

#### 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

## Thursday, July 28, 2022 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 VAN WINKLE N-3HM

47-051-02366-00-00

Extended 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: VAN WINKLE N-3HM

Farm Name: XCL MIDSTREAM OPERATING, LLC

U.S. WELL NUMBER: 47-051-02366-00-00

Horizontal 6A New Drill

Date Modification Issued: 7/28/2022

Promoting a healthy environment.

#### MODIFICATION

API NO. 47- 051 - 02366

OPERATOR WELL NO. Van Winkle N-3HM

Well Pad Name: Hunter Pethtel

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

1) Well Opera	tor: Tug Hill Op	erating, LLC	494510851	Marshall	Meade	Glen Easton 7.5'
-2 01			Operator ID	County	District	Quadrangle
2) Operator's '	Well Number: Va	an Winkle N-3HI	M Well P	ad Name: Hur	ter Pethtel	
3) Farm Name	e/Surface Owner:	TH Exploration	, LLC Public Ro	oad Access: Co	ounty Route	÷ 74
<ul><li>4) Elevation, c</li><li>5) Well Type</li></ul>	current ground:  (a) Gas X Other	753' E	Elevation, propose Un	d post-construction derground Stor		
	(b)If Gas Sha	allow X	Deep	-		
6) Existing Page	d: Yes or No Yes		-			
	arget Formation(s		cipated Thickness pressure of approx. 3800 psi.	and Expected	Pressure(s):	
8) Proposed To	otal Vertical Dept	h: 6,253'				
9) Formation a	at Total Vertical D	epth: Ononda	ga			
10) Proposed T	Total Measured D	epth: 21,423'				
11) Proposed I	Horizontal Leg Le	ength: 14,375.0	03'			
12) Approxima	ate Fresh Water S	trata Depths:	70; 414'			
	Determine Fresh ate Saltwater Dep	The second	Based on the depth	of Pittsburgh Coa	l seam, per W	VGES mapping contours
15) Approxima	ate Coal Seam De	pths: Sewickley	/ Coal - 313' and	Pittsburgh Co	al - 408'	
16) Approxima	ate Depth to Possi	ble Void (coal m	nine, karst, other):	None anticip	ated	
	osed well locatior ing or adjacent to		Yes	N	o X	
(a) If Yes, pro	ovide Mine Info:	Name:				
		Depth:		13150		
		Seam:		Office of	EIVED Oil and Gas	
		Owner:		JUN 5	27 2022	
				WV Der Environme	partment of ntal Protection	

WW-6B (04/15) API NO. 47- 051 - 02366

OPERATOR WELL NO. Van Winkle N-3HM

Well Pad Name: Hunter Pethtel

18)

#### CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30"	NEW	BW	BW	120'	120'	259ft^3(CTS)
Fresh Water/Coal	13 3/8"	NEW	J55	54.5#	515'	515'	708ft^3(CTS)
Intermediate	9 5/8"	NEW	J55	36#	2,242'	2,242'	728ft^3(CTS)
Production	5 1/2"	NEW	P110	20#	21,423'	21,423'	5,458ft^3(CTS)
Tubing	2 3/8"	NEW	P110	4.7#		6,512'	
Liners							

MAK 3/29/2002

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	36"	1.0	2,333	1,866	CLASS A	1.2
Fresh Water/ Coal	13 3/8"	17 1/2"	.38	2,740	2,192	SEE #24	1.2
Intermediate	9 5/8"	12 1/4"	.352	3,520	2,816	SEE #24	1.19
Production	5 1/2"	8 7/8"_8 3/4"	.361	12,640	10,112	SEE #24	1.17/1.19
Tubing	2 3/8"		.19	11,200	8,960		
Liners						1	

#### **PACKERS**

Kind:	N/A	
Sizes:	N/A	
Depths Set:	N/A	

OPERATOR WELL NO. Van Winkle N-3HM

Well Pad Name: Hunter Pethtel

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

Drill through the Marcellus and TD Pilot Hole 100' into the Onondaga. Log vertical section and run a solid cement plug back to proposed KOP (6,012'). 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 36,000,000 lb proppant and 650,000 bbl of water. Max rate = 80 bpm; max psi = 9,000#.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 16.63 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 4.87 acres
- 23) Describe centralizer placement for each casing string:

Will run 3 centralizers on surface casing at equal distance. Intermediate 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.

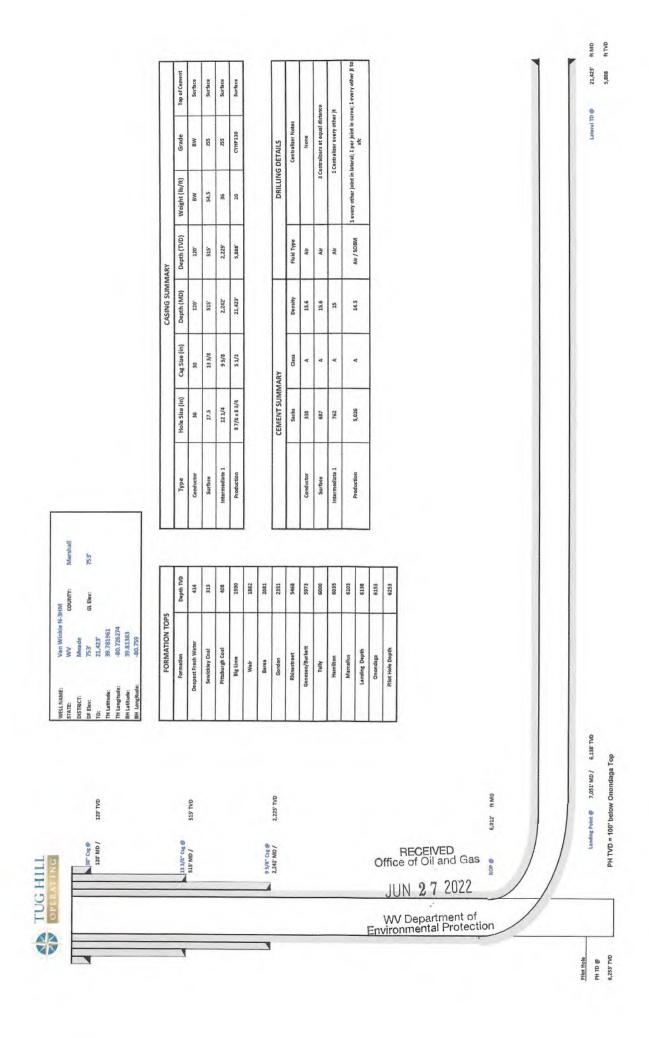
24) Describe all cement additives associated with each cement type:

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

<sup>\*</sup>Note: Attach additional sheets as needed.





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

#### Van Winkle N-3HM

#### Casing

	String	Grade	Bit Size	Depth (Measured)	Cement Fill Up
Conductor	30"	BW	36"	120'	CTS
Surface	13 3/8"	J55	17 1/2"	515'	CTS
Intermediate	9 5/8"	J55	12 1/4"	2,242'	CTS
Production	5 1/2"	CYHP110	8 7/8 x 8 3/4	21,423'	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: Premium NE-1 + 1% bwoc CaC12 + 46.5% Fresh Water – Intermediate Cement mixed at 15.6 ppg, Y=1.19

Kick Off Plug: Class H Cement + 1% CD-32 + .7% Sodium Metasilicate + .1% R-3 + .75 gal/100sk FP-13L - KOP Plug

50:50 Poz: Premium NE-1 + .1% bwoc ASA-301 + 60lb/sk ASCA-1 + .35% bwoc BA-10A + .25% bwoc MPA-170, Production: 44 lb sack + .5% bwoc R-3 + .75 gals/100sk FP-13L - Production Cement mixed at 15.2ppg, Y = 1.19

RECEIVED Office of Oil and Gas

JUN 27 2022

WV Department of Environmental Protection



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

Well Name: Van Winkle N-3HM

Dought J. 12022 Pad Name: Hunter Pethtel Pad

County: Marshall

UTM (meters), NAD83, Zone 17

Northing: 4,403,593.34

Easting: 523,439.30

## 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



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

LANDING POINT

**BOTTOM HOLE** 

N. 4,403,593.30

N. 4,403,325.8

N. 4,407,122.3

NAD'83 S.P.C.(FT) N. 469,282.04

NAD'83 S.P.C.(FT) N. 468,438.7

NAD'83 S.P.C.(FT) N. 481,016.5

NAD'83 GEO.

NAD'83 GEO. NAD'83 UTM (M)

NAD'83 GEO.

NAD'83 UTM (M)

T.H. LATITUDE 39°47'30' B.H. LATITUDE 39°50'00"

LAT-(N) 39.781961 LONG-(W) 80.726274

LAT-(N) 39.779568 LONG-(W) 80.733611

LAT-(N) 39.813830 LONG-(W) 80.759000

E. 523,439.33

E. 522,811.8

E. 1,614,849.4

E. 520,627.5

REFERENCES

VAN WINKLE N 3HM

### HUNTER PETHTEL LEASE VAN WINKLE N 3HM WELL TUG HILL OPERATING

PARCEL	SURFACE ADJOINER	ACRES
5-9-24	DENNIS P. CADMUS	21 AC. 49 P
5-10-6	WILLIAM F. RULONG, ET AL	P/O 1,00
5-10-8.1	SAMUEL D. & BECKY ROBINSON	1.511
9-10-1.1	CONNIE S. CUNNINGHAM	0.482
9-10-1.2	JOSHUA A. & SHANNON N. HOYT	2.436
9-10-2.2	WALTER J. FECAT, JR., ET UX	5,00
9-10-12	JOSEPH LEE CROW	11,279
9-10-13	JOSEPH LEE CROW	12.18
9-10-21	JAMES & VICKIE J. MASON	2.00
9-10-22	JAMES & VICKIE J. MASON	1,169
9-13-4.1	H & L EQUIPMENT, LLC	0,449

TAG	SURFACE OWNER	PARCEL	ACRES
A	TH EXPLORATION	9-13-5,3	16.10
В	XCL MIDSTREAM OPERATING, LLC	9-13-5	168.73
C	XCL MIDSTREAM OPERATING, LLC	9-10-19.1	10
D	STATE OF WEST VIRGINIA (FISH CREEK)	N/A	N/A
E	ALAN KELLEY ET AL	9-10-19	113,08
F	CAROL VAN SCYOC EST	9-10-2	206.988
G	SHERRY VAN SCYOC YOCUM & BLAINE VAN SCYOC	9-10-2.1	5,00
H	CAROL VAN SCYOC EST	9-10-1	118,087
I	JOSHUA A. & SHANNON N. HOYT	9-10-20	9.942
1	FINLEY D. MONTGOMERY ET UX	9-10-1.3	20,294
K	WILLIAM F. RULONG, ET AL	5-10-8	70.6672
L	WILLIAM F. RULONG, ET AL	5-10-7	22,872
M	ROBERT GREGORY McGUIRE, ET UX	5-9-10	139,60
N	ROBERT GREGORY MCQUIRE, ET UX	5-9-12	78.28
0	ROBERT GREGORY MCQUIRE, ET UX	5-9-9	49
P	PATRICIA McCLINTOCK	5-9-7	110,02
Q	PATRICIA McCLINTOCK	5-9-6	101
R	PATRICIA McCLINTOCK	5-9-5	22.5

#### NOTES ON SURVEY

- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED CAS WELL. NO AGRICULTURAL BUILDINGS > 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 825' OF THE CENTER OF PROPOSED WELL PAD. WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'.



1412 Kanawha Bauleyard, East | Charleston, WV 25301 | 304.346.3952 254 East Beckley Bypass | Beckley, WV 25801 | 304,255,5296

No. 677
STATE OF STAT I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S 677

MINIMUM DEGREE

OF ACCURACY

FILE NO. 8952P3HMR.dwg

VAN WINKLE N 3HM-REV3 1" = 2000'

SCALE HORIZONTAL & VERTICAL

STATE COUNTY STATE OF WEST VIRGINIA

47-051-01330

DATE

API

WELL

REVISED\_

47-051-01284

DIVISION OF ENVIRONMENTAL PROTECTION

(+) DENOTES LOCATION OF WELL ON UNITED

JUNE 1, 2022

OPERATORS WELL NO. \_\_\_\_ VAN WINKLE N 3HM

051

STATES TOPOGRAPHIC MAPS. JANUARY 21



02366

MOD

1" = 200'

OFFICE OF OIL AND GAS DGPS (SURVEY GRADE TIE TO CORS NETWORK) CONTROL DETERMINED BY LIQUID WASTE GAS\_X INJECTION\_ TYPE: OIL \_ DISPOSAL "GAS" PRODUCTION X STORAGE DEEP\_ SHALLOW LOCATION: FISH CREEK (HUC 10) ELEVATION . \_ WATERSHED\_\_ MARSHALL DISTRICT MEADE QUADRANGLE GLEN EASTON 7.5' COUNTY TH EXPLORATION, LLC SURFACE OWNER \_ 16.10 ± ACREAGE \_\_\_ ROYALTY OWNER DENNIS HUNTER, ET AL - SEE WW-6A1 190.12 ± ACREAGE \_\_ PROPOSED WORK: SEE WW-6A1 LEASE NO. \_\_\_\_ DRILL X CONVERT \_\_\_\_ DRILL DEEPER \_\_\_\_ REDRILL \_\_\_\_ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION \_\_\_\_ PERFORATE NEW FORMATION \_\_\_\_ PLUG AND ABANDON \_\_\_\_ CLEAN OUT AND REPLUG\_ \_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION MARCELLUS ESTIMATED DEPTH\_ TVD: 6,253' / TMD: 21,423' DARREN BROWN CT CORPORATION WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT

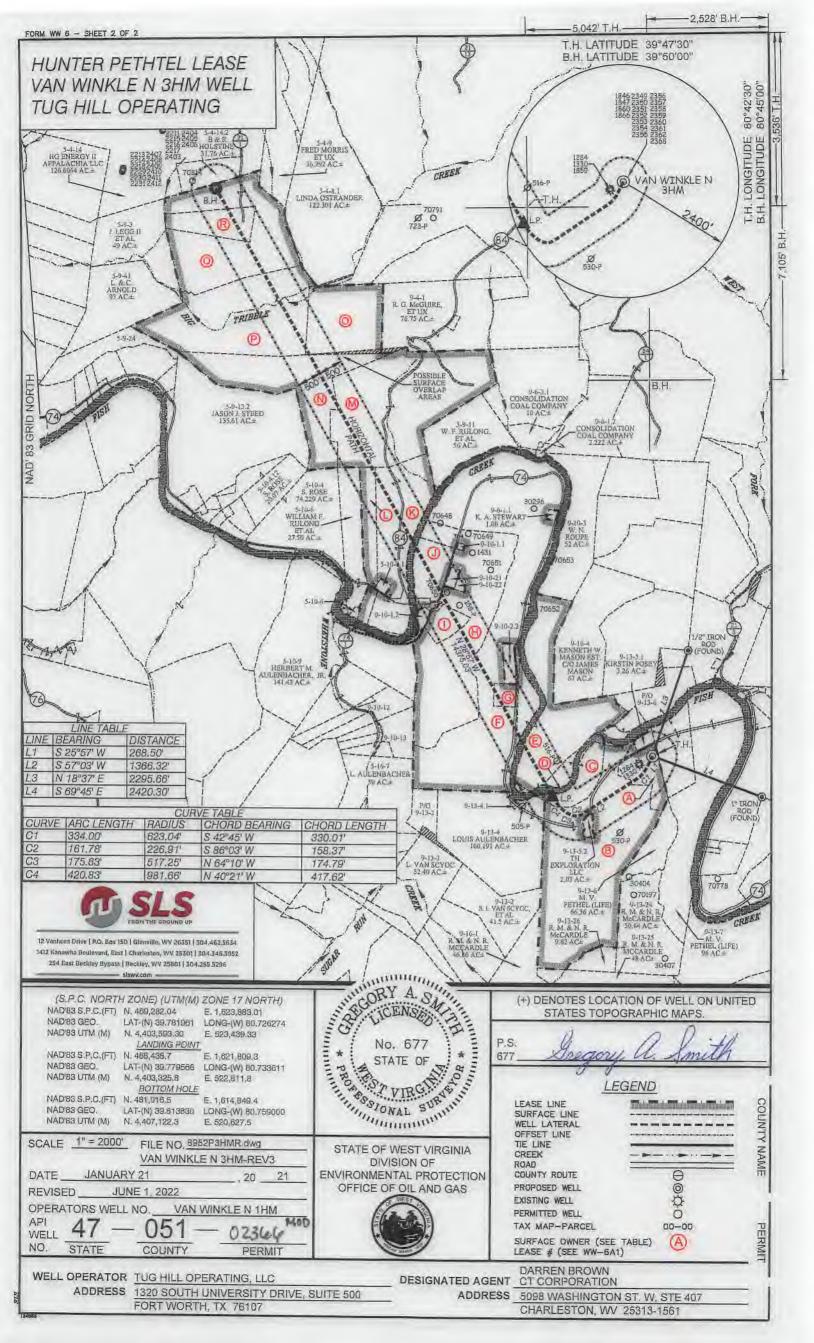
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500

FORT WORTH, TX 76107

ADDRESS 5098 WASHINGTON ST. W, STE 407

80°42'30" LONGITUDE

CHARLESTON, WV 25313-1561



#### 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			200	200
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page

\*See attached pages

\*Co-tenancy utilization — At least 75% of the royalty owners have executed a lease on the tract. The interests of the remaining co-tenants were acquired pursuant to the Co-tenancy Modernization and Majority Protection Act.

#### 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

Office of Oil and Gas

JUN 27 2022

WV Department of Environmental Protection

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

Permitting Specialist - Appalachia Region

## Operator's Well No. <u>Van Winkle N - 3HM</u>

Lease ID	Parcel	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Book	Page	Assignment	Assignment	Assignment	Assignment	Assignment
10*31312	9-13-5.3	А	DENNIS W HUNTER AND KATHY A HUNTER	CENTRAL MICHIGAN EXPLORATION LLC	1/8+	668	155	N/A	N/A	Central Michigan Exploraiton LLC to Stone Energy Corporation: 21/288 & 21/356	Stone Energy Corporation to EQT Production Company: 38/75	EQT Production Company to TH Exploration LLC: 48/21
10*31312	9-13-5	В	DENNIS W HUNTER AND KATHY A HUNTER	CENTRAL MICHIGAN EXPLORATION LLC	1/8+	668	155	N/A	N/A	Central Michigan Exploraiton LLC to Stone Energy Corporation: 21/288 & 21/356	Stone Energy Corporation to EQT Production Company: 38/75	EQT Production Company to TH Exploration LLC: 48/21
10*31352	9-10-19.1	С	DENNIS W HUNTER AND KATHY A HUNTER	CENTRAL MICHIGAN EXPLORATION LLC	1/8+	690	60	N/A	N/A	Central Michigan Exploration LLC to Stone Energy Corp.: AB 21/288 & 21/497	Stone Energy Corp. to EQT Production Company: AB 38/75	EQT Production Company to TH Exploration LLC: 48/21
10*23458	FISH CREEK	D	WEST VIRGINIA DIVISION OF NATURAL RESOURCES	TH EXPLORATION LLC	1/8+	1019	373	N/A	N/A	N/A	N/A	N/A
10*31384	9-10-19	E	JOHN E KELLEY AND JANET E KELLEY	STONE ENERGY CORPORATION	1/8+	693	6	N/A	N/A	N/A	Stone Energy Corp. to EQT Production Company: AB 38/75	EQT Production Company to TH Exploration LLC: 48/21
10*19894	9-10-2	F	CAROL L VANSCYOC	TH EXPLORATION LLC	1/8+	941	392	N/A	N/A	N/A	N/A	N/A
10*18398	9-10-2.1	G	BLAINE A VANSCYOC	TH EXPLORATION LLC	1/8+	932	470	N/A	N/A	N/A	N/A	N/A
10*18399	9-10-2.1	G	SHERRY CARROLL	TH EXPLORATION LLC	1/8+	932	473	N/A	N/A	N/A	N/A	N/A
10*19894	9-10-1	Н	CAROL L VANSCYOC	TH EXPLORATION LLC	1/8+	941	392	N/A	N/A	N/A	N/A	N/A
10*29359	9-10-20	1	JOSHUA A HOYT AND SHANNON N HOYT	TH EXPLORATION LLC	1/8+	1096	535	N/A	N/A	N/A	N/A	N/A
10*31374	9-10-1.3	j	FINLEY D MONTGOMERY AND KARLA R MONTGOMERY	TRIENERGY HOLDINGS LLC	1/8+	734	177	TriEnergy Holdings LLC to NPAR LLC: 25/449	NPAR LLC to Chevron USA Inc: 756/332	Chevron USA Inc to Stone Energy Corporation: 33/325	Stone Energy Corporation to EQT Production Company: 38/75	EQT Production Company to TH Exploration LLC: 48/21
10*18726	5-10-8	К	EMILY K RULONG AND WILLIAM F RULONG SR	TH EXPLORATION LLC	1/8+	941	441	N/A	N/A	N/A	N/A	N/A
10*18837	5-10-8	К	THE RODGERS FAMILY TRUST	TH EXPLORATION LLC	1/8+	935	122	N/A	N/A	N/A	N/A	N/A
10*18943	5-10-8	К	BRANDY SUE MOORE AND DELMAS L MOORE	TH EXPLORATION LLC	1/8+	940	124	N/A	N/A	N/A	N/A	N/A
10*19607	5-10-8	К	DAVA HARTLEY SMITH	TH EXPLORATION LLC	1/8+	944	186	N/A	N/A	N/A	N/A	N/A
10*19666	5-10-8	К	RALPH TERRY AND MONICA TERRY	TH EXPLORATION LLC	1/8+	944	182	N/A	N/A	N/A	N/A	N/A
10*22324	5-10-8	К	RHONDA RISDEN	TH EXPLORATION LLC	1/8+	965	600	N/A	N/A	N/A	N/A	N/A
10*22542	5-10-8	К	VINCE E OSER AND KAY J OSER	TH EXPLORATION LLC	1/8+	966	198	N/A	N/A	N/A	N/A	N/A
10*23487	5-10-8	К	ELMER RICHARDSON ET AL CAROLYN FLANNERY SP COMM	TH EXPLORATION LLC	1/8+	1009	255	N/A	N/A	N/A	N/A	N/A
10*23491	5-10-8	К	GENERAL RECEIVER OF MARSHALL COUNTY	TH EXPLORATION LLC	1/8+	1014	498	N/A	N/A	N/A	N/A	N/A
10*26513	5-10-8	К	CLIFFORD C HARTLEY AND BARBARA T HARTLEY	TH EXPLORATION LLC	1/8+	1034	226	N/A	N/A	N/A	N/A	N/A
10*27959	5-10-8	К	STONE HILL MINERALS HOLDINGS LLC	TH EXPLORATION LLC	1/8+	1063	594	N/A	N/A	N/A	N/A	N/A
10*28119	5-10-8	К	WILMA JEAN OSER	TH EXPLORATION LLC	1/8+	1057	328	N/A	N/A	N/A	N/A	N/A
10*28563	5-10-8	К	MARGARET TOLER	TH EXPLORATION LLC	1/8+	1074	630	N/A	N/A	N/A	N/A	N/A
10*28616	5-10-8	К	SILVIA J NEEHOUSE	TH EXPLORATION LLC	1/8+	1075	37	N/A	N/A	N/A	N/A	N/A
10*28617	5-10-8	K	RICKY E DAVIS AIF ALISA M DAVIS	TH EXPLORATION LLC	1/8+	1075	35	N/A	N/A	N/A	N/A	N/A
10*28812	5-10-8	К	ROBERT N BAKER AND THERESA L BAKER	TH EXPLORATION LLC	1/8+	1077	33	N/A	N/A	<b></b> /A	N/A	N/A
10*28855	5-10-8	K	PAMELA J WHORTON AND ROBERT D WHORTON	TH EXPLORATION LLC	1/8+	1077	264	N/A	N/A	N/A N/A N/A N/A N/A	N/A	N/A
10*28926	5-10-8	К	DAVID M AND SHERRY L TOLER	TH EXPLORATION LLC	1/8+	1078	13	N/A	N/A	CO NA OS	≿ N/A	N/A
10*28950	5-10-8	K	ANTHONY C BENEDETTA AND MARY A BENEDETTA	TH EXPLORATION LLC	1/8+	1078	188	N/A	N/A d	D.O VM _ Q.S.	N/A	N/A
10*28969	5-10-8	K	HARRY MCCRACKEN AND BETH ANN MCCRACKEN	TH EXPLORATION LLC	1/8+	1078	436	N/A	N/A	N/A 9 %	N/A	N/A
10*28988	5-10-8	K	HAROLD L GOUDY AND DONNA D GOUDY	TH EXPLORATION LLC	1/8+	1080	536	N/A	N/A	N/A K.Q.	N/A	N/A
10*28989	5-10-8	K	SANDRA K LYTTON AND CHARLES E LYTTON	TH EXPLORATION LLC	1/8+	1080	538	N/A	N/A O	NO NO PO	N/A	N/A

## WW-6A1 Supplement

Lease ID	Parcel	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Book	Page	Assignment	Assignment	Assignment	Assignment	Assignment
10*28993	5-10-8	K	CALVIN MCGUIRE	TH EXPLORATION LLC	1/8+	1080	541	N/A	N/A	N/A	N/A	N/A
10*28994	5-10-8	К	JENNIFER T PUMPA AND RICHARD PUMPA	TH EXPLORATION LLC	1/8+	1080	543	N/A	N/A	N/A	N/A	N/A
10*28995	5-10-8	К	ELLEN SCHMIDT	TH EXPLORATION LLC	1/8+	1080	545	N/A	N/A	N/A	N/A	N/A
10*28996	5-10-8	K	SHAWN MARIE SEWGARD AND JERRY SWEGARD	TH EXPLORATION LLC	1/8+	1083	124	N/A	N/A	N/A	N/A	N/A
10*29043	5-10-8	K	DONALD LESTER GOUDY JR AND BILLIE GOUDY	TH EXPLORATION LLC	1/8+	1083	121	N/A	N/A	N/A	N/A	N/A
10*29044	5-10-8	K	GARREN RAY GOUDY AND HOLLEE J GOUDY	TH EXPLORATION LLC	1/8+	1083	377	N/A	N/A	N/A	N/A	N/A
10*29073	5-10-8	K	JOEL B MATHIS II AND DEBORAH MATHIS	TH EXPLORATION LLC	1/8+	1083	563	N/A	N/A	N/A	N/A	N/A
10*29206	5-10-8	K	PAMELA R BENEDETTA	TH EXPLORATION LLC	1/8+	1085	598	N/A	N/A	N/A	N/A	N/A
10*29245	5-10-8	К	AMFLO ENTERPRISES LLC CO BARRY STIFFLER	TH EXPLORATION LLC	1/8+	1086	508	N/A	N/A	N/A	N/A	N/A
10*29267	5-10-8	K	ELNORA M BARANICH	TH EXPLORATION LLC	1/8+	1090	141	N/A	N/A	N/A	N/A	N/A
10*29394	5-10-8	K	WILLIAM ELLIOTT AND MARY MARCIA ELLIOTT	TH EXPLORATION LLC	1/8+	1096	303	N/A	N/A	N/A	N/A	N/A
10*29512	5-10-8	K	KERRY R AND BARBARA MOORE	TH EXPLORATION LLC	1/8+	1096	305	N/A	N/A	N/A	N/A	N/A
10*29643	5-10-8	K.	JAMES AND DEBRA LEE MATHIS	TH EXPLORATION LLC	1/8+	1100	83	N/A	N/A	N/A	N/A	N/A
10*29664	5-10-8	K	DALE BRUCE MOORE	TH EXPLORATION LLC	1/8+	1100	89	N/A	N/A	N/A	N/A	N/A
10*29669	5-10-8	K	JEFFREY & MELISSA M MOORE	TH EXPLORATION LLC	1/8+	1100	91	N/A	N/A	N/A	N/A	N/A
10*29721	5-10-8	K	CHARLES MICHAEL & TRACEY L BAKER	TH EXPLORATION LLC	1/8+	1100	250	N/A	N/A	N/A	N/A	N/A
10*29795	5-10-8	K	LOUIS M BENEDETTA	TH EXPLORATION LLC	1/8+	1101	25	N/A	N/A	N/A	N/A	N/A
10*29801	5-10-8	K	KIRCHGESSNER CONSULTING GROUP*	TH EXPLORATION LLC	1/8+	1100	300	N/A	N/A	N/A	N/A	N/A
10*29807	5-10-8	K	DANIEL J NABUDA*	TH EXPLORATION LLC	1/8+	1101	294	N/A	N/A	N/A	N/A	N/A
10*29809	5-10-8	K	RICHARD D & JULIA M REPASKY*	TH EXPLORATION LLC	1/8+	1101	288	N/A	N/A	N/A	N/A	N/A
10*29813	5-10-8	К	HELEN E ROBINSON	TH EXPLORATION LLC	1/8+	1101	23	N/A	N/A	N/A	N/A	N/A
10*29833	5-10-8	K	SKYPOINT RESOURCES LLC	TH EXPLORATION LLC	1/8+	1103	556	N/A	N/A	N/A	N/A	N/A
10*29857	5-10-8	K	DEAN A BENEDETTA*	TH EXPLORATION LLC	1/8+	1102	298	N/A	N/A	N/A	N/A	N/A
10*29858	5-10-8	K	H3 LLC	TH EXPLORATION LLC	1/8+	1103	567	N/A	N/A	N/A	N/A	N/A
10*30033	5-10-8	K	DANNY MOORE*	TH EXPLORATION LLC	1/8+	1103	579	N/A	N/A	N/A	N/A	N/A
10*30036	5-10-8	К	RUSSELL ALBERT WHITE*	TH EXPLORATION LLC	1/8+	1103	585	N/A	N/A	N/A	N/A	N/A
10*30039	5-10-8	K	MARY RENEE WHITE*	TH EXPLORATION LLC	1/8+	1103	597	N/A	N/A	N/A	N/A	N/A
10*30041	5-10-8	K	RICHARD NEWMAN WHITE*	TH EXPLORATION LLC	1/8+	1103	591	N/A	N/A	N/A	N/A	N/A
10*30045	5-10-8	K	ROBERT LEE WHITE JR*	TH EXPLORATION LLC	1/8+	1103	609	N/A	N/A	N/A	N/A	N/A
10*30075	5-10-8	К	RHONDA SUE DEPAUL*	TH EXPLORATION LLC	1/8+	1103	603	N/A	N/A	N/A	N/A	N/A
10*31356	5-10-8	К	AMY M TOLER FKN AMY M PARKER	STONE ENERGY CORPORATION	1/8+	874	502	N/A	N/A	N/A	Stone Energy Carporation to EQT Production Company: 38/75	EQT Production Company to TH Exploration LLC: 48/21
10*31357	5-10-8	к	LORI E KESTNER	STONE ENERGY CORPORATION	1/8+	886	251	N/A	N/A	N/A	Stone Energy Corporation to EQT Production Company: 38/75	EQT Production Company to TH Exploration LLC: 48/21
10*31360	5-10-8	К	AVA SMITH	CHEVRON USA INC	1/8+	801	572	N/A	N/A	Chevron USA Inc to Stone Energy Corporation: 34/143	Stone Energy Corporation to EQT Production Company: 38/75	EQT Production Company to TH Exploration LLC: 48/21
10*31361	5-10-8	к	JAMES W HARTLEY	CHEVRON USA INC	1/8+	801	563	N/A	N/A	Chevron USA Inc to Stone Energy Corporation: 34/143	Stone Energy Corporation to EQT Production Company: 38/75	EQT Production Company to TH Exploration LLC: 48/21
10*18726	5-10-7		EMILY K RULONG AND WILLIAM F RULONG SR	TH EXPLORATION LLC	1/8+	941	441	N/A	N/A	N/A	N/A	N/A
10*18837	5-10-7		THE RODGERS FAMILY TRUST	TH EXPLORATION LLC	1/8+	935	122	N/A	N/A	N/A	N/A	N/A
10*18943	5-10-7	L	BRANDY SUE MOORE AND DELMAS L MOORE	TH EXPLORATION LLC	1/8+	940	124	N/A	N/A	N/A	N/A	N/A
10*19607	5-10-7	1	DAVA HARTLEY SMITH	TH EXPLORATION LLC	1/8+	944	186	N/A	N/A	N/A	N/A	N/A

## WW-6A1 Supplement

Lease ID	Parcel	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Book	Page	Assignment	Assignment	Assignment	Assignment	Assignment
10*19666	5-10-7	L	RALPH TERRY AND MONICA TERRY	TH EXPLORATION LLC	1/8+	944	182	N/A	N/A	N/A	N/A	N/A
10*22324	5-10-7	1	RHONDA RISDEN	TH EXPLORATION LLC	1/8+	965	600	N/A	N/A	N/A	N/A	N/A
10*22542	5-10-7	L	VINCE E OSER AND KAY J OSER	TH EXPLORATION LLC	1/8+	966	198	N/A	N/A	N/A	N/A	N/A
10*23487	5-10-7	L	ELMER RICHARDSON ET AL CAROLYN FLANNERY AS SP COMM	TH EXPLORATION LLC	1/8+	1009	255	N/A	N/A	N/A	N/A	N/A
10*23491	5-10-7	L	GENERAL RECEIVER OF MARSHALL COUNTY	TH EXPLORATION LLC	1/8+	1014	498	N/A	N/A	N/A	N/A	N/A
10*26513	5-10-7	L	CLIFFORD C HARTLEY AND BARBARA T HARTLEY	TH EXPLORATION LLC	1/8+	1034	226	N/A	N/A	N/A	N/A	N/A
10*27959	5-10-7	L	STONE HILL MINERALS HOLDINGS LLC	TH EXPLORATION LLC	1/8+	1063	594	N/A	N/A	N/A	N/A	N/A
10*28119	5-10-7	L	WILMA JEAN OSER	TH EXPLORATION LLC	1/8+	1057	328	N/A	N/A	N/A	N/A	N/A
10*28563	5-10-7	L	MARGARET TOLER	TH EXPLORATION LLC	1/8+	1074	630	N/A	N/A	N/A	N/A	N/A
10*28616	5-10-7	L	SILVIA J NEEHOUSE	TH EXPLORATION LLC	1/8+	1075	37	N/A	N/A	N/A	N/A	N/A
10*28617	5-10-7	L	RICKY E DAVIS AIF ALISA M DAVIS	TH EXPLORATION LLC	1/8+	1075	35	N/A	N/A	N/A	N/A	N/A
10*28812	5-10-7	L	ROBERT N BAKER AND THERESA L BAKER	TH EXPLORATION LLC	1/8+	1077	33	N/A	N/A	N/A	N/A	N/A
10*28855	5-10-7	L	PAMELA J WHORTON AND ROBERT D WHORTON	TH EXPLORATION LLC	1/8+	1077	264	N/A	N/A	N/A	N/A	N/A
10*28926	5-10-7	L	DAVID M AND SHERRY L TOLER	TH EXPLORATION LLC	1/8+	1078	13	N/A	N/A	N/A	N/A	N/A
10*28950	5-10-7	L.	ANTHONY C BENEDETTA AND MARY A BENEDETTA	TH EXPLORATION LLC	1/8+	1078	188	N/A	N/A	N/A	N/A	N/A
10*28969	5-10-7	L	HARRY MCCRACKEN AND BETH ANN MCCRACKEN	TH EXPLORATION LLC	1/8+	1078	436	N/A	N/A	N/A	N/A	N/A
10*28988	5-10-7	L	HAROLD L GOUDY AND DONNA D GOUDY	TH EXPLORATION LLC	1/8+	1080	536	N/A.	N/A	N/A	N/A	N/A
10*28989	5-10-7	L	SANDRA K LYTTON AND CHARLES E LYTTON	TH EXPLORATION LLC	1/8+	1080	538	N/A	N/A	N/A	N/A	N/A
10*28993	5-10-7	L	CALVIN MCGUIRE	TH EXPLORATION LLC	1/8+	1080	541	N/A	N/A	N/A	N/A	N/A
10*28994	5-10-7	L	JENNIFER T PUMPA AND RICHARD PUMPA	TH EXPLORATION LLC	1/8+	1080	543	N/A	N/A	N/A	N/A	N/A
10*28995	5-10-7	E	ELLEN SCHMIDT	TH EXPLORATION LLC	1/8+	1080	545	N/A	N/A	N/A	N/A	N/A
10*28996	5-10-7	L	SHAWN MARIE SEWGARD AND JERRY SWEGARD	TH EXPLORATION LLC	1/8+	1083	124	N/A	N/A	N/A	N/A	N/A
10*29043	5-10-7	L	DONALD LESTER GOUDY JR AND BILLIE GOUDY	TH EXPLORATION LLC	1/8+	1083	121	N/A	N/A	N/A	N/A	N/A
10*29044	5-10-7		GARREN RAY GOUDY AND HOLLEE J GOUDY	TH EXPLORATION LLC	1/8+	1083	377	N/A	N/A	N/A	N/A	N/A
10*29073	5-10-7	L	JOEL B MATHIS II AND DEBORAH MATHIS	TH EXPLORATION LLC	1/8+	1083	563	N/A	N/A	N/A	N/A	N/A
10*29206	5-10-7	T i	PAMELA R BENEDETTA	TH EXPLORATION LLC	1/8+	1085	598	N/A	N/A	N/A	N/A	N/A
10*29245	5-10-7		AMFLO ENTERPRISES LLC CO BARRY STIFFLER	TH EXPLORATION LLC	1/8+	1086	508	N/A	N/A	N/A	N/A	N/A
10*29267	5-10-7	1	ELNORA M BARANICH	TH EXPLORATION LLC	1/8+	1090	141	N/A	N/A	N/A	N/A	N/A
10*29394	5-10-7	1.	WILLIAM ELLIOTT AND MARY MARCIA ELLIOTT	TH EXPLORATION LLC	1/8+	1096	303	N/A	N/A	N/A	N/A	N/A
10*29512	5-10-7	1	KERRY R AND BARBARA MOORE	TH EXPLORATION LLC	1/8+	1096	305	N/A	N/A	N/A	N/A	N/A
10*29643	5-10-7	L	JAMES AND DEBRA LEE MATHIS	TH EXPLORATION LLC	1/8+	1100	83	N/A	N/A	N/A	N/A	N/A
10*29664	5-10-7	1	DALE BRUCE MOORE	TH EXPLORATION LLC	1/8+	1100	89	N/A	N/A	N/A	N/A	N/A
10*29669	5-10-7	T L	JEFFREY & MELISSA M MOORE	TH EXPLORATION LLC	1/8+	1100	91	N/A	N/A	N/A	N/A	N/A
10*29721	5-10-7	1	CHARLES MICHAEL & TRACEY L BAKER	TH EXPLORATION LLC	1/8+	1100	250	N/A	N/A	N/A	N/A	N/A
10*29795	5-10-7	L	LOUIS M BENEDETTA	TH EXPLORATION LLC	1/8+	1101	25	N/A	N/A	N/A	N/A	N/A
10*29801	5-10-7		KIRCHGESSNER CONSULTING GROUP*	TH EXPLORATION LLC	1/8+	1100	300	N/A	N/A	N/A	N/A	N/A
10*29807	5-10-7	L	DANIEL J NABUDA*	TH EXPLORATION LLC	1/8+	1101	294	N/A	N/A	N/A	N/A	N/A
10*29809	5-10-7	Ĺ	RICHARD D & JULIA M REPASKY*	TH EXPLORATION LLC	1/8+	1101	288	N/A	N/A	N/A	N/A	N/A
10*29813	5-10-7	1	HELEN E ROBINSON	TH EXPLORATION LLC	1/8+	1101	23	N/A	N/A	N/A	N/A	N/A
10*29833	5-10-7		SKYPOINT RESOURCES LLC	TH EXPLORATION LLC	1/8+	1103	556	N/A	N/A	N/A	N/A	N/A
10*29857	5-10-7	1	DEAN A BENEDETTA*	TH EXPLORATION LLC	1/8+	1102	298	N/A	N/A	N/A	N/A	N/A
10*29858	5-10-7	1	H3 LLC	TH EXPLORATION LLC	1/8+	1103	567	N/A	N/A	N/A	N/A	N/A
10*30033	5-10-7	i	DANNY MOORE*	TH EXPLORATION LLC	1/8+	1103	579	N/A	N/A	N/A	N/A	N/A
10*30035	5-10-7	1	RUSSELL ALBERT WHITE*	TH EXPLORATION LLC	1/8+	1103	585	N/A	N/A	N/A	N/A	N/A
10*30036	5-10-7	L	MARY RENEE WHITE*	TH EXPLORATION LLC	1/8+	1103	597	N/A	N/A	N/A	N/A	N/A
	5-10-7		RICHARD NEWMAN WHITE*	TH EXPLORATION LLC	1/8+	1103	591	N/A	N/A	N/A	N/A	N/A
10*30041	5-10-7		ROBERT LEE WHITE JR*	TH EXPLORATION LLC	1/8+	1103	609	N/A	N/A	N/A	N/A	N/A N/A
10*30045 10*30075	5-10-7	1	RHONDA SUE DEPAUL*	TH EXPLORATION LLC	1/8+	1103	603	N/A	N/A	N/A	N/A	N/A N/A

## WW-6A1 Supplement

Lease ID	Parcel	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Book	Page	Assignment	Assignment	Assignment	Assignment	Assignment
10*29813	5-10-7	L	HELEN E ROBINSON	TH EXPLORATION LLC	1/8+	1101	23	N/A	N/A	N/A	N/A	N/A
10*29833	5-10-7	- L	SKYPOINT RESOURCES LLC	TH EXPLORATION LLC	1/8+	1103	556	N/A	N/A	N/A	N/A	N/A
10*29857	5-10-7	L	DEAN A BENEDETTA*	TH EXPLORATION LLC	1/8+	1102	298	N/A	N/A	N/A	N/A	N/A
10*29858	5-10-7	L	H3 LLC	TH EXPLORATION LLC	1/8+	1103	567	N/A	N/A	N/A	N/A	N/A
10*30033	5-10-7	L	DANNY MOORE*	TH EXPLORATION LLC	1/8+	1103	579	N/A	N/A	N/A	N/A	N/A
10*30036	5-10-7	L	RUSSELL ALBERT WHITE*	TH EXPLORATION LLC	1/8+	1103	585	N/A	N/A	N/A	N/A	N/A
10*30039	5-10-7	L	MARY RENEE WHITE*	TH EXPLORATION LLC	1/8+	1103	597	N/A	N/A	N/A	N/A	N/A
10*30041	5-10-7	L	RICHARD NEWMAN WHITE*	TH EXPLORATION LLC	1/8+	1103	591	N/A	N/A	N/A	N/A	N/A
10*30045	5-10-7	L	ROBERT LEE WHITE JR*	TH EXPLORATION LLC	1/8+	1103	609	N/A	N/A	N/A	N/A	N/A
10*30075	5-10-7	L	RHONDA SUE DEPAUL*	TH EXPLORATION LLC	1/8+	1103	603	N/A	N/A	N/A	N/A	N/A
10*31356	5-10-7	L	AMY M TOLER FKN AMY M PARKER	STONE ENERGY CORPORATION	1/8+	874	502	N/A	N/A	N/A	Stone Energy Corporation to EQT Production Company: 38/75	EQT Production Company to TH Exploration LLC: 48/21
10*31357	5-10-7	L	LORI E KESTNER	STONE ENERGY CORPORATION	1/8+	886	251	N/A	N/A	N/A	Stone Energy Corporation to EQT Production Company: 38/75	EQT Production Company to TH Exploration LLC: 48/21
10*31360	5-10-7	i,	AVA SMITH	CHEVRON USA INC	1/8+	801	572	N/A	N/A	Chevron USA Inc to Stone Energy Corporation: 34/143	Stone Energy Corporation to EQT Production Company: 38/75	EQT Production Company to TH Exploration LLC: 48/21
10*31361	5-10-7	L	JAMES W HARTLEY	CHEVRON USA INC	1/8+	801	563	N/A	N/A	Chevron USA Inc to Stone Energy Corporation: 34/143	Stone Energy Corporation to EQT Production Company: 38/75	EQT Production Company to TH Exploration LLC: 48/21
10*47051.305.0	5-9-10	M	ROBERT G & TERRI L MCGUIRE	TH EXPLORATION LLC	1/8+	895	45	N/A	N/A	N/A	N/A	N/A
10*47051.305.0	5-9-12	N	ROBERT G & TERRI L MCGUIRE	TH EXPLORATION LLC	1/8+	895	45	N/A	N/A	N/A	N/A	N/A
10*29855	5-9-9	0	ROBERT G & TERRI L MCGUIRE	TH EXPLORATION LLC	1/8+	1101	307	N/A	N/A	N/A	N/A	N/A
10*29860	5-9-7	р	P & D REALTY	TH EXPLORATION LLC	1/8+	1101	305	N/A	N/A	N/A	N/A	N/A
10*29860	5-9-6	Q	P & D REALTY	TH EXPLORATION LLC	1/8+	1101	305	N/A	N/A	N/A	N/A	N/A
10*29860	5-9-5	R	P & D REALTY	TH EXPLORATION LLC	1/8+	1101	305	N/A	N/A	N/A	N/A	N/A

#### ASSIGNMENT AND BILL OF SALE

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

#### RECITALS

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

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

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

#### ARTICLE I DEFINED TERMS

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

### ARTICLE II ASSIGNMENT OF ASSETS

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

5

Office RECEIVED

JUN 27 2022

Environmental Protection



June 20, 2022

WADE STANSBERRY
WV DEP OFFICE OF OIL & GAS
601 57<sup>TH</sup> STREET SE
CHARLESTON, WV 25304-2345

VIA USPS

RE:

Van Winkle N-3HM API # 47-051-02366 (H6A Permit Modification)

Meade District, Marshall County, WV

Dear Wade:

Tug Hill Operating, LLC is submitting a permit modification for its permitted well, Van Winkle N-3HM to add 4068.74' to the lateral length. Therefore, enclosed please find the following:

· Modified WW-6B with changes highlighted in yellow

Updated well plat

Updated WW-6A1 information

Updated Site Safety Plan

RECEIVED Office of Oil and Gas

JUN 27 2022

WV Department of Environmental Protection

If you have any questions or need any additional information, please do not hesitate to call me on (304) 376-0111. Thank you for attention to this matter, it is greatly appreciated.

Sincerely,

anythours

AMY MORRIS

PERMIT SPECIALIST-APPALACHIA REGION TUG HILL OPERATING, LLC

Enclosures

CKH SSON PR

## **Permit Modification**

Received date: $(6/27/32)$	٧
Operator: Tug Hell	A

Well Name: <u>Van Winkle</u> N-3HM API: <u>51-02366</u>

Pad Name:	Durite	Rothtel
-	- SuduabC	1. 100

	MODIFIED PERMIT	ORIGINAL PERMIT	
TVD	6253/	6254	
TMD	21423	17357	
HL	14375,03	10,306.29	
FW	~	70, 415	
SW	~	870	
COAL	313,408	409	
CONDUCTOR	~	120	
FRESHWATER		515	
INTERMEDIATE 1		2242	
INTERMEDIATE 2			
PRODUCTION	21423	17357	

Notes: A TH	J Montonomer	AXU	T Rulons
B XNL	VK Rules CoD	B KCL	<u> </u>
C XNL	1 "	C NIV	L McGure
D WV	A McGuire	D Yellow	m "
F. Keller	ok! "	E Sanot.	
A Somoc	D 11	F Yorkim/Scho	C
C Your 150	ge of Macleutack	G Same	
H Source	, vQ	4 Horst	
1 Hard	R	I Montagmer.	
		A	



Stansberry, Wade A <wade.a.stansberry@wv.gov>

#### Modification Horizontal H6A Well Work Permits API: (47-051-02363, 47-051-02365, 47-051-02366)

1 message

Stansberry, Wade A <wade.a.stansberry@wv.gov>

Fri, Jul 29, 2022 at 9:31 AM

To: Amy Morris <amorris@tug-hillop.com>, Eric Buzzard <ebuzzard@marshallcountywv.org>, Strader C Gower <strader.c.gower@wv.gov>, "Gayne J. Knitowski" <gayne.j.knitowski@wv.gov>

I have attached a copy of the newly issued well permit numbers:

47-051-02363 - VAN WINKLE N-1HM 47-091-02365 - VAN WINKLE N-2HM 47-051-02366 - VAN WINKLE N-3HM

These will serve as your copy.

Thank you,

Wade A. Stansberry

**Environmental Resource Specialist 3** 

**West Virginia Department of Environmental Protection** 

Office of Oil & Gas

601 57th St. SE

Charleston, WV 25304

(304) 926-0499 ext. 41115

(304) 926-0452 fax

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#### 4 attachments

**47-051-02366 - mod.pdf** 1693K

47-051-02363 - mod.pdf 2439K

47-051-02365 - mod.pdf 2205K

IR-26 Blank.pdf