



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

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Tuesday, October 20, 2020
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 TEN HIGH 1S-14HU
47-051-01966-00-00

Lateral Deviation and optional Intermediate Casing

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: TEN HIGH 1S-14HU
Farm Name: LAWRENCE & SHIRLEY CONKLE ESTS
U.S. WELL NUMBER: 47-051-01966-00-00
Horizontal 6A New Drill
Date Modification Issued: October 20, 2020

Promoting a healthy environment.



west virginia department of environmental protection

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

Randall M. Albert, Chairman
dep.wv.gov

July 22, 2020

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

RE: Application for Deep Well Permit – API #47-051-01966

COMPANY: Tug Hill Operating, LLC

FARM: Lawrence & Shirley Conkle Ests Ten High 1S-14HU

COUNTY: Marshall DISTRICT: Meade QUAD: Glen Easton

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 blue ink that reads 'Susan Rose'.

Susan Rose
Administrator

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 Marshall Meade Glen Easton 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Ten High 1S-14HU Well Pad Name: Ten High

3) Farm Name/Surface Owner: Lawrence & Shirley Conkle, ests Public Road Access: Shepherd Ridge Lane CR 21/9

4) Elevation, current ground: 1310' Elevation, proposed post-construction: 1310'

5) Well Type (a) Gas Oil Underground Storage

Other _____

(b) If Gas Shallow _____ Deep

Horizontal

JM 1/6/2020

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 11,622' - 11,761' thickness of 139' and anticipated pressure of approx. 9500 psi

8) Proposed Total Vertical Depth: 11,911'

9) Formation at Total Vertical Depth: Trenton

10) Proposed Total Measured Depth: 21,605'

11) Proposed Horizontal Leg Length: 9,362.93'

12) Approximate Fresh Water Strata Depths: 70', 1059'

13) Method to Determine Fresh Water Depths: Offset well reports or noticeable flow at the flowline or when need to start soaping

14) Approximate Saltwater Depths: 2,167'

15) Approximate Coal Seam Depths: Sewickly Coal - 968' and Pittsburgh Coal - 1053'

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: Marshall County Coal Co. / Marshall County Mine
Depth: 1020' TVD and 290' subsea level
Seam: Pittsburgh #8
Owner: Murray Energy / Consolidated Coal Co.

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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	100'	100'	216FT^3(CTS)
Fresh Water	24"	NEW	S60	125.45	1,126'	1,126'	1,309FT^3(CTS)
Coal	18.625"	NEW	J55	106	2,801'	2,801'	2,371FT^3(CTS)
Intermediate #1	*13.325"	NEW	P110	68	6,801'	6,801'	4,382FT^3(CTS)
Intermediate #2	9.625"	NEW	P110	47	10,685'	10,685'	3,498FT^3(CTS)
Production	5.5"	NEW	P110	23	21,605'	21,605'	5,131FT^3(CTS)
Tubing	2 7/8"	NEW	P110	6.5#		11,262'	
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"	38	1.0	2333	1866	CLASS A	1.2
Fresh Water	24"	28	0.75	2750	1330	SEE #24	1.2
Coal	18.625"	22	.531	2740	1140	SEE #24	1.2
Intermediate #1	*13.325"	17	0.455	6910	2340	SEE #24	1.99
Intermediate #2	9.625"	12.25	0.472	10730	7210	SEE #24	1.99
Production	5.5"	8.5	0.415	14530	10864	SEE #24	1.18
Tubing	2 7/8"						
Liners							

*Intermediate #1: To run if needed.

JA 9/19/19

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. 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 24,125,000 lb proppant and 372,990 bbl of water. Max rate = 100 bpm; max psi = 12,500#.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 16.2

22) Area to be disturbed for well pad only, less access road (acres): 5.92

23) Describe centralizer placement for each casing string:

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

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

*See Attachment

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.

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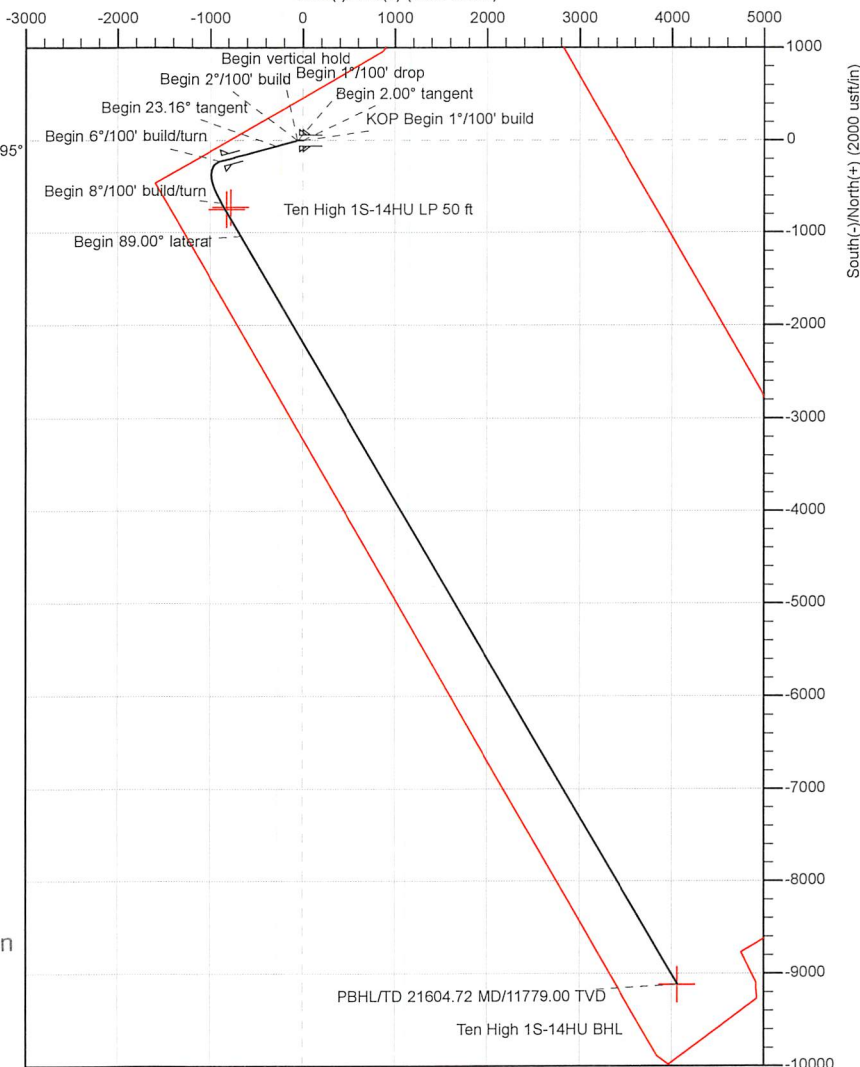
Well: Ten High 1S-14HU (B)
 Site: Ten High
 Project: Marshall County, West Virginia
 Design: rev4

Geodetic System: Universal Transverse Mercator (US Survey Feet)
 Datum: NAD83 West Virginia - HARN
 Ellipsoid: GRS 1980
 Zone: Zone 17N (84 W to 78 W)

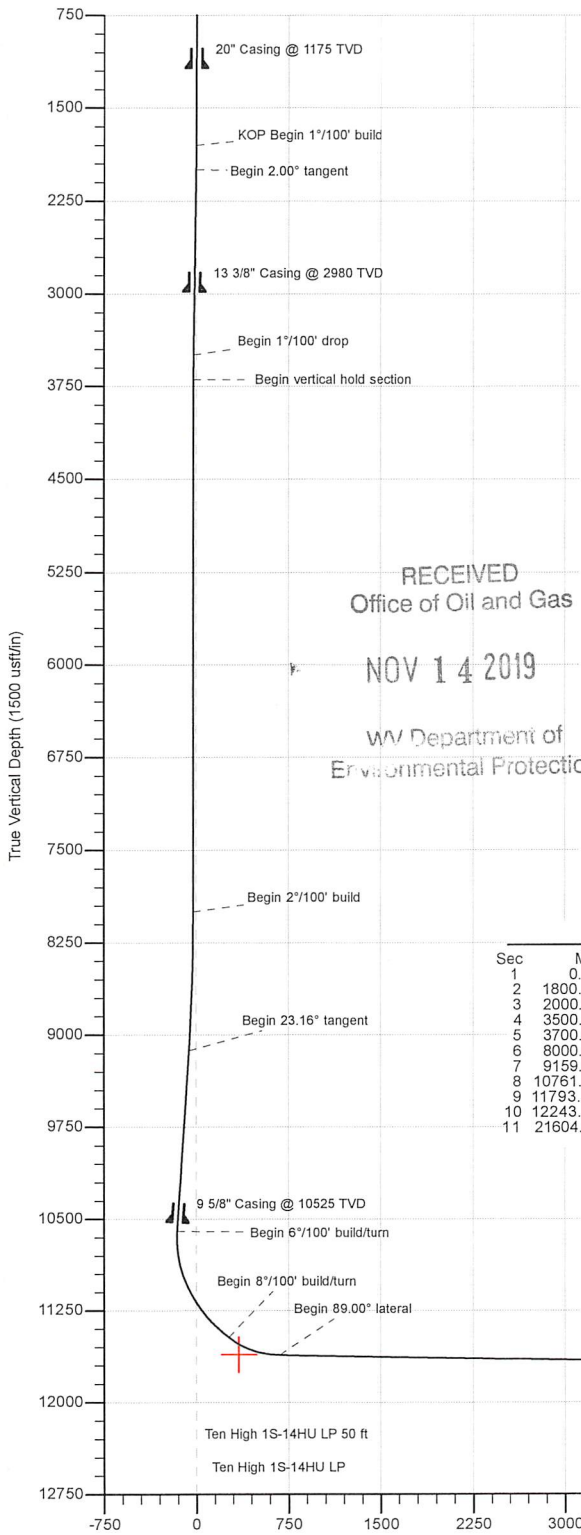
Rig: Nabors X08
 West(-)/East(+) (2000 usft/in)

System Datum: Mean Sea Level
 Depth Reference: GL=1310 @ 1310.00usft

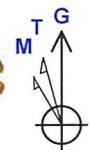
Northing 14456542.83 Easting 1730013.60 Latitude 39.80680113 Longitude -80.68096676



Total Corr (M->G): To convert a Magnetic Direction to a Grid Direction, Subtract 8.95°



Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	0.00	KOP Begin 1°/100' build
3	2000.00	2.00	270.00	1999.96	0.00	-3.49	1.00	270.00	-1.42	Begin 2.00° tangent
4	3500.00	2.00	270.00	3499.05	0.00	-55.84	0.00	0.00	-22.73	Begin 1°/100' drop
5	3700.00	0.00	270.00	3699.01	0.00	-59.33	1.00	180.00	-24.15	Begin vertical hold section
6	8000.99	0.00	270.00	8000.00	0.00	-59.33	0.00	270.00	-24.15	Begin 2°/100' build
7	9159.00	23.16	254.83	9126.73	-60.42	-282.16	2.00	254.83	-59.69	Begin 23.16° tangent
8	10761.90	23.16	254.83	10600.45	-225.39	-890.62	0.00	0.00	-156.73	Begin 6°/100' build/turn
9	11793.51	53.00	149.65	11471.51	-678.96	-876.91	6.00	-119.10	263.13	Begin 8°/100' build/turn
10	12243.51	89.00	149.65	11615.62	-1040.12	-665.44	8.00	0.00	679.10	Begin 89.00° lateral
11	21604.73	89.00	149.65	11779.00	-9117.20	4063.88	0.00	0.00	9981.91	PBHL/TD 21604.72 MD/11779.00 TVD



Azimuths to Grid North
 True North: -0.20°
 Magnetic North: -8.95°

Magnetic Field
 Strength: 52041.1snT
 Dip Angle: 66.87°
 Date: 9/1/2018
 Model: IGRF2015

4705101966 MOD



Planning Report - Geographic

Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Ten High 1S-14HU (B)
Company:	Tug Hill Operating LLC	TVD Reference:	GL=1310 @ 1310.00usft
Project:	Marshall County, West Virginia	MD Reference:	GL=1310 @ 1310.00usft
Site:	Ten High	North Reference:	Grid
Well:	Ten High 1S-14HU (B)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev4		

Project	Marshall County, West Virginia		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD83 West Virginia - HARN		
Map Zone:	Zone 17N (84 W to 78 W)		

Site	Ten High				
Site Position:		Northing:	14,456,545.60 usft	Latitude:	39.80680885
From:	Lat/Long	Easting:	1,730,001.41 usft	Longitude:	-80.68101011
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.20 °

Well	Ten High 1S-14HU (B)					
Well Position	+N/-S	0.00 usft	Northing:	14,456,542.83 usft	Latitude:	39.80680113
	+E/-W	0.00 usft	Easting:	1,730,013.60 usft	Longitude:	-80.68096676
Position Uncertainty	0.00 usft		Wellhead Elevation:	0.00 usft	Ground Level:	1,310.00 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	9/1/2018	-8.75	66.87	52,041.09388908

Design	rev4			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	155.98

Plan Survey Tool Program	Date	9/15/2018		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	21,604.73 rev4 (Original Hole)	MWD	
			MWD - Standard	

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4705101966 MJD



Planning Report - Geographic

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Company:	Tug Hill Operating LLC	TVD Reference:	GL=1310 @ 1310.00usft
Project:	Marshall County, West Virginia	MD Reference:	GL=1310 @ 1310.00usft
Site:	Ten High	North Reference:	Grid
Well:	Ten High 1S-14HU (B)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev4		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	2.00	270.00	1,999.96	0.00	-3.49	1.00	1.00	0.00	270.00	
3,500.00	2.00	270.00	3,499.05	0.00	-55.84	0.00	0.00	0.00	0.00	
3,700.00	0.00	270.00	3,699.01	0.00	-59.33	1.00	-1.00	0.00	180.00	
8,001.00	0.00	270.00	8,000.00	0.00	-59.33	0.00	0.00	0.00	270.00	
9,159.00	23.16	254.83	9,126.73	-60.42	-282.16	2.00	2.00	-1.31	254.83	
10,761.90	23.16	254.83	10,600.45	-225.39	-890.62	0.00	0.00	0.00	0.00	
11,793.51	53.00	149.65	11,471.51	-678.96	-876.91	6.00	2.89	-10.20	-119.10	
12,243.51	89.00	149.65	11,615.62	-1,040.12	-665.44	8.00	8.00	0.00	0.00	
21,604.73	89.00	149.65	11,779.00	-9,117.20	4,063.88	0.00	0.00	0.00	0.00	Ten High 1S-14HU B1

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Planning Report - Geographic

WV Department of
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Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Ten High 1S-14HU (B)
Company:	Tug Hill Operating LLC	TVD Reference:	GL=1310 @ 1310.00usft
Project:	Marshall County, West Virginia	MD Reference:	GL=1310 @ 1310.00usft
Site:	Ten High	North Reference:	Grid
Well:	Ten High 1S-14HU (B)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev4		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,456,542.83	1,730,013.60	39.80680113	-80.68096676
100.00	0.00	0.00	100.00	0.00	0.00	14,456,542.83	1,730,013.60	39.80680113	-80.68096676
200.00	0.00	0.00	200.00	0.00	0.00	14,456,542.83	1,730,013.60	39.80680113	-80.68096676
300.00	0.00	0.00	300.00	0.00	0.00	14,456,542.83	1,730,013.60	39.80680113	-80.68096676
400.00	0.00	0.00	400.00	0.00	0.00	14,456,542.83	1,730,013.60	39.80680113	-80.68096676
500.00	0.00	0.00	500.00	0.00	0.00	14,456,542.83	1,730,013.60	39.80680113	-80.68096676
600.00	0.00	0.00	600.00	0.00	0.00	14,456,542.83	1,730,013.60	39.80680113	-80.68096676
700.00	0.00	0.00	700.00	0.00	0.00	14,456,542.83	1,730,013.60	39.80680113	-80.68096676
800.00	0.00	0.00	800.00	0.00	0.00	14,456,542.83	1,730,013.60	39.80680113	-80.68096676
900.00	0.00	0.00	900.00	0.00	0.00	14,456,542.83	1,730,013.60	39.80680113	-80.68096676
1,000.00	0.00	0.00	1,000.00	0.00	0.00	14,456,542.83	1,730,013.60	39.80680113	-80.68096676
1,100.00	0.00	0.00	1,100.00	0.00	0.00	14,456,542.83	1,730,013.60	39.80680113	-80.68096676
1,200.00	0.00	0.00	1,200.00	0.00	0.00	14,456,542.83	1,730,013.60	39.80680113	-80.68096676
1,300.00	0.00	0.00	1,300.00	0.00	0.00	14,456,542.83	1,730,013.60	39.80680113	-80.68096676
1,400.00	0.00	0.00	1,400.00	0.00	0.00	14,456,542.83	1,730,013.60	39.80680113	-80.68096676
1,500.00	0.00	0.00	1,500.00	0.00	0.00	14,456,542.83	1,730,013.60	39.80680113	-80.68096676
1,600.00	0.00	0.00	1,600.00	0.00	0.00	14,456,542.83	1,730,013.60	39.80680113	-80.68096676
1,700.00	0.00	0.00	1,700.00	0.00	0.00	14,456,542.83	1,730,013.60	39.80680113	-80.68096676
1,800.00	0.00	0.00	1,800.00	0.00	0.00	14,456,542.83	1,730,013.60	39.80680113	-80.68096676
KOP Begin 1°/100' build									
1,900.00	1.00	270.00	1,899.99	0.00	-0.87	14,456,542.83	1,730,012.73	39.80680114	-80.68096987
2,000.00	2.00	270.00	1,999.96	0.00	-3.49	14,456,542.83	1,730,010.11	39.80680117	-80.68097919
Begin 2.00° tangent									
2,100.00	2.00	270.00	2,099.90	0.00	-6.98	14,456,542.83	1,730,006.62	39.80680120	-80.68099161
2,200.00	2.00	270.00	2,199.84	0.00	-10.47	14,456,542.83	1,730,003.13	39.80680123	-80.68100404
2,300.00	2.00	270.00	2,299.78	0.00	-13.96	14,456,542.83	1,729,999.64	39.80680127	-80.68101647
2,400.00	2.00	270.00	2,399.72	0.00	-17.45	14,456,542.83	1,729,996.15	39.80680130	-80.68102890
2,500.00	2.00	270.00	2,499.65	0.00	-20.94	14,456,542.83	1,729,992.66	39.80680134	-80.68104132
2,600.00	2.00	270.00	2,599.59	0.00	-24.43	14,456,542.83	1,729,989.17	39.80680137	-80.68105375
2,700.00	2.00	270.00	2,699.53	0.00	-27.92	14,456,542.83	1,729,985.68	39.80680141	-80.68106618
2,800.00	2.00	270.00	2,799.47	0.00	-31.41	14,456,542.83	1,729,982.19	39.80680144	-80.68107860
2,900.00	2.00	270.00	2,899.41	0.00	-34.90	14,456,542.83	1,729,978.70	39.80680147	-80.68109103
3,000.00	2.00	270.00	2,999.35	0.00	-38.39	14,456,542.83	1,729,975.21	39.80680151	-80.68110346
3,100.00	2.00	270.00	3,099.29	0.00	-41.88	14,456,542.83	1,729,971.72	39.80680154	-80.68111588
3,200.00	2.00	270.00	3,199.23	0.00	-45.37	14,456,542.83	1,729,968.23	39.80680158	-80.68112831
3,300.00	2.00	270.00	3,299.17	0.00	-48.86	14,456,542.83	1,729,964.74	39.80680161	-80.68114074
3,400.00	2.00	270.00	3,399.11	0.00	-52.35	14,456,542.83	1,729,961.25	39.80680164	-80.68115316
3,500.00	2.00	270.00	3,499.05	0.00	-55.84	14,456,542.83	1,729,957.76	39.80680168	-80.68116559
Begin 1°/100' drop									
3,600.00	1.00	270.00	3,599.01	0.00	-58.46	14,456,542.83	1,729,955.14	39.80680170	-80.68117491
3,700.00	0.00	270.00	3,699.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802
Begin vertical hold section									
3,800.00	0.00	270.00	3,799.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802
3,900.00	0.00	0.00	3,899.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802
4,000.00	0.00	270.00	3,999.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802
4,100.00	0.00	0.00	4,099.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802
4,200.00	0.00	270.00	4,199.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802
4,300.00	0.00	270.00	4,299.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802
4,400.00	0.00	270.00	4,399.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802
4,500.00	0.00	270.00	4,499.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802
4,600.00	0.00	270.00	4,599.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802
4,700.00	0.00	270.00	4,699.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802
4,800.00	0.00	270.00	4,799.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802
4,900.00	0.00	270.00	4,899.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802



Planning Report - Geographic

NOV 14 2019

Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Ten High 1S-14HU (B)	WV Department of Environmental Protection
Company:	Tug Hill Operating LLC	TVD Reference:	GL=1310 @ 1310.00usft	
Project:	Marshall County, West Virginia	MD Reference:	GL=1310 @ 1310.00usft	
Site:	Ten High	North Reference:	Grid	
Well:	Ten High 1S-14HU (B)	Survey Calculation Method:	Minimum Curvature	
Wellbore:	Original Hole			
Design:	rev4			

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
5,000.00	0.00	270.00	4,999.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802	
5,100.00	0.00	0.00	5,099.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802	
5,200.00	0.00	270.00	5,199.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802	
5,300.00	0.00	0.00	5,299.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802	
5,400.00	0.00	270.00	5,399.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802	
5,500.00	0.00	270.00	5,499.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802	
5,600.00	0.00	270.00	5,599.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802	
5,700.00	0.00	270.00	5,699.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802	
5,800.00	0.00	0.00	5,799.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802	
5,900.00	0.00	270.00	5,899.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802	
6,000.00	0.00	0.00	5,999.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802	
6,100.00	0.00	270.00	6,099.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802	
6,200.00	0.00	270.00	6,199.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802	
6,300.00	0.00	270.00	6,299.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802	
6,400.00	0.00	270.00	6,399.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802	
6,500.00	0.00	270.00	6,499.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802	
6,600.00	0.00	270.00	6,599.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802	
6,700.00	0.00	270.00	6,699.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802	
6,800.00	0.00	0.00	6,799.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802	
6,900.00	0.00	270.00	6,899.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802	
7,000.00	0.00	0.00	6,999.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802	
7,100.00	0.00	270.00	7,099.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802	
7,200.00	0.00	270.00	7,199.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802	
7,300.00	0.00	270.00	7,299.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802	
7,400.00	0.00	270.00	7,399.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802	
7,500.00	0.00	270.00	7,499.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802	
7,600.00	0.00	270.00	7,599.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802	
7,700.00	0.00	270.00	7,699.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802	
7,800.00	0.00	270.00	7,799.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802	
7,900.00	0.00	270.00	7,899.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802	
8,000.00	0.00	270.00	7,999.01	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802	
8,001.00	0.00	270.00	8,000.00	0.00	-59.33	14,456,542.83	1,729,954.27	39.80680171	-80.68117802	
Begin 2°/100' build										
8,100.00	1.98	254.83	8,098.99	-0.45	-60.98	14,456,542.39	1,729,952.62	39.80680050	-80.68118390	
8,200.00	3.98	254.83	8,198.85	-1.81	-66.00	14,456,541.03	1,729,947.60	39.80679681	-80.68120178	
8,300.00	5.98	254.83	8,298.46	-4.08	-74.38	14,456,538.75	1,729,939.22	39.80679066	-80.68123164	
8,400.00	7.98	254.83	8,397.72	-7.26	-86.10	14,456,535.57	1,729,927.49	39.80678204	-80.68127345	
8,500.00	9.98	254.83	8,496.49	-11.34	-101.17	14,456,531.49	1,729,912.43	39.80677097	-80.68132714	
8,600.00	11.98	254.83	8,594.65	-16.33	-119.55	14,456,526.51	1,729,894.05	39.80675746	-80.68139265	
8,700.00	13.98	254.83	8,692.09	-22.21	-141.23	14,456,520.63	1,729,872.37	39.80674153	-80.68146992	
8,800.00	15.98	254.83	8,788.69	-28.97	-166.18	14,456,513.86	1,729,847.42	39.80672320	-80.68155883	
8,900.00	17.98	254.83	8,884.32	-36.61	-194.36	14,456,506.22	1,729,819.24	39.80670249	-80.68165928	
9,000.00	19.98	254.83	8,978.88	-45.12	-225.75	14,456,497.71	1,729,787.85	39.80667942	-80.68177116	
9,100.00	21.98	254.83	9,072.25	-54.49	-260.30	14,456,488.34	1,729,753.30	39.80665403	-80.68189432	
9,159.00	23.16	254.83	9,126.73	-60.42	-282.16	14,456,482.42	1,729,731.44	39.80663797	-80.68197221	
Begin 23.16° tangent										
9,200.00	23.16	254.83	9,164.42	-64.64	-297.72	14,456,478.20	1,729,715.88	39.80662653	-80.68202768	
9,300.00	23.16	254.83	9,256.36	-74.93	-335.68	14,456,467.91	1,729,677.92	39.80659864	-80.68216298	
9,400.00	23.16	254.83	9,348.30	-85.22	-373.64	14,456,457.61	1,729,639.96	39.80657074	-80.68229827	
9,500.00	23.16	254.83	9,440.25	-95.51	-411.60	14,456,447.32	1,729,602.00	39.80654285	-80.68243356	
9,600.00	23.16	254.83	9,532.19	-105.81	-449.56	14,456,437.03	1,729,564.04	39.80651495	-80.68256886	
9,700.00	23.16	254.83	9,624.13	-116.10	-487.52	14,456,426.74	1,729,526.08	39.80648706	-80.68270415	
9,800.00	23.16	254.83	9,716.07	-126.39	-525.48	14,456,416.44	1,729,488.12	39.80645916	-80.68283944	
9,900.00	23.16	254.83	9,808.01	-136.68	-563.44	14,456,406.15	1,729,450.16	39.80643127	-80.68297473	

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WV Department of
Environmental Protection

Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Ten High 1S-14HU (B)
Company:	Tug Hill Operating LLC	TVD Reference:	GL=1310 @ 1310.00usft
Project:	Marshall County, West Virginia	MD Reference:	GL=1310 @ 1310.00usft
Site:	Ten High	North Reference:	Grid
Well:	Ten High 1S-14HU (B)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev4		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
10,000.00	23.16	254.83	9,899.95	-146.97	-601.40	14,456,395.86	1,729,412.20	39.80640337	-80.68311003	
10,100.00	23.16	254.83	9,991.89	-157.27	-639.36	14,456,385.57	1,729,374.24	39.80637548	-80.68324532	
10,200.00	23.16	254.83	10,083.83	-167.56	-677.32	14,456,375.28	1,729,336.28	39.80634758	-80.68338061	
10,300.00	23.16	254.83	10,175.77	-177.85	-715.28	14,456,364.98	1,729,298.32	39.80631968	-80.68351590	
10,400.00	23.16	254.83	10,267.71	-188.14	-753.24	14,456,354.69	1,729,260.36	39.80629179	-80.68365120	
10,500.00	23.16	254.83	10,359.65	-198.44	-791.20	14,456,344.40	1,729,222.40	39.80626389	-80.68378649	
10,600.00	23.16	254.83	10,451.60	-208.73	-829.16	14,456,334.11	1,729,184.44	39.80623600	-80.68392178	
10,700.00	23.16	254.83	10,543.54	-219.02	-867.12	14,456,323.81	1,729,146.48	39.80620810	-80.68405707	
10,761.90	23.16	254.83	10,600.45	-225.39	-890.62	14,456,317.44	1,729,122.98	39.80619083	-80.68414082	
Begin 6°/100' build/turm										
10,800.00	22.13	249.52	10,635.61	-229.86	-904.57	14,456,312.97	1,729,109.03	39.80617868	-80.68419057	
10,900.00	20.38	233.64	10,728.88	-246.79	-936.27	14,456,296.04	1,729,077.32	39.80613249	-80.68430366	
11,000.00	20.25	216.30	10,822.75	-271.09	-960.57	14,456,271.74	1,729,053.03	39.80606600	-80.68439047	
11,100.00	21.77	200.05	10,916.17	-302.49	-977.19	14,456,240.35	1,729,036.41	39.80597994	-80.68445005	
11,200.00	24.63	186.61	11,008.15	-340.64	-985.96	14,456,202.20	1,729,027.64	39.80587526	-80.68448174	
11,300.00	28.43	176.18	11,097.65	-385.12	-986.77	14,456,157.71	1,729,026.83	39.80575310	-80.68448519	
11,400.00	32.84	168.18	11,183.71	-435.46	-979.62	14,456,107.38	1,729,033.98	39.80561479	-80.68446038	
11,500.00	37.65	161.96	11,265.38	-491.09	-964.59	14,456,051.74	1,729,049.01	39.80546186	-80.68440756	
11,600.00	42.73	156.98	11,341.76	-551.41	-941.85	14,455,991.42	1,729,071.75	39.80529599	-80.68432732	
11,700.00	47.98	152.90	11,412.03	-615.76	-911.63	14,455,927.07	1,729,101.97	39.80511897	-80.68422055	
11,793.51	53.00	149.65	11,471.51	-678.96	-876.91	14,455,863.88	1,729,136.69	39.80494509	-80.68409772	
Begin 8°/100' build/turm										
11,800.00	53.52	149.65	11,475.39	-683.44	-874.28	14,455,859.39	1,729,139.32	39.80493274	-80.68408842	
11,900.00	61.52	149.65	11,529.05	-756.18	-831.69	14,455,786.65	1,729,181.91	39.80473258	-80.68393769	
12,000.00	69.52	149.65	11,570.46	-834.66	-785.74	14,455,708.18	1,729,227.85	39.80451662	-80.68377507	
12,100.00	77.52	149.65	11,598.80	-917.34	-737.33	14,455,625.50	1,729,276.27	39.80428909	-80.68360373	
12,200.00	85.52	149.65	11,613.54	-1,002.62	-687.40	14,455,540.21	1,729,326.20	39.80405439	-80.68342701	
12,243.51	89.00	149.65	11,615.62	-1,040.12	-665.44	14,455,502.72	1,729,348.16	39.80395120	-80.68334930	
Begin 89.00° lateral										
12,300.00	89.00	149.65	11,616.61	-1,088.86	-636.90	14,455,453.97	1,729,376.70	39.80381707	-80.68324830	
12,400.00	89.00	149.65	11,618.35	-1,175.14	-586.38	14,455,367.69	1,729,427.22	39.80357963	-80.68306951	
12,500.00	89.00	149.65	11,620.10	-1,261.42	-535.86	14,455,281.41	1,729,477.74	39.80334218	-80.68289072	
12,600.00	89.00	149.65	11,621.84	-1,347.71	-485.34	14,455,195.13	1,729,528.26	39.80310474	-80.68271193	
12,700.00	89.00	149.65	11,623.59	-1,433.99	-434.82	14,455,108.84	1,729,578.78	39.80286729	-80.68253314	
12,800.00	89.00	149.65	11,625.33	-1,520.27	-384.30	14,455,022.56	1,729,629.30	39.80262985	-80.68235435	
12,900.00	89.00	149.65	11,627.08	-1,606.55	-333.78	14,454,936.28	1,729,679.82	39.80239240	-80.68217556	
13,000.00	89.00	149.65	11,628.82	-1,692.84	-283.26	14,454,850.00	1,729,730.34	39.80215496	-80.68199678	
13,100.00	89.00	149.65	11,630.57	-1,779.12	-232.74	14,454,763.72	1,729,780.86	39.80191751	-80.68181800	
13,200.00	89.00	149.65	11,632.31	-1,865.40	-182.22	14,454,677.43	1,729,831.38	39.80168007	-80.68163921	
13,300.00	89.00	149.65	11,634.06	-1,951.68	-131.70	14,454,591.15	1,729,881.90	39.80144262	-80.68146043	
13,400.00	89.00	149.65	11,635.80	-2,037.97	-81.18	14,454,504.87	1,729,932.42	39.80120517	-80.68128165	
13,500.00	89.00	149.65	11,637.55	-2,124.25	-30.66	14,454,418.59	1,729,982.94	39.80096773	-80.68110287	
13,600.00	89.00	149.65	11,639.29	-2,210.53	19.86	14,454,332.30	1,730,033.46	39.80073028	-80.68092409	
13,700.00	89.00	149.65	11,641.04	-2,296.81	70.38	14,454,246.02	1,730,083.98	39.80049283	-80.68074532	
13,800.00	89.00	149.65	11,642.78	-2,383.10	120.90	14,454,159.74	1,730,134.50	39.80025539	-80.68056654	
13,900.00	89.00	149.65	11,644.53	-2,469.38	171.42	14,454,073.46	1,730,185.02	39.80001794	-80.68038777	
14,000.00	89.00	149.65	11,646.28	-2,555.66	221.95	14,453,987.17	1,730,235.54	39.79978049	-80.68020899	
14,100.00	89.00	149.65	11,648.02	-2,641.94	272.47	14,453,900.89	1,730,286.06	39.79954304	-80.68003022	
14,200.00	89.00	149.65	11,649.77	-2,728.22	322.99	14,453,814.61	1,730,336.59	39.79930559	-80.67985145	
14,300.00	89.00	149.65	11,651.51	-2,814.51	373.51	14,453,728.33	1,730,387.11	39.79906814	-80.67967268	
14,400.00	89.00	149.65	11,653.26	-2,900.79	424.03	14,453,642.04	1,730,437.63	39.79883070	-80.67949391	
14,500.00	89.00	149.65	11,655.00	-2,987.07	474.55	14,453,555.76	1,730,488.15	39.79859325	-80.67931514	
14,600.00	89.00	149.65	11,656.75	-3,073.35	525.07	14,453,469.48	1,730,538.67	39.79835580	-80.67913638	
14,700.00	89.00	149.65	11,658.49	-3,159.64	575.59	14,453,383.20	1,730,589.19	39.79811835	-80.67895761	

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Project:	Marshall County, West Virginia	MD Reference:	GL=1310 @ 1310.00usft
Site:	Ten High	North Reference:	Grid
Well:	Ten High 1S-14HU (B)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev4		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
14,800.00	89.00	149.65	11,660.24	-3,245.92	626.11	14,453,296.92	1,730,639.71	39.79788090	-80.67877885	
14,900.00	89.00	149.65	11,661.98	-3,332.20	676.63	14,453,210.63	1,730,690.23	39.79764345	-80.67860009	
15,000.00	89.00	149.65	11,663.73	-3,418.48	727.15	14,453,124.35	1,730,740.75	39.79740599	-80.67842133	
15,100.00	89.00	149.65	11,665.47	-3,504.77	777.67	14,453,038.07	1,730,791.27	39.79716854	-80.67824257	
15,200.00	89.00	149.65	11,667.22	-3,591.05	828.19	14,452,951.79	1,730,841.79	39.79693109	-80.67806381	
15,300.00	89.00	149.65	11,668.96	-3,677.33	878.71	14,452,865.50	1,730,892.31	39.79669364	-80.67788505	
15,400.00	89.00	149.65	11,670.71	-3,763.61	929.23	14,452,779.22	1,730,942.83	39.79645619	-80.67770630	
15,500.00	89.00	149.65	11,672.45	-3,849.90	979.75	14,452,692.94	1,730,993.35	39.79621874	-80.67752754	
15,600.00	89.00	149.65	11,674.20	-3,936.18	1,030.27	14,452,606.66	1,731,043.87	39.79598128	-80.67734879	
15,700.00	89.00	149.65	11,675.94	-4,022.46	1,080.79	14,452,520.37	1,731,094.39	39.79574383	-80.67717004	
15,800.00	89.00	149.65	11,677.69	-4,108.74	1,131.31	14,452,434.09	1,731,144.91	39.79550638	-80.67699128	
15,900.00	89.00	149.65	11,679.43	-4,195.02	1,181.83	14,452,347.81	1,731,195.43	39.79526892	-80.67681253	
16,000.00	89.00	149.65	11,681.18	-4,281.31	1,232.35	14,452,261.53	1,731,245.95	39.79503147	-80.67663379	
16,100.00	89.00	149.65	11,682.93	-4,367.59	1,282.87	14,452,175.25	1,731,296.47	39.79479402	-80.67645504	
16,200.00	89.00	149.65	11,684.67	-4,453.87	1,333.39	14,452,088.96	1,731,346.99	39.79455656	-80.67627629	
16,300.00	89.00	149.65	11,686.42	-4,540.15	1,383.91	14,452,002.68	1,731,397.51	39.79431911	-80.67609755	
16,400.00	89.00	149.65	11,688.16	-4,626.44	1,434.43	14,451,916.40	1,731,448.03	39.79408165	-80.67591880	
16,500.00	89.00	149.65	11,689.91	-4,712.72	1,484.95	14,451,830.12	1,731,498.55	39.79384420	-80.67574006	
16,600.00	89.00	149.65	11,691.65	-4,799.00	1,535.48	14,451,743.83	1,731,549.07	39.79360674	-80.67556132	
16,700.00	89.00	149.65	11,693.40	-4,885.28	1,586.00	14,451,657.55	1,731,599.60	39.79336929	-80.67538258	
16,800.00	89.00	149.65	11,695.14	-4,971.57	1,636.52	14,451,571.27	1,731,650.12	39.79313183	-80.67520384	
16,900.00	89.00	149.65	11,696.89	-5,057.85	1,687.04	14,451,484.99	1,731,700.64	39.79289437	-80.67502510	
17,000.00	89.00	149.65	11,698.63	-5,144.13	1,737.56	14,451,398.70	1,731,751.16	39.79265692	-80.67484637	
17,100.00	89.00	149.65	11,700.38	-5,230.41	1,788.08	14,451,312.42	1,731,801.68	39.79241946	-80.67466763	
17,200.00	89.00	149.65	11,702.12	-5,316.70	1,838.60	14,451,226.14	1,731,852.20	39.79218200	-80.67448890	
17,300.00	89.00	149.65	11,703.87	-5,402.98	1,889.12	14,451,139.86	1,731,902.72	39.79194455	-80.67431017	
17,400.00	89.00	149.65	11,705.61	-5,489.26	1,939.64	14,451,053.57	1,731,953.24	39.79170709	-80.67413143	
17,500.00	89.00	149.65	11,707.36	-5,575.54	1,990.16	14,450,967.29	1,732,003.76	39.79146963	-80.67395270	
17,600.00	89.00	149.65	11,709.10	-5,661.82	2,040.68	14,450,881.01	1,732,054.28	39.79123217	-80.67377397	
17,700.00	89.00	149.65	11,710.85	-5,748.11	2,091.20	14,450,794.73	1,732,104.80	39.79099471	-80.67359525	
17,800.00	89.00	149.65	11,712.59	-5,834.39	2,141.72	14,450,708.45	1,732,155.32	39.79075726	-80.67341652	
17,900.00	89.00	149.65	11,714.34	-5,920.67	2,192.24	14,450,622.16	1,732,205.84	39.79051980	-80.67323779	
18,000.00	89.00	149.65	11,716.08	-6,006.95	2,242.76	14,450,535.88	1,732,256.36	39.79028234	-80.67305907	
18,100.00	89.00	149.65	11,717.83	-6,093.24	2,293.28	14,450,449.60	1,732,306.88	39.79004488	-80.67288035	
18,200.00	89.00	149.65	11,719.58	-6,179.52	2,343.80	14,450,363.32	1,732,357.40	39.78980742	-80.67270163	
18,300.00	89.00	149.65	11,721.32	-6,265.80	2,394.32	14,450,277.03	1,732,407.92	39.78956996	-80.67252291	
18,400.00	89.00	149.65	11,723.07	-6,352.08	2,444.84	14,450,190.75	1,732,458.44	39.78933250	-80.67234419	
18,500.00	89.00	149.65	11,724.81	-6,438.37	2,495.36	14,450,104.47	1,732,508.96	39.78909504	-80.67216547	
18,600.00	89.00	149.65	11,726.56	-6,524.65	2,545.88	14,450,018.19	1,732,559.48	39.78885758	-80.67198675	
18,700.00	89.00	149.65	11,728.30	-6,610.93	2,596.40	14,449,931.90	1,732,610.00	39.78862011	-80.67180804	
18,800.00	89.00	149.65	11,730.05	-6,697.21	2,646.92	14,449,845.62	1,732,660.52	39.78838265	-80.67162932	
18,900.00	89.00	149.65	11,731.79	-6,783.50	2,697.44	14,449,759.34	1,732,711.04	39.78814519	-80.67145061	
19,000.00	89.00	149.65	11,733.54	-6,869.78	2,747.96	14,449,673.06	1,732,761.56	39.78790773	-80.67127190	
19,100.00	89.00	149.65	11,735.28	-6,956.06	2,798.49	14,449,586.77	1,732,812.08	39.78767027	-80.67109319	
19,200.00	89.00	149.65	11,737.03	-7,042.34	2,849.01	14,449,500.49	1,732,862.61	39.78743280	-80.67091448	
19,300.00	89.00	149.65	11,738.77	-7,128.62	2,899.53	14,449,414.21	1,732,913.13	39.78719534	-80.67073577	
19,400.00	89.00	149.65	11,740.52	-7,214.91	2,950.05	14,449,327.93	1,732,963.65	39.78695788	-80.67055706	
19,500.00	89.00	149.65	11,742.26	-7,301.19	3,000.57	14,449,241.65	1,733,014.17	39.78672041	-80.67037835	
19,600.00	89.00	149.65	11,744.01	-7,387.47	3,051.09	14,449,155.36	1,733,064.69	39.78648295	-80.67019965	
19,700.00	89.00	149.65	11,745.75	-7,473.75	3,101.61	14,449,069.08	1,733,115.21	39.78624549	-80.67002095	
19,800.00	89.00	149.65	11,747.50	-7,560.04	3,152.13	14,448,982.80	1,733,165.73	39.78600802	-80.66984224	
19,900.00	89.00	149.65	11,749.24	-7,646.32	3,202.65	14,448,896.52	1,733,216.25	39.78577056	-80.66966354	
20,000.00	89.00	149.65	11,750.99	-7,732.60	3,253.17	14,448,810.23	1,733,266.77	39.78553309	-80.66948484	
20,100.00	89.00	149.65	11,752.73	-7,818.88	3,303.69	14,448,723.95	1,733,317.29	39.78529563	-80.66930615	
20,200.00	89.00	149.65	11,754.48	-7,905.17	3,354.21	14,448,637.67	1,733,367.81	39.78505816	-80.66912745	



Planning Report - Geographic

Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Ten High 1S-14HU (B)
Company:	Tug Hill Operating LLC	TVD Reference:	GL=1310 @ 1310.00usft
Project:	Marshall County, West Virginia	MD Reference:	GL=1310 @ 1310.00usft
Site:	Ten High	North Reference:	Grid
Well:	Ten High 1S-14HU (B)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev4		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
20,300.00	89.00	149.65	11,756.23	-7,991.45	3,404.73	14,448,551.39	1,733,418.33	39.78482070	-80.66894875	
20,400.00	89.00	149.65	11,757.97	-8,077.73	3,455.25	14,448,465.10	1,733,468.85	39.78458323	-80.66877006	
20,500.00	89.00	149.65	11,759.72	-8,164.01	3,505.77	14,448,378.82	1,733,519.37	39.78434576	-80.66859136	
20,600.00	89.00	149.65	11,761.46	-8,250.30	3,556.29	14,448,292.54	1,733,569.89	39.78410830	-80.66841267	
20,700.00	89.00	149.65	11,763.21	-8,336.58	3,606.81	14,448,206.26	1,733,620.41	39.78387083	-80.66823398	
20,800.00	89.00	149.65	11,764.95	-8,422.86	3,657.33	14,448,119.97	1,733,670.93	39.78363336	-80.66805529	
20,900.00	89.00	149.65	11,766.70	-8,509.14	3,707.85	14,448,033.69	1,733,721.45	39.78339590	-80.66787660	
21,000.00	89.00	149.65	11,768.44	-8,595.42	3,758.37	14,447,947.41	1,733,771.97	39.78315843	-80.66769792	
21,100.00	89.00	149.65	11,770.19	-8,681.71	3,808.89	14,447,861.13	1,733,822.49	39.78292096	-80.66751923	
21,200.00	89.00	149.65	11,771.93	-8,767.99	3,859.41	14,447,774.85	1,733,873.01	39.78268349	-80.66734054	
21,300.00	89.00	149.65	11,773.68	-8,854.27	3,909.93	14,447,688.56	1,733,923.53	39.78244602	-80.66716186	
21,400.00	89.00	149.65	11,775.42	-8,940.55	3,960.45	14,447,602.28	1,733,974.05	39.78220856	-80.66698318	
21,500.00	89.00	149.65	11,777.17	-9,026.84	4,010.97	14,447,516.00	1,734,024.57	39.78197109	-80.66680450	
21,600.00	89.00	149.65	11,778.91	-9,113.12	4,061.50	14,447,429.72	1,734,075.09	39.78173362	-80.66662582	
21,604.72	89.00	149.65	11,779.00	-9,117.19	4,063.88	14,447,425.64	1,734,077.48	39.78172241	-80.66661738	
PBHL/TD 21604.72 MD/11779.00 TVD										
21,604.73	89.00	149.65	11,779.00	-9,117.20	4,063.88	14,447,425.64	1,734,077.48	39.78172239	-80.66661737	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
Ten High 1S-14HU LP 5'	0.00	0.00	11,609.00	-747.84	-824.90	14,455,794.99	1,729,188.70	39.80475542	-80.68391340	
- plan misses target center by 73.56usft at 11929.73usft MD (11542.68 TVD, -778.98 N, -818.35 E)										
- Point										
Ten High 1S-14HU LP	0.00	0.00	11,609.00	-724.59	-781.59	14,455,818.25	1,729,232.01	39.80481885	-80.68375890	
- plan misses target center by 93.26usft at 11931.38usft MD (11543.41 TVD, -780.26 N, -817.59 E)										
- Point										
Ten High 1S-14HU BHL	0.00	0.00	11,779.00	-9,117.20	4,063.88	14,447,425.64	1,734,077.48	39.78172239	-80.66661737	
- plan hits target center										
- Point										

Casing Points						
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")		
1,175.00	1,175.00	20" Casing @ 1175 TVD	20	24		
2,980.64	2,980.00	13 3/8" Casing @ 2980 TVD	13-3/8	17-1/2		
10,679.84	10,525.00	9 5/8" Casing @ 10525 TVD	9-5/8	12-1/4		

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Office of Oil and Gas

NOV 14 2019

WV Department of
Environmental Protection

4705101966 MOD



Planning Report - Geographic

Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Ten High 1S-14HU (B)
Company:	Tug Hill Operating LLC	TVD Reference:	GL=1310 @ 1310.00usft
Project:	Marshall County, West Virginia	MD Reference:	GL=1310 @ 1310.00usft
Site:	Ten High	North Reference:	Grid
Well:	Ten High 1S-14HU (B)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev4		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
1,800.00	1,800.00	0.00	0.00	KOP Begin 1°/100' build	
2,000.00	1,999.96	0.00	-3.49	Begin 2.00° tangent	
3,500.00	3,499.05	0.00	-55.84	Begin 1°/100' drop	
3,700.00	3,699.01	0.00	-59.33	Begin vertical hold section	
8,001.00	8,000.00	0.00	-59.33	Begin 2°/100' build	
9,159.00	9,126.73	-60.42	-282.16	Begin 23.16° tangent	
10,761.90	10,600.45	-225.39	-890.62	Begin 6°/100' build/turn	
11,793.51	11,471.51	-678.96	-876.91	Begin 8°/100' build/turn	
12,243.51	11,615.62	-1,040.12	-665.44	Begin 89.00° lateral	
21,604.72	11,779.00	-9,117.19	4,063.88	PBHL/TD 21604.72 MD/11779.00 TVD	

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NOV 14 2019

WV Department of
Environmental Protection

4705101966



TUG HILL
OPERATING

Well Site Safety Plan

Tug Hill Operating, LLC

ju
9/6/19

Well Name: Ten High 1S-14HU

Pad Location: Ten High Pad

Wetzel County, West Virginia

UTM (meters), NAD83, Zone 17:

Northing: 4,406,363.07

Easting: 527,309.20

September 2019

**TEN HIGH 1S LEASE
UTICA UNIT - 328.13 AC. ±
WELL 14HU
TUG HILL OPERATING**

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

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

NAD'83 S.P.C.(FT)	N. 478,158.76	E. 1,636,733.80
NAD'83 GEO.	LAT-(N) 39.806801	LONG-(W) 80.680967
NAD'83 UTM (M)	N. 4,406,363.07	E. 527,309.20

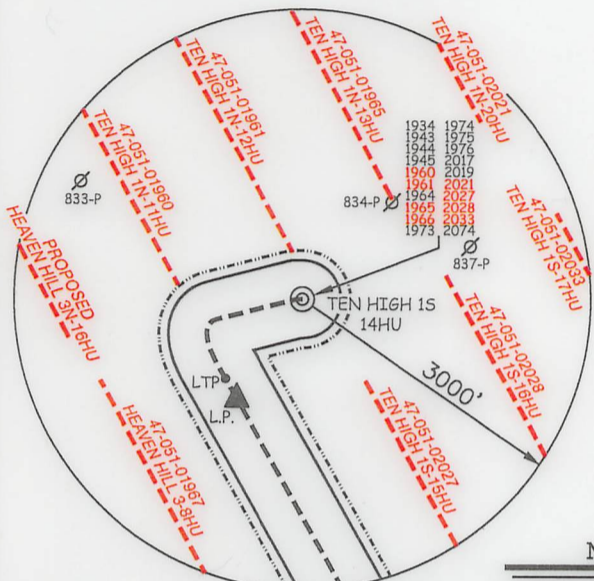
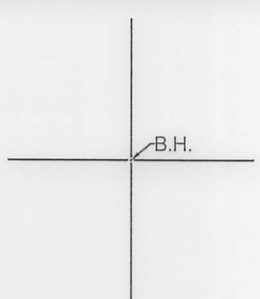
LANDING POINT

NAD'83 S.P.C.(FT)	N. 477,129.6	E. 1,636,050.8
NAD'83 GEO.	LAT-(N) 39.803951	LONG-(W) 80.683349
NAD'83 UTM (M)	N. 4,406,046.0	E. 527,106.4

BOTTOM HOLE

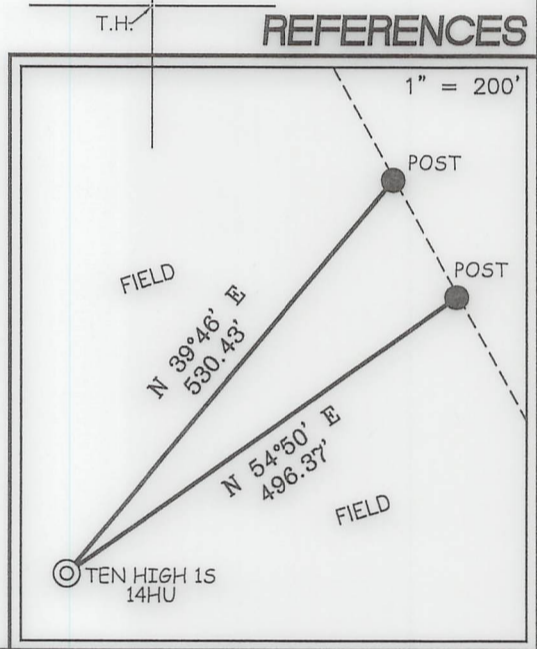
NAD'83 S.P.C.(FT)	N. 468,971.9	E. 1,640,646.1
NAD'83 GEO.	LAT-(N) 39.781722	LONG-(W) 80.666617
NAD'83 UTM (M)	N. 4,403,584.1	E. 528,547.9

T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°37'30"
3,622' B.H.
9,665' T.H.



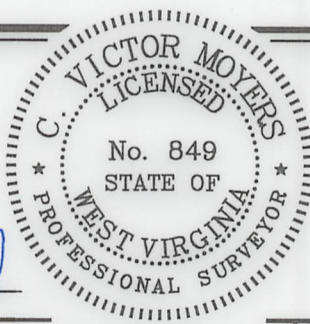
NOTES ON SURVEY

- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'.
- PROPOSED LATERAL OR TOP HOLE OF TEN HIGH 1S-14HU (47-051-01966) IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF THE FOLLOWING:
HEAVEN HILL 3-6HU (47-051-01968),
HEAVEN HILL 3-7HU (47-051-01969),
HEAVEN HILL 3-8HU (47-051-01967),
HEAVEN HILL 3-10HU (47-051-02016),
PROPOSED HEAVEN HILL 3N-15HU,
PROPOSED HEAVEN HILL 3N-16HU,
TEN HIGH 1N-11HU (47-051-01960),
TEN HIGH 1N-12HU (47-051-01961),
TEN HIGH 1N-13HU (47-051-01965),
TEN HIGH 1S-15HU (47-051-02027),
TEN HIGH 1S-16HU (47-051-02028),
TEN HIGH 1S-17HU (47-051-02033),
TEN HIGH 1N-20HU (47-051-02021).



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
slsvv.com

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. 849 *C. Victor Moyers*

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE AUGUST 14, 20 17
REVISED 01/12/18, 03/22/18, 04/05/18, 10/01/19, 11/12/19, 07/08/20
OPERATORS WELL NO. TEN HIGH 1S-14HU
API WELL NO. 47 - 051 - 01966 *Med*
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8655P14HUR6.dwg
TEN HIGH 1S-14HU Rev4
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

WELL TYPE: OIL GAS INJECTION WASTE DISPOSAL "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: GROUND = 1,322.30' ELEVATION PROPOSED = 1,310.06' WATERSHED MIDDLE BOWMAN RUN OF FISH CREEK (HUC 10)
DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'

SURFACE OWNER LAWRENCE & SHIRLEY CONKLE ESTS ACREAGE 139.79±
ROYALTY OWNER ANDY PAUL & JACKIE KUHN, ET AL - SEE ADDITIONAL SHEETS ACREAGE 139.79±

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION POINT PLEASANT ESTIMATED DEPTH TVD: 11,911' / TMD: 21,605'

WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS CT CORPORATION SYSTEM
FORT WORTH, TX 76107 ADDRESS 5400 D BIG TYLER ROAD
CHARLESTON, WV 25313

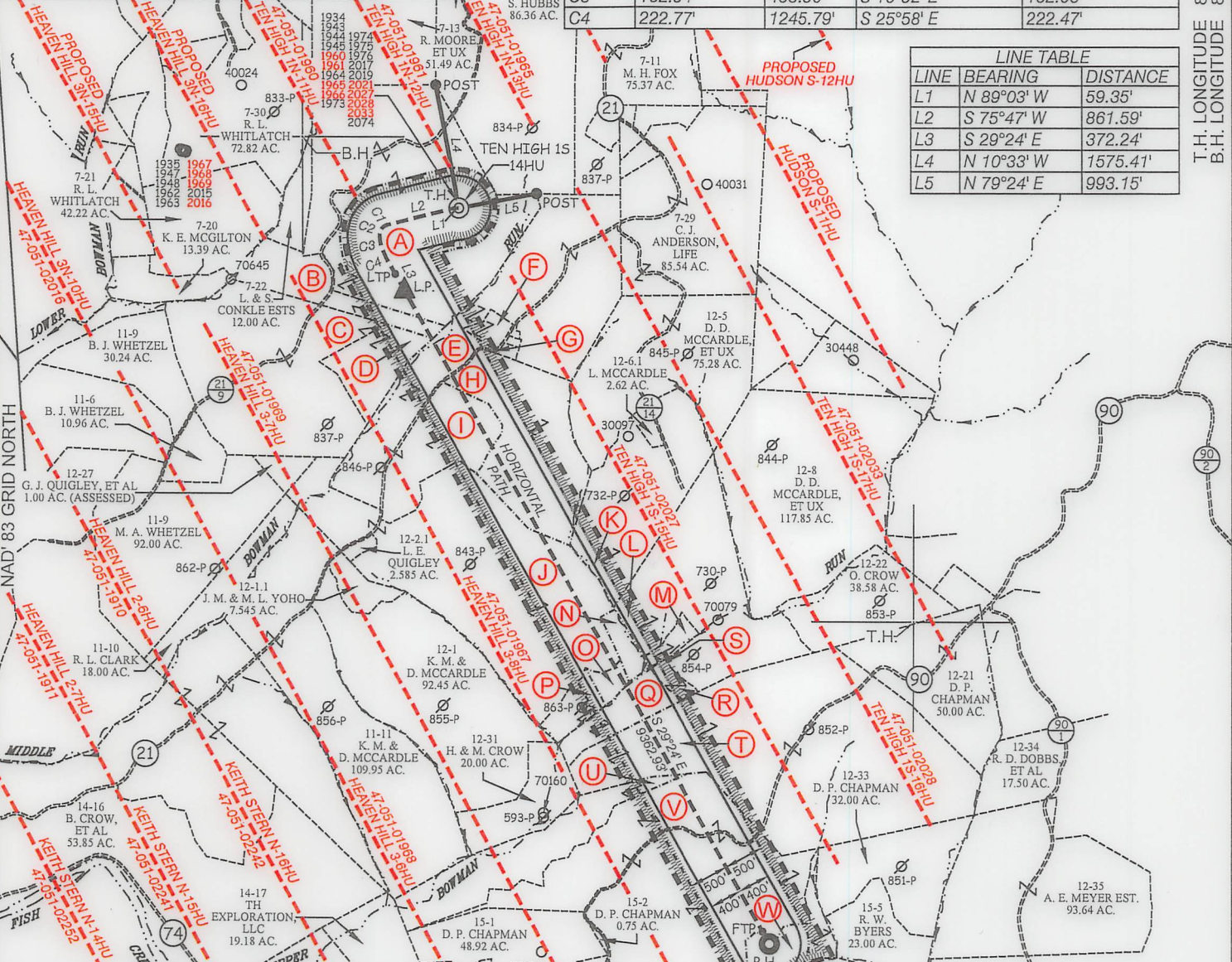
COUNTY NAME
PERMIT

**TEN HIGH 1S LEASE
UTICA UNIT - 328.13 AC. ±
WELL 14HU
TUG HILL OPERATING**

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

CURVE TABLE				
CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	85.10'	129.73'	S 57°48' W	83.59'
C2	96.33'	162.55'	S 17°21' W	94.92'
C3	162.94'	458.50'	S 10°52' E	162.08'
C4	222.77'	1245.79'	S 25°58' E	222.47'

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N 89°03' W	59.35'
L2	S 75°47' W	861.59'
L3	S 29°24' E	372.24'
L4	N 10°33' W	1575.41'
L5	N 79°24' E	993.15'



TAG	SURFACE OWNER	PARCEL	ACRES
A	LAWRENCE & SHIRLEY CONKLE ESTS	9-7-24	139.79
B	LARRY J. WHETZEL, ET UX	9-7-23	36.00
C	BRENDA J. WHETZEL	9-11-7	82.85
D	BRENDA J. WHETZEL	9-11-7.1	17.81
E	THOMAS R. & KIMBERLY WHITFIELD	9-7-25.2	76.40
F	THOMAS R. & KIMBERLY WHITFIELD	9-7-25.1	4.23
G	THOMAS R. & KIMBERLY WHITFIELD	9-7-25	0.83
H	THOMAS R. & KIMBERLY WHITFIELD	9-12-4	54.02

TAG	SURFACE OWNER	PARCEL	ACRES
I	WNEK FAMILY IRREVOCABLE TR	9-11-8	50.10
J	GERALD W. QUIGLEY, ET AL	9-12-2	139.79
K	DONALD DALE MCCARDLE, ET UX	9-12-6	53.38
L	DONALD DALE MCCARDLE, ET UX	9-12-7	53.00
M	ROBERT MCCARDLE, ET UX	9-12-29	7.50
N	TAMMY L. MITCHELL	9-12-25	5.00
O	MYRTLE ELIZABETH GARTEN	9-12-28	4.00
P	MYRTLE ELIZABETH GARTEN	9-12-30	7.26
Q	GARY L. DOBBS	9-12-37	20.00
R	MICHAEL J. GUNTO, ET UX	9-12-23	10.00
S	EVERETT F. MOORE HEIRS	9-12-24	70.00
T	DAVID P. CHAPMAN	9-12-32	150.00
U	MYRTLE ELIZABETH GARTEN	9-14-18	20.00
V	SUSAN VAN DYNE	9-15-3	167.00
W	ROBERT FRANK KOTSON, ET AL	9-15-4	26.40



12 Vanhorn Drive | P.O. Box 150 | Glenview, WV 26351 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
slswv.com

P.S. 849 *C. Victor Moyers*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

LEGEND

- UNIT BOUNDARY [Symbol]
- LEASED TRACTS INSIDE UNIT BOUNDARY [Symbol]
- SURFACE LINE [Symbol]
- PROPOSED UTICA [Symbol]
- WELL LATERAL [Symbol]
- 400' OFFSET LINE [Symbol]
- 500' OFFSET LINE [Symbol]
- TIE LINE [Symbol]
- CREEK [Symbol]
- ROAD [Symbol]
- PROPOSED FIRST TAKE POINT [Symbol]
- PROPOSED LAST TAKE POINT [Symbol]
- COUNTY ROUTE [Symbol]
- PROPOSED WELL [Symbol]
- EXISTING WELL [Symbol]
- PERMITTED WELL [Symbol]
- SURFACE OWNER (SEE TABLE) [Symbol]
- LEASE # (SEE ADDITIONAL SHEETS) [Symbol]

SCALE 1" = 2000' FILE NO. 8655P14HUR6.dwg
TEN HIGH 1S-14HU Rev4
DATE AUGUST 14, 2017
REVISED 01/12/18, 03/22/18, 04/05/18, 10/01/19, 11/12/19, 07/08/20
OPERATORS WELL NO. TEN HIGH 1S-14HU
API WELL NO. 47-051-01966
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS



WELL OPERATOR TUG HILL OPERATING, LLC ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107
DESIGNATED AGENT DIANNA STAMPER CT CORPORATION SYSTEM ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°37'30"
3,622' B.H.
9,665' T.H.

TEN HIGH 1S LEASE
 UTICA UNIT - 328.13 AC. ±
 WELL 14HU
 TUG HILL OPERATING



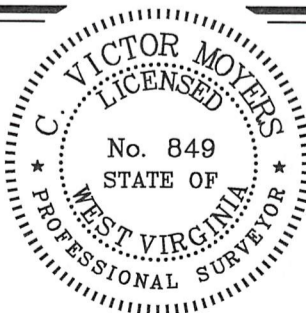
12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
 254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
 slswv.com

No.	Lease Name or No.	Tag	Parcel	Grantors, Lessors, etc.	Deed Book/Page	
1	10*15662	A	9-7-24	LARRY LEE CONKLE, ET AL	863	354
2	10*15746	B	9-7-23	BRUCE D SCHURR, ET AL	921	478
3	10*15746	C	9-11-7	BRUCE D SCHURR, ET AL	921	478
4	10*15746	D	9-11-7.1	BRUCE D SCHURR, ET AL	921	478
5	10*15481	E	9-7-25.2	DEAN P RIGBY AND SUSAN RIGBY, ET AL	908	197
6	10*47051.303.1	F	9-7-25.1	THOMAS R WHITFIELD, ET AL	890	401
7	10*47051.303.1	G	9-7-25	THOMAS R WHITFIELD, ET AL	890	401
8	10*15481	H	9-12-4	DEAN P RIGBY AND SUSAN RIGBY, ET AL	908	197
9	10*15481	I	9-11-8	DEAN P RIGBY AND SUSAN RIGBY, ET AL	908	197
10	10*15606	J	9-12-2	CHK-MAC LLC, ET AL	798	150
11	10*47051.222.1	K	9-12-6	DONALD D MCCARDLE AND LUCY MCCARDLE	879	314
12	10*16056	L	9-12-7	JEFFREY A LAUSIN AND KATHLEEN R LAUSIN, ET AL	942	443
13	10*15484	M	9-12-29	LISA R IMHOFF AND CHAD IMHOFF, ET AL	913	552
14	10*17831	N	9-12-25	TAMMY L MITCHELL AND ADAM J MITCHELL	921	131
15	10*16145	O	9-12-28	CHARLES STEVEN JOHNSON AND SHIRLEY LOUISE JOHNSON, ET AL	924	612
16	10*15461	P	9-12-30	SANDRA SUE HALL AND DAVID HALL, ET AL	905	622
17	10*47051.312.0	Q	9-12-37	JAN GRIMES SIMNACHER LEONARD A SIMNACHER	904	472
18	10*47051.311.0	R	9-12-23	MICHAEL J GUNTO AND ROSEMARY GUNTO	905	16
19	10*19724	S	9-12-24	VENABLE ROYALTY LTD A TEXAS LIMITED PARTNERSHIP	935	216
20	10*47051.140.1	T	9-12-32	DAVID P CHAPMAN & DEBORAH BORCK-CHAPMAN, ET AL	866	318
21	10*15477	U	9-14-18	RONALD A WYCINSKI, ET AL	906	241
22	10*15752	V	9-15-3	KIM O CHAMBERS AND DEBRA CHAMBERS, ET AL	906	258
23	10*16402	W	9-15-4	VALERIE L WAGNER, ET AL	921	464

FILE NO. 8655P14HUR6.dwg
 TEN HIGH 1S-14HU Rev4

DATE AUGUST 29, 20 17
 REVISED 01/12/18, 03/22/18, 04/05/18,
 10/01/19, 11/12/19, 07/08/20

OPERATORS WELL NO. TEN HIGH 1S-14HU
 API WELL NO. 47 — 051 — 01966
 STATE COUNTY PERMIT



STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS



P.S. 849 *C. Victor Moyers*

WELL OPERATOR TUG HILL OPERATING, LLC
 ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500
 FORT WORTH, TX 76107

DESIGNATED AGENT DIANNA STAMPER
 CT CORPORATION SYSTEM
 ADDRESS 5400 D BIG TYLER ROAD
 CHARLESTON, WV 25313

COUNTY NAME
 PERMIT

4705101966 MOD

WW-6A1
(5/13)

Operator's Well No. Ten High 1S-14HU

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

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

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

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
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*See attached pages

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

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

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

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

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

Lease ID	Parcel	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Book/Page		Assignment	Assignment	Assignment	Assignment
10*15662	9-7-24	A	LARRY LEE CONKLE	CHEVRON USA INC	1/8+	863	354	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 36/148
10*15663	9-7-24	A	ROY A CONKLE SR AND LORIE A CONKLE	CHEVRON USA INC	1/8+	863	311	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 36/148
10*15664	9-7-24	A	TERESA A HUGHES	CHEVRON USA INC	1/8+	863	343	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 36/148
10*15666	9-7-24	A	BRENDA J WHETZEL	CHEVRON USA INC	1/8+	863	635	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 36/148
10*16049	9-7-24	A	DANNY SHAWN KERNS AND AMY LYNN KERNS	TH EXPLORATION LLC	1/8+	905	518	N/A	N/A	N/A	N/A
10*16138	9-7-24	A	LARRY W KUHN AND VICKIE B KUHN	TH EXPLORATION LLC	1/8+	905	522	N/A	N/A	N/A	N/A
10*16139	9-7-24	A	HUBERT DEAN KUHN AND ANDREA KUHN	TH EXPLORATION LLC	1/8+	905	524	N/A	N/A	N/A	N/A
10*16140	9-7-24	A	ANDY PAUL KUHN	TH EXPLORATION LLC	1/8+	905	526	N/A	N/A	N/A	N/A
10*16141	9-7-24	A	HOWARD L KUHN AND MARY L KUHN	TH EXPLORATION LLC	1/8+	905	528	N/A	N/A	N/A	N/A
10*16820	9-7-24	A	ROBERTA ANN GIBB AND DAVID S GIBB	TH EXPLORATION LLC	1/8+	919	237	N/A	N/A	N/A	N/A
10*17365	9-7-24	A	MYSTI JOANNE GOODMAN	TH EXPLORATION LLC	1/8+	927	468	N/A	N/A	N/A	N/A
10*17370	9-7-24	A	KELLY JUNE GOODMAN	TH EXPLORATION LLC	1/8+	927	470	N/A	N/A	N/A	N/A
10*18256	9-7-24	A	JEFFREY STEPHEN GOODMAN	TH EXPLORATION LLC	1/8+	929	1	N/A	N/A	N/A	N/A
10*47051.295.10	9-7-24	A	DEENA J PALOMO	TH EXPLORATION LLC	1/8+	905	470	N/A	N/A	N/A	N/A
10*47051.295.11	9-7-24	A	REGINA D FIGUEROA AND DAVID FIGUEROA	TH EXPLORATION LLC	1/8+	905	435	N/A	N/A	N/A	N/A
10*47051.295.12	9-7-24	A	EARL D WELLMAN	TH EXPLORATION LLC	1/8+	905	432	N/A	N/A	N/A	N/A
10*47051.295.13	9-7-24	A	THE DOLLYE F WOOD REVOCABLE TRUST BY NICHOLAS CHARLES WOOD AS TRUSTEE	TH EXPLORATION LLC	1/8+	904	641	N/A	N/A	N/A	N/A
10*47051.295.3	9-7-24	A	HAZEL ARIZONA MOORE REYNOLDS	TH EXPLORATION LLC	1/8+	904	632	N/A	N/A	N/A	N/A
10*47051.295.4	9-7-24	A	LLOYD D MOORE	TH EXPLORATION LLC	1/8+	904	459	N/A	N/A	N/A	N/A
10*47051.295.5	9-7-24	A	DALE R MOORE	TH EXPLORATION LLC	1/8+	904	635	N/A	N/A	N/A	N/A
10*47051.295.6	9-7-24	A	MARY I BURKHART	TH EXPLORATION LLC	1/8+	904	638	N/A	N/A	N/A	N/A
10*47051.295.7	9-7-24	A	JEANNE V MELCHIORI	TH EXPLORATION LLC	1/8+	904	462	N/A	N/A	N/A	N/A
10*47051.295.9	9-7-24	A	JAMES E HIMELRICK JR AND KAREN HIMELRICK	TH EXPLORATION LLC	1/8+	904	465	N/A	N/A	N/A	N/A
10*15746	9-7-23	B	BRUCE D SCHURR	TH EXPLORATION LLC	1/8+	921	478	N/A	N/A	N/A	N/A
10*16021	9-7-23	B	TOMMY BONAR AND TANYA S BONAR	TH EXPLORATION LLC	1/8+	925	325	N/A	N/A	N/A	N/A
10*16115	9-7-23	B	EARL W HARRIS	TH EXPLORATION LLC	1/8+	925	329	N/A	N/A	N/A	N/A
10*16121	9-7-23	B	ISAIAH BENNETT	TH EXPLORATION LLC	1/8+	933	105	N/A	N/A	N/A	N/A
10*16247	9-7-23	B	CAROL RIGGLE PARSLEY AND JAMES DENNIS PARSLEY	TH EXPLORATION LLC	1/8+	925	327	N/A	N/A	N/A	N/A
10*17415	9-7-23	B	DILLON PITSENBARGER	TH EXPLORATION LLC	1/8+	919	241	N/A	N/A	N/A	N/A
10*17506	9-7-23	B	CHASKIA F HARRIS AND JAMES M HARRIS	TH EXPLORATION LLC	1/8+	919	239	N/A	N/A	N/A	N/A
10*17507	9-7-23	B	DEZRAY METCALF	TH EXPLORATION LLC	1/8+	919	235	N/A	N/A	N/A	N/A
10*47051.256.1	9-7-23	B	BRENDA J WHETZEL	TH EXPLORATION LLC	1/8+	881	145	N/A	N/A	N/A	N/A
10*47051.256.10	9-7-23	B	GRACE LAURA BONAR	TH EXPLORATION LLC	1/8+	905	35	N/A	N/A	N/A	N/A
10*47051.256.11	9-7-23	B	JOHN L MASON	TH EXPLORATION LLC	1/8+	905	37	N/A	N/A	N/A	N/A
10*47051.256.12	9-7-23	B	STEVEN A BOHRER	TH EXPLORATION LLC	1/8+	905	39	N/A	N/A	N/A	N/A
10*47051.256.13	9-7-23	B	WILLIAM W CRAIG	TH EXPLORATION LLC	1/8+	905	41	N/A	N/A	N/A	N/A
10*47051.256.14	9-7-23	B	HUGH R BUZZARD	TH EXPLORATION LLC	1/8+	905	43	N/A	N/A	N/A	N/A
10*47051.256.15	9-7-23	B	ROY E AND CHARLOTTE J BONAR YOHO	TH EXPLORATION LLC	1/8+	904	455	N/A	N/A	N/A	N/A
10*47051.256.16	9-7-23	B	CHARLOTTE B HUMMELL	TH EXPLORATION LLC	1/8+	905	45	N/A	N/A	N/A	N/A
10*47051.256.17	9-7-23	B	MAXINE G JOHNSON	TH EXPLORATION LLC	1/8+	904	457	N/A	N/A	N/A	N/A
10*47051.256.18	9-7-23	B	JOHN WILLIAM BONAR AND SHIRLEY BONAR	TH EXPLORATION LLC	1/8+	913	522	N/A	N/A	N/A	N/A
10*47051.256.19	9-7-23	B	MICHAEL DAVID PYLES AND CYNTHIA A PYLES	TH EXPLORATION LLC	1/8+	907	207	N/A	N/A	N/A	N/A
10*47051.256.20	9-7-23	B	JEFFREY THOMAS PYLES AND TERESA A PYLES	TH EXPLORATION LLC	1/8+	907	209	N/A	N/A	N/A	N/A
10*47051.256.21	9-7-23	B	JACK L MASON AND JEAN M MASON	TH EXPLORATION LLC	1/8+	904	626	N/A	N/A	N/A	N/A
10*47051.256.22	9-7-23	B	BEVERLY J HOPSON	TH EXPLORATION LLC	1/8+	913	581	N/A	N/A	N/A	N/A

Lease ID	Parcel	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Leed Book/Page	Assignment	Assignment	Assignment	Assignment
10*47051.256.23	9-7-23	B	ROBERT L BONAR	TH EXPLORATION LLC	1/8+	913 556	N/A	N/A	N/A	N/A
10*47051.256.24	9-7-23	B	CATHERINE BONAR PETTIT BILLIE	TH EXPLORATION LLC	1/8+	904 628	N/A	N/A	N/A	N/A
10*47051.256.7	9-7-23	B	MARILYN SUE BUMER	TH EXPLORATION LLC	1/8+	905 29	N/A	N/A	N/A	N/A
10*47051.256.8	9-7-23	B	PAMELA ANN MASON	TH EXPLORATION LLC	1/8+	905 31	N/A	N/A	N/A	N/A
10*47051.256.9	9-7-23	B	WANDA MASON SUNSHINE	TH EXPLORATION LLC	1/8+	905 33	N/A	N/A	N/A	N/A
10*15746	9-11-7.1	D	BRUCE D SCHURR	TH EXPLORATION LLC	1/8+	921 478	N/A	N/A	N/A	N/A
10*16021	9-11-7.1	D	TOMMY BONAR AND TANYA S BONAR	TH EXPLORATION LLC	1/8+	925 325	N/A	N/A	N/A	N/A
10*16115	9-11-7.1	D	EARL W HARRIS	TH EXPLORATION LLC	1/8+	925 329	N/A	N/A	N/A	N/A
10*16121	9-11-7.1	D	ISAIAH BENNETT	TH EXPLORATION LLC	1/8+	933 105	N/A	N/A	N/A	N/A
10*16247	9-11-7.1	D	CAROL RIGGLE PARSLEY AND JAMES DENNIS PARSLEY	TH EXPLORATION LLC	1/8+	925 327	N/A	N/A	N/A	N/A
10*17415	9-11-7.1	D	DILLON PITSENBARGER	TH EXPLORATION LLC	1/8+	919 241	N/A	N/A	N/A	N/A
10*17506	9-11-7.1	D	CHASKIA F HARRIS AND JAMES M HARRIS	TH EXPLORATION LLC	1/8+	919 239	N/A	N/A	N/A	N/A
10*17507	9-11-7.1	D	DEZRAY METCALF	TH EXPLORATION LLC	1/8+	919 235	N/A	N/A	N/A	N/A
10*47051.256.1	9-11-7.1	D	BRENDA J WHETZEL	TH EXPLORATION LLC	1/8+	881 145	N/A	N/A	N/A	N/A
10*47051.256.10	9-11-7.1	D	GRACE LAURA BONAR	TH EXPLORATION LLC	1/8+	905 35	N/A	N/A	N/A	N/A
10*47051.256.11	9-11-7.1	D	JOHN L MASON	TH EXPLORATION LLC	1/8+	905 37	N/A	N/A	N/A	N/A
10*47051.256.12	9-11-7.1	D	STEVEN A BOHRER	TH EXPLORATION LLC	1/8+	905 39	N/A	N/A	N/A	N/A
10*47051.256.13	9-11-7.1	D	WILLIAM W CRAIG	TH EXPLORATION LLC	1/8+	905 41	N/A	N/A	N/A	N/A
10*47051.256.14	9-11-7.1	D	HUGH R BUZZARD	TH EXPLORATION LLC	1/8+	905 43	N/A	N/A	N/A	N/A
10*47051.256.15	9-11-7.1	D	ROY E AND CHARLOTTE J BONAR YOHO	TH EXPLORATION LLC	1/8+	904 455	N/A	N/A	N/A	N/A
10*47051.256.16	9-11-7.1	D	CHARLOTTE B HUMMELL	TH EXPLORATION LLC	1/8+	905 45	N/A	N/A	N/A	N/A
10*47051.256.17	9-11-7.1	D	MAXINE G JOHNSON	TH EXPLORATION LLC	1/8+	904 457	N/A	N/A	N/A	N/A
10*47051.256.18	9-11-7.1	D	JOHN WILLIAM BONAR AND SHIRLEY BONAR	TH EXPLORATION LLC	1/8+	913 522	N/A	N/A	N/A	N/A
10*47051.256.19	9-11-7.1	D	MICHAEL DAVID PYLES AND CYNTHIA A PYLES	TH EXPLORATION LLC	1/8+	907 207	N/A	N/A	N/A	N/A
10*47051.256.20	9-11-7.1	D	JEFFREY THOMAS PYLES AND TERESA A PYLES	TH EXPLORATION LLC	1/8+	907 209	N/A	N/A	N/A	N/A
10*47051.256.21	9-11-7.1	D	JACK L MASON AND JEAN M MASON	TH EXPLORATION LLC	1/8+	904 626	N/A	N/A	N/A	N/A
10*47051.256.22	9-11-7.1	D	BEVERLY J HOPSON	TH EXPLORATION LLC	1/8+	913 581	N/A	N/A	N/A	N/A
10*47051.256.23	9-11-7.1	D	ROBERT L BONAR	TH EXPLORATION LLC	1/8+	913 556	N/A	N/A	N/A	N/A
10*47051.256.24	9-11-7.1	D	CATHERINE BONAR PETTIT BILLIE	TH EXPLORATION LLC	1/8+	904 628	N/A	N/A	N/A	N/A
10*47051.256.7	9-11-7.1	D	MARILYN SUE BUMER	TH EXPLORATION LLC	1/8+	905 29	N/A	N/A	N/A	N/A
10*47051.256.8	9-11-7.1	D	PAMELA ANN MASON	TH EXPLORATION LLC	1/8+	905 31	N/A	N/A	N/A	N/A
10*47051.256.9	9-11-7.1	D	WANDA MASON SUNSHINE	TH EXPLORATION LLC	1/8+	905 33	N/A	N/A	N/A	N/A
10*15481	9-7-25.2	E	DEAN P RIGBY AND SUSAN RIGBY	TH EXPLORATION LLC	1/8+	908 197	N/A	N/A	N/A	N/A
10*15482	9-7-25.2	E	SUSAN NELSON	TH EXPLORATION LLC	1/8+	908 203	N/A	N/A	N/A	N/A
10*15686	9-7-25.2	E	JOHN OMER BOLTZ	TH EXPLORATION LLC	1/8+	908 160	N/A	N/A	N/A	N/A
10*15750	9-7-25.2	E	SANDRA K TRULL	TH EXPLORATION LLC	1/8+	908 229	N/A	N/A	N/A	N/A
10*16058	9-7-25.2	E	MATTIE RUTH JACKSON PRESCOTT	TH EXPLORATION LLC	1/8+	908 231	N/A	N/A	N/A	N/A
10*16118	9-7-25.2	E	RUBY RIDDLE JACKSON	TH EXPLORATION LLC	1/8+	908 233	N/A	N/A	N/A	N/A
10*16297	9-7-25.2	E	ROBERT A LEADBETTER AND M REBECCA LEADBETTER	TH EXPLORATION LLC	1/8+	908 235	N/A	N/A	N/A	N/A
10*16298	9-7-25.2	E	GEOFFREY A SHIEFER AND STEPHANIE L SCHIEFER	TH EXPLORATION LLC	1/8+	908 238	N/A	N/A	N/A	N/A
10*16383	9-7-25.2	E	ROBERT STEPHEN DRIGGERS	TH EXPLORATION LLC	1/8+	908 224	N/A	N/A	N/A	N/A
10*16414	9-7-25.2	E	MARY ELIZABETH DRIGGERS	TH EXPLORATION LLC	1/8+	908 208	N/A	N/A	N/A	N/A
10*16415	9-7-25.2	E	TERENCE J ANDERSON AND NANCY J ANDERSON	TH EXPLORATION LLC	1/8+	908 213	N/A	N/A	N/A	N/A
10*16416	9-7-25.2	E	CYNTHIA HUDSON	TH EXPLORATION LLC	1/8+	908 219	N/A	N/A	N/A	N/A
10*16424	9-7-25.2	E	ROBERT J RIGBY	TH EXPLORATION LLC	1/8+	908 241	N/A	N/A	N/A	N/A
10*16448	9-7-25.2	E	RALPH L AND JUANITA L CRIM	TH EXPLORATION LLC	1/8+	908 584	N/A	N/A	N/A	N/A
10*16478	9-7-25.2	E	MARION L AND EMILY CAMPBELL	TH EXPLORATION LLC	1/8+	908 245	N/A	N/A	N/A	N/A
10*16514	9-7-25.2	E	ALEX R CAMPBELL & JOYCE A CAMPBELL	TH EXPLORATION LLC	1/8+	908 248	N/A	N/A	N/A	N/A
10*16515	9-7-25.2	E	ANNA MARIE JACKSON	TH EXPLORATION LLC	1/8+	908 251	N/A	N/A	N/A	N/A
10*16516	9-7-25.2	E	WILSON ANDREW JACKSON	TH EXPLORATION LLC	1/8+	908 253	N/A	N/A	N/A	N/A

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10*16545	9-7-25.2	E	ROBERT G FOUNDS AND ELLEN FOUNDS	TH EXPLORATION LLC	1/8+	908 260	N/A	N/A	N/A	N/A
10*16662	9-7-25.2	E	RICHARD THOMAS MIMS & VICKIE J MIMS	TH EXPLORATION LLC	1/8+	908 263	N/A	N/A	N/A	N/A
10*16666	9-7-25.2	E	MICHAEL P PYLE	TH EXPLORATION LLC	1/8+	908 255	N/A	N/A	N/A	N/A
10*16667	9-7-25.2	E	CHARLES F PYLE AND GAIL ANN PYLE	TH EXPLORATION LLC	1/8+	908 266	N/A	N/A	N/A	N/A
10*16668	9-7-25.2	E	JACK I PYLE AND MERRILEE ANN PYLE	TH EXPLORATION LLC	1/8+	908 257	N/A	N/A	N/A	N/A
10*16669	9-7-25.2	E	JOHN S DADO AND PATRICIA S DADO	TH EXPLORATION LLC	1/8+	908 269	N/A	N/A	N/A	N/A
10*16686	9-7-25.2	E	CHERYLE M TRACEY	TH EXPLORATION LLC	1/8+	927 475	N/A	N/A	N/A	N/A
10*16688	9-7-25.2	E	SHERRYL PYLE BAIR	TH EXPLORATION LLC	1/8+	927 481	N/A	N/A	N/A	N/A
10*16689	9-7-25.2	E	JOHN C FOUNDS	TH EXPLORATION LLC	1/8+	927 478	N/A	N/A	N/A	N/A
10*16690	9-7-25.2	E	RICARDO ORTIZ	TH EXPLORATION LLC	1/8+	921 352	N/A	N/A	N/A	N/A
10*16720	9-7-25.2	E	DONNA ELAINE BRASKETT	TH EXPLORATION LLC	1/8+	921 152	N/A	N/A	N/A	N/A
10*16738	9-7-25.2	E	CHARLES A RINE AND RUTH K RINE	TH EXPLORATION LLC	1/8+	908 274	N/A	N/A	N/A	N/A
10*16742	9-7-25.2	E	PAUL C WILSON	TH EXPLORATION LLC	1/8+	927 490	N/A	N/A	N/A	N/A
10*16747	9-7-25.2	E	WILLIAM DALE BRASKETT	TH EXPLORATION LLC	1/8+	921 96	N/A	N/A	N/A	N/A
10*16787	9-7-25.2	E	HERBERT B CAMPBEL & DONNA D CAMPBELL	TH EXPLORATION LLC	1/8+	942 451	N/A	N/A	N/A	N/A
10*16798	9-7-25.2	E	PATRICK A RANKIN AND ROBIN A RANKIN	TH EXPLORATION LLC	1/8+	921 364	N/A	N/A	N/A	N/A
10*16800	9-7-25.2	E	JAMES KENNETH JACKSON AND JULIE JACKSON	TH EXPLORATION LLC	1/8+	921 93	N/A	N/A	N/A	N/A
10*16802	9-7-25.2	E	CHRISTOPHER RICHARDSON AND TAMMY RICHARDSON	TH EXPLORATION LLC	1/8+	921 495	N/A	N/A	N/A	N/A
10*16804	9-7-25.2	E	WILLIAM N TAYLOR AND SHERRY D TAYLOR	TH EXPLORATION LLC	1/8+	921 510	N/A	N/A	N/A	N/A
10*16806	9-7-25.2	E	VIRGINIA WHITMAN TRUST DTD 7-25-1984 JON WHITMAN TRUSTEE	TH EXPLORATION LLC	1/8+	921 528	N/A	N/A	N/A	N/A
10*16807	9-7-25.2	E	DAVID TULLER AND SUSAN STORTS TULLER	TH EXPLORATION LLC	1/8+	921 513	N/A	N/A	N/A	N/A
10*16808	9-7-25.2	E	MICHAEL L ORTIZ	TH EXPLORATION LLC	1/8+	921 349	N/A	N/A	N/A	N/A
10*16815	9-7-25.2	E	HAROLD W PYLE	TH EXPLORATION LLC	1/8+	921 357	N/A	N/A	N/A	N/A
10*16819	9-7-25.2	E	TERESA ORTIZ BIGGS	TH EXPLORATION LLC	1/8+	921 147	N/A	N/A	N/A	N/A
10*16821	9-7-25.2	E	SHEILA BRASKETT WEICHEY	TH EXPLORATION LLC	1/8+	921 516	N/A	N/A	N/A	N/A
10*16836	9-7-25.2	E	RICK A STORTS AND LENORE A STORTS	TH EXPLORATION LLC	1/8+	921 507	N/A	N/A	N/A	N/A
10*16837	9-7-25.2	E	TERRY L POFF AND THELMA A POFF	TH EXPLORATION LLC	1/8+	927 472	N/A	N/A	N/A	N/A
10*16838	9-7-25.2	E	ROBERT G FUNARI	TH EXPLORATION LLC	1/8+	821 82	N/A	N/A	N/A	N/A
10*16839	9-7-25.2	E	JAMES B FOUNDS AND LYNN M MOWERY	TH EXPLORATION LLC	1/8+	921 73	N/A	N/A	N/A	N/A
10*16863	9-7-25.2	E	TINA MOORE	TH EXPLORATION LLC	1/8+	921 334	N/A	N/A	N/A	N/A
10*16868	9-7-25.2	E	MICHAEL W STORTS AND JESSICA M STORTS	TH EXPLORATION LLC	1/8+	921 504	N/A	N/A	N/A	N/A
10*16879	9-7-25.2	E	MARK E STORTS AND LESLEY A STORTS	TH EXPLORATION LLC	1/8+	921 501	N/A	N/A	N/A	N/A
10*16880	9-7-25.2	E	BEVERLY ANN STORTS	TH EXPLORATION LLC	1/8+	921 498	N/A	N/A	N/A	N/A
10*16902	9-7-25.2	E	MARY BARCAW DUKE	TH EXPLORATION LLC	1/8+	921 105	N/A	N/A	N/A	N/A
10*16962	9-7-25.2	E	DENNIS P FLORY AND BARBARA EZELL FLORY	TH EXPLORATION LLC	1/8+	921 70	N/A	N/A	N/A	N/A
10*16976	9-7-25.2	E	LESTER G AND CONSTANCE B NICKOLSON	TH EXPLORATION LLC	1/8+	921 343	N/A	N/A	N/A	N/A
10*16977	9-7-25.2	E	JEREMY COCHENOUR	TH EXPLORATION LLC	1/8+	921 102	N/A	N/A	N/A	N/A
10*16987	9-7-25.2	E	LAURIE EZELL PERRY	TH EXPLORATION LLC	1/8+	921 355	N/A	N/A	N/A	N/A
10*16989	9-7-25.2	E	BRITTANY RICHARDSON	TH EXPLORATION LLC	1/8+	921 376	N/A	N/A	N/A	N/A
10*16991	9-7-25.2	E	MARYELLEN FOUNDS AND LAUREN FOUNDS	TH EXPLORATION LLC	1/8+	921 79	N/A	N/A	N/A	N/A
10*16996	9-7-25.2	E	THOMAS RANKIN	TH EXPLORATION LLC	1/8+	917 75	N/A	N/A	N/A	N/A
10*17130	9-7-25.2	E	CINDY L BARGER	TH EXPLORATION LLC	1/8+	921 137	N/A	N/A	N/A	N/A
10*17155	9-7-25.2	E	JESSE LEON JR AND TERESA GAIL EZELLE	TH EXPLORATION LLC	1/8+	921 118	N/A	N/A	N/A	N/A
10*17156	9-7-25.2	E	HENRI NELL JACKSON KENT BARNES	TH EXPLORATION LLC	1/8+	921 139	N/A	N/A	N/A	N/A
10*17157	9-7-25.2	E	JAMES N REEVES JR AND RITA M REEVES	TH EXPLORATION LLC	1/8+	921 367	N/A	N/A	N/A	N/A
10*17198	9-7-25.2	E	THOMAS G AND DIANE W BAYLESS	TH EXPLORATION LLC	1/8+	921 141	N/A	N/A	N/A	N/A
10*17205	9-7-25.2	E	SANDRA JEAN WILSON	TH EXPLORATION LLC	1/8+	921 524	N/A	N/A	N/A	N/A
10*17208	9-7-25.2	E	PATRICK S GALLAGHER AND JOYCE ANN FOUNDS	TH EXPLORATION LLC	1/8+	921 86	N/A	N/A	N/A	N/A

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10*17274	9-7-25.2	E	DAVID H WILSON	TH EXPLORATION LLC	1/8+	921	474	N/A	N/A	N/A	N/A
10*17275	9-7-25.2	E	JOHN R REEVES AND MONA G REEVES	TH EXPLORATION LLC	1/8+	921	373	N/A	N/A	N/A	N/A
10*17276	9-7-25.2	E	BERTHA EZELL WYATT	TH EXPLORATION LLC	1/8+	921	526	N/A	N/A	N/A	N/A
10*17278	9-7-25.2	E	MICHAEL L EZELLE	TH EXPLORATION LLC	1/8+	921	121	N/A	N/A	N/A	N/A
10*17339	9-7-25.2	E	JOSEPH W FOUNDS	TH EXPLORATION LLC	1/8+	921	76	N/A	N/A	N/A	N/A
10*17377	9-7-25.2	E	MILTON HOWARD EZELLE JR AND ELIZABETH A EZELLE	TH EXPLORATION LLC	1/8+	921	123	N/A	N/A	N/A	N/A
10*17416	9-7-25.2	E	ANDREW M ORTIZ	TH EXPLORATION LLC	1/8+	921	346	N/A	N/A	N/A	N/A
10*17438	9-7-25.2	E	DENNIS M WILSON	TH EXPLORATION LLC	1/8+	921	476	N/A	N/A	N/A	N/A
10*17440	9-7-25.2	E	KENDRA WALISA	TH EXPLORATION LLC	1/8+	927	484	N/A	N/A	N/A	N/A
10*17441	9-7-25.2	E	RALPH J WILSON	TH EXPLORATION LLC	1/8+	921	522	N/A	N/A	N/A	N/A
10*17442	9-7-25.2	E	SHANE ALLEN AND MENDY JEAN ALLEN	TH EXPLORATION LLC	1/8+	921	134	N/A	N/A	N/A	N/A
10*17443	9-7-25.2	E	MICHELLE MORROW-BACK	TH EXPLORATION LLC	1/8+	921	337	N/A	N/A	N/A	N/A
10*17444	9-7-25.2	E	KELLY FOUNDS CAMPBELL	TH EXPLORATION LLC	1/8+	921	99	N/A	N/A	N/A	N/A
10*17449	9-7-25.2	E	PHYLLIS J BLAKE	TH EXPLORATION LLC	1/8+	921	150	N/A	N/A	N/A	N/A
10*17482	9-7-25.2	E	TERESA EZELLE RALYA AND DAVID L RALYA	TH EXPLORATION LLC	1/8+	927	487	N/A	N/A	N/A	N/A
10*17483	9-7-25.2	E	RICHARD I PYLE	TH EXPLORATION LLC	1/8+	921	359	N/A	N/A	N/A	N/A
10*17484	9-7-25.2	E	NELDA S JACKSON	TH EXPLORATION LLC	1/8+	921	330	N/A	N/A	N/A	N/A
10*17485	9-7-25.2	E	MARGIE ANN JACKSON ROBBINS GRAHAM	TH EXPLORATION LLC	1/8+	921	91	N/A	N/A	N/A	N/A
10*17526	9-7-25.2	E	JEFFREY L REEVES AND JODY L REEVES	TH EXPLORATION LLC	1/8+	921	370	N/A	N/A	N/A	N/A
10*17527	9-7-25.2	E	JAMES MICHAEL EZELL AND LUCILLE D EZELL	TH EXPLORATION LLC	1/8+	921	111	N/A	N/A	N/A	N/A
10*17538	9-7-25.2	E	CHERYL RANKIN-KING	TH EXPLORATION LLC	1/8+	952	160	N/A	N/A	N/A	N/A
10*17552	9-7-25.2	E	JOHN BEVACQUA AND PATRICIA A BEVACQUA	TH EXPLORATION LLC	1/8+	921	144	N/A	N/A	N/A	N/A
10*17554	9-7-25.2	E	MICHAEL T RANKIN	TH EXPLORATION LLC	1/8+	921	361	N/A	N/A	N/A	N/A
10*17561	9-7-25.2	E	ROGER L TYRRELL AND KATHRYN L TYRRELL	TH EXPLORATION LLC	1/8+	927	24	N/A	N/A	N/A	N/A
10*17564	9-7-25.2	E	JAMES RONALD NICKOLSON AND TRACEY E NICKOLSON	TH EXPLORATION LLC	1/8+	921	340	N/A	N/A	N/A	N/A
10*17565	9-7-25.2	E	JESSE ALLEN JACKSON AND ELIZABETH D JACKSON	TH EXPLORATION LLC	1/8+	921	327	N/A	N/A	N/A	N/A
10*17566	9-7-25.2	E	NATHAN P ERDOSSY AND BARBARA T ERDOSSY	TH EXPLORATION LLC	1/8+	921	108	N/A	N/A	N/A	N/A
10*17588	9-7-25.2	E	JAMES M JACKSON	TH EXPLORATION LLC	1/8+	921	325	N/A	N/A	N/A	N/A
10*17589	9-7-25.2	E	MARY CHRISTINE MCKENNA	TH EXPLORATION LLC	1/8+	921	332	N/A	N/A	N/A	N/A
10*17677	9-7-25.2	E	GEORGE M GONTA JR	TH EXPLORATION LLC	1/8+	921	89	N/A	N/A	N/A	N/A
10*17744	9-7-25.2	E	SAM PRESLEY EZELL DIVERSICARE OF PELL CITY	TH EXPLORATION LLC	1/8+	921	116	N/A	N/A	N/A	N/A
10*17983	9-7-25.2	E	HOLLY SUE CUTHBERT	TH EXPLORATION LLC	1/8+	925	380	N/A	N/A	N/A	N/A
10*18021	9-7-25.2	E	CHRISTOPHER A HANIFAN AND JACKIE F HANIFAN	TH EXPLORATION LLC	1/8+	927	267	N/A	N/A	N/A	N/A
10*18022	9-7-25.2	E	DALE P WARD AND CYNTHIA J WARD	TH EXPLORATION LLC	1/8+	927	264	N/A	N/A	N/A	N/A
10*19524	9-7-25.2	E	THE ESTATE OF AGNES IRENE EZELL CLARK BY DAVID M EDWARDS, EXECUTOR	TH EXPLORATION LLC	1/8+	942	633	N/A	N/A	N/A	N/A
10*19692	9-7-25.2	E	KENDRA WALISA	TH EXPLORATION LLC	1/8+	924	484	N/A	N/A	N/A	N/A
10*19693	9-7-25.2	E	MARIO R FUNARI	TH EXPLORATION LLC	1/8+	936	145	N/A	N/A	N/A	N/A
10*19695	9-7-25.2	E	GENERAL RECEIVER OF MARSHALL COUNTY ATTN: BERNIE TWIGG	TH EXPLORATION LLC	1/8+	944	333	N/A	N/A	N/A	N/A
10*19695.1	9-7-25.2	E	GENERAL RECEIVER OF MARSHALL COUNTY ATTN: BERNIE TWIGG	TH EXPLORATION LLC	1/8+	944	333	N/A	N/A	N/A	N/A
10*19939	9-7-25.2	E	ROBERT J MILLS & SHERRA SUE MILLS	TH EXPLORATION LLC	1/8+	949	212	N/A	N/A	N/A	N/A
10*22630	9-7-25.2	E	AGENA FOUNDATION INC MORGAN STANLEY WEALTH MANAGEMENT	TH EXPLORATION LLC	1/8+	1035	11	N/A	N/A	N/A	N/A
10*25628	9-7-25.2	E	STONE HILL MINERALS HOLDINGS LLC	TH EXPLORATION LLC	1/8+	1025	631	N/A	N/A	N/A	N/A
10*26496	9-7-25.2	E	STONE HILL MINERALS HOLDINGS LLC	TH EXPLORATION LLC	1/8+	1028	558	N/A	N/A	N/A	N/A
10*47051.223.10	9-7-25.2	E	ROBERT E GORBY AND NANCY GORBY	TH EXPLORATION LLC	1/8+	908	47	N/A	N/A	N/A	N/A
10*47051.223.11	9-7-25.2	E	ELIZABETH ESTEP	TH EXPLORATION LLC	1/8+	908	37	N/A	N/A	N/A	N/A

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10*47051.223.12	9-7-25.2	E	ALICE GORBY MARTIN	TH EXPLORATION LLC	1/8+	908 52	N/A	N/A	N/A	N/A
10*47051.223.13	9-7-25.2	E	JAMES A GORBY	TH EXPLORATION LLC	1/8+	908 42	N/A	N/A	N/A	N/A
10*47051.223.14	9-7-25.2	E	JUSTIN RINE AND BECKY RINE	TH EXPLORATION LLC	1/8+	907 639	N/A	N/A	N/A	N/A
10*47051.223.15	9-7-25.2	E	LARRY D TAUNT AND NANCY L TAUNT	TH EXPLORATION LLC	1/8+	908 14	N/A	N/A	N/A	N/A
10*47051.223.16	9-7-25.2	E	WILLIAM K STERN AND BETTY L STERN	TH EXPLORATION LLC	1/8+	908 64	N/A	N/A	N/A	N/A
10*47051.223.17	9-7-25.2	E	RALPH E HUNTER JR AND CHARLOTTE HUNTER	TH EXPLORATION LLC	1/8+	908 9	N/A	N/A	N/A	N/A
10*47051.223.18	9-7-25.2	E	BRITTNEY MENEAR	TH EXPLORATION LLC	1/8+	908 57	N/A	N/A	N/A	N/A
10*47051.223.19	9-7-25.2	E	JASON RINE AND HEATHER RINE	TH EXPLORATION LLC	1/8+	907 629	N/A	N/A	N/A	N/A
10*47051.223.20	9-7-25.2	E	BARBARA A BUZZARD	TH EXPLORATION LLC	1/8+	908 24	N/A	N/A	N/A	N/A
10*47051.223.21	9-7-25.2	E	GARY T WARD AND SHARON D WARD	TH EXPLORATION LLC	1/8+	908 19	N/A	N/A	N/A	N/A
10*47051.223.22	9-7-25.2	E	SALLY DAVIS COLE	TH EXPLORATION LLC	1/8+	908 74	N/A	N/A	N/A	N/A
10*47051.223.23	9-7-25.2	E	RONALD S CRIM	TH EXPLORATION LLC	1/8+	908 79	N/A	N/A	N/A	N/A
10*47051.223.24	9-7-25.2	E	JO DEE K DAVIS	TH EXPLORATION LLC	1/8+	908 136	N/A	N/A	N/A	N/A
10*47051.223.25	9-7-25.2	E	JOANNE WELCH	TH EXPLORATION LLC	1/8+	908 141	N/A	N/A	N/A	N/A
10*47051.223.26	9-7-25.2	E	WENDY L SMARKE	TH EXPLORATION LLC	1/8+	908 69	N/A	N/A	N/A	N/A
10*47051.223.27	9-7-25.2	E	TIMI J HOBBS	TH EXPLORATION LLC	1/8+	908 277	N/A	N/A	N/A	N/A
10*47051.223.28	9-7-25.2	E	KAREN S GAST	TH EXPLORATION LLC	1/8+	908 150	N/A	N/A	N/A	N/A
10*47051.223.29	9-7-25.2	E	PATSY JO RAJU	TH EXPLORATION LLC	1/8+	908 155	N/A	N/A	N/A	N/A
10*47051.223.30	9-7-25.2	E	LAURIE DRIGGERS MANDERSON	TH EXPLORATION LLC	1/8+	908 165	N/A	N/A	N/A	N/A
10*47051.223.32	9-7-25.2	E	JOSEPH GORBY DAKAN	TH EXPLORATION LLC	1/8+	908 175	N/A	N/A	N/A	N/A
10*47051.223.33	9-7-25.2	E	NANCY C HOUSLEY	TH EXPLORATION LLC	1/8+	908 187	N/A	N/A	N/A	N/A
10*47051.223.34	9-7-25.2	E	JOHN CIAFFAGLIONE	TH EXPLORATION LLC	1/8+	908 170	N/A	N/A	N/A	N/A
10*47051.223.35	9-7-25.2	E	DEBRA L CIAFFAGLIONE	TH EXPLORATION LLC	1/8+	908 192	N/A	N/A	N/A	N/A
10*47051.223.5	9-7-25.2	E	HAROLD S BROWN II AND MARIA A BROWN	TH EXPLORATION LLC	1/8+	907 641	N/A	N/A	N/A	N/A
10*47051.223.6	9-7-25.2	E	JOSHUA RINE AND REBECCA RINE	TH EXPLORATION LLC	1/8+	907 634	N/A	N/A	N/A	N/A
10*47051.223.7	9-7-25.2	E	JACK R WILSON JR AND JANE A WILSON	TH EXPLORATION LLC	1/8+	908 4	N/A	N/A	N/A	N/A
10*47051.223.8	9-7-25.2	E	DAVID M WILSON	TH EXPLORATION LLC	1/8+	907 649	N/A	N/A	N/A	N/A
10*47051.223.9	9-7-25.2	E	LINDA DELBERT	TH EXPLORATION LLC	1/8+	908 32	N/A	N/A	N/A	N/A
10*47051.303.1	9-7-25.2	E	THOMAS R WHITFIELD	TH EXPLORATION LLC	1/8+	890 401	N/A	N/A	N/A	N/A
10*47051.303.2	9-7-25.2	E	KIMBERLY A WHITFIELD	TH EXPLORATION LLC	1/8+	890 403	N/A	N/A	N/A	N/A
10*15481	9-12-4	H	DEAN P RIGBY AND SUSAN RIGBY	TH EXPLORATION LLC	1/8+	908 197	N/A	N/A	N/A	N/A
10*15482	9-12-4	H	SUSAN NELSON	TH EXPLORATION LLC	1/8+	908 203	N/A	N/A	N/A	N/A
10*15686	9-12-4	H	JOHN OMER BOLTZ	TH EXPLORATION LLC	1/8+	908 160	N/A	N/A	N/A	N/A
10*15750	9-12-4	H	SANDRA K TRULL	TH EXPLORATION LLC	1/8+	908 229	N/A	N/A	N/A	N/A
10*16058	9-12-4	H	MATTIE RUTH JACKSON PRESCOTT	TH EXPLORATION LLC	1/8+	908 231	N/A	N/A	N/A	N/A
10*16118	9-12-4	H	RUBY RIDDLE JACKSON	TH EXPLORATION LLC	1/8+	908 233	N/A	N/A	N/A	N/A
10*16297	9-12-4	H	ROBERT A LEADBETTER AND M REBECCA LEADBETTER	TH EXPLORATION LLC	1/8+	908 235	N/A	N/A	N/A	N/A
10*16298	9-12-4	H	GEOFFREY A SHIEFER AND STEPHANIE L SCHIEFER	TH EXPLORATION LLC	1/8+	908 238	N/A	N/A	N/A	N/A
10*16383	9-12-4	H	ROBERT STEPHEN DRIGGERS	TH EXPLORATION LLC	1/8+	908 224	N/A	N/A	N/A	N/A
10*16414	9-12-4	H	MARY ELIZABETH DRIGGERS	TH EXPLORATION LLC	1/8+	908 208	N/A	N/A	N/A	N/A
10*16415	9-12-4	H	TERENCE J ANDERSON AND NANCY J ANDERSON	TH EXPLORATION LLC	1/8+	908 213	N/A	N/A	N/A	N/A
10*16416	9-12-4	H	CYNTHIA HUDSON	TH EXPLORATION LLC	1/8+	908 219	N/A	N/A	N/A	N/A
10*16424	9-12-4	H	ROBERT J RIGBY	TH EXPLORATION LLC	1/8+	908 241	N/A	N/A	N/A	N/A
10*16448	9-12-4	H	RALPH L AND JUANITA L CRIM	TH EXPLORATION LLC	1/8+	908 584	N/A	N/A	N/A	N/A
10*16478	9-12-4	H	MARION L AND EMILY CAMPBELL	TH EXPLORATION LLC	1/8+	908 245	N/A	N/A	N/A	N/A
10*16514	9-12-4	H	ALEX R CAMPBELL & JOYCE A CAMPBELL	TH EXPLORATION LLC	1/8+	908 248	N/A	N/A	N/A	N/A
10*16515	9-12-4	H	ANNA MARIE JACKSON	TH EXPLORATION LLC	1/8+	908 251	N/A	N/A	N/A	N/A
10*16516	9-12-4	H	WILSON ANDREW JACKSON	TH EXPLORATION LLC	1/8+	908 253	N/A	N/A	N/A	N/A
10*16545	9-12-4	H	ROBERT G FOUNDS AND ELLEN FOUNDS	TH EXPLORATION LLC	1/8+	908 260	N/A	N/A	N/A	N/A
10*16662	9-12-4	H	RICHARD THOMAS MIMS & VICKIE J MIMS	TH EXPLORATION LLC	1/8+	908 263	N/A	N/A	N/A	N/A

Lease ID	Parcel	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Leed Book/Page	Assignment	Assignment	Assignment	Assignment
10*16666	9-12-4	H	MICHAEL P PYLE	TH EXPLORATION LLC	1/8+	908 255	N/A	N/A	N/A	N/A
10*16667	9-12-4	H	CHARLES F PYLE AND GAIL ANN PYLE	TH EXPLORATION LLC	1/8+	908 266	N/A	N/A	N/A	N/A
10*16668	9-12-4	H	JACK I PYLE AND MERRILEE ANN PYLE	TH EXPLORATION LLC	1/8+	908 257	N/A	N/A	N/A	N/A
10*16669	9-12-4	H	JOHN S DADO AND PATRICIA S DADO	TH EXPLORATION LLC	1/8+	908 269	N/A	N/A	N/A	N/A
10*16686	9-12-4	H	CHERYLE M TRACEY	TH EXPLORATION LLC	1/8+	927 475	N/A	N/A	N/A	N/A
10*16688	9-12-4	H	SHERRYL PYLE BAIR	TH EXPLORATION LLC	1/8+	927 481	N/A	N/A	N/A	N/A
10*16689	9-12-4	H	JOHN C FOUNDS	TH EXPLORATION LLC	1/8+	927 478	N/A	N/A	N/A	N/A
10*16690	9-12-4	H	RICARDO ORTIZ	TH EXPLORATION LLC	1/8+	921 352	N/A	N/A	N/A	N/A
10*16720	9-12-4	H	DONNA ELAINE BRASKETT	TH EXPLORATION LLC	1/8+	921 152	N/A	N/A	N/A	N/A
10*16738	9-12-4	H	CHARLES A RINE AND RUTH K RINE	TH EXPLORATION LLC	1/8+	908 274	N/A	N/A	N/A	N/A
10*16742	9-12-4	H	PAUL C WILSON	TH EXPLORATION LLC	1/8+	927 490	N/A	N/A	N/A	N/A
10*16747	9-12-4	H	WILLIAM DALE BRASKETT	TH EXPLORATION LLC	1/8+	921 96	N/A	N/A	N/A	N/A
10*16787	9-12-4	H	HERBERT B CAMPBELL & DONNA D CAMPBELL	TH EXPLORATION LLC	1/8+	942 451	N/A	N/A	N/A	N/A
10*16798	9-12-4	H	PATRICK A RANKIN AND ROBIN A RANKIN	TH EXPLORATION LLC	1/8+	921 364	N/A	N/A	N/A	N/A
10*16800	9-12-4	H	JAMES KENNETH JACKSON AND JULIE JACKSON	TH EXPLORATION LLC	1/8+	921 93	N/A	N/A	N/A	N/A
10*16802	9-12-4	H	CHRISTOPHER RICHARDSON AND TAMMY RICHARDSON	TH EXPLORATION LLC	1/8+	921 495	N/A	N/A	N/A	N/A
10*16804	9-12-4	H	WILLIAM N TAYLOR AND SHERRY D TAYLOR	TH EXPLORATION LLC	1/8+	921 510	N/A	N/A	N/A	N/A
10*16806	9-12-4	H	VIRGINIA WHITMAN TRUST DTD 7-25-1984 JON WHITMAN TRUSTEE	TH EXPLORATION LLC	1/8+	921 528	N/A	N/A	N/A	N/A
10*16807	9-12-4	H	DAVID TULLER AND SUSAN STORTS TULLER	TH EXPLORATION LLC	1/8+	921 513	N/A	N/A	N/A	N/A
10*16808	9-12-4	H	MICHAEL L ORTIZ	TH EXPLORATION LLC	1/8+	921 349	N/A	N/A	N/A	N/A
10*16815	9-12-4	H	HAROLD W PYLE	TH EXPLORATION LLC	1/8+	921 357	N/A	N/A	N/A	N/A
10*16819	9-12-4	H	TERESA ORTIZ BIGGS	TH EXPLORATION LLC	1/8+	921 147	N/A	N/A	N/A	N/A
10*16821	9-12-4	H	SHEILA BRASKETT WEICHEY	TH EXPLORATION LLC	1/8+	921 516	N/A	N/A	N/A	N/A
10*16836	9-12-4	H	RICK A STORTS AND LENORE A STORTS	TH EXPLORATION LLC	1/8+	921 507	N/A	N/A	N/A	N/A
10*16837	9-12-4	H	TERRY L POFF AND THELMA A POFF	TH EXPLORATION LLC	1/8+	927 472	N/A	N/A	N/A	N/A
10*16838	9-12-4	H	ROBERT G FUNARI	TH EXPLORATION LLC	1/8+	821 82	N/A	N/A	N/A	N/A
10*16839	9-12-4	H	JAMES B FOUNDS AND LYNN M MOWERY	TH EXPLORATION LLC	1/8+	921 73	N/A	N/A	N/A	N/A
10*16863	9-12-4	H	TINA MOORE	TH EXPLORATION LLC	1/8+	921 334	N/A	N/A	N/A	N/A
10*16868	9-12-4	H	MICHAEL W STORTS AND JESSICA M STORTS	TH EXPLORATION LLC	1/8+	921 504	N/A	N/A	N/A	N/A
10*16879	9-12-4	H	MARK E STORTS AND LESLEY A STORTS	TH EXPLORATION LLC	1/8+	921 501	N/A	N/A	N/A	N/A
10*16880	9-12-4	H	BEVERLY ANN STORTS	TH EXPLORATION LLC	1/8+	921 498	N/A	N/A	N/A	N/A
10*16902	9-12-4	H	MARY BARCAW DUKE	TH EXPLORATION LLC	1/8+	921 105	N/A	N/A	N/A	N/A
10*16962	9-12-4	H	DENNIS P FLORY AND BARBARA EZELL FLORY	TH EXPLORATION LLC	1/8+	921 70	N/A	N/A	N/A	N/A
10*16976	9-12-4	H	LESTER G AND CONSTANCE B NICKOLSON	TH EXPLORATION LLC	1/8+	921 343	N/A	N/A	N/A	N/A
10*16977	9-12-4	H	JEREMY COCHENOUR	TH EXPLORATION LLC	1/8+	921 102	N/A	N/A	N/A	N/A
10*16987	9-12-4	H	LAURIE EZELL PERRY	TH EXPLORATION LLC	1/8+	921 355	N/A	N/A	N/A	N/A
10*16989	9-12-4	H	BRITTANY RICHARDSON	TH EXPLORATION LLC	1/8+	921 376	N/A	N/A	N/A	N/A
10*16991	9-12-4	H	MARYELLEN FOUNDS AND LAUREN FOUNDS	TH EXPLORATION LLC	1/8+	921 79	N/A	N/A	N/A	N/A
10*16996	9-12-4	H	THOMAS RANKIN	TH EXPLORATION LLC	1/8+	917 75	N/A	N/A	N/A	N/A
10*17130	9-12-4	H	CINDY L BARGER	TH EXPLORATION LLC	1/8+	921 137	N/A	N/A	N/A	N/A
10*17155	9-12-4	H	JESSE LEON JR AND TERESA GAIL EZELLE	TH EXPLORATION LLC	1/8+	921 118	N/A	N/A	N/A	N/A
10*17156	9-12-4	H	HENRI NELL JACKSON KENT BARNES	TH EXPLORATION LLC	1/8+	921 139	N/A	N/A	N/A	N/A
10*17157	9-12-4	H	JAMES N REEVES JR AND RITA M REEVES	TH EXPLORATION LLC	1/8+	921 367	N/A	N/A	N/A	N/A
10*17198	9-12-4	H	THOMAS G AND DIANE W BAYLESS	TH EXPLORATION LLC	1/8+	921 141	N/A	N/A	N/A	N/A
10*17205	9-12-4	H	SANDRA JEAN WILSON	TH EXPLORATION LLC	1/8+	921 524	N/A	N/A	N/A	N/A
10*17208	9-12-4	H	PATRICK S GALLAGHER AND JOYCE ANN FOUNDS	TH EXPLORATION LLC	1/8+	921 86	N/A	N/A	N/A	N/A
10*17274	9-12-4	H	DAVID H WILSON	TH EXPLORATION LLC	1/8+	921 474	N/A	N/A	N/A	N/A
10*17275	9-12-4	H	JOHN R REEVES AND MONA G REEVES	TH EXPLORATION LLC	1/8+	921 373	N/A	N/A	N/A	N/A

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10*17276	9-12-4	H	BERTHA EZELL WYATT	TH EXPLORATION LLC	1/8+	921 526	N/A	N/A	N/A	N/A
10*17278	9-12-4	H	MICHAEL L EZELLE	TH EXPLORATION LLC	1/8+	921 121	N/A	N/A	N/A	N/A
10*17339	9-12-4	H	JOSEPH W FOUNDS	TH EXPLORATION LLC	1/8+	921 76	N/A	N/A	N/A	N/A
10*17377	9-12-4	H	MILTON HOWARD EZELLE JR AND ELIZABETH A EZELLE	TH EXPLORATION LLC	1/8+	921 123	N/A	N/A	N/A	N/A
10*17416	9-12-4	H	ANDREW M ORTIZ	TH EXPLORATION LLC	1/8+	921 346	N/A	N/A	N/A	N/A
10*17438	9-12-4	H	DENNIS M WILSON	TH EXPLORATION LLC	1/8+	921 476	N/A	N/A	N/A	N/A
10*17440	9-12-4	H	KENDRA WALISA	TH EXPLORATION LLC	1/8+	927 484	N/A	N/A	N/A	N/A
10*17441	9-12-4	H	RALPH J WILSON	TH EXPLORATION LLC	1/8+	921 522	N/A	N/A	N/A	N/A
10*17442	9-12-4	H	SHANE ALLEN AND MENDY JEAN ALLEN	TH EXPLORATION LLC	1/8+	921 134	N/A	N/A	N/A	N/A
10*17443	9-12-4	H	MICHELLE MORROW-BACK	TH EXPLORATION LLC	1/8+	921 337	N/A	N/A	N/A	N/A
10*17444	9-12-4	H	KELLY FOUNDS CAMPBELL	TH EXPLORATION LLC	1/8+	921 99	N/A	N/A	N/A	N/A
10*17449	9-12-4	H	PHYLLIS J BLAKE	TH EXPLORATION LLC	1/8+	921 150	N/A	N/A	N/A	N/A
10*17482	9-12-4	H	TERESA EZELLE RALYA AND DAVID L RALYA	TH EXPLORATION LLC	1/8+	927 487	N/A	N/A	N/A	N/A
10*17483	9-12-4	H	RICHARD I PYLE	TH EXPLORATION LLC	1/8+	921 359	N/A	N/A	N/A	N/A
10*17484	9-12-4	H	NELDA S JACKSON	TH EXPLORATION LLC	1/8+	921 330	N/A	N/A	N/A	N/A
10*17485	9-12-4	H	MARGIE ANN JACKSON ROBBINS GRAHAM	TH EXPLORATION LLC	1/8+	921 91	N/A	N/A	N/A	N/A
10*17526	9-12-4	H	JEFFREY L REEVES AND JODY L REEVES	TH EXPLORATION LLC	1/8+	921 370	N/A	N/A	N/A	N/A
10*17527	9-12-4	H	JAMES MICHAEL EZELL AND LUCILLE D EZELL	TH EXPLORATION LLC	1/8+	921 111	N/A	N/A	N/A	N/A
10*17538	9-12-4	H	CHERYL RANKIN-KING	TH EXPLORATION LLC	1/8+	952 160	N/A	N/A	N/A	N/A
10*17552	9-12-4	H	JOHN BEVACQUA AND PATRICIA A BEVACQUA	TH EXPLORATION LLC	1/8+	921 144	N/A	N/A	N/A	N/A
10*17554	9-12-4	H	MICHAEL T RANKIN	TH EXPLORATION LLC	1/8+	921 361	N/A	N/A	N/A	N/A
10*17561	9-12-4	H	ROGER L TYRRELL AND KATHRYN L TYRRELL	TH EXPLORATION LLC	1/8+	927 24	N/A	N/A	N/A	N/A
10*17564	9-12-4	H	JAMES RONALD NICKOLSON AND TRACEY E NICKOLSON	TH EXPLORATION LLC	1/8+	921 340	N/A	N/A	N/A	N/A
10*17565	9-12-4	H	JESSE ALLEN JACKSON AND ELIZABETH D JACKSON	TH EXPLORATION LLC	1/8+	921 327	N/A	N/A	N/A	N/A
10*17566	9-12-4	H	NATHAN P ERDOSSY AND BARBARA T ERDOSSY	TH EXPLORATION LLC	1/8+	921 108	N/A	N/A	N/A	N/A
10*17588	9-12-4	H	JAMES M JACKSON	TH EXPLORATION LLC	1/8+	921 325	N/A	N/A	N/A	N/A
10*17589	9-12-4	H	MARY CHRISTINE MCKENNA	TH EXPLORATION LLC	1/8+	921 332	N/A	N/A	N/A	N/A
10*17677	9-12-4	H	GEORGE M GONTA JR	TH EXPLORATION LLC	1/8+	921 89	N/A	N/A	N/A	N/A
10*17744	9-12-4	H	SAM PRESLEY EZELL DIVERSICARE OF PELL CITY	TH EXPLORATION LLC	1/8+	921 116	N/A	N/A	N/A	N/A
10*17983	9-12-4	H	HOLLY SUE CUTHBERT	TH EXPLORATION LLC	1/8+	925 380	N/A	N/A	N/A	N/A
10*18021	9-12-4	H	CHRISTOPHER A HANIFAN AND JACKIE F HANIFAN	TH EXPLORATION LLC	1/8+	927 267	N/A	N/A	N/A	N/A
10*18022	9-12-4	H	DALE P WARD AND CYNTHIA J WARD	TH EXPLORATION LLC	1/8+	927 264	N/A	N/A	N/A	N/A
10*19524	9-12-4	H	THE ESTATE OF AGNES IRENE EZELL CLARK BY DAVID M EDWARDS, EXECUTOR	TH EXPLORATION LLC	1/8+	942 633	N/A	N/A	N/A	N/A
10*19693	9-12-4	H	MARIO R FUNARI	TH EXPLORATION LLC	1/8+	936 145	N/A	N/A	N/A	N/A
10*19695	9-12-4	H	GENERAL RECEIVER OF MARSHALL COUNTY ATTN: BERNIE TWIGG	TH EXPLORATION LLC	1/8+	944 333	N/A	N/A	N/A	N/A
10*19695.1	9-12-4	H	GENERAL RECEIVER OF MARSHALL COUNTY ATTN: BERNIE TWIGG	TH EXPLORATION LLC	1/8+	944 333	N/A	N/A	N/A	N/A
10*19939	9-12-4	H	ROBERT J MILLS & SHERRA SUE MILLS	TH EXPLORATION LLC	1/8+	949 212	N/A	N/A	N/A	N/A
10*22630	9-12-4	H	AGENA FOUNDATION INC MORGAN STANLEY WEALTH MANAGEMENT	TH EXPLORATION LLC	1/8+	1035 11	N/A	N/A	N/A	N/A
10*25628	9-12-4	H	STONE HILL MINERALS HOLDINGS LLC	TH EXPLORATION LLC	1/8+	1025 631	N/A	N/A	N/A	N/A
10*47051.223.1	9-12-4	H	JEAN ANNE GORBY STORCH AIF JOHN HERMAN STORCH	TH EXPLORATION LLC	1/8+	877 216	N/A	N/A	N/A	N/A
10*47051.223.10	9-12-4	H	ROBERT E GORBY AND NANCY GORBY	TH EXPLORATION LLC	1/8+	908 47	N/A	N/A	N/A	N/A
10*47051.223.11	9-12-4	H	ELIZABETH ESTEP	TH EXPLORATION LLC	1/8+	908 37	N/A	N/A	N/A	N/A
10*47051.223.12	9-12-4	H	ALICE GORBY MARTIN	TH EXPLORATION LLC	1/8+	908 52	N/A	N/A	N/A	N/A
10*47051.223.13	9-12-4	H	JAMES A GORBY	TH EXPLORATION LLC	1/8+	908 42	N/A	N/A	N/A	N/A

WW-6A1 Well Bore Tracts

Operator's Well No. Ten High 1S - 14HU

Lease ID	Parcel	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Book/Page	Assignment	Assignment	Assignment	Assignment
10*47051.223.14	9-12-4	H	JUSTIN RINE AND BECKY RINE	TH EXPLORATION LLC	1/8+	907 639	N/A	N/A	N/A	N/A
10*47051.223.15	9-12-4	H	LARRY D TAUNT AND NANCY L TAUNT	TH EXPLORATION LLC	1/8+	908 14	N/A	N/A	N/A	N/A
10*47051.223.16	9-12-4	H	WILLIAM K STERN AND BETTY L STERN	TH EXPLORATION LLC	1/8+	908 64	N/A	N/A	N/A	N/A
10*47051.223.17	9-12-4	H	RALPH E HUNTER JR AND CHARLOTTE HUNTER	TH EXPLORATION LLC	1/8+	908 9	N/A	N/A	N/A	N/A
10*47051.223.18	9-12-4	H	BRITTNEY MENEAR	TH EXPLORATION LLC	1/8+	908 57	N/A	N/A	N/A	N/A
10*47051.223.19	9-12-4	H	JASON RINE AND HEATHER RINE	TH EXPLORATION LLC	1/8+	907 629	N/A	N/A	N/A	N/A
10*47051.223.20	9-12-4	H	BARBARA A BUZZARD	TH EXPLORATION LLC	1/8+	908 24	N/A	N/A	N/A	N/A
10*47051.223.21	9-12-4	H	GARY T WARD AND SHARON D WARD	TH EXPLORATION LLC	1/8+	908 19	N/A	N/A	N/A	N/A
10*47051.223.22	9-12-4	H	SALLY DAVIS COLE	TH EXPLORATION LLC	1/8+	908 74	N/A	N/A	N/A	N/A
10*47051.223.23	9-12-4	H	RONALD S CRIM	TH EXPLORATION LLC	1/8+	908 79	N/A	N/A	N/A	N/A
10*47051.223.24	9-12-4	H	JO DEE K DAVIS	TH EXPLORATION LLC	1/8+	908 136	N/A	N/A	N/A	N/A
10*47051.223.25	9-12-4	H	JOANNE WELCH	TH EXPLORATION LLC	1/8+	908 141	N/A	N/A	N/A	N/A
10*47051.223.26	9-12-4	H	WENDY L SMARKEL	TH EXPLORATION LLC	1/8+	908 69	N/A	N/A	N/A	N/A
10*47051.223.27	9-12-4	H	TIMI J HOBBS	TH EXPLORATION LLC	1/8+	908 277	N/A	N/A	N/A	N/A
10*47051.223.28	9-12-4	H	KAREN S GAST	TH EXPLORATION LLC	1/8+	908 150	N/A	N/A	N/A	N/A
10*47051.223.29	9-12-4	H	PATSY JO RAJU	TH EXPLORATION LLC	1/8+	908 155	N/A	N/A	N/A	N/A
10*47051.223.30	9-12-4	H	LAURIE DRIGGERS MANDERSON	TH EXPLORATION LLC	1/8+	908 165	N/A	N/A	N/A	N/A
10*47051.223.31	9-12-4	H	JANICE M GONTA GAVALIK	TH EXPLORATION LLC	1/8+	908 180	N/A	N/A	N/A	N/A
10*47051.223.32	9-12-4	H	JOSEPH GORBY DAKAN	TH EXPLORATION LLC	1/8+	908 175	N/A	N/A	N/A	N/A
10*47051.223.33	9-12-4	H	NANCY C HOUSLEY	TH EXPLORATION LLC	1/8+	908 187	N/A	N/A	N/A	N/A
10*47051.223.34	9-12-4	H	JOHN CIAFFAGLIONE	TH EXPLORATION LLC	1/8+	908 170	N/A	N/A	N/A	N/A
10*47051.223.35	9-12-4	H	DEBRA L CIAFFAGLIONE	TH EXPLORATION LLC	1/8+	908 192	N/A	N/A	N/A	N/A
10*47051.223.5	9-12-4	H	HAROLD S BROWN II AND MARIA A BROWN	TH EXPLORATION LLC	1/8+	907 641	N/A	N/A	N/A	N/A
10*47051.223.6	9-12-4	H	JOSHUA RINE AND REBECCA RINE	TH EXPLORATION LLC	1/8+	907 634	N/A	N/A	N/A	N/A
10*47051.223.7	9-12-4	H	JACK R WILSON JR AND JANE A WILSON	TH EXPLORATION LLC	1/8+	908 4	N/A	N/A	N/A	N/A
10*47051.223.8	9-12-4	H	DAVID M WILSON	TH EXPLORATION LLC	1/8+	907 649	N/A	N/A	N/A	N/A
10*47051.223.9	9-12-4	H	LINDA DELBERT	TH EXPLORATION LLC	1/8+	908 32	N/A	N/A	N/A	N/A
10*15481	9-11-8	I	DEAN P RIGBY AND SUSAN RIGBY	TH EXPLORATION LLC	1/8+	908 197	N/A	N/A	N/A	N/A
10*15482	9-11-8	I	SUSAN NELSON	TH EXPLORATION LLC	1/8+	908 203	N/A	N/A	N/A	N/A
10*15686	9-11-8	I	JOHN OMER BOLTZ	TH EXPLORATION LLC	1/8+	908 160	N/A	N/A	N/A	N/A
10*15750	9-11-8	I	SANDRA K TRULL	TH EXPLORATION LLC	1/8+	908 229	N/A	N/A	N/A	N/A
10*16058	9-11-8	I	MATTIE RUTH JACKSON PRESCOTT	TH EXPLORATION LLC	1/8+	908 231	N/A	N/A	N/A	N/A
10*16118	9-11-8	I	RUBY RIDDLE JACKSON	TH EXPLORATION LLC	1/8+	908 233	N/A	N/A	N/A	N/A
10*16297	9-11-8	I	ROBERT A LEADBETTER AND M REBECCA LEADBETTER	TH EXPLORATION LLC	1/8+	908 235	N/A	N/A	N/A	N/A
10*16298	9-11-8	I	GEOFFREY A SHIEFER AND STEPHANIE L SCHIEFER	TH EXPLORATION LLC	1/8+	908 238	N/A	N/A	N/A	N/A
10*16383	9-11-8	I	ROBERT STEPHEN DRIGGERS	TH EXPLORATION LLC	1/8+	908 224	N/A	N/A	N/A	N/A
10*16414	9-11-8	I	MARY ELIZABETH DRIGGERS	TH EXPLORATION LLC	1/8+	908 208	N/A	N/A	N/A	N/A
10*16415	9-11-8	I	TERENCE J ANDERSON AND NANCY J ANDERSON	TH EXPLORATION LLC	1/8+	908 213	N/A	N/A	N/A	N/A
10*16416	9-11-8	I	CYNTHIA HUDSON	TH EXPLORATION LLC	1/8+	908 219	N/A	N/A	N/A	N/A
10*16424	9-11-8	I	ROBERT J RIGBY	TH EXPLORATION LLC	1/8+	908 241	N/A	N/A	N/A	N/A
10*16448	9-11-8	I	RALPH L AND JUANITA L CRIM	TH EXPLORATION LLC	1/8+	908 584	N/A	N/A	N/A	N/A
10*16478	9-11-8	I	MARION L AND EMILY CAMPBELL	TH EXPLORATION LLC	1/8+	908 245	N/A	N/A	N/A	N/A
10*16514	9-11-8	I	ALEX R CAMPBELL & JOYCE A CAMPBELL	TH EXPLORATION LLC	1/8+	908 248	N/A	N/A	N/A	N/A
10*16515	9-11-8	I	ANNA MARIE JACKSON	TH EXPLORATION LLC	1/8+	908 251	N/A	N/A	N/A	N/A
10*16516	9-11-8	I	WILSON ANDREW JACKSON	TH EXPLORATION LLC	1/8+	908 253	N/A	N/A	N/A	N/A
10*16545	9-11-8	I	ROBERT G FOUNDS AND ELLEN FOUNDS	TH EXPLORATION LLC	1/8+	908 260	N/A	N/A	N/A	N/A
10*16662	9-11-8	I	RICHARD THOMAS MIMS & VICKIE J MIMS	TH EXPLORATION LLC	1/8+	908 263	N/A	N/A	N/A	N/A
10*16666	9-11-8	I	MICHAEL P PYLE	TH EXPLORATION LLC	1/8+	908 255	N/A	N/A	N/A	N/A
10*16667	9-11-8	I	CHARLES F PYLE AND GAIL ANN PYLE	TH EXPLORATION LLC	1/8+	908 266	N/A	N/A	N/A	N/A
10*16668	9-11-8	I	JACK I PYLE AND MERRILEE ANN PYLE	TH EXPLORATION LLC	1/8+	908 257	N/A	N/A	N/A	N/A

4705101966

WW-6A1 Well Bore Tracts

Operator's Well No. Ten High 1S - 14HU

Lease ID	Parcel	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Book/Page		Assignment	Assignment	Assignment	Assignment
10*16669	9-11-8	I	JOHN S DADO AND PATRICIA S DADO	TH EXPLORATION LLC	1/8+	908	269	N/A	N/A	N/A	N/A
10*16686	9-11-8	I	CHERYLE M TRACEY	TH EXPLORATION LLC	1/8+	927	475	N/A	N/A	N/A	N/A
10*16688	9-11-8	I	SHERRY PYLE BAIR	TH EXPLORATION LLC	1/8+	927	481	N/A	N/A	N/A	N/A
10*16689	9-11-8	I	JOHN C FOUNDS	TH EXPLORATION LLC	1/8+	927	478	N/A	N/A	N/A	N/A
10*16690	9-11-8	I	RICARDO ORTIZ	TH EXPLORATION LLC	1/8+	921	352	N/A	N/A	N/A	N/A
10*16720	9-11-8	I	DONNA ELAINE BRASKETT	TH EXPLORATION LLC	1/8+	921	152	N/A	N/A	N/A	N/A
10*16738	9-11-8	I	CHARLES A RINE AND RUTH K RINE	TH EXPLORATION LLC	1/8+	908	274	N/A	N/A	N/A	N/A
10*16742	9-11-8	I	PAUL C WILSON	TH EXPLORATION LLC	1/8+	927	490	N/A	N/A	N/A	N/A
10*16747	9-11-8	I	WILLIAM DALE BRASKETT	TH EXPLORATION LLC	1/8+	921	96	N/A	N/A	N/A	N/A
10*16787	9-11-8	I	HERBERT B CAMPBELL & DONNA D CAMPBELL	TH EXPLORATION LLC	1/8+	942	451	N/A	N/A	N/A	N/A
10*16798	9-11-8	I	PATRICK A RANKIN AND ROBIN A RANKIN	TH EXPLORATION LLC	1/8+	921	364	N/A	N/A	N/A	N/A
10*16800	9-11-8	I	JAMES KENNETH JACKSON AND JULIE JACKSON	TH EXPLORATION LLC	1/8+	921	93	N/A	N/A	N/A	N/A
10*16802	9-11-8	I	CHRISTOPHER RICHARDSON AND TAMMY RICHARDSON	TH EXPLORATION LLC	1/8+	921	495	N/A	N/A	N/A	N/A
10*16804	9-11-8	I	WILLIAM N TAYLOR AND SHERRY D TAYLOR	TH EXPLORATION LLC	1/8+	921	510	N/A	N/A	N/A	N/A
10*16806	9-11-8	I	VIRGINIA WHITMAN TRUST DTD 7-25-1984 JON WHITMAN TRUSTEE	TH EXPLORATION LLC	1/8+	921	528	N/A	N/A	N/A	N/A
10*16807	9-11-8	I	DAVID TULLER AND SUSAN STORTS TULLER	TH EXPLORATION LLC	1/8+	921	513	N/A	N/A	N/A	N/A
10*16808	9-11-8	I	MICHAEL L ORTIZ	TH EXPLORATION LLC	1/8+	921	349	N/A	N/A	N/A	N/A
10*16815	9-11-8	I	HAROLD W PYLE	TH EXPLORATION LLC	1/8+	921	357	N/A	N/A	N/A	N/A
10*16819	9-11-8	I	TERESA ORTIZ BIGGS	TH EXPLORATION LLC	1/8+	921	147	N/A	N/A	N/A	N/A
10*16821	9-11-8	I	SHEILA BRASKETT WEICHEY	TH EXPLORATION LLC	1/8+	921	516	N/A	N/A	N/A	N/A
10*16836	9-11-8	I	RICK A STORTS AND LENORE A STORTS	TH EXPLORATION LLC	1/8+	921	507	N/A	N/A	N/A	N/A
10*16837	9-11-8	I	TERRY L POFF AND THELMA A POFF	TH EXPLORATION LLC	1/8+	927	472	N/A	N/A	N/A	N/A
10*16838	9-11-8	I	ROBERT G FUNARI	TH EXPLORATION LLC	1/8+	821	82	N/A	N/A	N/A	N/A
10*16839	9-11-8	I	JAMES B FOUNDS AND LYNN M MOWERY	TH EXPLORATION LLC	1/8+	921	73	N/A	N/A	N/A	N/A
10*16863	9-11-8	I	TINA MOORE	TH EXPLORATION LLC	1/8+	921	334	N/A	N/A	N/A	N/A
10*16868	9-11-8	I	MICHAEL W STORTS AND JESSICA M STORTS	TH EXPLORATION LLC	1/8+	921	504	N/A	N/A	N/A	N/A
10*16879	9-11-8	I	MARK E STORTS AND LESLEY A STORTS	TH EXPLORATION LLC	1/8+	921	501	N/A	N/A	N/A	N/A
10*16880	9-11-8	I	BEVERLY ANN STORTS	TH EXPLORATION LLC	1/8+	921	498	N/A	N/A	N/A	N/A
10*16902	9-11-8	I	MARY BARCAW DUKE	TH EXPLORATION LLC	1/8+	921	105	N/A	N/A	N/A	N/A
10*16962	9-11-8	I	DENNIS P FLORY AND BARBARA EZELL FLORY	TH EXPLORATION LLC	1/8+	921	70	N/A	N/A	N/A	N/A
10*16976	9-11-8	I	LESTER G AND CONSTANCE B NICKOLSON	TH EXPLORATION LLC	1/8+	921	343	N/A	N/A	N/A	N/A
10*16977	9-11-8	I	JEREMY COCHENOUR	TH EXPLORATION LLC	1/8+	921	102	N/A	N/A	N/A	N/A
10*16987	9-11-8	I	LAURIE EZELL PERRY	TH EXPLORATION LLC	1/8+	921	355	N/A	N/A	N/A	N/A
10*16989	9-11-8	I	BRITTANY RICHARDSON	TH EXPLORATION LLC	1/8+	921	376	N/A	N/A	N/A	N/A
10*16991	9-11-8	I	MARYELLEN FOUNDS AND LAUREN FOUNDS	TH EXPLORATION LLC	1/8+	921	79	N/A	N/A	N/A	N/A
10*16996	9-11-8	I	THOMAS RANKIN	TH EXPLORATION LLC	1/8+	917	75	N/A	N/A	N/A	N/A
10*17130	9-11-8	I	CINDY L BARGER	TH EXPLORATION LLC	1/8+	921	137	N/A	N/A	N/A	N/A
10*17155	9-11-8	I	JESSE LEON JR AND TERESA GAIL EZELLE	TH EXPLORATION LLC	1/8+	921	118	N/A	N/A	N/A	N/A
10*17156	9-11-8	I	HENRI NELL JACKSON KENT BARNES	TH EXPLORATION LLC	1/8+	921	139	N/A	N/A	N/A	N/A
10*17157	9-11-8	I	JAMES N REEVES JR AND RITA M REEVES	TH EXPLORATION LLC	1/8+	921	367	N/A	N/A	N/A	N/A
10*17198	9-11-8	I	THOMAS G AND DIANE W BAYLESS	TH EXPLORATION LLC	1/8+	921	141	N/A	N/A	N/A	N/A
10*17205	9-11-8	I	SANDRA JEAN WILSON	TH EXPLORATION LLC	1/8+	921	524	N/A	N/A	N/A	N/A
10*17208	9-11-8	I	PATRICK S GALLAGHER AND JOYCE ANN FOUNDS	TH EXPLORATION LLC	1/8+	921	86	N/A	N/A	N/A	N/A
10*17274	9-11-8	I	DAVID H WILSON	TH EXPLORATION LLC	1/8+	921	474	N/A	N/A	N/A	N/A
10*17275	9-11-8	I	JOHN R REEVES AND MONA G REEVES	TH EXPLORATION LLC	1/8+	921	373	N/A	N/A	N/A	N/A
10*17276	9-11-8	I	BERTHA EZELL WYATT	TH EXPLORATION LLC	1/8+	921	526	N/A	N/A	N/A	N/A
10*17278	9-11-8	I	MICHAEL L EZELLE	TH EXPLORATION LLC	1/8+	921	121	N/A	N/A	N/A	N/A
10*17339	9-11-8	I	JOSEPH W FOUNDS	TH EXPLORATION LLC	1/8+	921	76	N/A	N/A	N/A	N/A

Lease ID	Parcel	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Book/Page	Assignment	Assignment	Assignment	Assignment
10*17377	9-11-8	I	MILTON HOWARD EZELLE JR AND ELIZABETH A EZELLE	TH EXPLORATION LLC	1/8+	921 123	N/A	N/A	N/A	N/A
10*17416	9-11-8	I	ANDREW M ORTIZ	TH EXPLORATION LLC	1/8+	921 346	N/A	N/A	N/A	N/A
10*17438	9-11-8	I	DENNIS M WILSON	TH EXPLORATION LLC	1/8+	921 476	N/A	N/A	N/A	N/A
10*17440	9-11-8	I	KENDRA WALISA	TH EXPLORATION LLC	1/8+	927 484	N/A	N/A	N/A	N/A
10*17441	9-11-8	I	RALPH J WILSON	TH EXPLORATION LLC	1/8+	921 522	N/A	N/A	N/A	N/A
10*17442	9-11-8	I	SHANE ALLEN AND MENDY JEAN ALLEN	TH EXPLORATION LLC	1/8+	921 134	N/A	N/A	N/A	N/A
10*17443	9-11-8	I	MICHELLE MORROW-BACK	TH EXPLORATION LLC	1/8+	921 337	N/A	N/A	N/A	N/A
10*17444	9-11-8	I	KELLY FOUNDS CAMPBELL	TH EXPLORATION LLC	1/8+	921 99	N/A	N/A	N/A	N/A
10*17449	9-11-8	I	PHYLLIS J BLAKE	TH EXPLORATION LLC	1/8+	921 150	N/A	N/A	N/A	N/A
10*17482	9-11-8	I	TERESA EZELLE RALYA AND DAVID L RALYA	TH EXPLORATION LLC	1/8+	927 487	N/A	N/A	N/A	N/A
10*17483	9-11-8	I	RICHARD I PYLE	TH EXPLORATION LLC	1/8+	921 359	N/A	N/A	N/A	N/A
10*17484	9-11-8	I	NELDA S JACKSON	TH EXPLORATION LLC	1/8+	921 330	N/A	N/A	N/A	N/A
10*17485	9-11-8	I	MARGIE ANN JACKSON ROBBINS GRAHAM	TH EXPLORATION LLC	1/8+	921 91	N/A	N/A	N/A	N/A
10*17526	9-11-8	I	JEFFREY L REEVES AND JODY L REEVES	TH EXPLORATION LLC	1/8+	921 370	N/A	N/A	N/A	N/A
10*17527	9-11-8	I	JAMES MICHAEL EZELL AND LUCILLE D EZELL	TH EXPLORATION LLC	1/8+	921 111	N/A	N/A	N/A	N/A
10*17538	9-11-8	I	CHERYL RANKIN-KING	TH EXPLORATION LLC	1/8+	952 160	N/A	N/A	N/A	N/A
10*17552	9-11-8	I	JOHN BEVACQUA AND PATRICIA A BEVACQUA	TH EXPLORATION LLC	1/8+	921 144	N/A	N/A	N/A	N/A
10*17554	9-11-8	I	MICHAEL T RANKIN	TH EXPLORATION LLC	1/8+	921 361	N/A	N/A	N/A	N/A
10*17561	9-11-8	I	ROGER L TYRRELL AND KATHRYN L TYRRELL	TH EXPLORATION LLC	1/8+	927 24	N/A	N/A	N/A	N/A
10*17564	9-11-8	I	JAMES RONALD NICKOLSON AND TRACEY E NICKOLSON	TH EXPLORATION LLC	1/8+	921 340	N/A	N/A	N/A	N/A
10*17565	9-11-8	I	JESSE ALLEN JACKSON AND ELIZABETH D JACKSON	TH EXPLORATION LLC	1/8+	921 327	N/A	N/A	N/A	N/A
10*17566	9-11-8	I	NATHAN P ERDOSSY AND BARBARA T ERDOSSY	TH EXPLORATION LLC	1/8+	921 108	N/A	N/A	N/A	N/A
10*17588	9-11-8	I	JAMES M JACKSON	TH EXPLORATION LLC	1/8+	921 325	N/A	N/A	N/A	N/A
10*17589	9-11-8	I	MARY CHRISTINE MCKENNA	TH EXPLORATION LLC	1/8+	921 332	N/A	N/A	N/A	N/A
10*17677	9-11-8	I	GEORGE M GONTA JR	TH EXPLORATION LLC	1/8+	921 89	N/A	N/A	N/A	N/A
10*17744	9-11-8	I	SAM PRESLEY EZELL DIVERSICARE OF PELL CITY	TH EXPLORATION LLC	1/8+	921 116	N/A	N/A	N/A	N/A
10*17983	9-11-8	I	HOLLY SUE CUTHBERT	TH EXPLORATION LLC	1/8+	925 380	N/A	N/A	N/A	N/A
10*18021	9-11-8	I	CHRISTOPHER A HANIFAN AND JACKIE F HANIFAN	TH EXPLORATION LLC	1/8+	927 267	N/A	N/A	N/A	N/A
10*18022	9-11-8	I	DALE P WARD AND CYNTHIA J WARD	TH EXPLORATION LLC	1/8+	927 264	N/A	N/A	N/A	N/A
10*19524	9-11-8	I	THE ESTATE OF AGNES IRENE EZELL CLARK BY DAVID M EDWARDS, EXECUTOR	TH EXPLORATION LLC	1/8+	942 633	N/A	N/A	N/A	N/A
10*19693	9-11-8	I	MARIO R FUNARI	TH EXPLORATION LLC	1/8+	936 145	N/A	N/A	N/A	N/A
10*19695	9-11-8	I	GENERAL RECEIVER OF MARSHALL COUNTY ATTN: BERNIE TWIGG	TH EXPLORATION LLC	1/8+	944 333	N/A	N/A	N/A	N/A
10*19695.1	9-11-8	I	GENERAL RECEIVER OF MARSHALL COUNTY ATTN: BERNIE TWIGG	TH EXPLORATION LLC	1/8+	944 333	N/A	N/A	N/A	N/A
10*19939	9-11-8	I	ROBERT J MILLS & SHERRA SUE MILLS	TH EXPLORATION LLC	1/8+	949 212	N/A	N/A	N/A	N/A
10*22630	9-11-8	I	AGENA FOUNDATION INC MORGAN STANLEY WEALTH MANAGEMENT	TH EXPLORATION LLC	1/8+	1035 11	N/A	N/A	N/A	N/A
10*25628	9-11-8	I	STONE HILL MINERALS HOLDINGS LLC	TH EXPLORATION LLC	1/8+	1025 631	N/A	N/A	N/A	N/A
10*47051.223.1	9-11-8	I	JEAN ANNE GORBY STORCH AIF JOHN HERMAN STORCH	TH EXPLORATION LLC	1/8+	877 216	N/A	N/A	N/A	N/A
10*47051.223.10	9-11-8	I	ROBERT E GORBY AND NANCY GORBY	TH EXPLORATION LLC	1/8+	908 47	N/A	N/A	N/A	N/A
10*47051.223.11	9-11-8	I	ELIZABETH ESTEP	TH EXPLORATION LLC	1/8+	908 37	N/A	N/A	N/A	N/A
10*47051.223.12	9-11-8	I	ALICE GORBY MARTIN	TH EXPLORATION LLC	1/8+	908 52	N/A	N/A	N/A	N/A
10*47051.223.13	9-11-8	I	JAMES A GORBY	TH EXPLORATION LLC	1/8+	908 42	N/A	N/A	N/A	N/A
10*47051.223.14	9-11-8	I	JUSTIN RINE AND BECKY RINE	TH EXPLORATION LLC	1/8+	907 639	N/A	N/A	N/A	N/A
10*47051.223.15	9-11-8	I	LARRY D TAUNT AND NANCY L TAUNT	TH EXPLORATION LLC	1/8+	908 14	N/A	N/A	N/A	N/A
10*47051.223.16	9-11-8	I	WILLIAM K STERN AND BETTY L STERN	TH EXPLORATION LLC	1/8+	908 64	N/A	N/A	N/A	N/A

Lease ID	Parcel	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Leed Book/Page	Assignment	Assignment	Assignment	Assignment
10*47051.223.17	9-11-8	I	RALPH E HUNTER JR AND CHARLOTTE HUNTER	TH EXPLORATION LLC	1/8+	908 9	N/A	N/A	N/A	N/A
10*47051.223.18	9-11-8	I	BRITTNEY MENEAR	TH EXPLORATION LLC	1/8+	908 57	N/A	N/A	N/A	N/A
10*47051.223.19	9-11-8	I	JASON RINE AND HEATHER RINE	TH EXPLORATION LLC	1/8+	907 629	N/A	N/A	N/A	N/A
10*47051.223.20	9-11-8	I	BARBARA A BUZZARD	TH EXPLORATION LLC	1/8+	908 24	N/A	N/A	N/A	N/A
10*47051.223.21	9-11-8	I	GARY T WARD AND SHARON D WARD	TH EXPLORATION LLC	1/8+	908 19	N/A	N/A	N/A	N/A
10*47051.223.22	9-11-8	I	SALLY DAVIS COLE	TH EXPLORATION LLC	1/8+	908 74	N/A	N/A	N/A	N/A
10*47051.223.23	9-11-8	I	RONALD S CRIM	TH EXPLORATION LLC	1/8+	908 79	N/A	N/A	N/A	N/A
10*47051.223.24	9-11-8	I	JO DEE K DAVIS	TH EXPLORATION LLC	1/8+	908 136	N/A	N/A	N/A	N/A
10*47051.223.25	9-11-8	I	JOANNE WELCH	TH EXPLORATION LLC	1/8+	908 141	N/A	N/A	N/A	N/A
10*47051.223.26	9-11-8	I	WENDY L SMARKEL	TH EXPLORATION LLC	1/8+	908 69	N/A	N/A	N/A	N/A
10*47051.223.27	9-11-8	I	TIMI J HOBBS	TH EXPLORATION LLC	1/8+	908 277	N/A	N/A	N/A	N/A
10*47051.223.28	9-11-8	I	KAREN S GAST	TH EXPLORATION LLC	1/8+	908 150	N/A	N/A	N/A	N/A
10*47051.223.29	9-11-8	I	PATSY JO RAJU	TH EXPLORATION LLC	1/8+	908 155	N/A	N/A	N/A	N/A
10*47051.223.30	9-11-8	I	LAURIE DRIGGERS MANDERSON	TH EXPLORATION LLC	1/8+	908 165	N/A	N/A	N/A	N/A
10*47051.223.31	9-11-8	I	JANICE M GONTA GAVALIK	TH EXPLORATION LLC	1/8+	908 180	N/A	N/A	N/A	N/A
10*47051.223.32	9-11-8	I	JOSEPH GORBY DAKAN	TH EXPLORATION LLC	1/8+	908 175	N/A	N/A	N/A	N/A
10*47051.223.33	9-11-8	I	NANCY C HOUSLEY	TH EXPLORATION LLC	1/8+	908 187	N/A	N/A	N/A	N/A
10*47051.223.34	9-11-8	I	JOHN CIAFFAGLIONE	TH EXPLORATION LLC	1/8+	908 170	N/A	N/A	N/A	N/A
10*47051.223.35	9-11-8	I	DEBRA L CIAFFAGLIONE	TH EXPLORATION LLC	1/8+	908 192	N/A	N/A	N/A	N/A
10*47051.223.5	9-11-8	I	HAROLD S BROWN II AND MARIA A BROWN	TH EXPLORATION LLC	1/8+	907 641	N/A	N/A	N/A	N/A
10*47051.223.6	9-11-8	I	JOSHUA RINE AND REBECCA RINE	TH EXPLORATION LLC	1/8+	907 634	N/A	N/A	N/A	N/A
10*47051.223.7	9-11-8	I	JACK R WILSON JR AND JANE A WILSON	TH EXPLORATION LLC	1/8+	908 4	N/A	N/A	N/A	N/A
10*47051.223.8	9-11-8	I	DAVID M WILSON	TH EXPLORATION LLC	1/8+	907 649	N/A	N/A	N/A	N/A
10*47051.223.9	9-11-8	I	LINDA DELBERT	TH EXPLORATION LLC	1/8+	908 32	N/A	N/A	N/A	N/A
10*15606	9-12-2	J	CHK-MAC LLC	CHESAPEAKE APPALACHIA LLC	1/8+	798 150	Chesapeake Appalachia LLC to Statoil USA Onshore Properties Inc: 29/325	Statoil USA Onshore Properties Inc to Chevron USA Inc: 30/427	Chesapeake Appalachia LLC to Chevron USA Inc: 30/461	Chevron USA Inc to TH Exploration LLC: 36/148
10*16145	9-12-2	J	CHARLES STEVEN JOHNSON AND SHIRLEY LOUISE JOHNSON	TH EXPLORATION LLC	1/8+	924 612	N/A	N/A	N/A	N/A
10*16238	9-12-2	J	SUSAN MARIE JOHNSON AKA SUSAN MARIE HUBER	TH EXPLORATION LLC	1/8+	924 614	N/A	N/A	N/A	N/A
10*16932	9-12-2	J	HAYMAKER PROPERTIES LP	CHEVRON USA INC	1/8+	902 447	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 37/437
10*47051.309.1	9-12-2	J	LESLIE E QUIGLEY	TH EXPLORATION LLC	1/8+	905 8	N/A	N/A	N/A	N/A
10*47051.309.2	9-12-2	J	LEWIS M QUIGLEY AND MAXINE V QUIGLEY	TH EXPLORATION LLC	1/8+	907 217	N/A	N/A	N/A	N/A
10*47051.309.3	9-12-2	J	GERALD W QUIGLEY AND VICKI L QUIGLEY	TH EXPLORATION LLC	1/8+	905 12	N/A	N/A	N/A	N/A
10*16145	9-12-28	O	CHARLES STEVEN JOHNSON AND SHIRLEY LOUISE JOHNSON	TH EXPLORATION LLC	1/8+	924 612	N/A	N/A	N/A	N/A
10*16238	9-12-28	O	SUSAN MARIE JOHNSON AKA SUSAN MARIE HUBER	TH EXPLORATION LLC	1/8+	924 614	N/A	N/A	N/A	N/A
10*16932	9-12-28	O	HAYMAKER PROPERTIES LP	CHEVRON USA INC	1/8+	902 447	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 37/437
10*47051.309.1	9-12-28	O	LESLIE E QUIGLEY	TH EXPLORATION LLC	1/8+	905 8	N/A	N/A	N/A	N/A
10*47051.309.2	9-12-28	O	LEWIS M QUIGLEY AND MAXINE V QUIGLEY	TH EXPLORATION LLC	1/8+	907 217	N/A	N/A	N/A	N/A
10*47051.309.3	9-12-28	O	GERALD W QUIGLEY AND VICKI L QUIGLEY	TH EXPLORATION LLC	1/8+	905 12	N/A	N/A	N/A	N/A
10*47051.312.0	9-12-37	Q	JAN GRIMES SIMNACHER LEONARD A SIMNACHER	TH EXPLORATION LLC	1/8+	904 472	N/A	N/A	N/A	N/A
10*47051.140.1	9-12-32	T	DAVID P CHAPMAN & DEBORAH BORCK-CHAPMAN	TH EXPLORATION LLC	1/8+	866 318	N/A	N/A	N/A	N/A
10*47051.140.2	9-12-32	T	DOROTHY SULLIVAN POA JAMES REID SULLIVAN	TH EXPLORATION LLC	1/8+	873 501	N/A	N/A	N/A	N/A
10*15477	9-14-18	U	RONALD A WYCINSKI	TH EXPLORATION LLC	1/8+	906 241	N/A	N/A	N/A	N/A
10*15730	9-14-18	U	FRANCES V CARPENTER	TH EXPLORATION LLC	1/8+	906 256	N/A	N/A	N/A	N/A
10*15752	9-14-18	U	KIM O CHAMBERS AND DEBRA CHAMBERS	TH EXPLORATION LLC	1/8+	906 258	N/A	N/A	N/A	N/A
10*16017	9-14-18	U	FLOYD A MCFADDEN	TH EXPLORATION LLC	1/8+	906 260	N/A	N/A	N/A	N/A

WW-6A1 Well Bore Tracts

4705101966

Operator's Well No. Ten High 1S - 14HU

Lease ID	Parcel	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Book/Page	Assignment	Assignment	Assignment	Assignment
10*16018	9-14-18	U	BARBARA MCFADDEN ALBRIGHT	TH EXPLORATION LLC	1/8+	906 262	N/A	N/A	N/A	N/A
10*16030	9-14-18	U	JOSEPH F CHMIELEWSKI AND SANDRA CHMIELEWSKI	TH EXPLORATION LLC	1/8+	906 264	N/A	N/A	N/A	N/A
10*16031	9-14-18	U	CARL J CHMIELEWSKI AND KATHLEEN A CHMIELEWSKI	TH EXPLORATION LLC	1/8+	906 266	N/A	N/A	N/A	N/A
10*16083	9-14-18	U	CECIL HARRY LILLY, III AND PAMELA KAY KNIGHT LILLY	TH EXPLORATION LLC	1/8+	906 268	N/A	N/A	N/A	N/A
10*16085	9-14-18	U	KATHARYN ANNETTE LILLY LAING AND FREDDIE JOE LAING	TH EXPLORATION LLC	1/8+	912 45	N/A	N/A	N/A	N/A
10*16086	9-14-18	U	KATHARYN DAY LILLY	TH EXPLORATION LLC	1/8+	912 43	N/A	N/A	N/A	N/A
10*16087	9-14-18	U	MARY PENELOPE LILLY MURPHY	TH EXPLORATION LLC	1/8+	912 41	N/A	N/A	N/A	N/A
10*16143	9-14-18	U	MARY LOU CHAMBERS	TH EXPLORATION LLC	1/8+	906 276	N/A	N/A	N/A	N/A
10*16144	9-14-18	U	PATTIE S MADRID	TH EXPLORATION LLC	1/8+	906 278	N/A	N/A	N/A	N/A
10*16180	9-14-18	U	LARRY L CHAMBERS	TH EXPLORATION LLC	1/8+	906 280	N/A	N/A	N/A	N/A
10*16181	9-14-18	U	NORMA CHRISTINE WHIPP AND GERALD WAYNE BLACK	TH EXPLORATION LLC	1/8+	906 281	N/A	N/A	N/A	N/A
10*16182	9-14-18	U	FIRST CHRISTIAN CHURCH OF MOUNDSVILLE BY ROGER FRANCIS AND ROBERT ALBERT TRUSTEES	TH EXPLORATION LLC	1/8+	906 283	N/A	N/A	N/A	N/A
10*16183	9-14-18	U	ALLEN R L DAVIS AND DIANA LEE PATTERSON DAVIS	TH EXPLORATION LLC	1/8+	906 285	N/A	N/A	N/A	N/A
10*16239	9-14-18	U	ANGELA L OLDFIELD AND KENNETH W OLDFIELD	TH EXPLORATION LLC	1/8+	906 287	N/A	N/A	N/A	N/A
10*16240	9-14-18	U	BONNIE SUE PATTERSON SWISHER	TH EXPLORATION LLC	1/8+	906 289	N/A	N/A	N/A	N/A
10*16285	9-14-18	U	JOHN A SHUTZ AND CYNTHIA J SHUTZ	TH EXPLORATION LLC	1/8+	906 291	N/A	N/A	N/A	N/A
10*16441	9-14-18	U	GEORGE FRANKLIN AND NANCY ANN REED	TH EXPLORATION LLC	1/8+	924 619	N/A	N/A	N/A	N/A
10*16442	9-14-18	U	FRED T CHAMBERS AND JERRY L CHAMBERS	TH EXPLORATION LLC	1/8+	924 174	N/A	N/A	N/A	N/A
10*16443	9-14-18	U	BARBARA BROWN CHAMBERS	TH EXPLORATION LLC	1/8+	924 621	N/A	N/A	N/A	N/A
10*16444	9-14-18	U	CATHERINE ELLEN CHAMBERS	TH EXPLORATION LLC	1/8+	924 623	N/A	N/A	N/A	N/A
10*16445	9-14-18	U	DOUGLAS C AND GWENDLYN D LEWTON	TH EXPLORATION LLC	1/8+	925 123	N/A	N/A	N/A	N/A
10*16483	9-14-18	U	JOHN C AND BARBARA H WINTER	TH EXPLORATION LLC	1/8+	924 178	N/A	N/A	N/A	N/A
10*16486	9-14-18	U	DAVID ALAN WILKINSON AND PATRICIA LYNN WILKINSON	TH EXPLORATION LLC	1/8+	924 180	N/A	N/A	N/A	N/A
10*16490	9-14-18	U	WILLIAM H AND MERRY C COTTON	TH EXPLORATION LLC	1/8+	924 176	N/A	N/A	N/A	N/A
10*16540	9-14-18	U	JAMES A WINTER AND CONNIE G WINTER	TH EXPLORATION LLC	1/8+	924 184	N/A	N/A	N/A	N/A
10*16680	9-14-18	U	RONALD J FICCA & JENNIFER CHAMBERS FICCA	TH EXPLORATION LLC	1/8+	924 186	N/A	N/A	N/A	N/A
10*16726	9-14-18	U	LESLY K WHITE	TH EXPLORATION LLC	1/8+	924 182	N/A	N/A	N/A	N/A
10*16733	9-14-18	U	SARAH L BISHOP	TH EXPLORATION LLC	1/8+	924 172	N/A	N/A	N/A	N/A
10*16835	9-14-18	U	ERNEST CARL AUGUSTINE JR	TH EXPLORATION LLC	1/8+	924 188	N/A	N/A	N/A	N/A
10*16882	9-14-18	U	JAMES LEROY OWENS & DARLENE DOBBS OWENS	TH EXPLORATION LLC	1/8+	924 190	N/A	N/A	N/A	N/A
10*16948	9-14-18	U	FREDERICK M LEWTON	TH EXPLORATION LLC	1/8+	924 136	N/A	N/A	N/A	N/A
10*16949	9-14-18	U	STEVEN R UTT AND BRIANNE L UTT	TH EXPLORATION LLC	1/8+	924 138	N/A	N/A	N/A	N/A
10*16950	9-14-18	U	JAY E LEWTON AND CECILIA E LEWTON	TH EXPLORATION LLC	1/8+	924 134	N/A	N/A	N/A	N/A
10*16952	9-14-18	U	RUSSELL D HERVEY	TH EXPLORATION LLC	1/8+	924 132	N/A	N/A	N/A	N/A
10*16953	9-14-18	U	DONALD T HOGAN AND JEAN K HOGAN	TH EXPLORATION LLC	1/8+	924 140	N/A	N/A	N/A	N/A
10*16990	9-14-18	U	ROSEMARY H BEAVERS	TH EXPLORATION LLC	1/8+	924 152	N/A	N/A	N/A	N/A
10*16992	9-14-18	U	LINDA C ABRAHAM	TH EXPLORATION LLC	1/8+	924 148	N/A	N/A	N/A	N/A
10*16993	9-14-18	U	JULIA HOOVER	TH EXPLORATION LLC	1/8+	924 150	N/A	N/A	N/A	N/A
10*16995	9-14-18	U	DIANE ELSIE RAMSEY	TH EXPLORATION LLC	1/8+	924 146	N/A	N/A	N/A	N/A
10*17129	9-14-18	U	ROBERTA JANE PARKINSON	TH EXPLORATION LLC	1/8+	924 142	N/A	N/A	N/A	N/A
10*17131	9-14-18	U	LAURA E TOTTEN AND LONNIE R TOTTEN	TH EXPLORATION LLC	1/8+	924 154	N/A	N/A	N/A	N/A
10*17134	9-14-18	U	UNITED CHRISTIAN MISSIONARY SOCIETY	TH EXPLORATION LLC	1/8+	924 144	N/A	N/A	N/A	N/A
10*17209	9-14-18	U	GAYLE S SHANNON	TH EXPLORATION LLC	1/8+	924 168	N/A	N/A	N/A	N/A
10*17289	9-14-18	U	HAROLD R HUNT JR AND ELIZABETH A HUNT	TH EXPLORATION LLC	1/8+	924 170	N/A	N/A	N/A	N/A
10*17396	9-14-18	U	CHRISTINE L KIDD	TH EXPLORATION LLC	1/8+	924 158	N/A	N/A	N/A	N/A
10*17413	9-14-18	U	ROBERT M CHAMBERS AND CHARLOTTE A CHAMBERS	TH EXPLORATION LLC	1/8+	924 160	N/A	N/A	N/A	N/A

Lease ID	Parcel	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Book/Page	Assignment	Assignment	Assignment	Assignment
10*17436	9-14-18	U	ANDREW M HOOVER AND DINAH R HOOVER	TH EXPLORATION LLC	1/8+	924 156	N/A	N/A	N/A	N/A
10*17448	9-14-18	U	FREDERICK L HERVEY AND CATHY J HERVEY	TH EXPLORATION LLC	1/8+	924 162	N/A	N/A	N/A	N/A
10*17452	9-14-18	U	ALAN H DEGARMO AND MARY K DEGARMO	TH EXPLORATION LLC	1/8+	924 164	N/A	N/A	N/A	N/A
10*17486	9-14-18	U	JOSELYN M KEELY	TH EXPLORATION LLC	1/8+	929 364	N/A	N/A	N/A	N/A
10*17487	9-14-18	U	DEBORAH R MOKOSH	TH EXPLORATION LLC	1/8+	924 166	N/A	N/A	N/A	N/A
10*17503	9-14-18	U	JANICE L KUHN	TH EXPLORATION LLC	1/8+	924 122	N/A	N/A	N/A	N/A
10*17504	9-14-18	U	GREGG ALAN MILLER AND BETH ANN MILLER	TH EXPLORATION LLC	1/8+	924 118	N/A	N/A	N/A	N/A
10*17505	9-14-18	U	MICHAEL R DOBBS AND LEANNE DOBBS	TH EXPLORATION LLC	1/8+	924 116	N/A	N/A	N/A	N/A
10*17515	9-14-18	U	GLADYS E DOBBS	TH EXPLORATION LLC	1/8+	923 541	N/A	N/A	N/A	N/A
10*17516	9-14-18	U	MARY V DOBBS	TH EXPLORATION LLC	1/8+	923 539	N/A	N/A	N/A	N/A
10*17517	9-14-18	U	JULIO ENRIQUE TORRES AND DEBRA K TORRES	TH EXPLORATION LLC	1/8+	923 537	N/A	N/A	N/A	N/A
10*17520	9-14-18	U	LUCY P SULLIVAN	TH EXPLORATION LLC	1/8+	923 533	N/A	N/A	N/A	N/A
10*17528	9-14-18	U	DEAN E GARRISON	TH EXPLORATION LLC	1/8+	923 535	N/A	N/A	N/A	N/A
10*17555	9-14-18	U	AARON PARRY SR AND JANA PARRY TRUSTEES AARON PARRY SR & JANA PARRY REV LIV TRUS	TH EXPLORATION LLC	1/8+	924 113	N/A	N/A	N/A	N/A
10*17559	9-14-18	U	MARVIN JERRY BLAKE AND LINDA D BLAKE	TH EXPLORATION LLC	1/8+	923 528	N/A	N/A	N/A	N/A
10*17560	9-14-18	U	TREVOR HOOKS	TH EXPLORATION LLC	1/8+	924 110	N/A	N/A	N/A	N/A
10*17563	9-14-18	U	DONALD L WOOD	TH EXPLORATION LLC	1/8+	923 523	N/A	N/A	N/A	N/A
10*17579	9-14-18	U	DON COFFIELD AND GLENDA DOBBS COFFIELD	TH EXPLORATION LLC	1/8+	923 525	N/A	N/A	N/A	N/A
10*17580	9-14-18	U	PAUL CRAIG CUNNINGHAM	TH EXPLORATION LLC	1/8+	923 530	N/A	N/A	N/A	N/A
10*17581	9-14-18	U	PAULA WEIRES	TH EXPLORATION LLC	1/8+	923 486	N/A	N/A	N/A	N/A
10*17582	9-14-18	U	JOHN THOMAS ERAZMUS AND JEAN R ERAZMUS	TH EXPLORATION LLC	1/8+	924 124	N/A	N/A	N/A	N/A
10*17612	9-14-18	U	BEVERLY A LEDBETTER	TH EXPLORATION LLC	1/8+	923 480	N/A	N/A	N/A	N/A
10*17613	9-14-18	U	CARLTON DOBBS JR AND MIKHAIL PROKOPENKO	TH EXPLORATION LLC	1/8+	924 120	N/A	N/A	N/A	N/A
10*17614	9-14-18	U	DAVID DOBBS	TH EXPLORATION LLC	1/8+	923 489	N/A	N/A	N/A	N/A
10*17615	9-14-18	U	PAULA JO WRIGHT	TH EXPLORATION LLC	1/8+	923 482	N/A	N/A	N/A	N/A
10*17616	9-14-18	U	RONALD DOBBS AND ELIZABETH DOBBS	TH EXPLORATION LLC	1/8+	924 107	N/A	N/A	N/A	N/A
10*17617	9-14-18	U	UNITED DISCIPLES OF CHRIST CHURCH	TH EXPLORATION LLC	1/8+	924 129	N/A	N/A	N/A	N/A
10*17664	9-14-18	U	RUDOLPH H PARSONS	TH EXPLORATION LLC	1/8+	923 511	N/A	N/A	N/A	N/A
10*17667	9-14-18	U	THOMAS BRIAN WARRICK	TH EXPLORATION LLC	1/8+	923 509	N/A	N/A	N/A	N/A
10*17668	9-14-18	U	KENNETH R DOBBS	TH EXPLORATION LLC	1/8+	923 503	N/A	N/A	N/A	N/A
10*17671	9-14-18	U	JAMES L STOUT	TH EXPLORATION LLC	1/8+	923 484	N/A	N/A	N/A	N/A
10*17674	9-14-18	U	HOWARD L WOOD AND BETH E WOOD	TH EXPLORATION LLC	1/8+	923 505	N/A	N/A	N/A	N/A
10*17675	9-14-18	U	GREGORY DEANE WIBLE AND CAROLYN JEAN WIBLE	TH EXPLORATION LLC	1/8+	923 507	N/A	N/A	N/A	N/A
10*17676	9-14-18	U	JAMES C DORIA AND DEIRDE G DORIA	TH EXPLORATION LLC	1/8+	923 513	N/A	N/A	N/A	N/A
10*17700	9-14-18	U	ROGER L GARRISON AND MARILYN L GARRISON	TH EXPLORATION LLC	1/8+	923 472	N/A	N/A	N/A	N/A
10*17701	9-14-18	U	SUE ANN WORD	TH EXPLORATION LLC	1/8+	923 470	N/A	N/A	N/A	N/A
10*17702	9-14-18	U	TAMMY BETH RAMSEY	TH EXPLORATION LLC	1/8+	925 500	N/A	N/A	N/A	N/A
10*17703	9-14-18	U	SHIRLEY N COX	TH EXPLORATION LLC	1/8+	923 498	N/A	N/A	N/A	N/A
10*17708	9-14-18	U	BETTY LOU NOBLE	TH EXPLORATION LLC	1/8+	924 127	N/A	N/A	N/A	N/A
10*17711	9-14-18	U	KURT J WENNEMAN & DEBRA A WENNEMAN	TH EXPLORATION LLC	1/8+	923 520	N/A	N/A	N/A	N/A
10*17766	9-14-18	U	EDWARD S ROSENTHAL AND NANCY ANN GOLDBERG ROSENTHAL	TH EXPLORATION LLC	1/8+	928 564	N/A	N/A	N/A	N/A
10*17767	9-14-18	U	WILLIAM K MERRITT AND LINDA J MERRITT	TH EXPLORATION LLC	1/8+	923 474	N/A	N/A	N/A	N/A
10*17769	9-14-18	U	GLADYS FRAZIER KING	TH EXPLORATION LLC	1/8+	923 492	N/A	N/A	N/A	N/A
10*17771	9-14-18	U	CHARLES WARRICK AND LISA WARRICK	TH EXPLORATION LLC	1/8+	923 477	N/A	N/A	N/A	N/A
10*17830	9-14-18	U	BRIAN K MASTERS AND MELINDA D MASTERS	TH EXPLORATION LLC	1/8+	925 319	N/A	N/A	N/A	N/A
10*17833	9-14-18	U	KEVIN W RANDOLPH AND BONNIE J RANDOLPH	TH EXPLORATION LLC	1/8+	929 296	N/A	N/A	N/A	N/A
10*17836	9-14-18	U	CAREY J KENDALL AND HAZEL M KENDALL	TH EXPLORATION LLC	1/8+	929 301	N/A	N/A	N/A	N/A
10*17837	9-14-18	U	RONALD L CROW AND GLENDA F CROW	TH EXPLORATION LLC	1/8+	929 309	N/A	N/A	N/A	N/A

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10*17838	9-14-18	U	CHARLOTTE E MARRINER	TH EXPLORATION LLC	1/8+	929 299	N/A	N/A	N/A	N/A
10*17839	9-14-18	U	EDDA JO DOBBS	TH EXPLORATION LLC	1/8+	930 15	N/A	N/A	N/A	N/A
10*17841	9-14-18	U	BARBARA DOBBS GORBY	TH EXPLORATION LLC	1/8+	929 304	N/A	N/A	N/A	N/A
10*17842	9-14-18	U	GARI JO STACKHOUSE	TH EXPLORATION LLC	1/8+	929 294	N/A	N/A	N/A	N/A
10*17877	9-14-18	U	WILLIAM A WESTEN AND VICKIE D WESTEN	TH EXPLORATION LLC	1/8+	924 549	N/A	N/A	N/A	N/A
10*17878	9-14-18	U	ROBERT E ROUSH AND SARAH M ROUSH	TH EXPLORATION LLC	1/8+	924 590	N/A	N/A	N/A	N/A
10*17879	9-14-18	U	HARRY R WRIGHT JR	TH EXPLORATION LLC	1/8+	924 588	N/A	N/A	N/A	N/A
10*17880	9-14-18	U	ANNA M WRIGHT	TH EXPLORATION LLC	1/8+	924 586	N/A	N/A	N/A	N/A
10*17881	9-14-18	U	WAYLON L MURPHREE AND ANGELA J MURPHREE	TH EXPLORATION LLC	1/8+	924 555	N/A	N/A	N/A	N/A
10*17885	9-14-18	U	JOHN RUSSELL BECKER	TH EXPLORATION LLC	1/8+	924 540	N/A	N/A	N/A	N/A
10*17976	9-14-18	U	JAMES WARREN CUNNINGHAM SR ESTATE	TH EXPLORATION LLC	1/8+	925 356	N/A	N/A	N/A	N/A
10*17982	9-14-18	U	DENNIS LEE WRIGHT AND MELINDA ANN WRIGHT	TH EXPLORATION LLC	1/8+	925 377	N/A	N/A	N/A	N/A
10*17984	9-14-18	U	CHARLES S CUNNINGHAM AND CORA CUNNINGHAM	TH EXPLORATION LLC	1/8+	925 316	N/A	N/A	N/A	N/A
10*18027	9-14-18	U	JAMES D KIMBREL AND PORTIA CONWAY KIMBREL	TH EXPLORATION LLC	1/8+	927 261	N/A	N/A	N/A	N/A
10*18090	9-14-18	U	JERRY L AND DONNA J GOLDBERG	TH EXPLORATION LLC	1/8+	923 500	N/A	N/A	N/A	N/A
10*18096	9-14-18	U	ROBERT E WEST	TH EXPLORATION LLC	1/8+	927 257	N/A	N/A	N/A	N/A
10*18101	9-14-18	U	ROMIE R FRAZIER JR AND CARROLL FRAZIER	TH EXPLORATION LLC	1/8+	927 248	N/A	N/A	N/A	N/A
10*18102	9-14-18	U	ELIZABETH HALE LEEK	TH EXPLORATION LLC	1/8+	927 245	N/A	N/A	N/A	N/A
10*18104	9-14-18	U	BENJAMIN MATHER AND REBECCA MATHER	TH EXPLORATION LLC	1/8+	929 306	N/A	N/A	N/A	N/A
10*18105	9-14-18	U	DAVID GIBSON AND REBECCA FRAZIER GIBSON	TH EXPLORATION LLC	1/8+	927 254	N/A	N/A	N/A	N/A
10*18187	9-14-18	U	WILLIAM C WEST AND DEBRA WEST	TH EXPLORATION LLC	1/8+	928 617	N/A	N/A	N/A	N/A
10*18188	9-14-18	U	KAREN SUE BLAKE	TH EXPLORATION LLC	1/8+	928 620	N/A	N/A	N/A	N/A
10*18243	9-14-18	U	JAMES MATHER	TH EXPLORATION LLC	1/8+	930 5	N/A	N/A	N/A	N/A
10*18244	9-14-18	U	DONALD A FRAZIER AND NANCY FRAZIER	TH EXPLORATION LLC	1/8+	930 8	N/A	N/A	N/A	N/A
10*18245	9-14-18	U	ANNABELL B CROW	TH EXPLORATION LLC	1/8+	930 11	N/A	N/A	N/A	N/A
10*18248	9-14-18	U	CHARLES GREGORY WRIGHT	TH EXPLORATION LLC	1/8+	923 516	N/A	N/A	N/A	N/A
10*18249	9-14-18	U	BYRON E DOBBS AND DORIS M DOBBS	TH EXPLORATION LLC	1/8+	930 13	N/A	N/A	N/A	N/A
10*18266	9-14-18	U	PATRICIA RUTTER	TH EXPLORATION LLC	1/8+	928 581	N/A	N/A	N/A	N/A
10*18268	9-14-18	U	CHARLES B MASTER AND KIMBERLY MASTERS	TH EXPLORATION LLC	1/8+	928 578	N/A	N/A	N/A	N/A
10*18359	9-14-18	U	BARBARA H SIMMONS	TH EXPLORATION LLC	1/8+	931 360	N/A	N/A	N/A	N/A
10*18362	9-14-18	U	MICHELLE ANNETTE WRIGHT AND CHRISTOPHER A KELLY	TH EXPLORATION LLC	1/8+	931 404	N/A	N/A	N/A	N/A
10*18416	9-14-18	U	GREG WISHARD AND BETH A WISHARD	TH EXPLORATION LLC	1/8+	944 171	N/A	N/A	N/A	N/A
10*18646	9-14-18	U	CHRISTOPHER WRIGHT AND CRYSTAL DIXON	TH EXPLORATION LLC	1/8+	936 158	N/A	N/A	N/A	N/A
10*18800	9-14-18	U	JUSTIN VAN METER	TH EXPLORATION LLC	1/8+	937 638	N/A	N/A	N/A	N/A
10*18802	9-14-18	U	CHRISTOPHER VAN METER	TH EXPLORATION LLC	1/8+	937 640	N/A	N/A	N/A	N/A
10*18868	9-14-18	U	MARK A CUNNINGHAM AND JOAN CUNNINGHAM	TH EXPLORATION LLC	1/8+	941 326	N/A	N/A	N/A	N/A
10*19393	9-14-18	U	EDWIN M MICHEL AND KIMBERLY B MICHEL	TH EXPLORATION LLC	1/8+	940 333	N/A	N/A	N/A	N/A
10*19394	9-14-18	U	MELVIN J FRANCIS	TH EXPLORATION LLC	1/8+	940 331	N/A	N/A	N/A	N/A
10*19410	9-14-18	U	BARBARA L ANDERSON	TH EXPLORATION LLC	1/8+	940 152	N/A	N/A	N/A	N/A
10*19483	9-14-18	U	GARY DOBBS AND PEGGY LEE DOBBS	TH EXPLORATION LLC	1/8+	941 323	N/A	N/A	N/A	N/A
10*19523	9-14-18	U	CHRISTIAN CHURCH DISCIPLES OF CHRIST IN FLORIDA INC	TH EXPLORATION LLC	1/8+	943 6	N/A	N/A	N/A	N/A
10*19628	9-14-18	U	PATRICK T HOWELL	TH EXPLORATION LLC	1/8+	944 173	N/A	N/A	N/A	N/A
10*19645	9-14-18	U	DUSTIN HENRY, INCARCERATED PERSON BY COURT APPOINTED GUARDIAN AD LITEM DAVID C WHITE, ESQ.	TH EXPLORATION LLC	1/8+	944 169	N/A	N/A	N/A	N/A
10*19672	9-14-18	U	GREGG S GOLDMAN	TH EXPLORATION LLC	1/8+	944 180	N/A	N/A	N/A	N/A
10*19687	9-14-18	U	SCOTT D GOLDMAN	TH EXPLORATION LLC	1/8+	944 175	N/A	N/A	N/A	N/A
10*19688	9-14-18	U	BRIAN WILLIAM DOBBS AND LISA DOBBS	TH EXPLORATION LLC	1/8+	944 177	N/A	N/A	N/A	N/A

WW-6A1 Well Bore Tracts

Operator's Well No. Ten High 1S - 14HU

Lease ID	Parcel	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Book/Page		Assignment	Assignment	Assignment	Assignment
10*19726	9-14-18	U	PAUL RUSSELL AND MARY LOU RUSSELL	TH EXPLORATION LLC	1/8+	944	449	N/A	N/A	N/A	N/A
10*19863	9-14-18	U	DAVID ROSARIO JR AND JULIE A ROSARIO	TH EXPLORATION LLC	1/8+	945	485	N/A	N/A	N/A	N/A
10*19941	9-14-18	U	DAVD LEE SCOTT AND MARGARET TANISE SCOTT	TH EXPLORATION LLC	1/8+	948	571	N/A	N/A	N/A	N/A
10*19946	9-14-18	U	THE ESTATE OF CHARLINE F GUDGEL	TH EXPLORATION LLC	1/8+	948	301	N/A	N/A	N/A	N/A
10*19952	9-14-18	U	JOHN C BURNS SUPPLEMENTAL NEEDS TRUST	TH EXPLORATION LLC	1/8+	948	212	N/A	N/A	N/A	N/A
10*19954	9-14-18	U	LAWRENCE W CROW JR AND WANDA F CROW	TH EXPLORATION LLC	1/8+	948	203	N/A	N/A	N/A	N/A
10*21089	9-14-18	U	DONALD SCOTT DOBBS	TH EXPLORATION LLC	1/8+	951	636	N/A	N/A	N/A	N/A
10*21109	9-14-18	U	WILLIAM JUDSON HERVEY III AND THERESA HERVEY	TH EXPLORATION LLC	1/8+	953	98	N/A	N/A	N/A	N/A
10*21110	9-14-18	U	JAMES ROBERT HERVEY AND KAREN HERVEY	TH EXPLORATION LLC	1/8+	953	100	N/A	N/A	N/A	N/A
10*21763	9-14-18	U	CHARLES R PETERS AND SHARON DOBBS PETERS	TH EXPLORATION LLC	1/8+	959	468	N/A	N/A	N/A	N/A
10*21826	9-14-18	U	SHERILL R DOBBS AND ELLA V DOBBS	TH EXPLORATION LLC	1/8+	959	466	N/A	N/A	N/A	N/A
10*21840	9-14-18	U	STEPHEN LEEK	TH EXPLORATION LLC	1/8+	959	470	N/A	N/A	N/A	N/A
10*21869	9-14-18	U	DAVID A WEBER AND JUDITH V WEBER	TH EXPLORATION LLC	1/8+	953	495	N/A	N/A	N/A	N/A
10*21931	9-14-18	U	DONALD M BURNS SUPPLEMENTAL NEEDS TRUST JOHN CURTIS BURNS TRUSTEE	TH EXPLORATION LLC	1/8+	953	491	N/A	N/A	N/A	N/A
10*21932	9-14-18	U	VAUGHN D BURNS SUPPLEMENTAL NEEDS TRUST JOHN CURTIS BURNS TRUSTEE	TH EXPLORATION LLC	1/8+	953	487	N/A	N/A	N/A	N/A
10*22192	9-14-18	U	WILLIAM SHEPHERD AND JERRY LEA SHEPHERD	TH EXPLORATION LLC	1/8+	954	347	N/A	N/A	N/A	N/A
10*47051.325.1	9-14-18	U	JUDITH A LEWANDOSKY AND ALAN E LEWANDOSKY	TH EXPLORATION LLC	1/8+	906	225	N/A	N/A	N/A	N/A
10*47051.325.2	9-14-18	U	TIMMY LEE STOUT AND DOROTHY MARIE STOUT	TH EXPLORATION LLC	1/8+	906	222	N/A	N/A	N/A	N/A
10*47051.325.3	9-14-18	U	NICHOLAS D PAVLIK AND GLORIA K PAVLIK	TH EXPLORATION LLC	1/8+	906	228	N/A	N/A	N/A	N/A
10*47051.325.4	9-14-18	U	JAMES H WHITE AND RITA FRANKS WHITE	TH EXPLORATION LLC	1/8+	906	230	N/A	N/A	N/A	N/A
10*47051.325.5	9-14-18	U	SAMUEL ALAN MCCORD AND WINIFRED A MCKEE	TH EXPLORATION LLC	1/8+	906	232	N/A	N/A	N/A	N/A
10*47051.325.6	9-14-18	U	THOMAS O MCCORD	TH EXPLORATION LLC	1/8+	906	235	N/A	N/A	N/A	N/A
10*47051.325.7	9-14-18	U	SHERON JONES	TH EXPLORATION LLC	1/8+	906	237	N/A	N/A	N/A	N/A
10*47051.325.8	9-14-18	U	RICK PAVLIK	TH EXPLORATION LLC	1/8+	906	239	N/A	N/A	N/A	N/A
10*15752	9-15-3	V	KIM O CHAMBERS AND DEBRA CHAMBERS	TH EXPLORATION LLC	1/8+	906	258	N/A	N/A	N/A	N/A
10*16017	9-15-3	V	FLOYD A MCFADDEN	TH EXPLORATION LLC	1/8+	906	260	N/A	N/A	N/A	N/A
10*16018	9-15-3	V	BARBARA MCFADDEN ALBRIGHT	TH EXPLORATION LLC	1/8+	906	262	N/A	N/A	N/A	N/A
10*16143	9-15-3	V	MARY LOU CHAMBERS	TH EXPLORATION LLC	1/8+	906	276	N/A	N/A	N/A	N/A
10*16144	9-15-3	V	PATTIE S MADRID	TH EXPLORATION LLC	1/8+	906	278	N/A	N/A	N/A	N/A
10*16180	9-15-3	V	LARRY L CHAMBERS	TH EXPLORATION LLC	1/8+	906	280	N/A	N/A	N/A	N/A
10*16181	9-15-3	V	NORMA CHRISTINE WHIPP AND GERALD WAYNE BLACK	TH EXPLORATION LLC	1/8+	906	281	N/A	N/A	N/A	N/A
10*16182	9-15-3	V	FIRST CHRISTIAN CHURCH OF MOUNDSVILLE BY ROGER FRANCIS AND ROBERT ALBERT TRUSTEES	TH EXPLORATION LLC	1/8+	906	283	N/A	N/A	N/A	N/A
10*16239	9-15-3	V	ANGELA L OLDFIELD AND KENNETH W OLDFIELD	TH EXPLORATION LLC	1/8+	906	287	N/A	N/A	N/A	N/A
10*16285	9-15-3	V	JOHN A SHUTZ AND CYNTHIA J SHUTZ	TH EXPLORATION LLC	1/8+	906	291	N/A	N/A	N/A	N/A
10*16441	9-15-3	V	GEORGE FRANKLIN AND NANCY ANN REED	TH EXPLORATION LLC	1/8+	924	619	N/A	N/A	N/A	N/A
10*16442	9-15-3	V	FRED T CHAMBERS AND JERRY L CHAMBERS	TH EXPLORATION LLC	1/8+	924	174	N/A	N/A	N/A	N/A
10*16443	9-15-3	V	BARBARA BROWN CHAMBERS	TH EXPLORATION LLC	1/8+	924	621	N/A	N/A	N/A	N/A
10*16444	9-15-3	V	CATHERINE ELLEN CHAMBERS	TH EXPLORATION LLC	1/8+	924	623	N/A	N/A	N/A	N/A
10*16445	9-15-3	V	DOUGLAS C AND GWENDLYN D LEWTON	TH EXPLORATION LLC	1/8+	925	123	N/A	N/A	N/A	N/A
10*16483	9-15-3	V	JOHN C AND BARBARA H WINTER	TH EXPLORATION LLC	1/8+	924	178	N/A	N/A	N/A	N/A
10*16486	9-15-3	V	DAVID ALAN WILKINSON AND PATRICIA LYNN WILKINSON	TH EXPLORATION LLC	1/8+	924	180	N/A	N/A	N/A	N/A
10*16490	9-15-3	V	WILLIAM H AND MERRY C COTTON	TH EXPLORATION LLC	1/8+	924	176	N/A	N/A	N/A	N/A
10*16540	9-15-3	V	JAMES A WINTER AND CONNIE G WINTER	TH EXPLORATION LLC	1/8+	924	184	N/A	N/A	N/A	N/A
10*16680	9-15-3	V	RONALD J FICCA & JENNIFER CHAMBERS FICCA	TH EXPLORATION LLC	1/8+	924	186	N/A	N/A	N/A	N/A
10*16726	9-15-3	V	LESLEY K WHITE	TH EXPLORATION LLC	1/8+	924	182	N/A	N/A	N/A	N/A

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10*16733	9-15-3	V	SARAH L BISHOP	TH EXPLORATION LLC	1/8+	924 172	N/A	N/A	N/A	N/A
10*16835	9-15-3	V	ERNEST CARL AUGUSTINE JR	TH EXPLORATION LLC	1/8+	924 188	N/A	N/A	N/A	N/A
10*16948	9-15-3	V	FREDERICK M LEWTON	TH EXPLORATION LLC	1/8+	924 136	N/A	N/A	N/A	N/A
10*16949	9-15-3	V	STEVEN R UTT AND BRIANNE L UTT	TH EXPLORATION LLC	1/8+	924 138	N/A	N/A	N/A	N/A
10*16950	9-15-3	V	JAY E LEWTON AND CECILIA E LEWTON	TH EXPLORATION LLC	1/8+	924 134	N/A	N/A	N/A	N/A
10*16952	9-15-3	V	RUSSELL D HERVEY	TH EXPLORATION LLC	1/8+	924 132	N/A	N/A	N/A	N/A
10*16953	9-15-3	V	DONALD T HOGAN AND JEAN K HOGAN	TH EXPLORATION LLC	1/8+	924 140	N/A	N/A	N/A	N/A
10*16990	9-15-3	V	ROSEMARY H BEAVERS	TH EXPLORATION LLC	1/8+	924 152	N/A	N/A	N/A	N/A
10*16992	9-15-3	V	LINDA C ABRAHAM	TH EXPLORATION LLC	1/8+	924 148	N/A	N/A	N/A	N/A
10*16993	9-15-3	V	JULIA HOOVER	TH EXPLORATION LLC	1/8+	924 150	N/A	N/A	N/A	N/A
10*16995	9-15-3	V	DIANE ELSIE RAMSEY	TH EXPLORATION LLC	1/8+	924 146	N/A	N/A	N/A	N/A
10*17129	9-15-3	V	ROBERTA JANE PARKINSON	TH EXPLORATION LLC	1/8+	924 142	N/A	N/A	N/A	N/A
10*17131	9-15-3	V	LAURA E TOTTEN AND LONNIE R TOTTEN	TH EXPLORATION LLC	1/8+	924 154	N/A	N/A	N/A	N/A
10*17134	9-15-3	V	UNITED CHRISTIAN MISSIONARY SOCIETY	TH EXPLORATION LLC	1/8+	924 144	N/A	N/A	N/A	N/A
10*17209	9-15-3	V	GAYLE S SHANNON	TH EXPLORATION LLC	1/8+	924 168	N/A	N/A	N/A	N/A
10*17289	9-15-3	V	HAROLD R HUNT JR AND ELIZABETH A HUNT	TH EXPLORATION LLC	1/8+	924 170	N/A	N/A	N/A	N/A
10*17396	9-15-3	V	CHRISTINE L KIDD	TH EXPLORATION LLC	1/8+	924 158	N/A	N/A	N/A	N/A
10*17413	9-15-3	V	ROBERT M CHAMBERS AND CHARLOTTE A CHAMBERS	TH EXPLORATION LLC	1/8+	924 160	N/A	N/A	N/A	N/A
10*17436	9-15-3	V	ANDREW M HOOVER AND DINAH R HOOVER	TH EXPLORATION LLC	1/8+	924 156	N/A	N/A	N/A	N/A
10*17448	9-15-3	V	FREDERICK L HERVEY AND CATHY J HERVEY	TH EXPLORATION LLC	1/8+	924 162	N/A	N/A	N/A	N/A
10*17452	9-15-3	V	ALAN H DEGARMO AND MARY K DEGARMO	TH EXPLORATION LLC	1/8+	924 164	N/A	N/A	N/A	N/A
10*17486	9-15-3	V	JOSELYN M KEELY	TH EXPLORATION LLC	1/8+	929 364	N/A	N/A	N/A	N/A
10*17487	9-15-3	V	DEBORAH R MOKOSH	TH EXPLORATION LLC	1/8+	924 166	N/A	N/A	N/A	N/A
10*17563	9-15-3	V	DONALD L WOOD	TH EXPLORATION LLC	1/8+	923 523	N/A	N/A	N/A	N/A
10*17617	9-15-3	V	UNITED DISCIPLES OF CHRIST CHURCH	TH EXPLORATION LLC	1/8+	924 129	N/A	N/A	N/A	N/A
10*17674	9-15-3	V	HOWARD L WOOD AND BETH E WOOD	TH EXPLORATION LLC	1/8+	923 505	N/A	N/A	N/A	N/A
10*17675	9-15-3	V	GREGORY DEANE WIBLE AND CAROLYN JEAN WIBLE	TH EXPLORATION LLC	1/8+	923 507	N/A	N/A	N/A	N/A
10*17701	9-15-3	V	SUE ANN WORD	TH EXPLORATION LLC	1/8+	923 470	N/A	N/A	N/A	N/A
10*17702	9-15-3	V	TAMMY BETH RAMSEY	TH EXPLORATION LLC	1/8+	925 500	N/A	N/A	N/A	N/A
10*18416	9-15-3	V	GREG WISHARD AND BETH A WISHARD	TH EXPLORATION LLC	1/8+	944 171	N/A	N/A	N/A	N/A
10*19523	9-15-3	V	CHRISTIAN CHURCH DISCIPLES OF CHRIST IN FLORIDA INC	TH EXPLORATION LLC	1/8+	943 6	N/A	N/A	N/A	N/A
10*19539	9-15-3	V	SUSAN ASTON	TH EXPLORATION LLC	1/8+	936 505	N/A	N/A	N/A	N/A
10*19946	9-15-3	V	THE ESTATE OF CHARLINE F GUDGEL	TH EXPLORATION LLC	1/8+	948 301	N/A	N/A	N/A	N/A
10*19952	9-15-3	V	JOHN C BURNS SUPPLEMENTAL NEEDS TRUST	TH EXPLORATION LLC	1/8+	948 212	N/A	N/A	N/A	N/A
10*21109	9-15-3	V	WILLIAM JUDSON HERVEY III AND THERESA HERVEY	TH EXPLORATION LLC	1/8+	953 98	N/A	N/A	N/A	N/A
10*21110	9-15-3	V	JAMES ROBERT HERVEY AND KAREN HERVEY	TH EXPLORATION LLC	1/8+	953 100	N/A	N/A	N/A	N/A
10*21869	9-15-3	V	DAVID A WEBER AND JUDITH V WEBER	TH EXPLORATION LLC	1/8+	953 495	N/A	N/A	N/A	N/A
10*21931	9-15-3	V	DONALD M BURNS SUPPLEMENTAL NEEDS TRUST JOHN CURTIS BURNS TRUSTEE	TH EXPLORATION LLC	1/8+	953 491	N/A	N/A	N/A	N/A
10*21932	9-15-3	V	VAUGHN D BURNS SUPPLEMENTAL NEEDS TRUST JOHN CURTIS BURNS TRUSTEE	TH EXPLORATION LLC	1/8+	953 487	N/A	N/A	N/A	N/A
10*22192	9-15-3	V	WILLIAM SHEPHERD AND JERRY LEA SHEPHERD	TH EXPLORATION LLC	1/8+	954 347	N/A	N/A	N/A	N/A
10*47051.325.1	9-15-3	V	JUDITH A LEWANDOSKY AND ALAN E LEWANDOSKY	TH EXPLORATION LLC	1/8+	906 225	N/A	N/A	N/A	N/A
10*47051.325.3	9-15-3	V	NICHOLAS D PAVLIK AND GLORIA K PAVLIK	TH EXPLORATION LLC	1/8+	906 228	N/A	N/A	N/A	N/A
10*47051.325.4	9-15-3	V	JAMES H WHITE AND RITA FRANKS WHITE	TH EXPLORATION LLC	1/8+	906 230	N/A	N/A	N/A	N/A
10*47051.325.5	9-15-3	V	SAMUEL ALAN MCCORD AND WINIFRED A MCKEE	TH EXPLORATION LLC	1/8+	906 232	N/A	N/A	N/A	N/A
10*47051.325.6	9-15-3	V	THOMAS O MCCORD	TH EXPLORATION LLC	1/8+	906 235	N/A	N/A	N/A	N/A
10*47051.325.7	9-15-3	V	SHERON JONES	TH EXPLORATION LLC	1/8+	906 237	N/A	N/A	N/A	N/A
10*47051.325.8	9-15-3	V	RICK PAVLIK	TH EXPLORATION LLC	1/8+	906 239	N/A	N/A	N/A	N/A

Lease ID	Parcel	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Book/Page	Assignment	Assignment	Assignment	Assignment
10*16402	9-15-4	W	VALERIE L WAGNER	TH EXPLORATION LLC	1/8+	921 464	N/A	N/A	N/A	N/A
10*16421	9-15-4	W	SAMUEL EDGAR LEWIS AND ELIZABETH LEWIS	TH EXPLORATION LLC	1/8+	921 449	N/A	N/A	N/A	N/A
10*16491	9-15-4	W	BELA N WELLENREITER	TH EXPLORATION LLC	1/8+	921 467	N/A	N/A	N/A	N/A
10*17341	9-15-4	W	JUDITH V ROBICHAUD AND DENNIS L ROBICHAUD	TH EXPLORATION LLC	1/8+	921 456	N/A	N/A	N/A	N/A
10*17412	9-15-4	W	CHARLES L SHILLITO	TH EXPLORATION LLC	1/8+	921 458	N/A	N/A	N/A	N/A
10*17439	9-15-4	W	WILLARD D MCCALL JR AND ADELE HUEY MCCALL	TH EXPLORATION LLC	1/8+	921 454	N/A	N/A	N/A	N/A
10*17509	9-15-4	W	BRIAN A MCCALL	TH EXPLORATION LLC	1/8+	921 451	N/A	N/A	N/A	N/A
10*17525	9-15-4	W	PAUL W STIFEL AND MARY M GROVER-STIFEL	TH EXPLORATION LLC	1/8+	921 460	N/A	N/A	N/A	N/A
10*18294	9-15-4	W	MARY M MARTIN AND WINFRED K MARTIN JR	TH EXPLORATION LLC	1/8+	929 342	N/A	N/A	N/A	N/A
10*22089	9-15-4	W	MARCIA A LUKE	TH EXPLORATION LLC	1/8+	961 333	N/A	N/A	N/A	N/A
10*22108	9-15-4	W	KATHLEEN ANN MCNEILL & MICHAEL S MCNEILL	TH EXPLORATION LLC	1/8+	961 511	N/A	N/A	N/A	N/A
10*22124	9-15-4	W	GENERAL RECEIVER OF MARSHALL COUNTY ATTN: BERNIE TWIGG	TH EXPLORATION LLC	1/8+	961 337	N/A	N/A	N/A	N/A
10*22257	9-15-4	W	CHARLES F ALLEY TRUST EMMANUEL PREVOLES TRUSTEE	TH EXPLORATION LLC	1/8+	970 26	N/A	N/A	N/A	N/A
10*22380	9-15-4	W	JUDITH S KNIGHT	TH EXPLORATION LLC	1/8+	962 276	N/A	N/A	N/A	N/A
10*47051.318.46	9-15-4	W	CAROL L BOBBY AND DONALD J BOBBY	TH EXPLORATION LLC	1/8+	905 603	N/A	N/A	N/A	N/A
10*47051.318.48	9-15-4	W	DEBORAH SUE KYLE	TH EXPLORATION LLC	1/8+	905 600	N/A	N/A	N/A	N/A

STATE OF WEST VIRGINIA §
 §
COUNTY OF MARSHALL §

Jan Pest
MARSHALL County 12:43:01 PM
Instrument No 1404876
Date Recorded 05/20/2016
Document Type ASN
Pages Recorded 20
Book-Page 36-148
Recording Fee \$20.00
Additional \$8.00

ASSIGNMENT AND CONVEYANCE

THIS ASSIGNMENT AND CONVEYANCE (the "Assignment") is made and entered into this 17th day of May, 2016 (the "Effective Date"), by and between CHEVRON U.S.A. INC. (hereinafter "Assignor") and TH EXPLORATION, LLC (hereinafter "Assignee") pursuant to the terms of that certain Acreage Trade Agreement between the Assignor and the Assignee dated May 2, 2016 (the "Acreage Trade Agreement"). Capitalized terms used but not defined herein and defined in the Acreage Trade Agreement shall have the meanings given to such terms in the Acreage Trade Agreement.

WITNESSETH:

WHEREAS, Assignor desires to assign, set over, and transfer to Assignee all of Assignor's right, title, and interest in and to those certain Oil and Gas Leases situated in Marshall County, West Virginia, as described in Exhibit "A", and as depicted in Exhibits "A-1" and "A-2", attached hereto and made a part hereof (hereinafter the "Leases"); and

WHEREAS, Assignor desires to assign, set over, and transfer to Assignee all of Assignor's right, title, and interest in and to the Leases as described below.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and subject to the limited warranties, restrictions and conditions hereinafter mentioned, the parties hereto, intending to be legally bound, do covenant and agree as follows:

1. Assignment. Assignor does hereby grant, bargain, sell, convey, deliver, assign, set over and transfer, as of the Effective Date, to Assignee, its respective successors and assigns, forever, all of Assignor's right, title and interest in and to the Leases, and the lands covered thereby, together with all rights incident thereto and appurtenances thereon, except that Assignor accepts and reserves from this Assignment the Chevron ORRI previously conveyed to Assignor and as described in that certain Memorandum of Assignment of Oil and Gas Lease Interests dated November 6, 2012 by and between Cornell Holdings Incorporated and Chevron U.S.A. Inc., which is recorded at Book 0028, Page 0239 in the Office of the County Clerk of Marshall County, West Virginia.

TO HAVE AND TO HOLD such right, title and interest in and to the Leases unto Assignee or its designee, and their respective successors and assigns, forever, in accordance with the provisions of this Assignment.

2. Special Warranty. Assignor represents and warrants that Assignor has not conveyed or otherwise encumbered (other than Permitted Encumbrances) its interest in the Conveyed Interests since the time that Assignor obtained its interests in the Leases. Assignor does covenant, promise and agree, to and with the Assignee, its respective successors and assigns, to forever specially warrant and defend the title to the Leases or portions thereof included under this Assignment, unto the Assignee and its respective successors and assigns, against the lawful claims of Assignor, and all persons claiming, or to claim, the same or any part thereof, by, through or under Assignor.

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for now

STATE OF WEST VIRGINIA §
§
COUNTY OF MARSHALL §

ASSIGNMENT AND CONVEYANCE

THIS ASSIGNMENT AND CONVEYANCE (the "**Assignment**") is made and entered into this 29th day of November, 2016 (the "**Effective Date**"), by and between **CHEVRON U.S.A. INC.** (hereinafter "**Assignor**") and **TH EXPLORATION, LLC** (hereinafter "**Assignee**") pursuant to the terms of that certain Acreage Trade Agreement between the Assignor and the Assignee dated May 2, 2016 (the "**Acreage Trade Agreement**"). Capitalized terms used but not defined herein and defined in the Acreage Trade Agreement shall have the meanings given to such terms in the Acreage Trade Agreement.

WITNESSETH:

WHEREAS, Assignor desires to assign, set over, and transfer to Assignee all of Assignor's right, title, and interest in and to those certain Oil and Gas Leases situated in Marshall County, West Virginia, as described in Exhibit "A", attached hereto and made a part hereof (hereinafter the "**Leases**"); and

WHEREAS, Assignor desires to assign, set over, and transfer to Assignee all of Assignor's right, title, and interest in and to the Leases as described below.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and subject to the limited warranties, restrictions and conditions hereinafter mentioned, the parties hereto, intending to be legally bound, do covenant and agree as follows:

1. **Assignment.** Assignor does hereby grant, bargain, sell, convey, deliver, assign, set over and transfer, as of the Effective Date, to Assignee, its respective successors and assigns, forever, all of Assignor's right, title and interest in and to the Leases, and the lands covered thereby, together with all rights incident thereto and appurtenances thereon, and that Assignor excepts and reserves from this Assignment the Chevron ORRI previously conveyed to Assignor and as described in that certain Memorandum of Assignment of Oil and Gas Lease Interests dated November 6, 2012 by and between Cornell Holdings Incorporated and Chevron U.S.A. Inc., which is recorded at Book 0028, Page 0239 in the Office of the County Clerk of Marshall County, West Virginia.

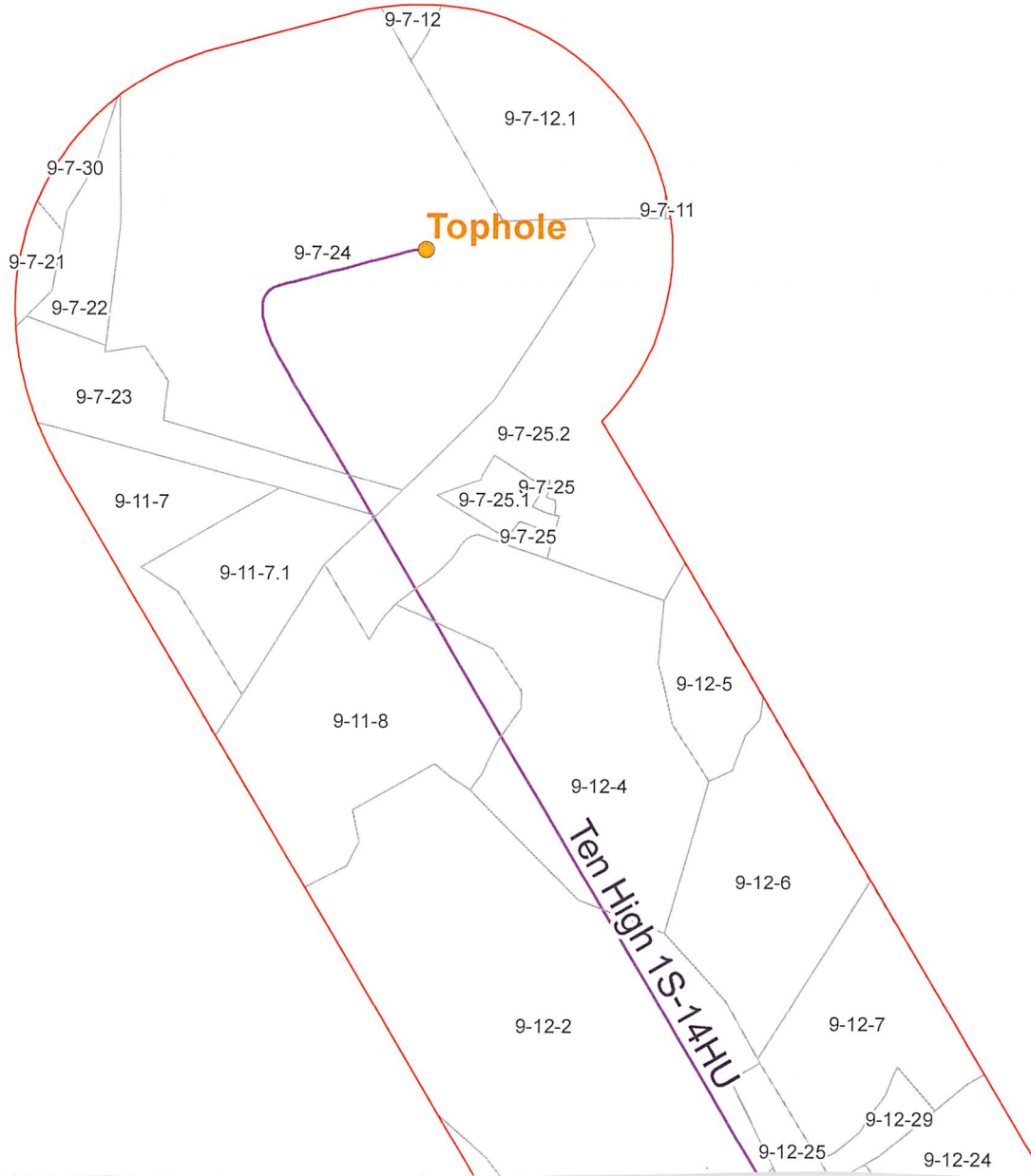
TO HAVE AND TO HOLD such right, title and interest in and to the Leases unto Assignee or its designee, and their respective successors and assigns, forever, in accordance with the provisions of this Assignment.

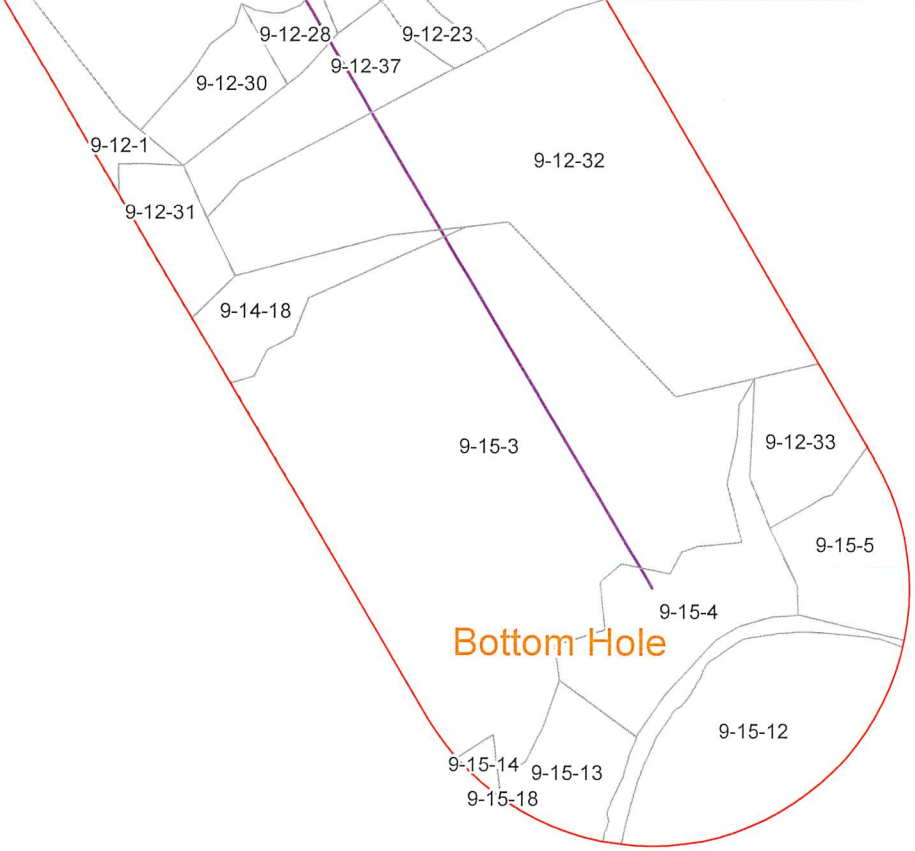
2. **Special Warranty.** Assignor represents and warrants that Assignor has not conveyed or otherwise encumbered (other than Permitted Encumbrances) its interest in the Leases since the time that Assignor obtained its interests in the Leases. Assignor does covenant, promise and agree, to and with the Assignee, its respective successors and assigns, to forever specially warrant and defend the title to the Leases or portions thereof included under this Assignment, unto the Assignee and its respective successors and assigns, against the lawful claims of Assignor, and all persons claiming, or to claim, the same or any part thereof, by, through or under Assignor.

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Ten High 1S-14HU

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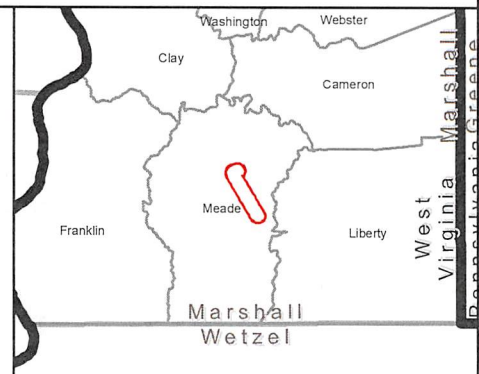
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 Projection: Transverse Mercator
 Datum: North American 1983
 False easting: 500000.0000
 False northing: 0.0000
 Central meridian: -81.0000
 Scale factor: 0.9996
 Latitude of origin: 0.0000
 Units: Foot US

CONFIDENTIAL



-  1500 Foot Buffer
-  Well of Interest

Ten High 1S-14HU Operators within 1500 Feet of Well Borehole



**Offset Operators within 1500'
Ten High 1S - 14HU**

County	District	Parcel	Owner	Address
MARSHALL	MEADE	9-11-7	TH EXPLORATION LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-11-7.1	TH EXPLORATION LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-11-8	TH EXPLORATION LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-12-1	TH EXPLORATION LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-12-2	TH EXPLORATION LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-12-4	TH EXPLORATION LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-12-5	TH EXPLORATION LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-12-6	TH EXPLORATION LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-12-7	TH EXPLORATION LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-12-23	TH EXPLORATION LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-12-24	AEHUSA WOLFBERRY I	1200 Post Oak Blvd Houston, TX 77056
MARSHALL	MEADE	9-12-25	AEHUSA WOLFBERRY I	1200 Post Oak Blvd Houston, TX 77056
MARSHALL	MEADE	9-12-28	TH EXPLORATION LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-12-29	TH EXPLORATION LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-12-30	TH EXPLORATION LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-12-31	TH EXPLORATION LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-12-32	TH EXPLORATION LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-12-33	TH EXPLORATION LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-12-37	TH EXPLORATION LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-14-18	TH EXPLORATION LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-15-12	SOUTHWESTERN ENERGY COMPANY	10000 Energy Drive Spring, TX 77389
MARSHALL	MEADE	9-15-3	TH EXPLORATION LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107

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MARSHALL	MEADE	9-15-4	TH EXPLORATION LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-15-5	RICHARD W. BYERS	16474 Fish Creek Road Cameron, WV 26033
MARSHALL	MEADE	9-15-13	MARK RICHARD MILLER	9140 George Washington Hwy Bridgeport, WV 26330
MARSHALL	MEADE	9-15-14	TH EXPLORATION LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-15-18	TH EXPLORATION LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-7-11	TH EXPLORATION LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-7-12	TH EXPLORATION LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-7-12.1	TH EXPLORATION LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-7-21	TH EXPLORATION LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-7-22	TH EXPLORATION LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-7-23	TH EXPLORATION LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-7-24	TH EXPLORATION LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-7-25	TH EXPLORATION LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-7-25.1	TH EXPLORATION LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-7-25.2	TH EXPLORATION LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-7-30	TH EXPLORATION LLC	1320 S. University Drive Suite 500 Fort Worth, TX 76107

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NOV 14 2019

WV Department of
Environmental Protection