-15	Rost Energy Company, Inc.	22.63
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
526	12-7-15.1	Billy Sweeney	10.72
527	12-7-15.6	Jeffery S. Underwood & Velvet K. Parks	5.923
528	12-7-15.5	Jimmy L. & Sharon Sue Colvin	0.46
529	12-7-15.4	Jimmy L. & Sharon Sue Colvin	0.97
530	12-7-4.1	Robert Joseph Coleman	55.81
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	3.53
544	12-7-3.2	Lisa M. Haegele	28.47
546	12-7-8.1	Friend W. Parsons	0.5
549	12-2-16	Laura Lee Richards Cook	33
550	12-2-7	Jeremy W. & Shannon E. Heddison	19.8
551	12-2-15.1	Vivian A. Parsons, Et Al	3
552	12-2-15.2	Charles Phillip Parsons	2
553	12-2-15	Charles Phillip Parsons	3
554	12-2-7	John D. Annah	44.5
555	12-2-1	Roy Yoho	49
556	12-2-2	Ruby Wood, Et Al	82
560	12-2-6	Clifford W. & Alberta B. Johnson	36
562	12-01-40	Mark W. Booth, Maggie Ann Rockwell & George E. Booth, Jr.	117
563	12-2-24	Maggie Ann Rockwell, Mark W. Booth & George E. Booth, Jr.	13.1
564	05-26-18	Eric Jay Booth	94
568	05-26-4.1	Otis S. Rush, Et Ux	12.188
569	05-26-19	Lois F. Booth & Eric Jay Booth	50
570	05-26-4.3	Crystal & Randolph F. Matask	2.253
571	05-26-4.5	Eric Jay Booth	74.388
572	05-26-4.2	Otis S. Rush, et ux	1.58
573	05-26-4	James R. & Melody A. Anderson	3.887
574	05-26-4.6	Otis F. Rush Jr.	12.268
575	05-26-23	Richard Joseph Otte	11.34
576	05-26-9	Theresa H. Walton, as Trustee of The Robert D. & Bonnie L. Oliver Trust	21.75
577	05-26-10	Theresa H. Walton, as Trustee of The Robert D. & Bonnie L. Oliver Trust	24.94
578	05-26-34	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	12-7-20.1	Shirley L. & Kenneth L. Haught	1
589	12-2-20.2	Michael K. Cozart	1.025
590	12-7-9.1	James T. Eddy	17.47
591	12-7-9	Michael J. & Alena R. Fayad	22.526
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 - U/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. Bilts	8.253
S103	12-7-3.5	Robert Joseph Coleman	5.422
S104	12-7-3.1	Jeremy W. & Shannon E. Heddison	2.99
S105	12-7-57	John D. & Deborah L. Annah	2.33
S106	12-7-58	John D. & Deborah L. Annah	1.03
S107	12-7-56	Staria K. Richmond	0.3
S108	12-7-1	Tamara & William J. Wetzel	1
S109	12-6-52	John D. & Deborah L. Annah	6.46
S110	12-1-34	John D. & Deborah L. Annah	38
S111	12-1-34.1	Herbert Parsons & Virginia Yoho Roy	2
S112	12-1-32	Baxter Farms, 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	05/26/2023
S118	05-27-24	Robert F. Rothlisberger	60.1
S120		Midcap School	



P.S. 708 *David L Jackson*



OPERATOR'S
WELL #: JEFFERSONS N-10HU
DISTRICT: Proctor
COUNTY: Wetzel
STATE: WV
API #: 47-103-03512

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

form 996

**JEFFERSONS N-10HU
 UTICA UNIT - 462.8862± 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	12-7-43	B	EDWARD H ESTEP AND JOAN E ESTEP	129A	671
10*22042	12-7-27.1	C	EDWARD H ESTEP AND JOAN E ESTEP	210A	205
10*28422	12-7-20	D	COVESTRO LLC, ET AL	236A	577
10*28422	12-7-28	E	COVESTRO LLC, ET AL	236A	577
FORCE POOL	12-7-21	F	April D. Amrhein, ET AL	NA	NA
10*28422	12-7-20.2	G	COVESTRO LLC, ET AL	236A	577
10*28422	12-7-20.1	H	COVESTRO LLC, ET AL	236A	577
10*21510	12-7-7	I	BARBARA A SPRAGUE	197A	894
10*29090	12-7-7.4	J	CHARLES LEE HUGGINS AND BETTY JEAN HUGGINS	240A	460
FORCE POOL	12-7-19	K	BETTY WATSON HALL, ET AL	234A	362
FORCE POOL	12-7-18	L	TAMELA P WOOD AND JAMES G WOOD	NA	NA
10*21510	12-7-7.6	M	BARBARA A SPRAGUE	197A	894
FORCE POOL	12-7-5	N	ALLEN STEWART, ET AL	215A	809
10*23938	12-7-6	O	STACY E BRINER	215A	406
FORCE POOL	12-7-51	P	ALLEN STEWART, ET AL	215A	315
FORCE POOL	12-2-17	Q	ALLEN STEWART, ET AL	215A	315
FORCE POOL	12-7-52	R	ALLEN STEWART, ET AL	215A	315
FORCE POOL	12-7-4	S	BARBARA A EDDY, ET AL	173A	497
FORCE POOL	12-2-9	T	AARON DAVIS, ET AL	143A	517
FORCE POOL	12-2-8	U	AARON DAVIS, ET AL	143A	517
10*31102	12-2-4	V	JACKSON YOHO	56	240
10*31102	12-2-3	W	JACKSON YOHO	56	240
10*31102	12-2-4.1	X	JACKSON YOHO	56	240
FORCE POOL	12-2-5	Y	BETTY J FLANAGAN FKA BETTY J ECKLES, ET AL	176A	429
10*22286	5-26-16	Z	VENABLE ROYALTY LTD A TEXAS LIMITED PARTNERSHIP, ET AL	926	133
10*22341	5-26-15	AA	ROBERT D & BONNIE L OLIVER FAMILY TRUST THERESA A	965	488
10*22286	5-26-17	BB	VENABLE ROYALTY LTD A TEXAS LIMITED PARTNERSHIP, ET AL	926	133
10*22286	5-26-6	CC	VENABLE ROYALTY LTD AND VENRO LTD	926	133
10*17137	5-26-4.4	DD	MARK E SMITH AND VALERIE SMITH LIFE TENANT, ET AL	685	521
10*14742	5-26-5	EE	SUSAN E GORE, ET AL	790	505



P.S. 708

David L Jackson

05/26/2023



TUG HILL
 OPERATING

OPERATOR'S
 WELL #: JEFFERSONS N-10HU
 DISTRICT: Proctor
 COUNTY: Wetzel
 STATE: WV
 API #: 47-103-03512

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
----------------------	-----------------------	-----------------------	---------	-----------

*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.	ROYALTY	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	12-7-43	B	EDWARD H ESTEP AND JOAN E ESTEP	STONE ENERGY CORPORATION	1/8+	129A 671	Stone Energy Corp to EQT Production Company: 183A/305									
10*22042	12-7-27.1	C	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	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	12-7-20	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	12-7-20	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
10*21510	12-7-7	I	BARBARA A SPRAGUE	TH EXPLORATION LLC	1/8+	197A 894	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	N	ALLEN STEWART	EQT PRODUCTION COMPANY	1/8+	215A 809										
FORCE POOL	12-7-5	N	BEVERLY LYNN JOHNSON HUNTER	EQT PRODUCTION COMPANY	1/8+	215A 553										
FORCE POOL	12-7-5	N	JANICE L NAGDON	EQT PRODUCTION COMPANY	1/8+	2015A 309										
FORCE POOL	12-7-5	N	NANCY RITZ AKA NANCY BLAIR RITZ	EQT PRODUCTION COMPANY	1/8+	217A 941										
FORCE POOL	12-7-5	N	RONALD STEWART	STONE ENERGY CORPORATION	1/8+	166A 386	Stone Energy Corp to EQT Production Company: 183A/305									
PENDING	12-7-5	N	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
FORCE POOL	12-2-17	Q	ALLEN STEWART	EQT PRODUCTION COMPANY	1/8+	215A 315										
FORCE POOL	12-2-17	Q	BEVERLY LYNN JOHNSON HUNTER	EQT PRODUCTION COMPANY	1/8+	215A 814										
FORCE POOL	12-2-17	Q	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	12-2-17	Q	DEBRA FROHNAPFEL	EQT PRODUCTION COMPANY	1/8+	216A 234										
FORCE POOL	12-2-17	Q	GEORGE H BOHRER JR	EQT PRODUCTION COMPANY	1/8+	224A 262										
FORCE POOL	12-2-17	Q	JANICE LANGDON	EQT PRODUCTION COMPANY	1/8+	215A 304										
FORCE POOL	12-2-17	Q	KIM HONAKER	EQT PRODUCTION COMPANY	1/8+	216A 246										
FORCE POOL	12-2-17	Q	MICHAEL DUGAS AKA MIKE DUGAS	STONE ENERGY CORPORATION	1/8+	217A 578	Stone Energy Corp to EQT Production Company: 183A/305									
FORCE POOL	12-2-17	Q	MICHELLE DUGAS	EQT PRODUCTION COMPANY	1/8+	217A 572										
FORCE POOL	12-2-17	Q	NANCY RITZ AKA NANCY BLAIR RITZ	EQT PRODUCTION COMPANY	1/8+	217A 581										
FORCE POOL	12-2-17	Q	PAUL EUGENE EMCH	EQT PRODUCTION COMPANY	1/8+	214A 883										
FORCE POOL	12-2-17	Q	REBECCA KLUG	EQT PRODUCTION COMPANY	1/8+	216A 242										
FORCE POOL	12-2-17	Q	ROBERTA THOMAS	EQT PRODUCTION COMPANY	1/8+	145A 870										
FORCE POOL	12-2-17	Q	RONALD STEWART	STONE ENERGY CORPORATION	1/8+	166A 380	Stone Energy Corp to EQT Production Company: 183A/305									
FORCE POOL	12-2-17	Q	VICKY NOHRER BY DEBRA FROHNAPFEL, AGENT AND AIF	EQT PRODUCTION COMPANY	1/8+	216A 238										
FORCE POOL	12-2-17	Q	ROBERT W BOHRER	EQT PRODUCTION COMPANY	1/8+	147A 266										
FORCE POOL	12-2-17	Q	CRYSTAL YOUNG	UNLEASED	NA	NA NA										
10*21701	12-2-17	Q	FRITZ 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
10*22573	12-2-17	Q	PAUL YOHO AND MARY CONSTANCE 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
10*22578	12-2-17	Q	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
10*23329	12-2-17	Q	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	Q	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	Q	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	Q	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	Q	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	Q	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	Q	ROBERT F ROTHUISBERGER	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	Q	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	Q	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	Q	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	Q	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	Q	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	Q	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	Q	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

LEASE ID	TMP	TAG	GRANTOR, LESSOR, ETC.	GRANTEE, LESSEE, ETC.	ROYALTY	DEED BOOK/PAGE	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	
10*27523	12-2-17	Q	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	Q	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	Q	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	Q	CHARLES KEINT 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	Q	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	12-2-9	T	AARON DAVIS	STONE ENERGY CORPORATION	1/8+	143A 517	Stone Energy Corp to EQT Production Company: 183A/305									**FORCE POOL**	
FORCE POOL	12-2-9	T	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	12-2-9	T	ALICE J PRATKO	STONE ENERGY CORPORATION	1/8+	144A 892	Stone Energy Corp to EQT Production Company: 183A/305										**FORCE POOL**
FORCE POOL	12-2-9	T	AMANDA SPONAUGLE	STONE ENERGY CORPORATION	1/8+	144A 317	Stone Energy Corp to EQT Production Company: 183A/305										**FORCE POOL**
FORCE POOL	12-2-9	T	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	12-2-9	T	DOROTHY JOANNE HAAS	EQT PRODUCTION COMPANY	1/8+	212A 861											**FORCE POOL**
FORCE POOL	12-2-9	T	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	12-2-9	T	KATHERINE J MCGUANE	STONE ENERGY CORPORATION	1/8+	143A 505	Stone Energy Corp to EQT Production Company: 183A/305										**FORCE POOL**
FORCE POOL	12-2-9	T	ROBERT D NOLAN AND VICTORIA DEE NOLAN	STONE ENERGY CORPORATION	1/8+	144A 319	Stone Energy Corp to EQT Production Company: 183A/305										**FORCE POOL**
FORCE POOL	12-2-9	T	ROY YOHO AND DARLENE YOHO	STONE ENERGY CORPORATION	1/8+	144A 323	Stone Energy Corp to EQT Production Company: 183A/305										**FORCE POOL**
10*18336	12-2-9	T	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	12-2-9	T	VANITA AND CORDOVA HOLDING COMPANY C/O WILLIAM	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	12-2-9	T	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*22229	12-2-9	T	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	12-2-9	T	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*22386	12-2-9	T	HAMMETT LAND & MINERALS LLC SAMUEL C HAMMETT M	TH EXPLORATION LLC	1/8+	204A 186	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23007	12-2-9	T	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	12-2-9	T	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	12-2-9	T	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	12-2-9	T	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*24148	12-2-9	T	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	12-2-9	T	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*24472	12-2-9	T	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*24620	12-2-9	T	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	12-2-9	T	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*24683	12-2-9	T	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*40391	12-2-9	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
10*24732	12-2-9	T	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	12-2-9	T	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	12-2-9	T	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	12-2-9	T	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	12-2-9	T	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	12-2-9	T	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*29243	12-2-9	T	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	12-2-9	T	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*39899	12-2-9	T	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	12-2-9	T	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	12-2-9	T	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*41089	12-2-9	T	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	12-2-9	T	DENZIL FLOYD MASON	UNLEASED	NA	NA NA											**FORCE POOL**
FORCE POOL	12-2-9	T	BILLIE MASON SULLIVAN	UNLEASED	NA	NA NA											**FORCE POOL**
FORCE POOL	12-2-8	U	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	U	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	U	AMANDA SPONAUGLE	STONE ENERGY CORPORATION	1/8+	144A 317	Stone Energy Corp to EQT Production Company: 183A/305										**FORCE POOL**

LEASE ID	TMP	TAG	GRANTOR, LESSOR, ETC.	GRANTEE, LESSEE, ETC.	ROYALTY	DEED BOOK/PAGE	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	
FORCE POOL	12-2-8	U	CARRIE ELLEN MORSE	EQT PRODUCTION COMPANY	1/8+	219A 241												**FORCE POOL**
FORCE POOL	12-2-8	U	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	U	DOROTHY JOANNE HAAS	EQT PRODUCTION COMPANY	1/8+	212A 861												**FORCE POOL**
FORCE POOL	12-2-8	U	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	U	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	U	JO ANDERSON COMBS	EQT PRODUCTION COMPANY	1/8+	219A 237												**FORCE POOL**
FORCE POOL	12-2-8	U	JOHN PHILLIP HOWSER	EQT PRODUCTION COMPANY	1/8+	219A 234												**FORCE POOL**
FORCE POOL	12-2-8	U	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	U	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	U	LENORA S SHELTON	ANTERO RESOURCES CORPORATION	1/8+	175A 527	Antero Resources Corporation to EQT Production Company: 231A/22											**FORCE POOL**
FORCE POOL	12-2-8	U	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	U	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	U	ROY YOHO AND DARLENE YOHO	STONE ENERGY CORPORATION	1/8+	144A 323	Stone Energy Corp to EQT Production Company: 183A/305											**FORCE POOL**
10*18336	12-2-8	U	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*18556	12-2-8	U	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	N/A
10*22219	12-2-8	U	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	N/A
10*22225	12-2-8	U	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	N/A
10*22229	12-2-8	U	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	U	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	U	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*23266	12-2-8	U	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	N/A
10*23512	12-2-8	U	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	U	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*24100	12-2-8	U	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	U	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*24376	12-2-8	U	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	N/A
10*24620	12-2-8	U	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	N/A
10*24683	12-2-8	U	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	N/A
10*24732	12-2-8	U	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	N/A
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
10*24754	12-2-8	U	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	N/A
10*24755	12-2-8	U	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	N/A
10*24755	12-2-8	U	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	N/A
10*25013	12-2-8	U	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	N/A
10*25014	12-2-8	U	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	N/A
10*25014	12-2-8	U	RICHARD JOSEPH MASON AND VICKY ANN MASON	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	N/A
10*25314	12-2-8	U	LISA SUTPHIN	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	N/A
10*25359	12-2-8	U	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	N/A
10*25720	12-2-8	U	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	N/A
10*26574	12-2-8	U	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	N/A
10*26575	12-2-8	U	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	N/A
10*26942	12-2-8	U	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	N/A
10*27146	12-2-8	U	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	N/A
10*27149	12-2-8	U	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	N/A
10*27310	12-2-8	U	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	N/A	N/A
10*28421	12-2-8	U	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	N/A

LEASE ID	TMP	TAG	GRANTOR, LESSOR, ETC.	GRANTEE, LESSEE, ETC.	ROYALTY	DEED BOOK/PAGE	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	
10*29189	12-2-8	U	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	U	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	U	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	U	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	U	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	U	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	U	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	U	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	U	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	U	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	U	JEFFREY MCGLONE	UNLEASED	NA	NA NA											**FORCE POOL**
FORCE POOL	12-2-8	U	JOHN R WARSINSKY	UNLEASED	NA	NA NA											**FORCE POOL**
FORCE POOL	12-2-8	U	KELLY MCGLONE	UNLEASED	NA	NA NA											**FORCE POOL**
FORCE POOL	12-2-8	U	KENNETH PARSONS	UNLEASED	NA	NA NA											**FORCE POOL**
FORCE POOL	12-2-8	U	PAM ISOM	UNLEASED	NA	NA NA											**FORCE POOL**
FORCE POOL	12-2-8	U	REBECCA ANTIUBUS AKA REBECCA HARRELL	UNLEASED	NA	NA NA											**FORCE POOL**
FORCE POOL	12-2-8	U	ROBERT D NOLAN AND VICTORIA DEE NOLAN	UNLEASED	NA	NA NA											**FORCE POOL**
FORCE POOL	12-2-8	U	SHANNON HEMINGWAY	UNLEASED	NA	NA NA											**FORCE POOL**
FORCE POOL	12-2-8	U	STEVEN MCGLONE	UNLEASED	NA	NA NA											**FORCE POOL**
FORCE POOL	12-2-8	U	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	U	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	U	AMANDA SPONAUIGLE	STONE ENERGY CORPORATION	1/8+	144A 317	Stone Energy Corp to EQT Production Company: 183A/305										**FORCE POOL**
FORCE POOL	12-2-8	U	CARRIE ELLEN MORSE	EQT PRODUCTION COMPANY	1/8+	219A 241											**FORCE POOL**
FORCE POOL	12-2-8	U	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	U	DOROTHY JOANNE HAAS	EQT PRODUCTION COMPANY	1/8+	212A 861											**FORCE POOL**
FORCE POOL	12-2-8	U	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	U	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	U	JO ANDERSON COMBS	EQT PRODUCTION COMPANY	1/8+	219A 237											**FORCE POOL**
FORCE POOL	12-2-8	U	JOHN PHILLIP HOWSER	EQT PRODUCTION COMPANY	1/8+	219A 234											**FORCE POOL**
FORCE POOL	12-2-8	U	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	U	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	U	LENORA S SHELTON	ANTERO RESOURCES CORPORATION	1/8+	175A 527	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
FORCE POOL	12-2-8	U	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	U	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	U	ROY YOHO AND DARLENE YOHO	STONE ENERGY CORPORATION	1/8+	144A 323	Stone Energy Corp to EQT Production Company: 183A/305										**FORCE POOL**
10*18396	12-2-8	U	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	U	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	U	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	U	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	U	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

LEASE ID	TMP	TAG	GRANTOR, LESSOR, ETC.	GRANTEE, LESSEE, ETC.	ROYALTY	DEED BOOK/PAGE	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
10*22230	12-2-8	U	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	U	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	U	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	U	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	U	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	U	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	U	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	U	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	U	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	U	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	U	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*40391	12-2-8	U	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
10*24754	12-2-8	U	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	U	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	U	KENNETH WAYNE MASON AND IANA 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	U	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	U	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*25314	12-2-8	U	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*25359	12-2-8	U	MASON A BEGLEY AND DENINA M 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*25720	12-2-8	U	CATHRA LYNN BEGLEY	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*26574	12-2-8	U	JACQUELINE R KOSKI	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*26575	12-2-8	U	ALANNA L HAMILTON	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*26942	12-2-8	U	SHERRY L FEE	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*27146	12-2-8	U	JULIE P SIMMONS AND DOUGLAS A SIMMONS	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*27149	12-2-8	U	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	U	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	N/A
10*28421	12-2-8	U	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*29189	12-2-8	U	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	U	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	U	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	U	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*29327	12-2-8	U	MICHAEL V PARSONS AND LINDA D PARSONS	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*39899	12-2-8	U	EDWARD A BROOME	TH EXPLORATION LLC	1/8+	282A 485	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	U	STONE HILL MINERALS HOLDINGS LLC	TH EXPLORATION LLC	1/8+	282A 485	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	U	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	U	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*41089	12-2-8	U	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	U	BILLIE MASON SULLIVAN	UNLEASED	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FORCE POOL	12-2-8	U	DENZIL FLOYD MASON	UNLEASED	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FORCE POOL	12-2-8	U	JEFFREY MCGLONE	UNLEASED	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FORCE POOL	12-2-8	U	JOHN R WARSINSKY	UNLEASED	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FORCE POOL	12-2-8	U	KELLY MCGLONE	UNLEASED	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FORCE POOL	12-2-8	U	KENNETH PARSONS	UNLEASED	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FORCE POOL	12-2-8	U	PAM ISOM	UNLEASED	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FORCE POOL	12-2-8	U	REBECCA ANTIBUS AKA REBECCA HARRELL	UNLEASED	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FORCE POOL	12-2-8	U	ROBERT D NOLAN AND VICTORIA DEE NOLAN	UNLEASED	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FORCE POOL	12-2-8	U	SHANNON HEMINGWAY	UNLEASED	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FORCE POOL	12-2-8	U	STEVEN MCGLONE	UNLEASED	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10*31102	12-2-4	V	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	W	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 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	
FORCE POOL	12-2-5	Y	BETTY J FLANAGAN FKA BETTY J ECKLES	ANTERO RESOURCES CORPORATION	1/8+	176A 429	Antero Resources Corporation to EQT Production Company: 231A/22					**FORCE POOL**					
FORCE POOL	12-2-5	Y	BONNIE JEAN BOLDEN	ANTERO RESOURCES CORPORATION	1/8+	186A 880	Antero Resources Corporation to EQT Production Company: 231A/22					**FORCE POOL**					
FORCE POOL	12-2-5	Y	CHARLES R MYERS	ANTERO RESOURCES CORPORATION	1/8+	175A 491	Antero Resources Corporation to EQT Production Company: 231A/22					**FORCE POOL**					

LEASE ID	TMP	TAG	GRANTOR, LESSOR, ETC.	GRANTEE, LESSEE, ETC.	ROYALTY	DEED BOOK/PAGE	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	
FORCE POOL	12-2-5	Y	CLAUDIA R SCHEEHLE	ANTERO RESOURCES CORPORATION	1/8+	175A 497	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
FORCE POOL	12-2-5	Y	CLIFFORD W JOHNSON AND ALBERTA B JOHNSON	STONE ENERGY CORPORATION	1/8+	156A 501	Stone Energy Corp to EQT Production Company: 183A/305										**FORCE POOL**
FORCE POOL	12-2-5	Y	HERBERT D MINOR	ANTERO RESOURCES CORPORATION	1/8+	170A 420	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
FORCE POOL	12-2-5	Y	PATRICIA JEAN ECKLES	ANTERO RESOURCES CORPORATION	1/8+	176A 425	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
FORCE POOL	12-2-5	Y	RICHARD S WHITE II	ANTERO RESOURCES CORPORATION	1/8+	175A 501	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
FORCE POOL	12-2-5	Y	RUTH ANN SHINGLETON FKA RUTH ANN ECKLES	ANTERO RESOURCES CORPORATION	1/8+	176A 465	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
FORCE POOL	12-2-5	Y	SHARON E YOHO	ANTERO RESOURCES CORPORATION	1/8+	175A 505	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
FORCE POOL	12-2-5	Y	SHARON SUE ANDREWS	ANTERO RESOURCES CORPORATION	1/8+	186A 577	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
FORCE POOL	12-2-5	Y	SHIRLEY DORSEY	ANTERO RESOURCES CORPORATION	1/8+	175A 487	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
FORCE POOL	12-2-5	Y	SHIRLEY K WHITE	ANTERO RESOURCES CORPORATION	1/8+	175A 503	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
FORCE POOL	12-2-5	Y	VICKI LYNN BOLDEN	ANTERO RESOURCES CORPORATION	1/8+	186A 883	Antero Resources Corporation to EQT Production Company: 231A/22										**FORCE POOL**
FORCE POOL	12-2-5	Y	THOMAS L ICEMAN	UNLEASED	NA	NA NA											**FORCE POOL**
FORCE POOL	12-2-5	Y	SUE M SCHAAD	UNLEASED	NA	NA NA											**FORCE POOL**
FORCE POOL	12-2-5	Y	VIRGINIA ANN HAHN	UNLEASED	NA	NA NA											**FORCE POOL**
FORCE POOL	12-2-5	Y	XTO ENERGY INC	UNLEASED	NA	NA NA											**FORCE POOL**
10*21697	12-2-5	Y	CONNIE SIMS	TH EXPLORATION LLC	1/8+	214A 364	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*22217	12-2-5	Y	NANCY SELLERS	TH EXPLORATION LLC	1/8+	202A 790	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*22220	12-2-5	Y	HAROLD E SELLERS	TH EXPLORATION LLC	1/8+	202A 786	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*22231	12-2-5	Y	MARILYN SLATER	TH EXPLORATION LLC	1/8+	204A 144	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*22569	12-2-5	Y	PATRICIA M LEOHR	TH EXPLORATION LLC	1/8+	208A 426	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*22716	12-2-5	Y	SALLY BROKKEN AND TOM BROKKEN	TH EXPLORATION LLC	1/8+	209A 210	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23038	12-2-5	Y	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	N/A
10*23044	12-2-5	Y	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	N/A
10*23045	12-2-5	Y	JAMES A MAIBACH & MELISSA F MAIBACH	TH EXPLORATION LLC	1/8+	204A 158	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23344	12-2-5	Y	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	N/A
10*23346	12-2-5	Y	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	N/A
10*24021	12-2-5	Y	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	N/A
10*24081	12-2-5	Y	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	N/A
10*24318	12-2-5	Y	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	N/A
10*24356	12-2-5	Y	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	N/A
10*30216	12-2-5	Y	STONE HILL MINERALS HOLDINGS LLC	TH EXPLORATION LLC	1/8+	254A 335	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*22286	5-26-16	Z	VENABLE ROYALTY LTD A TEXAS LIMITED PARTNERSHIP	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	5-26-16	Z	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

LEASE ID	TMP	TAG	GRANTOR, LESSOR, ETC.	GRANTEE, LESSEE, ETC.	ROYALTY	DEED BOOK/PAGE	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	
10*23094	5-26-16	Z	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	5-26-16	Z	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	5-26-16	Z	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	5-26-16	Z	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	5-26-16	Z	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*22286	5-26-17	BB	VENABLE ROYALTY LTD A TEXAS LIMITED PARTNERSHIP	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	BB	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	BB	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	BB	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	BB	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	BB	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	BB	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*17137	5-26-4.4	DD	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 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
10*17153	5-26-4.4	DD	ALLEN SMITH & BARBARA SMITH REMAINDERMAN	CHESAPEAKE APPALACHIA LLC	1/8+	687 46	N/A	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



January 24, 2023

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

RE: Jeffersons N-10HU

Subject: Proposed Voluntary Pooling and Unitization

Dear Susan:

Tug Hill Operating, LLC is authorized through, either lease or other agreement, to unitize and pool all lands falling within the boundaries of the proposed voluntary unit included with this submission, except

12-2-17	12-7-19
12-2-5	12-7-21
12-2-6	12-7-4
12-2-8	12-7-5
12-2-9	12-7-51
12-7-18	12-7-52
12-2-3	12-2-4.1

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

Sincerely,

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

380 SOUTHPOINTE BLVD • SUITE 200 • CANONSBURG, PA 15317 • T 724.485-2000 • F
724.338.2030

05/26/2023

CERTIFICATE OF CONSENT AND EASEMENT

We, the undersigned, for valuable consideration, the receipt and sufficiency of which is hereby acknowledged, being all the owners of the surface of that certain lot, tract or parcel of land located in Proctor District, Wetzel County, State of West Virginia, shown on the attached plat or survey, hereby consents and grants an easement, pursuant to West Virginia Code, Section 22C-9-7(b)(4) and Operating Rule 4.4 of the Rules and Regulations of the West Virginia Oil and Gas Conservation Commission, to TH Exploration, LLC, its successors or assigns, for the drilling and operation of a deep well for the production of oil or gas at the location shown on the attached plat or survey.

Executed this 25 day of May, 2022.


Edward H. Estep


Joan E. Estep

STATE OF WEST VIRGINIA

SS:

COUNTY OF WETZEL

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

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



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

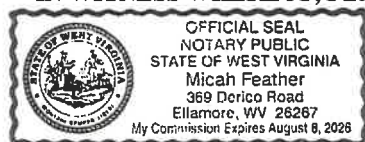
STATE OF WEST VIRGINIA

SS:

COUNTY OF WETZEL

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

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

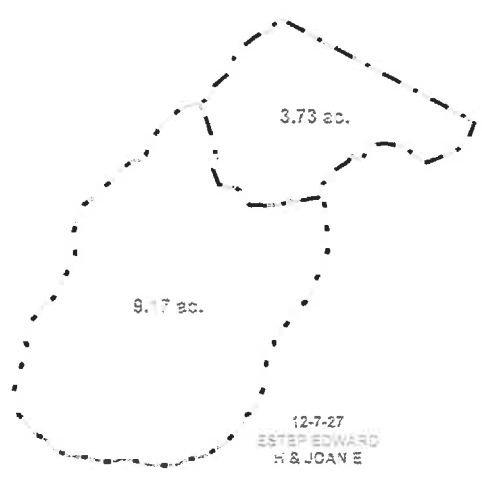


My Commission Expires: August 8, 2026
Signature/Notary Public: 
Name/Notary Public (print): Micah Feather

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

4838-2618-8605v2

05/26/2023



12-7-27
ESTEP EDWARD
H & JOAN E

Limit of Disturbance - Access Road
 Limit of Disturbance - Pad

1 inch: 333 feet

0 95 190 380
Feet

N

NOTE: UNLESS OTHERWISE SPECIFIED, THE LOCATION OF THE PROPERTY IS BASED ON THE LOCATION OF THE PROPERTY AS SHOWN ON THE PLAT. THE LOCATION OF THE PROPERTY IS NOT AN GUARANTEE OF THE LOCATION OF THE PROPERTY. THE LOCATION OF THE PROPERTY IS NOT AN GUARANTEE OF THE LOCATION OF THE PROPERTY. THE LOCATION OF THE PROPERTY IS NOT AN GUARANTEE OF THE LOCATION OF THE PROPERTY.

"PLAT"
Edward Estep
Marshall, WV

Date: _____

Name: _____

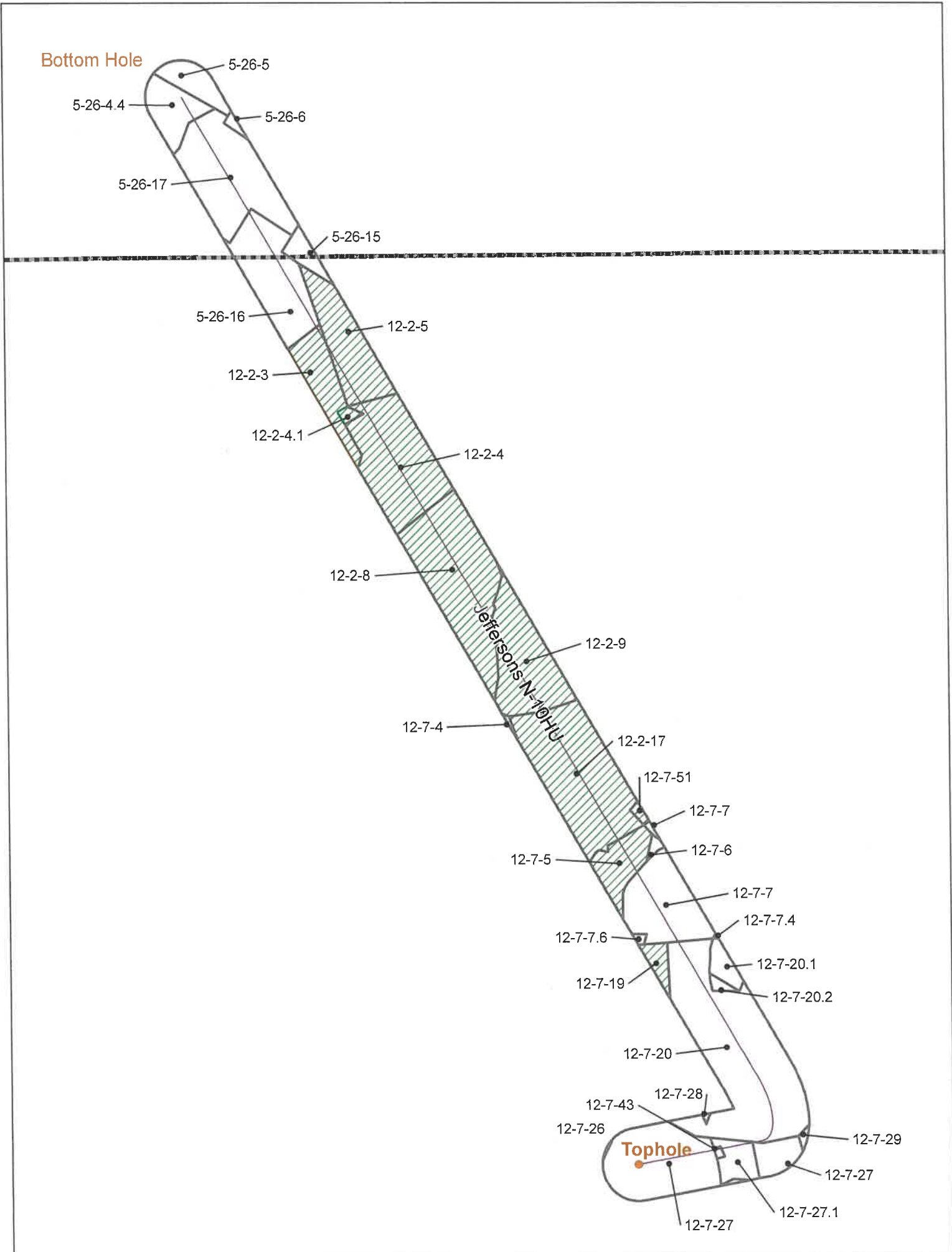
Name: _____



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




05/26/2023

Jeffersons N-10HU



Coordinate System: NAD 1983 UTM Zone 17N
 Projection: Transverse Mercator
 Datum: North American 1983
 Prime Meridian: 150.00000000000000
 False Northing: 0.0000
 False Easting: 600000.0000
 Scale Factor: 0.9996
 Meters of Origin: 0.0000
 Units: Feet US

CONFIDENTIAL

-  Utica Well
-  500' Buffer
-  Force Pool



Jeffersons N-10HU
 Operators within 500 Feet of Well Borehole



**Operators within 500' of Well Boreholes
Jefferson N - 10HU**

COUNTY	DISTRICT	TMP	MINERAL OWNER/LESSEE	ADDRESS
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	12-2-4.1	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
WETZEL	PROCTOR	12-2-5	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
WETZEL	PROCTOR	12-2-5	EQT PRODUCTION COMPANY	625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222
WETZEL	PROCTOR	12-2-5	THOMAS L ICEMAN	565 Baldwin Heights Circle Howard, OH 43028
WETZEL	PROCTOR	12-2-5	SUE M SCHAAD	455 Crestview Drive Lebanon, OH 45036
WETZEL	PROCTOR	12-2-5	VIRGINIA ANN HAHN	6536 Greenwich Road Westfield Center, OH 44251
WETZEL	PROCTOR	12-2-5	XTO ENERGY INC	22777 Springwoods Village Pkwy Spring, TX 77389
WETZEL	PROCTOR	12-2-8	EQT PRODUCTION COMPANY	625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222
WETZEL	PROCTOR	12-2-8	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
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 MCGLONE	2072 Farmview Drive Newtown, PA 18940
WETZEL	PROCTOR	12-2-8	JOHN R WARSINSKY	1436 Marshall Street S Benwood, WV 26031
WETZEL	PROCTOR	12-2-8	KELLY MCGLONE	2072 Farmview Drive Newtown, PA 18940
WETZEL	PROCTOR	12-2-8	KENNETH PARSONS	Missing
WETZEL	PROCTOR	12-2-8	PAM ISOM	71 Venable Road Annville, KY 40447
WETZEL	PROCTOR	12-2-8	REBECCA ANTIBUS AKA REBECCA HARRELL	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 MCGLONE	16015 S. 1st Street Phoenix, AZ 85048
WETZEL	PROCTOR	12-2-9	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
WETZEL	PROCTOR	12-2-9	EQT PRODUCTION COMPANY	625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222
WETZEL	PROCTOR	12-2-9	DENZIL FLOYD MASON	Missing
WETZEL	PROCTOR	12-2-9	BILLIE MASON SULLIVAN	Missing
WETZEL	PROCTOR	12-2-17	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107

05/26/2023

**Operators within 500' of Well Boreholes
Jefferson N - 10HU**

WETZEL	PROCTOR	12-2-17	EQT PRODUCTION COMPANY	625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222
WETZEL	PROCTOR	12-2-17	CRYSTAL YOUNG	128 Coral Drive Panama City Beach, FL 32413
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	12-7-5	EQT PRODUCTION COMPANY	625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222
WETZEL	PROCTOR	12-7-5	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
WETZEL	PROCTOR	12-7-6	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
WETZEL	PROCTOR	12-7-7	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
WETZEL	PROCTOR	12-7-7.4	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
WETZEL	PROCTOR	12-7-7.6	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
WETZEL	PROCTOR	12-7-19	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
WETZEL	PROCTOR	12-7-19	EQT PRODUCTION COMPANY	625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222
WETZEL	PROCTOR	12-7-19	CHARLES R STURGILLO	58 Royal Drive Kansas City, KS 66111
WETZEL	PROCTOR	12-7-19	HEIRS OF LAWRENCE R PALMER JR	Missing
WETZEL	PROCTOR	12-7-19	JOHN RICHARD NUZUM	2728 Cypress Street Columbia, SC 29205
WETZEL	PROCTOR	12-7-19	JOSHUA L STURGILLO	58 Royal Drive Kansas City, KS 66111
WETZEL	PROCTOR	12-7-19	ROBIN M GUYET	3411 Strong Avenue, Apt 2 Kansas City, KS 66106
WETZEL	PROCTOR	12-7-20	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
WETZEL	PROCTOR	12-7-20.1	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
WETZEL	PROCTOR	12-7-20.2	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

05/26/2023

**Operators within 500' of Well Boreholes
Jefferson N - 10HU**

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	12-7-28	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
WETZEL	PROCTOR	12-7-29	EQT PRODUCTION COMPANY	625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222
WETZEL	PROCTOR	12-7-29	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
WETZEL	PROCTOR	12-7-29	BILL ANTILL	3276 Warren Road, Apt 2 Cleveland, OH 44111
WETZEL	PROCTOR	12-7-29	CHARLOTTE S. BURGAN	7613 Wheat Fall Ct. Derwood, MD 20855-1168
WETZEL	PROCTOR	12-7-29	DAVIS FAMILY REVOCABLE TRUST DTD 2/22/1995	Missing
WETZEL	PROCTOR	12-7-29	DELORES P. ALLTOP DRAKE	Missing
WETZEL	PROCTOR	12-7-29	DOROTHY HAWKINS (IN TRUST)	Missing
WETZEL	PROCTOR	12-7-29	JAMES B. HAWKINS	18 Marlpit Place Middletown, NJ 07748
WETZEL	PROCTOR	12-7-29	JOHN HAFFER THAXTON	50 N Pinch Road Elkview, WV 25071
WETZEL	PROCTOR	12-7-29	JOYCE RHODES	8714 SW 60th Cir Ocala, FL 34476
WETZEL	PROCTOR	12-7-29	KATHERINE STROMBERG	34 Yorkshire Avenue West Milford, NJ 07480
WETZEL	PROCTOR	12-7-29	UNKNOWN HEIRS OF LARRY ANTILL	Missing
WETZEL	PROCTOR	12-7-29	LINDA RIVIERA	Missing
WETZEL	PROCTOR	12-7-29	LINDA RYBKOSKI	53710 Quimby Avenue Bridgeport, OH 43912
WETZEL	PROCTOR	12-7-29	LISA M. THAXTON DICKENS	48 Hafer Drive Elkview, WV 25071
WETZEL	PROCTOR	12-7-29	MARJORIE A. ALTMAN	2870 San Paeil Street Jacksonville, FL 32246
WETZEL	PROCTOR	12-7-29	MARY L. THAXTON	47 Hafer Drive Elkview, WV 25071
WETZEL	PROCTOR	12-7-29	ROBERT E. HAWKINS	534 Cascade Court Mahwah, NJ 07430
WETZEL	PROCTOR	12-7-29	SANDRA LEE EKELS	7373 Sherman Church Ave SW Lot 312 East Sparta, OH 44626 ----- 5361 Forest Park Drive North Fort Myers, FL 33917
WETZEL	PROCTOR	12-7-29	SARAH H. THAXTON	48 Hafer Drive Elkview, WV 25071
WETZEL	PROCTOR	12-7-29	SHAWN POULAIN	97 Glenwood Hts Mansfield, OH 44903

05/26/2023

**Operators within 500' of Well Boreholes
Jefferson N - 10HU**

WETZEL	PROCTOR	12-7-29	THE UNKNOWN HEIRS OF CARRIE HAFER LITTLE	MISSING
WETZEL	PROCTOR	12-7-29	THE UNKNOWN HEIRS OF EVA HAFER	MISSING
WETZEL	PROCTOR	12-7-29	TRUSTEE OF ST. ANDREW PRESBYTERIAN	246 S. Pinch Road Elkview, WV 25071
Wetzel	Proctor	12-7-43	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
WETZEL	PROCTOR	12-7-51	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
WETZEL	PROCTOR	12-7-51	EQT PRODUCTION COMPANY	625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222
WETZEL	PROCTOR	12-7-51	FRITZI L WADE	8920 Canyon Springs Drive Las Vegas, NV 89117
WETZEL	PROCTOR	12-7-51	CRYSTAL YOUNG	128 Coral Drive Panama City Beach, FL 32413
WETZEL	PROCTOR	12-7-51	KATHY MASON	102 Dewey Street Bainbridge, OH 45612
WETZEL	PROCTOR	12-7-51	JEREMY MASON	1636 Baum Hill Road Cillicothe, OH 45601
MARSHALL	FRANKLIN	5-26-4.4	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
MARSHALL	FRANKLIN	5-26-5	TH EXPLORATION II, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
MARSHALL	FRANKLIN	5-26-5	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
MARSHALL	FRANKLIN	5-26-6	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
MARSHALL	FRANKLIN	5-26-15	TH EXPLORATION, LLC	1320 S. University Blvd Suite 500 Fort Worth, TX 76107
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

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

05/26/2023