

#### west virginia department of environmental protection

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

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

Thursday, April 12, 2018 WELL WORK PERMIT Horizontal / New Drill

EQUITRANS, L. P. 625 LIBERTY AVE. SUITE 1700

PITTSBURGH`, PA 15222

Re: Permit approval for 519603 47-103-03228-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless 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: 519603

Farm Name: JOHN W. WYCOFF

U.S. WELL NUMBER: 47-103-03228-00-00

Horizontal New Drill Date Issued: 4/12/2018



### **PERMIT CONDITIONS**

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

### **CONDITIONS**

- 1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
- 3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
- 4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 5. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours
- 7. Well work activities shall not constitute a hazard to the safety of persons.
- 8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

WW - 2B (Rev. 8/10)

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

1) Well Operator:	Equitrans L.P.	307652	Wetzel	Grant	Big Run
		Operator ID	County	District	Quadrangle
2) Operator's Well	Number: 519603		3) Elevation:	1516	_
4) Well Type: (a) (	Oil or Gas X				
(b) I	f Gas: Production / Unde	erground Sto	rage X		
	Deep/ Sh	allow X			
6) Proposed Total 7) Approximate fre		ormation at F			
	pal seam depths: 828, 876, 1127,	1283			- Dona
9) Approximate co	oal seam depths: 828, 876, 1127, void depths,(coal, Karst, other):				- DAA 2-23-18
9) Approximate co		no past mining	)		2-23-18
9) Approximate co 10) Approximate v 11) Does land cor	void depths,(coal, Karst, other): _tain coal seams tributary to activ	no past mining ve mine?no		al sheets if ne	Office of Oil a
9) Approximate con 10) Approximate von 11) Does land con 12) Describe propo	void depths,(coal, Karst, other): _tain coal seams tributary to active	no past mining ve mine? no	ttach addition	The second second	Office of Oil an
9) Approximate con 10) Approximate von 11) Does land con 12) Describe propo	void depths,(coal, Karst, other): relation to activities the seams tributary to activities well work and fracturing methology.	no past mining ve mine? no	ttach addition	The second second	Office of Oil an

### 13) <u>CASING AND TUBING PROGRAM</u>

TYPE S	SPECIFIC	CATIONS		FOOTAGE	INTERVALS	<u>CEMENT</u>
3/19/18 ONM	<u>Size</u>	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor	20	J-55	54.5	40	40	29 ft^3/CTS
Fresh Water	9 5/8	A-500	40	1363	1363	455 ft^3/CTS
Coal						
Intermediate	7"	J-55	23.3	2593	2593	405 ft^3/CTS
Production						
Tubing						
Liners						

Packers: Kind: n/a

Sizes: n/a

Depths Set n/a

04/13/2018

### ATTACHMENT WW 2 B

Operator's Well No. 519603

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.

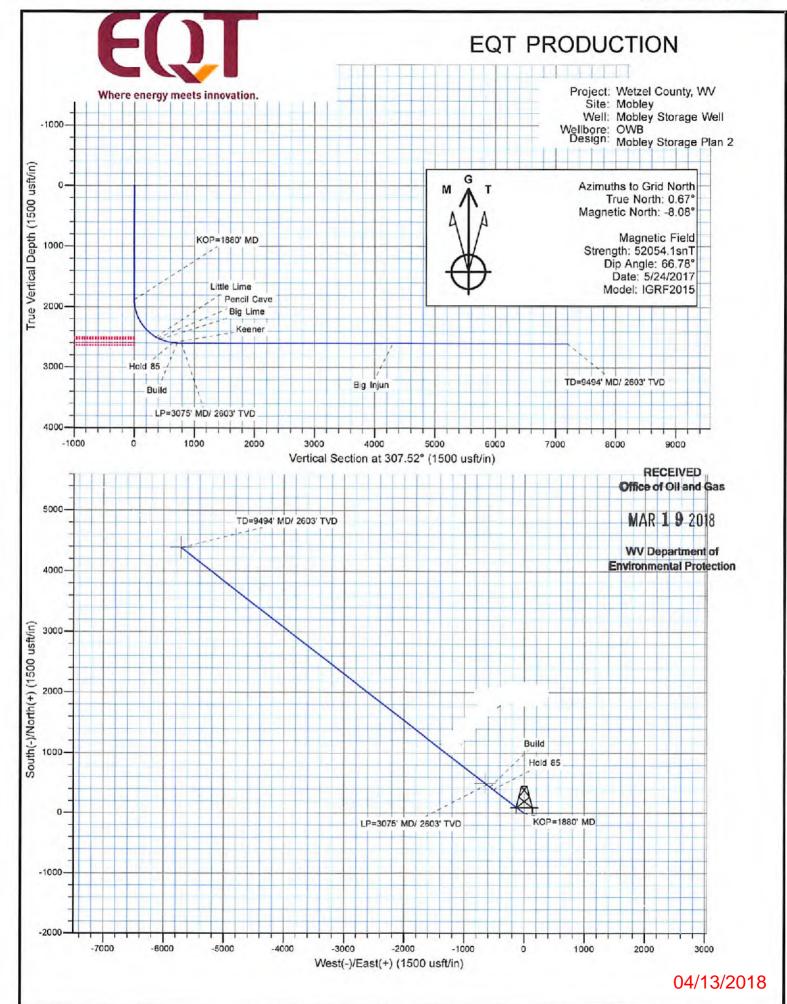
 Air is used to drill the top-hole sections of the well bore (surface, intermediate, and pilot). Water based mud may be necessary depending on hole conditions to stabilize and drill the intermediate section. The pilot hole, curve, and lateral sections will be drilled with either air, water based mud, or oil based mud.

Additives to be used in drilling medium?

 Air - biodegradable oil lubricant, detergent, defoaming, water. Water based mud - Ba rite, viscosifer, alkalinity control, lime, filtration control, deflocculates, biodegradable oil lubricant, defoaming, walnut shell, salt, x-cide, carbonates. Oil based mud - synthetic base oil, emulsifier, salt, lime, viscosifer, alkalinity control, filtration control, deflocculates, biodegradable oil lubricant, defoaming, carbonates.

> DMU 2-23-18

> > Office of Oil and Gas
> >
> > MAR 2 2018
> >
> > WV Department of Environmental Protection





### **EQT PRODUCTION**

Wetzel County, WV Mobley Mobley Storage Well

**OWB** 

Plan: Mobley Storage Plan 4

# Standard Planning Report (Directional)

01 November, 2017



Planning Report

Database: EQT PRODUCTION Wetzel County, WV Mobley Company: Project: Site:

Well: Wellbore: Design:

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:

Well Mobley Storage Well KB@1 @ 1553.0usft KB@1 @ 1553.0usft Grid

Map System: US State Plane 1927 (Exact solution) NAD 1927 (NADCON CONUS) Geo Datum: Map Zone:

West Virginia North 4701

Mean Sea Level

Site

Site Position: Northing: 393,633,55 usft 39° 34' 33,654 N Latitude: From: Lat/Long Easting: 1,704,347.16 usft Longitude: 80° 32' 56.000 W 0.0 usft Position Uncertainty: Slot Radius: 13-3/16" **Grid Convergence:** -0.67

System Datum:

Well Northing: **Well Position** +N/-S -605.9 usft 393,027.61 usft 39° 34' 27,660 N Latitude: +E/-W -43.1 usft 1,704,304.06 usft Easting: Longitude: 80° 32' 56,461 W **Position Uncertainty** 0.0 usft Wellhead Elevation: 1,540.0 usft 0.0 usft Ground Level:

Weilbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	5/24/2017	-8.75	66.77	52,053

Design	Mobiley Storage Plan 4				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	306,73	

m 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
0.0	0.00	0.00	0,0	0.0	0.0	0.00	0.00	0.00	0.00	
1,880.1	0.00	0.00	1,880.1	0.0	0.0	0.00	0.00	0.00	0.00	
2,936.3	84.50	305.73	2,593.0	387.3	-519.0	8.00	8.00	0.00	306.73	
3,006.3	84.50	306.73	2,599.7	428.9	-574.8	0.00	0.00	0.00	0.00	
3,075.1	90.00	305.73	2,603.0	470.0	-629,8	8.00	8.00	0.00	0.01	
9,441.1	90.00	306,73	2,603,0	4,277.3	-5,731.9	0.00	0.00	0.00	0.00	MOBLEY Plat TD



Planning Report

Database: Company: Project: Site:

Well:

PEPCDBSW01DB EQT PRODUCTION Wetzel County, WV Mobiley

Wellbore: Design:

4,300.0

4,400.0

4,500.0

4,600.0

90.00

90.00

90.00

90.00

306.73

306.73

306.73

306.73

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Mobley Storage Well KB@1 @ 1553.0usft KB@1 @ 1553.0usft Grid Minimum Curvature

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)
0.0	0.00	0.00	0,0	-1,553.0	0.0	0.0	0.0	0.00
100.0	0.00	0.00	100.0	-1,453.0	0.0	0.0	0,0	0.00
200.0	0.00	0.00	200.0	-1,353.0	0.0	0.0	0.0	0.00
300.0	0.00	0.00	300.0	-1,253.0	0.0	0.0	0.0	0.00
400.0	0.00	0.00	400.0	-1,153.0	0.0	0.0	0.0	0.00
500.0	0.00	0.00	500.0	-1,053,0	0.0	0.0	0.0	0.00
600.0	0.00	0.00	600,0	-953.0	0.0	0.0	0.0	0.00
700.0	0.00	0.00	700.0	-853.0	0.0	0.0	0.0	0.00
800.0	0.00	0.00	0.008	-753.0	0.0	0.0	0.0	0.00
900.0	0.00	0.00	900.0	-653.0	0.0	0.0	0.0	0.00
1,000.0	0.00	0.00	1,000.0	-553.0	0.0	0.0	0.0	0.00
1,100.0	0.00	0.00	1,100.0	-453.0	0.0	0.0	0.0	0.00
1,200.0	0.00	0.00	1,200.0	-353.0	0.0	0.0	0.0	0.00
1,300.0	0.00	0.00	1,300.0	-253.0	0.0	0.0	0.0	0.00
1,400.0	0.00	0.00	1,400.0	-153.0	0.0	0.0	0.0	0.00
1,500.0	0.00	0.00	1,500.0	-53,0	0,0	0,0	0.0	0.00
1,600.0	0.00	0.00	1,600.0	47.0	0.0	0.0	0.0	0.00
1,700.0	0.00	0.00	1,700.0	147.0	0.0	0.0	0.0	0.00
1,800.0	0.00	0.00	1,800.0	247.0	0.0	0.0	0.0	0.00
1,880,1	0.00	0.00	1,880.1	327.1	0.0	0.0	0.0	0.00
1,900.0	1.59	306.73	1,900.0	347.0	0.2	-0.2	0.3	8.00
2,000.0	9.59	306.73	1,999.4	446.4	6.0	-8.0	10.0	8.00
2,100.0	17.59	306.73	2,096,6	543.6	20.0	-26.8	33.5	8.00
2,200.0	25.59	306.73	2,189.5	636.5	42.0	-56.3	70.3	8.00
2,300.0	33.59	306.73	2,276.4	723.4	71.5	-95.9	119.6	8.00
2,400.0	41.59	306.73	2,355.5	802.5	108.0	-144.7	180.6	8.00
2,500.0	49.59	306.73	2,425.4	872.4	150.7	-201.9	251.9	8.00
2,600.0	57.59	306.73	2,484.8	931.8	198.8	-265.4	332.4	8.00
2,700.0	65,59	306.73	2,532,3	979.3	251.3	-336.8	420.2	8.00
2,800.0	73.59	306.73	2,567.1	1,014.1	307.3	-411.9	513,9	8.00
2,900.0	81.59	306.73	2,588.6	1,035.6	365.7	-490.1	611.5	8.00
2,936.3	84.50	306.73	2,593.0	1,040.0	387.3	-519.0	647.6	8.00
3,000.0	84.50	306.73	2.599.1	1.046.1	425.2	-569.8	710.9	0.00
3,006.3	84.50	306.73	2,599.7	1,046.7	428.9	-574.8	717.2	0.00
3,075.1	90.00	306.73	2,603.0	1,050.0	470.0	-629.8	785.9	8.00
3,100.0	90.00	306.73	2,603.0	1,050.0	484.9	-649.8	810.8	0.00
3,200.0	90.00	306.73	2,603.0	1,050.0	544.7	-729.9	910.8	0.00
3,300.0	90.00	306.73	2,603.0	1,050.0	604.5	-810.1	1,010.8	0.00
3,400.0	90.00	306.73	2,603.0	1,050.0	664.3	-890.2	1,110,8	0.00
3,500.0	90.00	306.73	2,603.0	1,050.0	724.1	-970.4	1,210.8	0.00
3,600.0	90.00	306.73	2,603.0	1,050.0	783.9	-1,050.5	1,310.8	0.00
3,700.0	90.00	306.73	2,603.0	1,050.0	843.7	-1,130.7	1,410.8	0.00
3,800.0	90,00	306.73	2,603,0	1,050.0	903.5	-1,210,8	1,510.8	0.00
3,900.0	90.00	306.73	2,603.0	1,050.0	963.3	-1,291.0	1,610.8	0.00
4,000,0	90.00	306.73	2,603.0	1,050.0	1,023.1	-1,371.1	1,710.8	0.00
4,100.0	90.00	306.73	2,603.0	1,050.0	1,082.9	-1,451.3	1,810.8	0.00
4,200.0	90.00	306.73	2,603.0	1,050.0	1,142.8	-1,531.4	1,910.8	0.00
.,			-11-	-1				

1,050.0

1,050.0

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1,050.0

1,202.6

1,262.4

1,322.2

1,382.0

-1,611.5

-1,691.7

-1,771.8

-1,852.0

2,010.8

2,110.8

2,210.8

2,310.8

2,603,0

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Planning Report

Database: Company: Project: Site: PEPCDBSW01DB EQT PRODUCTION Wetzel County, WV Mobiley Mobiley Storage Well OWB

Well: Wellbore:

Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference:

Survey Calculation Method:

Well Mobley Storage Well KB@1 @ 1553.0usft KB@1 @ 1553.0usft Gnd Minimum Curvature

Measured Depth (usft)	Inclination (°)	Azimuth	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)
4,700.0	90.00	306.73	2,603.0	1,050.0	1,441.8	-1,932.1	2,410.8	0.00
4,800.0	90.00				10 March 20			
		306.73	2,603.0	1,050.0	1,501.6	-2,012.3	2,510.8	0.00
4,900.0	90.00	306,73	2,603.0	1,050,0	1,561.4	-2,092.4	2,610.8	0.00
5,000,0	90.00	306.73	2,603.0	1,050.0	1,621.2	-2,172.6	2,710.8	0.00
5,100.0	90.00	306.73	2,603.0	1,050.0	1,681.0	-2,252.7	2,810.8	0.00
5,200.0	90.00	306.73	2,603.0	1,050.0	1,740.8	-2,332.8	2,910.8	0.00
5,300,0	90.00	306.73	2,603,0	1,050,0	1,800.6	-2,413.0	3,010.8	0.00
5,400.0	90.00	306.73	2,603.0	1,050.0	1,860.4	-2,493.1	3,110.8	0.00
5,500.0	90.00	306.73	2,603.0	1,050.0	1,920.2	-2,573.3	3,210.8	0.00
5,600.0	90.00	306,73	2,603.0	1,050.0	1,980.0	-2,653.4	3,310.8	0.00
5,700.0	90.00	306.73	2,603.0	1,050.0	2,039.8	-2,733.6	3,410.8	0.00
5,800.0	90.00	306.73	2,603.0	1,050.0	2,099.7	-2,813.7	3,510.8	0.00
5,900.0	90.00	306.73	2,603.0	1,050.0	2,159.5	-2,893.9	3,610.8	0.00
6,000.0	90.00	306.73	2,603.0	1,050.0	2,219.3	-2,974.0	3,710.8	0.00
6,100.0	90.00	306.73	2.603.0	1,050.0	2,279.1	-3,054.1	3,810.8	0.00
6,200.0	90.00	306.73	2,603,0	1,050.0	2,338.9	-3,134.3	3,910.8	0.00
6,300.0	90.00	306.73	2,603.0	1,050.0	2,398.7	-3,214.4	4,010.8	0.00
6,400.0	90.00	306.73	2,603.0	1,050.0	2,458.5	-3,294.6	4,110.8	0.00
6,500.0	90.00	306.73	2,603.0	1,050.0	2,518.3	-3,374.7	4,210.8	0.00
6,600.0	90.00	306.73	2,603.0	1,050.0	2,578.1	-3,454.9		0.00
6,700.0	90,00	306.73	2,603.0	1,050.0	2,637.9		4,310.8	0.00
						-3,535.0	4,410.8	
6,800.0	90.00	306.73	2,603.0	1,050.0	2,697.7	-3,615.2	4,510.8	0.00
6,900.0	90.00	306.73	2,603.0	1,050.0	2,757.5	-3,695.3	4,610.8	0.00
7,000.0	90.00	306.73	2,603.0	1,050.0	2,817.3	-3,775.5	4,710.8	0.00
7,100.0	90.00	306.73	2,603.0	1,050.0	2,877.1	-3,855.6	4,810.8	0.00
7,200.0	90.00	306.73	2,603.0	1,050.0	2,936.9	-3,935.7	4,910.8	0.00
7,300.0	90.00	306.73	2,603.0	1,050.0	2,996.8	-4,015.9	5,010.8	0.00
7,400.0	90.00	306.73	2,603.0	1,050.0	3,056.6	-4,096.0	5,110.8	0.00
7,500.0	90.00	306.73	2,603.0	1,050.0	3,116.4	-4,176.2	5,210.8	0.00
7,600.0	90.00	306.73	2,603.0	1,050.0	3,176.2	-4,256.3	5,310.8	0.00
7,700.0	90.00	306.73	2,603.0	1,050.0	3,236.0	-4,336.5	5,410.8	0.00
7,800.0	90,00	306.73	2,603.0	1,050.0	3,295,8	-4,416.6	5,510.8	0.00
7,900.0	90.00	306.73	2,603.0	1,050.0	3,355.6	-4,496.8	5,610,8	0.00
0,000,8	90.00	306.73	2,603.0	1,050.0	3,415.4	-4,576.9	5,710.8	0.00
8,100,0	90.00	306,73	2,603.0	1,050.0	3,475.2	-4,657.0	5,810.8	0.00
8,200.0	90.00	306.73	2,603.0	1,050.0	3,535.0	-4,737.2	5,910.8	0.00
8,300.0	90.00	306,73	2,603.0	1,050.0	3,594.8	-4,817.3	6,010.8	0.00
8,400.0	90.00	306.73	2,603.0	1,050.0	3,654.6	-4,897.5	6,110.8	0.00
8,500,0	90.00	306.73	2,603.0	1,050.0	3,714.4	-4,977.6	6,210.8	0.00
8,600.0	90.00	306.73	2,603.0	1,050.0	3,774.2	-5,057.8		0.00
8,700.0	90.00	306.73	2,603.0	1,050.0	3,834.0	-5,137.9	6,310.8 6,410.8	0.00
8,800.0	90.00	306.73	2,603.0	1,050.0	3,893.8	-5,137.9		0.00
8,900.0	90.00	306.73					6,510.8	
9,000,0	90.00	306.73	2,603.0 2,603.0	1,050.0 1,050.0	3,953,7 4,013.5	-5,298.2 -5,378.3	6,610.8 6,710.8	0.00
9,100.0	90.00	306.73	2,603.0	1,050.0	4,073.3	-5,458.5	6,810.8	0.00
9,200.0	90.00	306.73	2,603.0	1,050.0	4,133.1	-5,538.6	6,910.8	0.00
9,300.0	90.00	306.73	2,603.0	1,050.0	4,192.9	-5,618.8	7,010.8	0.00
9,400.0	90.00	306.73	2,603.0	1,050.0	4,252.7	-5,698.9	7,110.8	0.00
9,441.1	90.00	306.73	2,603.0	1,050.0	4,277.3	-5,731.9	7,151.9	0.00



Planning Report

Database: PEPCDBSW01DB
Company: EQT PRODUCTION
Project: Wetzel County, WV
Site: Mobley
Well: Mobley Storage Well
Wellbore: OWB
Design: Mobley Storage Plan 4

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Mobley Storage Well KB@1 @ 1553.0usft KB@1 @ 1553.0usft Grid

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir.	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
MOBLEY Plat LP2 - plan misses target o - Point	0.00 enter by 91.5	360.00 jusft at 3909.	2,603.0 .7usft MD (2	1,042.4 603.0 TVD, 96	-1,244.0 9.1 N, -1298.	394,070.05 7 E)	1,703,060.06	39° 34′ 37.819 N	80° 33' 12.503 W
MOBLEY Plat TD2 - plan hits target cent - Point	0.00 er	360.00	2,603.0	4,277.3	-5,731.9	397,304.87	1,698,572.20	39° 35′ 9.265 N	80° 34' 10.308 W
Mobley LP 786 VS - plan hits target cent - Point	0.00 er	0.00	2,603.0	470.0	-629.8	393,497.60	1,703,674.21	39° 34′ 32.233 N	80° 33' 4.574 W

Measured	Vertical				Dip
Depth (usft)	Depth (usft)	Name	Litholog	Dip gy (°)	Direction (°)
2,633.4	2,502.0	Little Lime			
2,667.1	2,518.0	Pencil Cave			
2,714.1	2,538.0	Big Lime			
2,936.3	2,593.0	Keener			

Annotations Meası	ıred	Vertical	Local Coor	dinates	
Dep (usf	th	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
1,3	880.1	1,880.1	0.0	0.0	KOP=1880' MD
2,	936.3	2,593.0	387.3	-519.0	Hold 85
3,0	006.3	2,599.7	428.9	-574.8	Build
3,0	075.1	2,603.0	470.0	-629.8	LP=3075' MD/ 2603' TVD
9,	441.0	2,603.0	4,277.2	-5,731.8	TD=9441' MD/ 2603' TVD

### Mobley Storage Plan 4

EQT PRODUCTION Wetzel County, wv Mobley Mobley Storage Well OWB Mobley Storage Plan 4

KB@1

Elevation+KB=: 1553.00 Surface N: 393027.61 Surface E: 1704304.06 US State Plane 1927 (Exact solution)

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WV Department of **Environmental Protection** 

												Pitanouncing	
Measured			Sub-Sea	Vertical	Local	Coordinat	es UTM C	Coordinates	Vertical	Dogleg	1		
Depth	Incl.	Azim.	Depth	Depth	+N/S-	+E/W-	Northings	Eastings	Section	Rate	•		
(ˈft)			(ˈft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°/100f	ft)		
0.00	0.000	0.000	-1553.00	0.00	0.00	0.00		1704304.059 E	0.00	0.00			
1880.10	0.000	0.000	327.10	1880.10	0.00	0.00	393027.610 N	1704304.059 E	0.00	0.00	KOP=1880' I	MD - MWD+IGR	RF (1)
1900.00	1.592	306.730	347.00	1900.00	0.17	-0.22	393027.776 N		0.28	8.00			
1950.00	5.592	306.730	396.89	1949.89	2.04	-2.73	393029.649 N	1704301.327 E	3.41	8.00			
2000.00	9.592	306.730	446.44	1999.44	5.99	-8.02	393033.599 N	1704296.034 E	10.01	8.00			
2050.00	13.592	306.730	495.41	2048.41	12.00	-16.08	393039.606 N		20.06	8.00			
2100.00	17.592	306.730	543.56	2096.56	20.03	-26.84	393047.642 N		33.49	8.00			
2150.00	21.592	306.730	590.66	2143.66	30.06	-40.28	393057.666 N	1704263.780 E	50.26	8.00			
2200.00	25.592	306.730	636.47	2189.47	42.02	-56.31	393069.631 N	1704247.745 E	70.26	8.00			
2250.00	29.592	306.730	680.77	2233.77	55.87	-74.87	393083.479 N	1704229.188 E	93.42	8.00			
2300.00	33.592	306.730	723.35	2276.35	71.53	-95.86	393099.140 N	1704208.199 E	119.61	8.00			
2350.00	37.592	306.730	764.01	2317.01	88.93	-119.18	393116.540 N		148.70	8.00			
2400.00	41.592	306.730	802.53	2355.53	107.98	-144.71	393135.593 N		180.56	8.00			
2450.00	45.592	306.730	838.73	2391.73	128.60		393156.207 N	1704131.721 E	215.03	8.00			
2500.00	49.592	306.730	872.45	2425.45	150.67	-201.92	393178.281 N	1704102.139 E	251.94	8.00			
2550.00	53.592	306.730	903.50	2456.50	174.10	-233.32	393201.708 N		291.11	8.00			
2600.00	57.592	306.730	931.75	2484.75	198.76		393226.374 N	1704037.689 E	332.36	8.00	. • • •		
2633.42	60.266	306.730	949.00	2502.00	215.88		393243.493 N	1704014.747 E	360.98	8.00	Little Lim	e	
2650.00	61.592	306.730	957.05	2510.05	224.55		393252.157 N		375.47	8.00			
2667.08	62.958	306.730	965.00	2518.00	233.59		393261.199 N	1703991.018 E	390.59	8.00	Pencil Cav	e	
2700.00	65.592	306.730	979.29	2532.29	251.32		393278.934 N	1703967.251 E	420.24	8.00	_ •		
2714.13	66.723	306.730	985.00	2538.00	259.05		393286.664 N	1703956.892 E	433.17	8.00	Big Lime		
2750.00	69.592	306.730	998.34	2551.34	278.96	-373.85	393306.573 N	1703930.211 E	466.46	8.00			
2800.00	73.592	306.730	1014.13	2567.13	307.33		393334.939 N	1703892.196 E	513.89	8.00			
2850.00	77.592	306.730	1026.57	2579.57	336.28	-450.67	393363.895 N	1703853.391 E	562.31	8.00			

2900.00 2936.35 3006.35 3025.41 3050.00 3100.00 3200.00 3400.00 3400.00 3435.50 3500.00 3600.00 3700.00 4200.00 4200.00 4200.00 4200.00 4200.00 4200.00 4200.00 4200.00 4200.00 4200.00 5000.00 5000.00 5100.00 5200.00 5300.00 5400.00 5500.00 5600.00 5700.00 5800.00 5900.00 5900.00 6000.00 6000.00	81.592 306.730 84.500 306.730 86.024 306.731 90.000 306.731	1035.60 1040.00 1046.71 1048.28 1049.57 1050.01 1050.01 1050.01 1050.01 1050.01 1050.01 1050.01 1050.01 1050.01 1050.01 1050.01 1050.01 1050.01 1050.01 1050.01 1050.01 1050.00 1050.00 1050.00 1050.00 1050.00 1050.00 1050.00 1050.00 1050.00 1050.00	2588.60 2593.00 2599.71 2601.28 2602.57 2603.01	365.69 -490.07 387.27 -518.99 428.94 -574.83 440.29 -590.05 454.98 -609.74 469.99 -629.85 484.88 -649.80 544.69 -729.95 604.49 -810.09 664.30 -890.24 685.53 -918.69 724.11 -970.38 783.91 -1050.53 843.72 -1130.67 903.53 -1210.82 963.33 -1290.96 969.12 -1298.72 1023.14 -1371.11 1082.95 -1451.25 1142.75 -1531.40 1195.43 -1601.99 1202.56 -1611.54 1262.36 -1691.69 1322.17 -1771.83 1381.98 -1851.98 1441.78 -1932.12 1501.59 -2012.27 1561.40 -2092.41 1621.20 -2172.56 1681.01 -2252.70 1740.82 -2332.85 1800.62 -2412.99 1860.43 -2493.14 1920.24 -2573.28 1980.04 -2653.43 2039.85 -2733.57 2099.65 -2813.72 2159.46 -2893.86 2219.27 -2974.00 2279.07 -3054.15	394996.728 N 394050.749 N 394110.556 N 394170.362 N 394223.041 N 394289.975 N 394349.781 N 394469.394 N 394529.201 N 394529.201 N 394588.039 N 394768.426 N 394768.426 N 394828.233 N 394888.039 N 394888.039 N 394847.845 N 395007.652 N 395127.265 N 395127.265 N 395127.265 N 395127.265 N	1703813.985 E 1703785.070 E 1703729.226 E 1703714.005 E 1703694.322 E 1703674.210 E 1703654.254 E 1703493.964 E 1703493.964 E 1703493.3675 E 1703385.370 E 1703253.530 E 1703173.385 E 1703093.240 E 1703093.240 E 1703093.240 E 1703093.240 E 1703093.240 E 1703072.661 E 170272.661 E 170273.371 E 170293.371 E 1702532.227 E 1702452.082 E 170251.358 E 1701971.213 E 1701891.068 E 1701971.213 E 1701891.068 E 170180.923 E 1701730.778 E 1701650.634 E 1701490.344 E 1701410.199 E 1701330.054 E 1701330.054 E	611.47 647.55 717.23 736.22 760.78 785.88 810.77 1010.77 1110.77 1110.77 1210.77 1310.77 1410.77 1610.77 1610.77 1910.77 1910.77 2210.77 2210.77 2210.77 2210.77 2310.77 2410.77 2510.77 2510.77 2510.77 2610.77 2710.77 2710.77 2710.77 2710.77 2710.77 2710.77 2710.77 2710.77 2710.77 2710.77 2710.77 2710.77 2710.77 2710.77 2710.77 2710.77 2710.77	8.00 8.00 0.00 8.00 8.00 0.00 0.00 0.00	Hold 85 - Keener Build Mobley LP 786 VS LP=3075' MD/ 2603' TVD  Mobley LP 819 VS  MOBLEY Plat LP2  MOBLEY Plat LP  RECEIVED Office of OH and Gas MAR 0 7 2018  WV Department of Environmental Protection
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Page 2

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Mobley Storage Plan 4

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395725.329 N 1700688.896 E
395785.135 N 1700608.751 E
395844.942 N 1700528.606 E
395904.748 N 1700448.461 E
395964.555 N 1700368.316 E
396024.361 N 1700288.172 E
396084.167 N 1700208.027 E
396143.974 N 1700127.882 E
396203.780 N 1700047.737 E
396263.587 N 1699967.592 E
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396383.200 N 1699807.303 E
396443.006 N 1699727.158 E
396502.812 N 1699647.013 E
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3056.56 -4096.03

3116.36 -4176.18

3176.17 -4256.32

3235.98 -4336.47

3295.78 -4416.61

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TD=9441' MD/ 2603' TVD
MOBLEY Plat TD - MOBLEY Plat TD2

All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North. Vertical depths are relative to KB@1. Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 100 feet. Vertical Section is from Slot and calculated along an Azimuth of 306.731° (Grid).

Coordinate System is NAD 1927 (NADCON CONUS) US State Plane 1927 (Exact solution), West Virginia North 4701. Grid Convergence at Surface is -0.669°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 9441.09ft., the Bottom Hole Displacement is 7151.86ft., in the Direction of 306.731° (Grid).

RECEIVED
Office of Oil and Gas

MAR 0 7 2018

WV Department of Environmental Protection WW-2A (Rev. 6-14)

1). Date:	2/8 /2018		
2.) Operator's	Well Number	519603	
	State	County	Permit
3.) API Well N	lo.: 47-	-	

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

4) Surface O	wner(s) to be served:	5) (a) Coal Op	erator	
(a) Name	John Wycoff	Name	None	
Address	c/o Carolyn McGill	Address		
	105 Valley View Ln	_		
(b) Name	Fairmont, WV 26554	(b) Coal C	Owner(s) with De	claration
Address	Tullinorit, VV 2000-	Name	See attached	
riddi 656	( <del></del>	Address	occ attached	a silect
	-	_ Address	1	
(c) Name		Name	-	
Address		Address		
				Office of SECEIVE
6) Inspector	Derek Haught	(c) Coal L	essee with Decla	aration Ground
Address	P.O. Box 85	Name	None	MAR 2 2
	Smithville, WV 26178	Address	110110	4 20
Telephone			-	Environmental En
rolophono	TO THE PERSONS NAI	MED ABOVE T	AKE NOTICE T	HAT:
Included is	the lease or leases or other continuing			
OR Included is	the lease of leases of other continuing	CONTRACT OF CONTR	acts by which i he	nd the right to extract on and gas
	the information required by Chapter 22	Article 6 Section	on 8(d) of the Code	e of West Virginia (see page 2)
	that as required under Chapter 22-6			
	ocation plat, and accompanying docume			
application, a le	Personal Service (Affidavit attac			sava mamaa paraas ay.
- 3	X Certified Mail (Postmarked post		ed)	
-	Publication (Notice of Publication		/	
I have i	read and understand Chapter 22-6 and		I agree to the te	erms and conditions of any permit
issued under th				
	under penalty of law that I have pers	onally examined	and am familiar	with the information submitted on
	form and all attachments, and that ba			
	formation, I believe that the information			
I am av	ware that there are significant penalties	for submitting fa	alse information, in	ncluding the possibility of fine and
imprisonment.	,			
0	/ Well Operator	Equitrans, L.		Contact:
Samuel	Amailian By:	Samuel K. S		Brian Hall 📗
Au		Attorney-in-F		Sr Storage Specialist
1110	Address:	303 Sand Cu		Same address
		Clarksburg, \		
		(304) 626-79		(304) 626-6419
	Email:	SSmallwood	@egt.com	BRHall@eat.com
Subscribed and	d sworn before me this Stheet day of	Febru	MAY.	2018
1 Jack	DIMINE STATE		Notary F	Public
My Commission	n Expires March 14 70	22	Notary r	OFFICIAL SEAL
Oil and Gas Privac			A COLUMN	Notary Public, State Of West Virginia
	The control of			RACHEL WYCKOFF
The Office of Oil a	nd Gas processes your personal information,	such as name, add	ress and phone num	ber, as a part of our regulatory duties.

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer a 04/13/2018 depprivacyofficer@wv.gov

Operator's Well No.	519603

ATTACHMENT WW-2A-4) Additional Surface Owner(s) (Access Road-See Mobley Storage Well Final Site Design, Construction Plans, & Erosion & Sediment Control Plans for Parcel ID)

### Surface Owners:

Parcel ID 04-14-10, 17, 18, 22

John Wycoff

579 Morgan Ridge Rd

Fairmont, WV 26554-5586

\*See attached Surface Waiver, Personal Service Affidavit

Parcel ID 04-14-26, 32 J

Mary J. Byard 2917 S 7<sup>th</sup> St.

Missoula, MT 59801

Parcel ID 04-20-1

Coastal Forest Resources Company

ATTN: Edward G. Kraynok, Vice President

PO Box 709

Buckhannon, WV 26201

Parcel ID 04-14-33

Atlee H. Conaway, Jr. Trust

ATTN: Barbara Conaway, Trustee

800 Southerly Rd., Apt 904

Baltimore, MD 21286-8409

Office of Oil and Gas

MAR 2 2018

Environmental Protection

<sup>\*</sup>The following Parcel IDs 04-14-23, 24, 25, 29 in Wetzel County, West Virginia are currently owned by an EQT entity.

Operator's Well No.	519603	

ATTACHMENT WW-2A-5)(a) Coal Operator, (b) Coal Owner(s) with Declaration, (c) Coal Lessee with Declaration

### Coal Owners:

Benedum-Trees Oil Company Kerr-McGee Oil & Gas Onshore LP Anandarko Petroleum Corp ATTN: Dave Ward PO Box 1330 Houston, TX 77251-1330

CNX RCPC, LLC
DuPont Energy Coal Holdings, Inc
CNX Land Resources-Property
ATTN: Casey Saunders (CNX Center)
Engineering and Operations Support Dept Coal

1000 Consol Energy Dr

Canonsburg, PA 15317-6506

CCC Land Resources LLC
Murray Energy Corp
Murray American Energy, Inc WV & OH
ATTN: Alex O'Neill
46226 National Rd
St. Clairsville, OH 43950

Office of Oil and Gas

MAR 2 2018

WW Decariment of Environmental Protection

WW-70 Rev. 7/01

### Affidavit of Personal Service

County of Harrison
County of Harrison
The undersigned, being first duly sworn, says that the undersigned served a true and complete copy of all sides of
(1) Notice on Form WW-2(A) / WW-3(A) / WW-4(A) / WW-5(A) / WW-6(A) (2) Application on Form WW-2(B) / WW-3(B) / WW-4(B) / WW-5(B) / WW-6(B) (3) Plat showing the Well location on Form WW-6, and (4) Construction and Reclamation Plan on Form WW-9
all with respect to operator's Well No. 519603 located in Grant District,County, West Virginia, upon the person or organization named Equitors LP
on the John day of February , 20/8 in the manner specified below.
[COMPLETE THE APPROPRIATE SECTION]
For an individual:
[ Handing it to him / her / or, because he / she / refused to take it when offered it, by leaving it in his / her / presence.
[ ] Handing it to a member of his or her family above the age of 16 years named who resides at the usual place of abode of the person to be served, and asking the family member to give it to the person to be served as soon as possible.
For a partnership:  [ ] Handing it to, a partner of the partnership or, because the partner refused to take it when I handed it over, by leaving it in the presence of the partner.
For a limited partnership:  [ ] Handing it to the general partner, named, or, because the general partner refused to take it when I tried to hand it over, by leaving it in the presence of the general partner.
For a corporation:  [ ] Handing it to the corporation's employee/ officer/ director/ attorney in fact / named
1 DOR WYCHER
(Signature of person executing service) Office of Oil and Gas
My commission expires April 9 Zozz
Notary Public Environmental Protection
(AFFIX SEAL IF NOTARIZED OUTSIDE THE STATE)
OFFICIAL SEAL STATE OF WEST VIRIGINIA NOTARY PUBLIC JEFFERY L WRIGHT EQT Midstrem PO Box 1550, Clarkaburg, WV 26301-1550 My commission expires April 9, 2022
My commission expires April 9, 2022

(4/16)		SURFACE	OWNER WAIVE	₹	
County	Wetzel		perator perator well nu	Equitrans, 519603	L.P.
	INSTRUCTION	S TO SURFACE	OWNERS NAME	ED ON PAGE WW2-A	
If the surface appeared on the bethe only owner valid for 2- immediately if	WHERE TO FILE	an three persons e land or becaus re these materials n any interest in the blease notify the N J ARE NOT REC	, then these mate e you actually occ s.) See Chapter 2 he surface tract, p well operator and QUIRED TO FILE	erials were served on you cupy the surface tract. I 2 of the West Virginia Co blease forward these mat	ou because your name in either case, you may ode. Well work permits cerials to the true owner is.
	of Oil and Gas f Environmental Protection				
601 57th St. S	E				
Charleston, W (304) 926-045					
be filed in per be sure of the If you have be work describe Commo operator's nar the application The C 1) T 2) T 3) D	his Application. You have son or received in the mail date. Check with your posten contacted by the well open in these materials, then the ments must be in writing. The and well number and the you may add other docuthief has the power to deny the proposed well work will the soil erosion and sedime that amage would occur to publishe proposed well work fails	by the Chief's of the the construction of the permit may be Your comments approximate local ments, such as a cor condition a we constitute a hazant control plan is icly owned lands	fice by the time seadequate deliver ave signed a "volute issued at any time must include your cation of the propeketches, maps or all work permit bard to the safety of not adequate or erources;	stated above. You may only time or to arrange special untary statement of no other. In ame, address and teles osed well site including or photographs to support used on comments on the figersons.	call the Chief's office to cial expedited handling. ojection" to the planned phone number, the well district and county from your comments.
5) T of If you a copy from List of	he applicant has committed f the rules promulgated und want a copy of the permi	a substantial viol ler Chapter 22, at t as it is issued on ties. The Office	ation of a previou nd has failed to a or a copy of the c maintains a list o	s permit or a substantial bate or seek review of the order denying the permon of water testing laborator	violation of one or more e violation of one entry it, you should request ries which you can hire
I here Application fo order on Forn described the I furth	VOL by state that I have read the ra Well Work Permit on Fo www2-B, a survey plat, W	UNTARY STATE the instructions to form WW2-A, and W-9, and a soil are ection to the plann	MENT OF NO O surface owners a attachments con nd erosion plan, a	BJECTION and that I have received sisting of pages 1 throug all for proposed well work	copies of a Notice and th including a work on my surface land as
FOR EXECU	TION BY A NATURAL PER	SON	FO	R EXECUTION BY A CO	DRPORATION, ETC.
2/10	1 11		Company	/	
formil	VyCuff	Date 3-/	~ /8 Name	N/A	
	Signature		By Its	N/A	Date
John Wyc	off	_		N/A	
	Print Name			Signature	Date

WW-2A Surface Waiver (4/16)

#### SURFACE OWNER WAIVER

MAR 1 2 2018

WV Department of Environmental Protection

County	Wetzel	Operator	Equitrans, L.P.	
		Operator well number	519603	

### INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A

The well operator named on page WW2A is applying for a permit from the State to do oil or gas well work. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

### NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT. WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304 (304) 926-0450

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have FIFTEEN (15) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

<u>Comments must be in writing.</u> Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

<u>List of Water Testing Laboratories.</u> The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

**VOLUNTARY STATEMENT OF NO OBJECTION** 

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application for a Well Work Permit on Form WW2-A, and attachments consisting of pages 1 through \_\_\_\_ including a work order on Form WW2-B, a survey plat, WW-9, and a soil and erosion plan, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

Mary Jave Brand	Date	Company Name	N/A	
Signature		Ву	N/A	
Mary Jane Byard	1	Its	N/A	Date
Print Name		HER	Signature	Date
,		<b>"Z</b>		04/13/2018

RECEIVED Office of Oil and Gas

WW-2A Surface Waiver (4/16)

MAR 2 9 2018

### SURFACE OWNER WAIVER

WV Department of Environmental Protection

County	Wetzel	Operator	Equitrans, L.P.	
		Operator well number	519603	

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FOR EXECUTION BY A NATURAL PERSON		FO	R EXECUTION BY A	CORPORATIO	N, ETC.
	Date	Company Name	Atlee H. Conawa	y, Jr. Trust	
Signature		By Its	Barbara Conawa		Date
			Trustee Burbare	Con Con	3/25/18
Print Name			Signature		Date

WW-2A1 (Rev. 1/11)

Operator's Well Number 519603

### INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the path 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:

Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

See Attached Sheet

### 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 he reby a cknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the Office of Oil and Gas 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 ac guired from the appropriate aut hority before the affected activity is initiated

Well Operator:

By:Its:

Equitrans, L.P.

Samuel K. Smallwood, Attorney-in-Fact

Environmental Protection

### **WW-2A1 ATTACHMENT**

Operator's Well No. 519603

706740				
7007 <del>7</del> 0	EQT Production Company Inc. (Current)		*	
<u> </u>	Benedum-Trees Oil Company	Carnegie Natural Gas Company		O&G 2A/180
	and Parker and Edwards Oil Company	Curregio radurar Gus Company		000 277 100
	Carnegie Natural Gas Company	Carnegie Production Company		O&G 78A/513
	Carnegie Production Company ETAL	USX Corporation		Unrecorded
	Carnegie Natural Gas Company	Equitable Resources, Inc.		Unrecorded
	Equitable Resources, Inc.	EQT Production Company		Various Mergers
	EQT Production Company	Equitrans, L.P.		201A/372
125423	AMP Fund III, LP, etal (Current)		\$300.00 Storage	
	C.E. Brown, etux, etal	Equitable Gas Company	_	O&G 45A/278
	Equitable Gas Company	Equitrans, Inc		O&G 71A/453
	Equitrans, Inc.	Equitrans, L.P.		DB 105/908
125421	H. Dorn Higginbotham etal (Current)		\$300.00 Storage	
	Elva R. King, etal	Willard E. Ferrell	voicino biorage	O&G 42A/411
	Willard E. Ferrell	Equitable Gas Company		O&G 44A/320
	Elva R. King, etal	Equitable Gas Company (storage	rights)	O&G 44A/316
	Equitable Gas Company	Equitrans, Inc	o rigino)	O&G 71A/453
	Equitrans, Inc.	Equitrans, L.P.		DB 105/908
125445	H. Dorn Higginbotham etal (Current)		\$300.00 Storage	
123443	Elva R. King, etal	Equitable Cos Company	\$500.00 Storage	O&G 45A/25
		Equitable Gas Company		
	Equitable Gas Company	Equitrans, Inc		O&G 71 A/453
	Equitrans, Inc.	Equitrans, L.P.		DB 105/908
106285	Fredric G. Ritcher, etal (Current)		\$300.00 Storage	
	John E. Snider and Mahala A. Snider	John Lavelle	3-	DB 76/239
	John LaValle	PH Glover		Unrecorded
	PH Glover	The Philadelphia Co of West Vi	rginia	Unrecorded
	The Philadelphia Co of West Virginia	Pittsburgh and West Virginia Ga	•	O&G 22A/352
	Pittsburgh and West Virginia Gas Co.	Equitable Gas Company		DB 187/374
	Equitable Gas Company	Equitrans, Inc.		O&G 71A/453
	Equitrans, Inc.	Equitrans, L.P.		DB 105/908

<sup>\*</sup>EQT Production Company Inc. is 100% oil and gas royalty holder and storage rights of Lease No. 706740.

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MAR 2 2018

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W	W-	·2B	1
(5	-1	2)	

Well No.	519603	

### West Virginia Department of Environmental Protection Office of Oil and Gas

### NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Labora	atory Name	See attached sheet	
Sampling Contractor		Allegheny Surveys, Inc.	
Well Operator	Equitrans, L.P.,	Samuel K. Smallwood, Attorney-in-Fact	RECEIVED Office of Oil and Gas
Address	303 Sand Cut F	₹d	MAR 2 2018
	Clarksburg, WV	26301	
Telephone	(304) 626-7999	; Email: SSmallwood@eqt.com	WW Department of Environmental Protection

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

<u>0</u> water supplies within 2,500' of the proposed well site.

ATTACHMENT WW-2B1

Operator's	Well No.	519603	
Operator 3	W CH ING.	217003	

## **EQUITRANS**

RE: Proposed Mobley Horizontal Storage Well, Wetzel County, West Virginia

### Potential Water Sample Data Sheet

Dw	ner		Mailing Add	ress				Lar	d informa	tion	
Name 1	In Care Of	Street	City	State	Zip	Zip+4	County	District	Map	Parcel	Sub
eremy T. Collins, et al		1030 Ohltown Road	Austintown	ОН	44515		Wetzel	Grant	13	27	1
Coastal Forest Resources Company		P.O. Box 709	Buckhannen	WV	26201	709	Wetzel	Grant	13	45	
Norman Derby		9985 Willey Fork Road	Burton	wv	26562		Wetzel	Grant	14	7	
Esther R. Coen		5477 North Fork Road	Pine Grove	WV	26419	8337	Wetzel	Grant	14	8	9
John W. Wycoff	Carolyn S. McGill	105 Valley View Lane	Fairmont	WV	26554	9390	Wetzel	Grant	14	10	
John W. Wycoff	Carolyn S. McGill	105 Valley View Lane	Fairmont	WV	26554	9390	Wetzel	Grant	14	15	
John W. Wycoff	Carolyn S. McGill	105 Valley View Lane	Fairmont	WV	26554	9390	Wetzel	Grant	14	17	
Jahn W. Wycoff	Carolyn S. McGill	105 Valley View Lane	Fairmont	wv	26554	9390	Wetzel	Grant	14	18	
John W. Wycoff	Carolyn S. McGill	105 Valley View Lanc	Fairmont	wv	26554	9390	Wetzel	Grant	14	22	

The above parcels are identified as being within 2500 foot radius of the proposed Mobley Horizontal Storage Well as depicted on the Exhibit A (attached hereto) and a notice of the same has been sent to each property owner as listed via certified mail. As to date, no known water source, i.e., water well or spring, is being utilized for human consumption, domestic animals, or other general use.

Office of Oil and Gas

MAR 2 2018

WV Department of Environmental Protection WW-9 (5/16)

API Number	47 -		4	
Operator's W	ell No.	519603		

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Equitrans, L.P.	OP Code 307652
Watershed (HUC 10) Wiley Fork	Quadrangle Big Run
Do you anticipate using more than 5,000 bbls of water to	complete the proposed well work? Yes No
Will a pit be used? Yes No _✓	
If so, please describe anticipated pit waste:	<u> </u>
Will a synthetic liner be used in the pit? Yes	No If so, what ml.?
Proposed Disposal Method For Treated Pit Was	etes:
Land Application (if selected)	provide a completed form WW-9-GPP)
Underground Injection ( UIC	Permit Number)
Reuse (at API Number	)
	m WW-9 for disposal location)
Other (Explain	
nun (t. 192 - t. 193 - t. 194 - p. 194 - t. 194	
	ased loop system will remove drill cuttings from the drilling fluid. The drill cuttings are then prepared for transportation to an off-site lackity.
Drilling medium anticipated for this well (vertical and ho	orizontal)? Air, freshwater, oil based, etc. See Attached
-If oil based, what type? Synthetic, petroleum, o	etc. Synthetic Mud 2-
Additives to be used in drilling medium? See Attached	
Drill cuttings disposal method? Leave in pit, landfill, ren	poved offsite etc. Landfill
-If left in pit and plan to solidify what medium v	vill be used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number? See Al	tlached List
West Virginia solid waste facility. The notice shall be pro	and Cas of any load of drill cuttings or associated waste rejecte Date of Oil ovided within 24 hours of rejection and the permittee shall also disclose MAR 9
provisions of the permit are enforceable by law. Violation or regulation can lead to enforcement action.  I certify under penalty of law that I have persupplication form and all attachments thereto and that, bas	s and conditions of the GENERAL WATER POLLUTION PERMIT issued est Virginia Department of Environmental Protection. I understand that the ns of any term or condition of the general permit and/or other applicable law sonally examined and am familiar with the information submitted on this sed on my inquiry of those individuals immediately responsible for obtaining
submitting false information, including the possibility of	
submitting false information, including the possibility of Company Official Signature	fine or imprisonment.
Company Official Signature Samuel K. Smallwood	fine or imprisonment.
submitting false information, including the possibility of Company Official Signature	fine or imprisonment.
Company Official Signature Samuel K. Smallwood	fine or imprisonment.
Company Official Signature Samuel K. Smallwood Company Official (Typed Name) Samuel K. Smallwood Company Official Title Attorney-in-Fact	fine or imprisonment.
Company Official Signature Samuel K. Smallwood Company Official (Typed Name) Samuel K. Smallwood Company Official Title Attorney-in-Fact	yof February . 2018
Company Official Signature Samuel K. Smallwood Company Official (Typed Name) Samuel K. Smallwood Company Official Title Attorney-in-Fact	fine or imprisonment.

Operator's Well No. 519603

Lima 3	ttment: Acres Disturbed 4 Tons/acre or to corre		
		сторп	
Fertilizer type Granu			
Fertilizer amount_		lbs/acre	
Mulch_2		Tons/acre	
		Seed Mixtures	
Te	emporary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	5	Alsike Clover	5
Annyal Rye	15		
Maps(s) of road, location, p provided). If water from the (L, W), and area in acres, of	pit will be land applied, pr fthe land application area.	d application (unless engineered plans include ovide water volume, include dimensions (L,	
	pit will be land applied, pr fthe land application area.	ovide water volume, include dimensions (L,	W, D) of the pit, and di
Maps(s) of road, location, p provided). If water from the (L, W), and area in acres, of Photocopied section of invo	pit will be land applied, pr fthe land application area.	ovide water volume, include dimensions (L,	W, D) of the pit, and di
Maps(s) of road, location, p provided). If water from the (L, W), and area in acres, of Photocopied section of invo	pit will be land applied, pr fthe land application area.	ovide water volume, include dimensions (L,	W, D) of the pit, and di
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Maps(s) of road, location, p provided). If water from the (L, W), and area in acres, of Photocopied section of invo	pit will be land applied, pr fthe land application area.	ovide water volume, include dimensions (L,	W, D) of the pit, and di
Maps(s) of road, location, p provided). If water from the (L, W), and area in acres, of Photocopied section of invo	pit will be land applied, pr fthe land application area.	ovide water volume, include dimensions (L,	W, D) of the pit, and di
Maps(s) of road, location, p provided). If water from the (L, W), and area in acres, of Photocopied section of invo	pit will be land applied, pr fthe land application area.	ovide water volume, include dimensions (L,	W, D) of the pit, and di

### ATTACHMENT WW-9

Operator's Well No. 519603

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.

Air is used to drill the top-hole sections of the well bore (surface, intermediate, and pilot). Water
based mud may be necessary depending on hole conditions to stabilize and drill the intermediate
section. The pilot hole, curve, and lateral sections will be drilled with either air, water based mud,
or oil based mud.

Additives to be used in drilling medium?

Air - biodegradable oil lubricant, detergent, defoaming, water. Water based mud - Ba rite, viscosifer, alkalinity control, lime, filtration control, deflocculates, biodegradable oil lubricant, defoaming, walnut shell, salt, x-cide, carbonates. Oil based mud - synthetic base oil, emulsifier, salt, lime, viscosifer, alkalinity control, filtration control, deflocculates, biodegradable oil lubricant, defoaming, carbonates.

DAN 2-23-18

Office of Oil and Gas
MAR 2 2018

WW Department of Environmental Protection

### ATTACHMENT WW-9

Operator's Well No. \_\_\_519603

### OFFSITE DISPOSALS/LANDFILL LOCATIONS

Waste Management-Meadowfill Landfill

Rt. 2, Box 86 Dawson Drive Bridgeport, WV 26330 304-326-6027 Permit #SWF-1032-98 Approval #100785WV

Waste Management-Northwestern Landfill

512 E. Dry Road Parkersburg, WV 26104 304-428-0602 Permit #SWF-1025 WV-0109400 Approval #100833WV

> DMH 2-23-18

> > Office of Oil and Gas
> >
> > MAR 2 2018
> >
> > WV Department of Environmental Protection

WW-9- GPP Rev. 5/16

	Page	1	of_2
API Number 47 -			-
Operator's Well N	0.519	503	

DED	STATE OF WE ARTMENT OF ENVIRO		TION
DEF	OFFICE OF O	IL AND GAS	
	GROUNDWATER PR	ROTECTION PLAN	
rator Name: Equitrans, L.P.			
tershed (HUC 10): 0503020102 (Fis	shing Creek)	Quad: [	Big Run
n Name: Mobley			
List the procedures used for the to groundwater.	reatment and discharge of f	luids. Include a list of a	operations that could contaminate the
purces of potential groundwater contamination juipment. The operations of drilling and cemet ell Is proposed to be drilled with air and drilling be used during drilling include: Air feam HD, hiblior), De-feamer, Hammer oil, potassium ch	to an appropriate location permitted during construction. Potential conta- nting followed by stimulation of the va- mud. Chemicals used in drilling the SC-900 (Shale Control Copolymer), inloride, blodegradable oil lubricant, and carbonates. Chemical storage	for disposal of the spited intake aminants during site construction well can also produce potential a well shall be stored in their or , CC-120 (Liquid KCL Replacer detergent, defoaming, water, by containers will be located within	pill will be contained within the secondary rial) Fuel tanks and construction equipment are all inflictude fuels, oils, and fluids from construction equipments that could effect groundwater. The equipments that could effect groundwater. The inflighted containers until used. Chemicals enticlopated ment)(Clay Stabilizer), ALPHA 2296 (Corrosion arite, viscosifier, alkalinity control, Ilma, filtration in a secondary containment footprint. Petroleum with ment until it is hauled off for disposal at a facility of the control of the
Describe procedures and equipme			t of potential contaminant sources above
quipment will take place immediately. acility permitted for disposal of that fluic inside or outside of secondary contains operating Procedures. An authorized E mergency contacts.	A vacuum truck will be on star d. Contractors will notify the at ment) or discovery of potential cultrans representative will m	nd-by to remove fluids from uthorized Equitrans repres contaminants leaving site ake the required notification	e is discovered clean up and maintenance in secondary containment and taken to a sentative immediately of spills in any amous in accordance with Equitrans Standard ons to the regulatory agencies and local
List the closest water body, dist discharge area.	ance to closest water body	y, and distance from c	losest Well Head Protection Area to
adjacent to the proposed Project Mobley Run) and 70 feet (UNT to Quadrangle mapping, the followi Mobley Run (approx. 650 LF), U 860), UNT to Wiley Fork (approx	access road LOD. The hold haymond Run downsking streams are downslop NT to Mobley Run (approx. 1495 LF), UNT to Haym Protection Areas identified	need of these streams ope of the proposed a oe of the Project LOD x. 780 LF), UNT to No ond Run (approx. 725 ad relative to the Proje	LF), UNI to willey Fork (approx.
Summarize all activities at your	facility that are already regi	ulated for groundwater	protection.
There are no other activitie	es on-site that are reg	gulated for ground	water protection.

5. Discuss any existing groundwater quality data for your facility or an adjacent property.

WW-9- GPP Rev. 5/16

API Number 47 -Operator's Well No. 519603

No existing groundwater quality data is available.

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

Any fluids that may potentially cause groundwater contamination in secondary containment will be removed by a vacuum truck, including snow as it melts. All solids will go into an appropriate covered bin for disposal. Waste material shall not be used for deicing, fill material or any other use unless provided for in another regulation or permit.

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

Frequent tailgate meetings or Job Site Analyses (JSA) will be used to train staff on how to prevent and respond to spills that may potentially contaminate groundwater. The tailgate meeting or JSA should be used to discuss potential sources of pollution and best management practices (BMPs) to prevent groundwater contamination. During the meetings, emergency procedures should be reviewed and discussed for the specific construction site and conditions. Employee training programs shall be used to inform personnel at all levels of responsibility of potential groundwater contaminants and BMPs for preventing contamination. Training should address topics such as spill response, good housekeeping and routine inspection. Training should be conducted at a minimum on a quarterly basis while construction and operational activities are occurring. Records of the guarterly training should be maintained on site.

Contractors and their employees will be instructed in the following BMPs: 1. Use of secondary containment. 2. Notify authorized Equitrans representative immediately of any spills or discovery of potential contaminate leaving site. Equitrans representative will make the required notifications to the regulatory agencies and local emergency contacts. 3. All tears in containment are to be reported immediately to Equitrans representative so it can be fixed. 4. Transfers of fluids will be monitored and take place over secondary containment. 5. Equipment is to be inspected daily. If an issue is discovered the area will be cleaned up and maintenance of equipment will take place RECEIVED immediately. 6. An Equitrans representative is to be notified if a vacuum truck is needed. Office

2 2018

Oit and Gas

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

V/V Department of onmental Protec

The site will be formally inspected a minimum of once every month during the life of site construction activities to ensure that all elements and equipment of the site's ground water protection program are in place, properly functioning, and appropriately managed. Inspections are to be documented. More frequent inspections will be conducted as required by the Project's other permits. During post site construction operations, the inspection of GPP elements and equipment will be conducted at shift change by the relief coming on. As the shift goes on, all operators will monitor their equipment to maintain it in operational condition and look for tears in containment in their area.

Signature:

**PROJECT: Mobley Horizontal Storage Well COUNTY: Wetzel** DISTRICT: Grant (04) TAX MAP/PARCEL: 14/10, 17, 18, and 22

#### ROAD RIGHT OF WAY AND EASEMENT AGREEMENT

THIS ROAD RIGHT OF WAY AND EASEMENT AGREEMENT ("Agreement"). dated February 27, 2018, is made and entered into by and between John W. Wycoff, married but dealing as his sole and separate property, of 579 Morgan Ridge Rd, Fairmont, WV 26554-5586 ("Grantor"), and Equitrans, L.P., a Pennsylvania Limited Partnership, with an office located at 625 Liberty Avenue, Suite 1700, Pittsburgh, PA 15222 ("Grantee").

FOR AND IN CONSIDERATION of the sum of one dollar (\$1.00), cash in hand paid and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Grantor grants and conveys, with covenant of General Warranty, to Grantee a perpetual right of way and easement ("Right of Way") in the location depicted on "Exhibit A" attached hereto, to construct, use, maintain, upgrade, replace, alter, improve, protect (including the installation of gates, environmental and erosion controls), and repair a road ("Road"), together with all necessary or convenient rights, including ingress and egress thereto by most convenient routes, and installation of utility lines. Said perpetual Right of Way is over, upon, and across the lands of the Grantor being in Grant District, Wetzel County, West Virginia, which lands or part thereof were devised to Grantor from W.A. Wycoff in Will Book 32, Page 581 dated November 23, 1973 and recorded on December 1, 1981, of record in Wetzel County, West Virginia, containing 29 acres, 6.2 acres, 66.7 acres, and 48 acres, more or less, and being more specifically identified as Tax Map 14 and Parcel Numbers 10, 17, 18 and 22 ("Property"). The Road's centerline is marked and described on "Exhibit A".

- Grantee may use the Road as necessary or convenient to facilitate its current and future operations wherever located, including construction, reclamation, and use for access to any other properties. By way of example and not limitation, Grantee may use the Road for the transportation of pipe, machinery, rigs, equipment, and all other supplies or equipment necessary or useful for the construction, installation, operation, reclamation, and maintenance of pipelines or other equipment or facilities used and useful to Grantee's operations or business or for the transporting of natural gas, its' byproducts, water, and or other liquids and gases.
- The Right of Way shall be of sufficient width to accommodate any and all operations of, and uses necessary or convenient to Grantee, including but not limited to, all activities related to constructing, maintaining, upgrading, replacing, altering, improving, protecting, and repairing the Road.
- Grantor shall not place or permit to be placed any obstruction on or over the Right of Way or Road, including, but not limited to, buildings, mobile homes, garages, sheds, trees, vehicles, or other items or activities that could impede access to or use of the Right of Way or Road. Subject to the foregoing, Grantor may continue to use and enjoy the Property and the Road in any way that does not interfere with the rights of Grantee under this Agreement.
- Grantee has the right to maintain the Right of Way and Road by keeping them free from all trees, limbs, brush, weeds, and other undergrowth which, in the judgment of the Grantee, might interfere with the construction, use, maintenance, upgrading, replacement, alteration, improvement, protection, repair, or safety of the Road. Grantee is also given the right to access the Property as required to reclaim the Road and any other affected areas on the Property.
- Grantee shall have the right to make such changes in the location of the Road from time to time as may be necessary or advisable owing to road construction or relocations, ground slips, migrating streams, or other causes beyond the control of the Grantee that are required for safety, regulatory, or operational reasons. For any such changes required by Grantee, Grantee shall pay a dollar amount per foot/acre of relocated road equal to the per foot/acre amount paid to Grantor for the initial Road constructed hereunder. Grantor agrees to

PROJECT: Mobiley Horizontal Storage Well COUNTY: Wetzel DISTRICT: Grant (04) TAX MAP/PARCEL: 14/10, 17, 18, and 22

execute any further amendments or instruments necessary to confirm such adjustments to the location of the Road.

- This Agreement shall inure to the benefit of and be binding upon the parties hereto and their respective successors, assigns, heirs, administrators, and executors.
- 7. It is hereby understood that no agreement or representation concerning this Agreement shall be binding on the Grantee unless expressed in a writing signed by the Grantee; and any agreements or representations, verbal or written, made by any person on behalf of either the Grantor or the Grantee not contained in this instrument are unauthorized and do not bind the parties. This Agreement may be executed in one or more counterparts, each of which shall be deemed to be an original and all of which shall be deemed to comprise one single instrument. This right of way and easement shall run with the land and remain in force and effect until released and relinquished by the Grantee back to the Grantor, in writing.
- Grantor shall from time to time execute and deliver such further instruments as necessary to effectuate the rights granted under this Agreement.
- 9. The Grantor herein declares that the value of the interest in the real estate transfer herein, to the best of their knowledge and belief is \_\_\_\_\_ \$ 18,139.68 .

TO HAVE AND TO HOLD the said Agreement unto Grantee, its successors and assigns.

IN WITNESS WHEREOF, the Grantor has executed this Agreement as of the date first set forth above.

GRANTOR:

John W. Wycoff

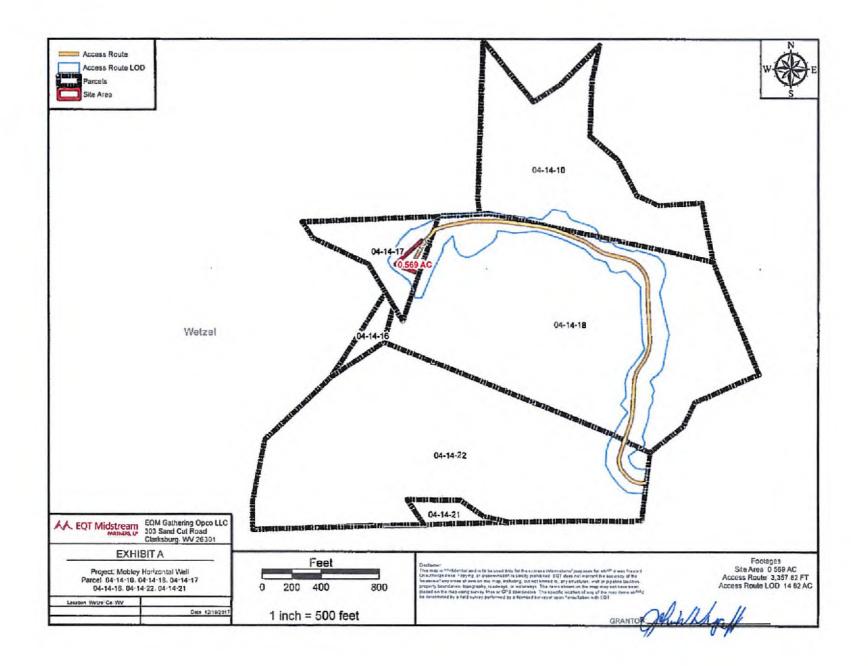
STATE OF WEST VIRGINIA : COUNTY OF MARION ;

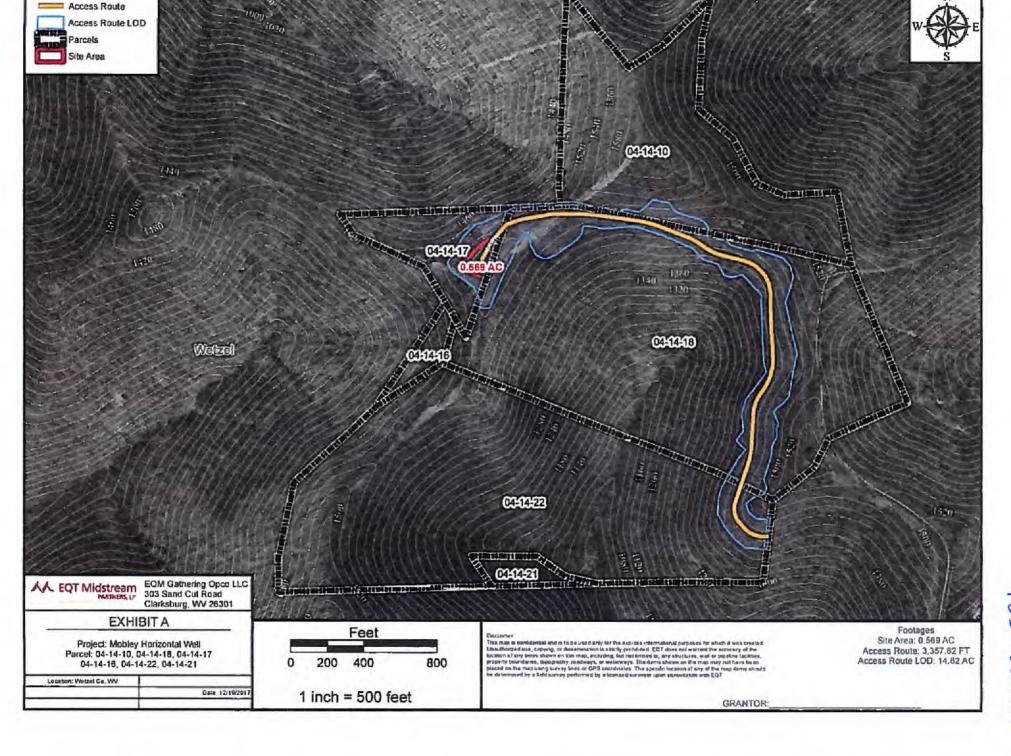
My commission expires: March 147022

[SEAL]

OFFICIAL SEAL
Notary Public, State Of West Virginia
RACHEL WYCKOPF
120 Genous Soulevard
Bridgecort, WV 26330
My Commission Expires March 14, 2022

Notary Public





PROJECT: Mobley Horizontal Storage Well 'COUNTY: Wetzel DISTRICT: Grant (04) TAX MAP/PARCEL: 14/26, 32

#### ROAD RIGHT OF WAY AND EASEMENT AGREEMENT

THIS ROAD RIGHT OF WAY AND EASEMENT AGREEMENT ("Agreement"), dated January 8, 2018, is made and entered into by and between Mary Jane Byard, a single woman, of 2917 S. 7<sup>th</sup> Street, Missoula, MT 59804-2021 ("Grantor"), and Equitrans, L.P., a Pennsylvania Limited Partnership, with an office located at 625 Liberty Avenue, Suite 1700, Pittsburgh, PA 15222 ("Grantee").

FOR AND IN CONSIDERATION of the sum of one dollar (\$1.00), cash in hand paid and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Grantor grants and conveys, with covenant of General Warranty, to Grantee a perpetual right of way and easement ("Right of Way") in the location depicted on "Exhibit A" attached hereto, to construct, use, maintain, upgrade, replace, alter, improve, protect (including the installation of gates, environmental and erosion controls), and repair a road ("Road"), together with all necessary or convenient rights, including ingress and egress thereto by most convenient routes, and installation of utility lines. Said perpetual Right of Way is over, upon, and across the lands of the Grantor being in Grant District, Wetzel County, West Virginia, which lands or part thereof were conveyed to Grantor from Mary Byard, widow in Deed Book 264, Page 119 dated September 9, 1971 of record in Wetzel County, West Virginia, containing 14.5 acres and 13.3 acres, more or less, and being more specifically identified as Tax Map 14 and Parcel Numbers 26 and 32 ("Property"). The Road's centerline is marked and described on "Exhibit A".

- 1. Grantee may use the Road as necessary or convenient to facilitate its current and future operations wherever located, including construction, reclamation, and use for access to any other properties. By way of example and not limitation, Grantee may use the Road for the transportation of pipe, machinery, rigs, equipment, and all other supplies or equipment necessary or useful for the construction, installation, operation, reclamation, and maintenance of pipelines or other equipment or facilities used and useful to Grantee's operations or business or for the transporting of natural gas, its' byproducts, water, and or other liquids and gases.
- 2. The Right of Way shall be of sufficient width to accommodate any and all operations of, and uses necessary or convenient to Grantee, including but not limited to, all activities related to constructing, maintaining, upgrading, replacing, altering, improving, protecting, and repairing the Road.
- 3. Grantor shall not place or permit to be placed any obstruction on or over the Right of Way or Road, including, but not limited to, buildings, mobile homes, garages, sheds, trees, vehicles, or other items or activities that could impede access to or use of the Right of Way or Road. Subject to the foregoing, Grantor may continue to use and enjoy the Property and the Road in any way that does not interfere with the rights of Grantee under this Agreement.
- 4. Grantee has the right to maintain the Right of Way and Road by keeping them free from all trees, limbs, brush, weeds, and other undergrowth which, in the judgment of the Grantee, might interfere with the construction, use, maintenance, upgrading, replacement, alteration, improvement, protection, repair, or safety of the Road. Grantee is also given the right to access the Property as required to reclaim the Road and any other affected areas on the Property.
- 5. Grantee shall have the right to make such changes in the location of the Road from time to time as may be necessary or advisable owing to road construction or relocations, ground slips, migrating streams, or other causes beyond the control of the Grantee that are required for safety, regulatory, or operational reasons. For any such changes required by Grantee, Grantee shall pay a dollar amount per foot/acre of relocated road equal to the per foot/acre amount paid to Grantor for the initial Road constructed hereunder. Grantor agrees to

Page 1 of 2

PROJECT: Mobley Horizontal Storage Well 'COUNTY: Wetzel DISTRICT: Grant (04)

TAX MAP/PARCEL: 14/26, 32

execute any further amendments or instruments necessary to confirm such adjustments to the location of the Road.

- This Agreement shall inure to the benefit of and be binding upon the parties hereto and their respective successors, assigns, heirs, administrators, and executors.
- 7. It is hereby understood that no agreement or representation concerning this Agreement shall be binding on the Grantee unless expressed in a writing signed by the Grantee; and any agreements or representations, verbal or written, made by any person on behalf of either the Grantor or the Grantee not contained in this instrument are unauthorized and do not bind the parties. This Agreement may be executed in one or more counterparts, each of which shall be deemed to be an original and all of which shall be deemed to comprise one single instrument. This right of way and easement shall run with the land and remain in force and effect until released and relinquished by the Grantee back to the Grantor, in writing.
- Grantor shall from time to time execute and deliver such further instruments as necessary to effectuate the rights granted under this Agreement.
- 9. The Grantor herein declares that the value of the interest in the real estate transfer herein, to the best of their knowledge and belief is \_\_\_\_\_\_\$ 6,646.32 \_\_\_\_\_.

TO HAVE AND TO HOLD the said Agreement unto Grantee, its successors and assigns.

IN WITNESS WHEREOF, the Grantor has executed this Agreement as of the date first set forth above.

GRANTOR:

Mary Jane Brand Mary Jane Byard

STATE OF MONTANA :
COUNTY OF MISSOULA ;

I, James A. Many, a Notary Public in and for said County and State, certify that Mary Jane Byard, a single woman, personally known to me to be the same person who signed above, appeared before me today in said State and County, and acknowledged and delivered the instrument to be their free act and deed. Given under my hand this 16 day of

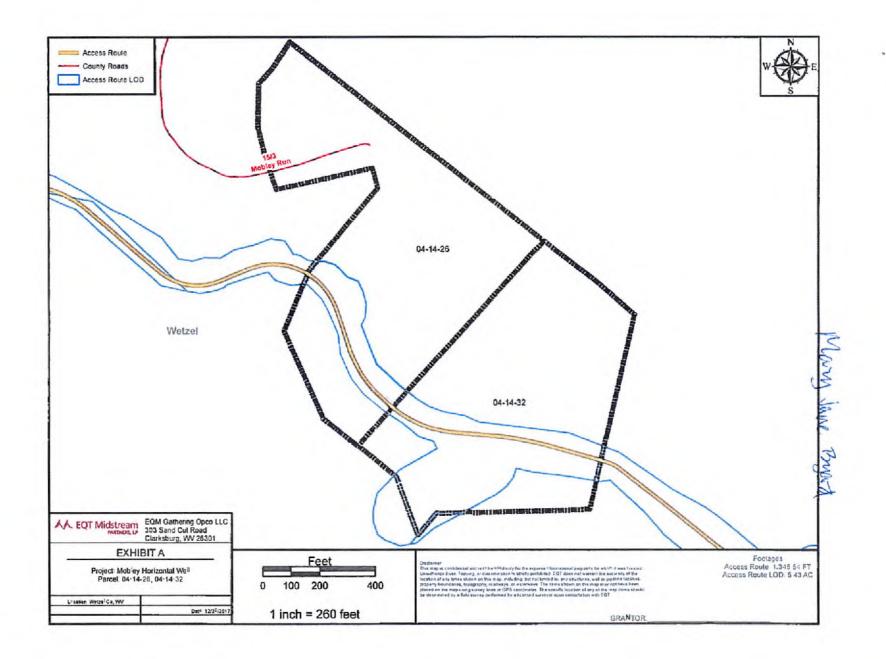
February, 2018.

My commission expires: 8-1-2019

[SEAL]

JAMES A MCNAY
NOTARY PUBLIC for the
State of Montana
Best ling at Misses 1, MT
My Commercian F. Intel
August 01, 2019.

Notary Public





## MOBLEY STORAGE WELL FINAL SITE DESIGN FINAL SITE DESIGN, CONSTRUCTION PLANS, & EROSION & SEDIMENT CONTROL PLANS

PROPOSED MAIN ACCESS ROAD AT APPROXIMATELY

LINDER CONSTRUCTION

STATION 169443 OF THE BIG 464 ACCESS FROAD CURFENTLY

EXISTING GLO 76 ACCESS ROAD

PROPOSED TOPSOIL STOCKPILE 1

PROPOSED STORAGE WELL PAD

DESIGNED BIG 464 ACCESS ROAD-



West Virginia Coordinate System of 1983 State Plane Grid North Elevations NAVD88 Established By Survey Grade GPS

AFFECTED PROPERTIES

COASTAL LUMBER COMPANY TAN MAP 20 FARREL 1 SITE DISTURBANCE MAP ACCESS ROAD + 3 M ACRES (WITHIN BIG 464 LOD) + 6 TO ACRES TIMBLE REMOVAL + 2 to ACRES

ARREST AMERICAN CONTINUES TAX MAP 14 - PARCEL 12 SITE DISTURBANCE MARK ACCESS ROAD = 8 67 ACAES 10PSOK STOCKPILE = 5.05 MCRES 1MMR / BRUSH STORAGE = 0.12 ACRES THREE REMOVAL + 4 ST ACRES

TAX MAP 14 - PARCEL 32 SITE DISTURBANCE MAIN ACCESS ROAD - 1 65 ACRES TOWNER ARREST STORAGE + 0 30 ACRES TIMBER REMOVAL - 3 BO ACRES

MARY JANE BYARD TAX MAP IN-PARCES 26 SITE DISTURBANCE.
MAIN ACCESS ROAD = 1 52 ACRES TIMBER REMOVAL = 1.52 ACRES

CLARA BELLE SNODGRASS TAX MAP 19 PARCEL 20 SITE DISTURBANCE MAIN ACCESS ROAC + DISEACRES

EQUITRANS, LP TAX MAP 14 - PARCEL 27 SHE DISTURDANCE MAIN ACCESS ROAD = 1 SEACRES TOPSON, STOCKPILE = 2 18 ACRES TIMILER REMOVAL + 3 ST ACRES

EQUITANS LP TAR MAP 14 - PARCE: 23 SITE DISTURBANCE MAIN ACCESS ROAD = 7 S4 ACRES TIMBER MENOVAL - 6 SA ACRES

JOHN W WYCOFF

TAN MAP IN - MARCEL 27

SITE DISTURBANCE

MMM ACCESS ROAD - 1.51 ACPES

TIMIER TIRALISM STURKAGE - 9.05 MCHES

TOTAL 2017 MARCEL - 5 W SCHES TIMMER AEMOVAL - 1 ST ACRES

JOHN W WYCOFF
TAN MAP 14 - PARCEL 18
SITE INSTRUMENT
MAN ACCESS ROAD - 8 15 ACRES
WELL PAD - 9 88 ACRES
TOPPODE STOCKPHE - 1 01 ACRES
TOMBER / BRUSH 5 / CRAGE = 0 80 RORE E THINKE SEVICENT - 2-40 ACRES

TAY WAP 14 - PARCEL 10 MMM ACCESS ROAD - C BE ACPES THURS REMOVAL - UTBACHES

TAN MAP 14 - PARCEL 17 MANACCESS ROAD = 0.12 ACRES WELL PAD = 1.5T ACRES TIMBER REMOVAL - 1 19 ACRES

Surveyor & Engineer Ben Singleton - PS -Allegheny Surveys Inc. 304-649-8606 Off

Tom Corethers - PE, PS -Homor Brothers Engineers 304-624-6445 Office

Project Contacts April Rohrbaugh

304-8 \$8-0628 Office

Design Certification cagnana anachadraman paver cam ; prepared accordance with the West Virginia Code of State Rules. Division of Environmental Protection. Office of Gil and Gas §35-4-21.

The information reflects one Storage Well Paci

ATE	REVISIONS	1
129/17	PARCEL 14-7 - DERBY NORMAN	
20077	REDESIGN TO ADD A HAMP ACCESS  A ADDED ENVIRONMENTAL	Date 11/30/2017
21617	CONTIAL POREST RESCURCES	Scale: NTS
125/18	PARCEL 1448 - PHILLIPS WORTH	Designed By TRC
1/21/28	INDICATED AND A PROPERTY OF THE TRANSPORT OF THE PARTY OF	File No. 10-1, true total eq
20/18	DRAIN & ADDED SLOPE DRAIN DETAIL.	Figs 1 of 105

### FLOODPLAIN CONDITIONS DO SITE CONSTRUCTON ACTIVITIES TAKE PLACE IN FLOODPLAIN PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR NO HEC-RAS STUDY COMPLETED NA FLOODPLAIN SHOWN ON DRAWINGS: NO FIRM MAP NUMBER(S) FOR SITE:

	LOCATIONS NY NORTH JONE)	
	LATITUDE	LONGITUO
Proposed Starage Wed	39.574433	-60 546128
Proposed Canter of Plast	39.574494	460,544900

### WELL LOCATION RESTRICTIONS

ACREAGES OF CONSTRUCTION IN FLOODE AIN.

Mail Par complet with the Mail's coston Ratifictions of InV code 27-4 A-12

\* 300" from edge of disturbance to netwelly reproducing frout streams.

1 1000 of surface or ground water intake to a public water supply

MISS Utility of West Virginia 1-800-245-4848 West Virginia State Law (Section XIV: Chapter 24-C)

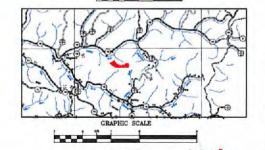
West Virginia.

IT'S THE LAW!!

## \* 625" to occupied diseleges being reater 2500 SF used for pooling or dary measured from the beniev of the paid.



Mobley



PROPOSED TOPSON

STOCKPILE 2

Affire Diese.

Allen Chapel

ROPOSED TOPSOL

COV	ER SHEET / LOCATION MAP	
EXIS	STING CONDITIONS PLAN2	
SCH	EDULE AND QUANTITIES PLAN	
CON	ASTRUCTION, GENERAL, AND EAS NOTES	
	RVIEW PLAN	
	PACH5-8	
<b>EXIS</b>	STING GLO 76 & BIG 464 ACCESS ROAD9-25	
	IL SITE DESIGN DESIGN PLANS 26-35	
	76 & BIG 464 ACCESS ROAD PROFILE & SECTIONS 36-76	
	N ACCESS ROAD PROFILE & SECTIONS77-97	
	RAGE WELL PAD PROFILE AND SECTIONS 18-99	
	SOIL STOCKPILES PROFILES & SECTIONS	
	ISTRUCTION DETAILS100-1	2
REC	LAMATION PLANS	

MARY MAR SYSPO

TIMBER REMOVAL - C 26 ACRES

CLARA BELLE SNODGRASS TAL MAP 14 , PARCH 25 SITE D'STURBANCE MAIN ACCESS ROAD + 3 40 ACRES

NOTE:

8

THIS SET OF PLANS ONLY CONTAINS SHEETS 25-35 OF THE FINAL DESIGN PLANS BY REQUEST OF THE WYDEP.

Brink

# SHEET INDEX









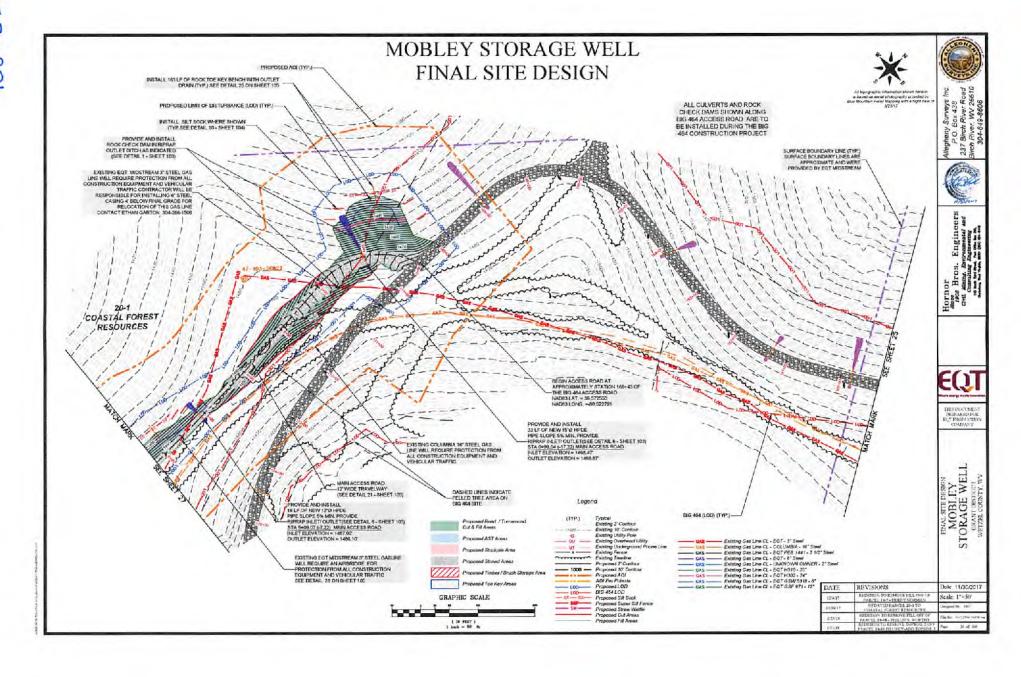
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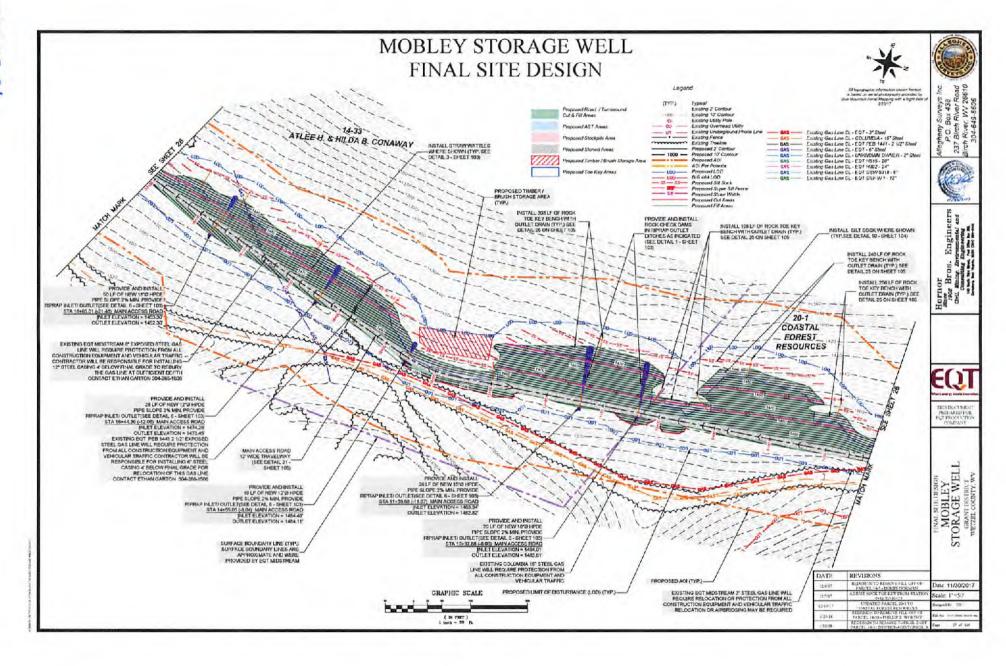


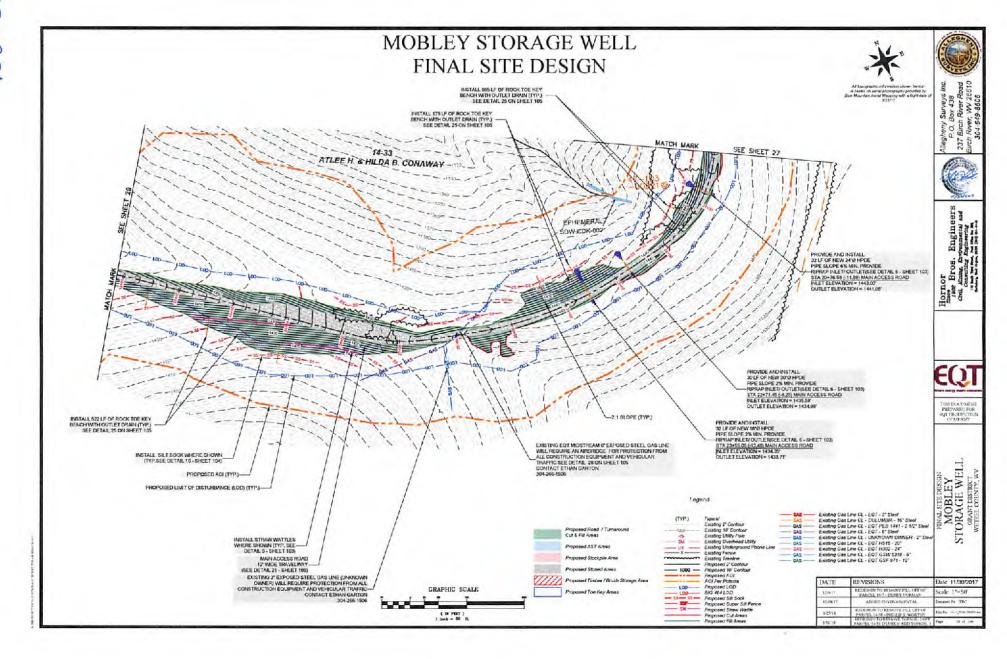
THIS DECEMBERT PROPARED FOR BUT PRODUCTION OF MEANY

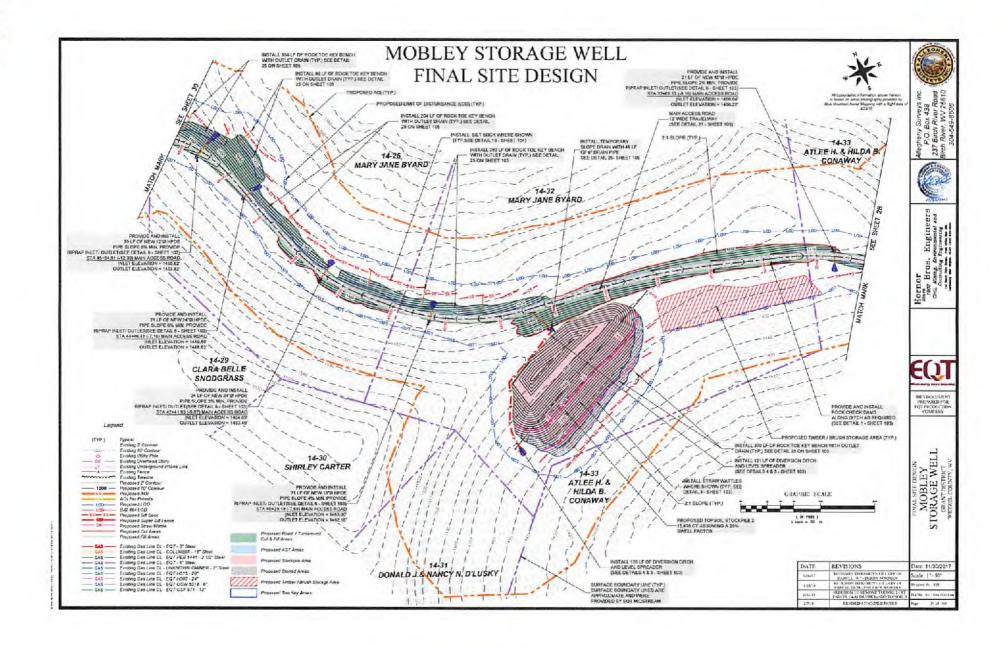
PRELIMINARY STTE DESIGN
MOBLEY
STORAGE WELL
GRANT DISTRICT
WETZEL COLINTY, WV

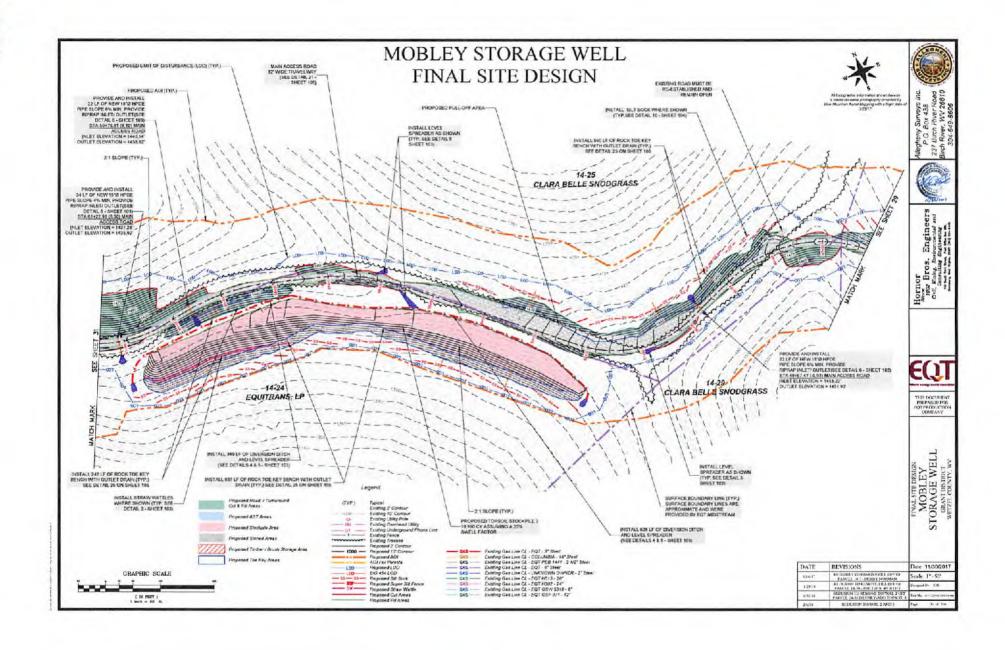
	REVISIONS	1
Ī	PARCEL 18-1 - CERBY NORMAN	
	REDESIGN TO ADD A RAMP ACCESS  A ADDED ENVIRONMENTAL	Date: 11/30/2017
Ξ	CONTACTOR PARCEL 20-1 TO CONTACTOR POREST RESIDENCES	Scale: NTS
	REDESIGN TO REMOVE FILL OFF OF PARCEL 1446 - PHILLIP'S WORTH	Designed By TRC
	REDEBION TO REMOVE DEST OVERAR.  18-31 EPEUSEXY-UPDACE PG MUNIBERS	File No. 10-1, proc. 1002 og
-	REDESIGN TOPSOILS A 3 ATOPOSISTORY	

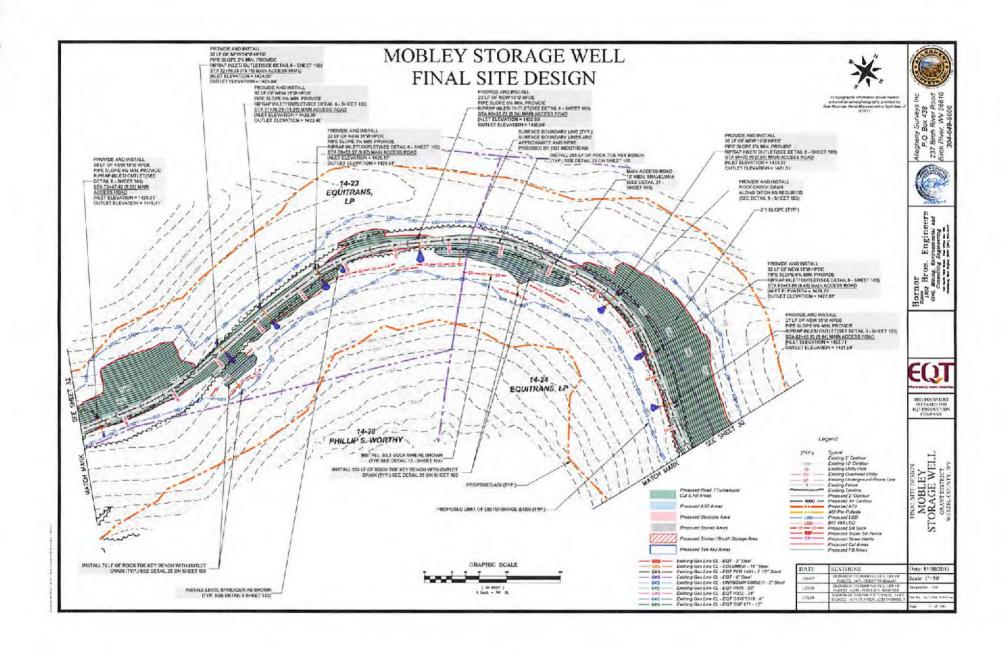


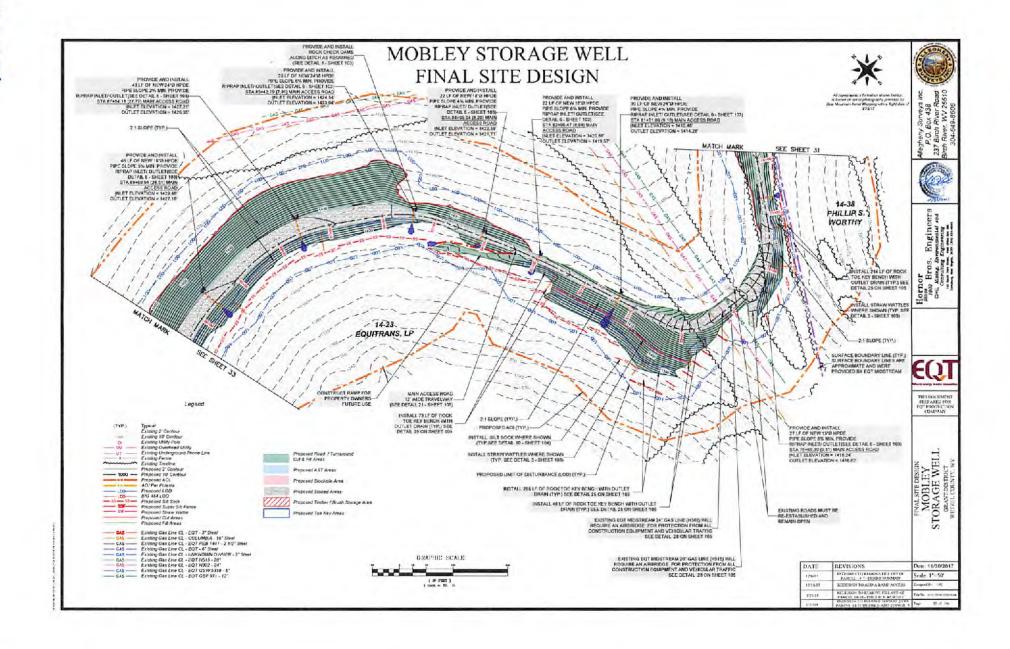


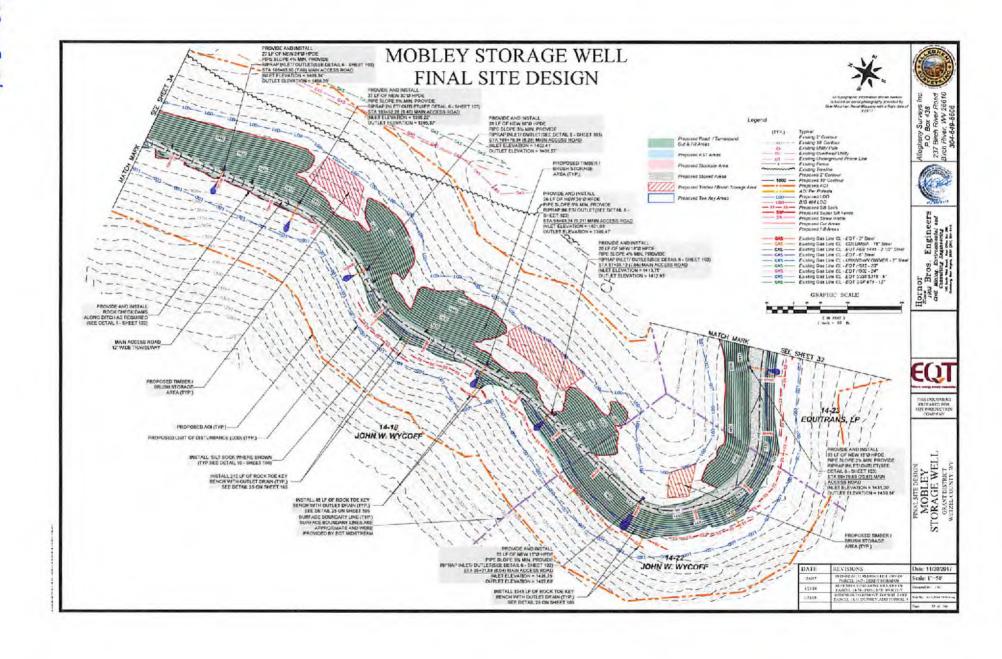


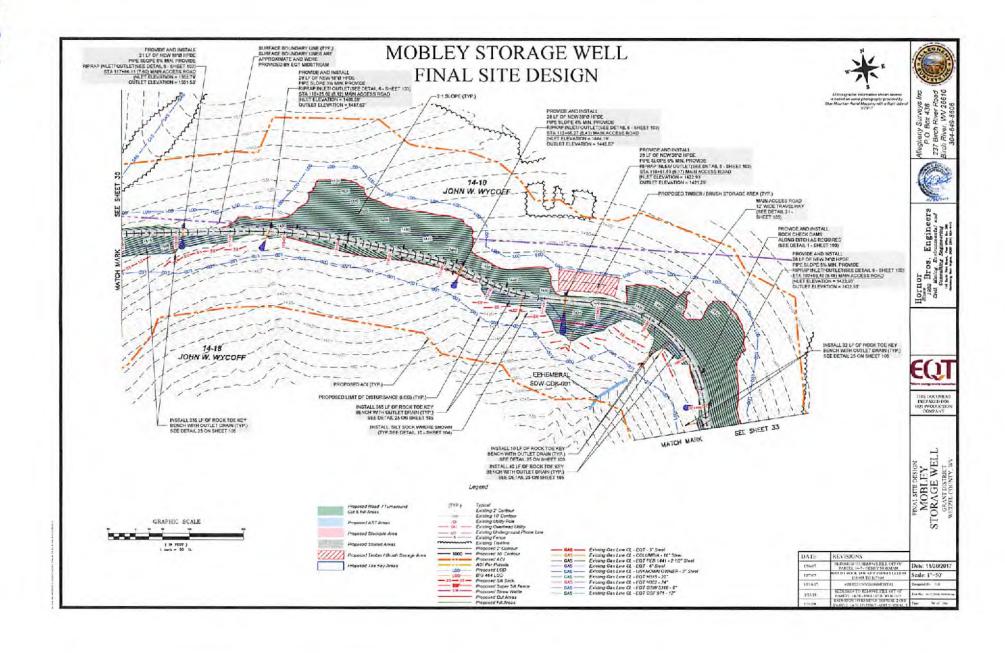


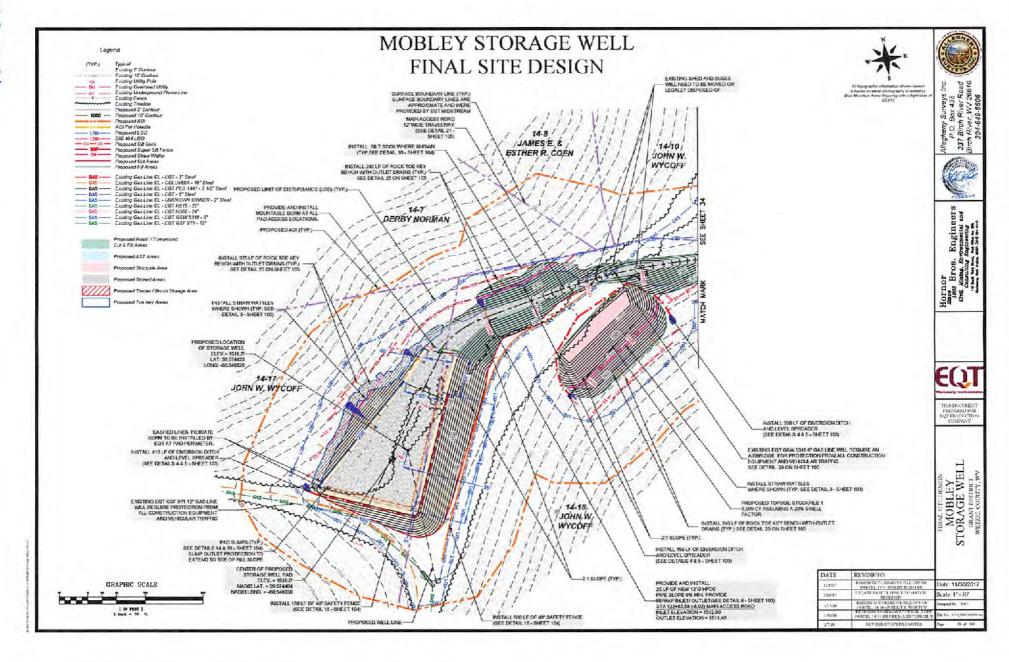












Clarksburg, WV 26301

04/13/2018

Topo Quad: Big Run 7.5' 1" = 1000" Scale: Wetzel November 16, 2017 County: Date: Grant District: Project No: 261-34-G-17 Topo Mobley Storage Well RICE LEONARD EARL 1400 RICE EDWIN C COEN ESTHER R HIGGINBOTHAM H DORN PARKS THOMAS JETAL DERBY HIGGINBOTHAM NORMAN LAVENA JANE COASTAL FOREST COLLINS JEREMY T ETAL RESOURCES CO WYCOFF JOHN W Long Cam Office of COASTAL FOREST RESOURCES EQUITRANS LP NAD 83, North Zone **EQUITRANS LP** N: 393054.52 E: 1672836.32 WGS 84 LAT: 39.574404 LONG: -80.548930 ELEV: 1516.0' SURVEYING AND MAPPING SERVICES PERFORMED BY: PREPARED FOR: ALLEGHENY SURVEYS, INC. Equitrans, L.P. DMH 3.27-18 1-800-482-8606 237 Birch River Road 303 Sand Cut Road Birch River, WV 26610

PH: (304) 649-8606 FAX: (304) 649-8608 Topo Quad:

Big Run 7.5'

Scale:

1" = 2000'

County:

Wetzel

Date:

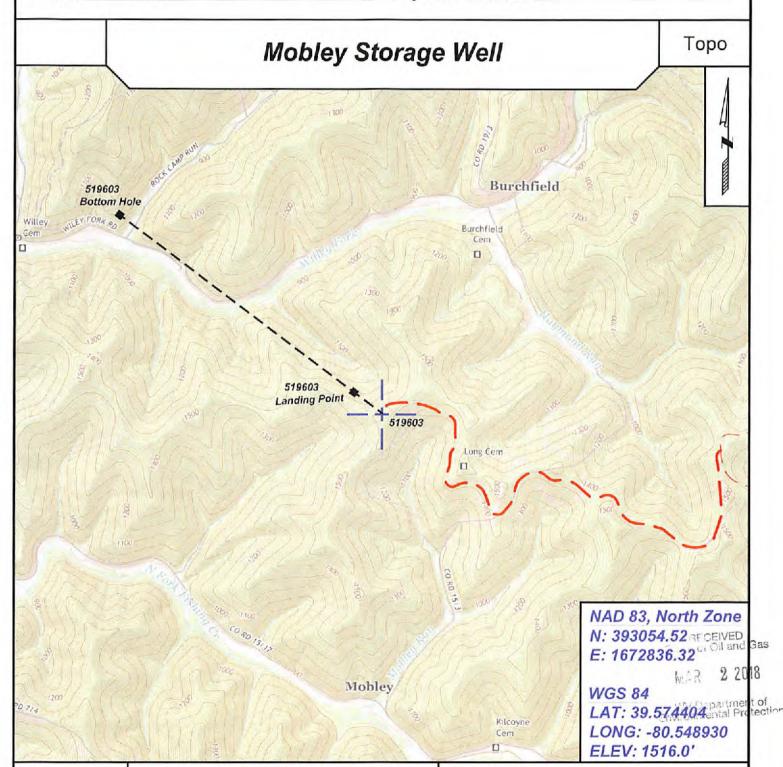
November 16, 2017

District:

Grant

Project No:

261-34-G-17





SURVEYING AND MAPPING SERVICES PERFORMED BY:

# ALLEGHENY SURVEYS, INC.

1-800-482-8606 237 Birch River Road Birch River, WV 26610 PH: (304) 649-8606 FAX: (304) 649-8608 PREPARED FOR:

J-33-18 UWA

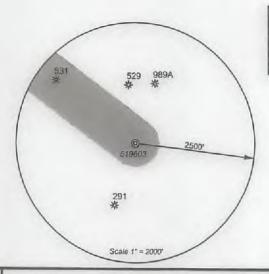
Equitrans, L.P.

303 Sand Cut Road Clarksburg, WV 26301

04/13/2018

# 519603 Mobley Horizontal Storage Equitrans, L.P.

Tract I.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	14	17	Wetzel	Grant	John W. Wycoff & Carolyn S. McGill	6.20
2	14	.7	Wetzel	Grant	Norman Derby	83.00
3	8	53	Wetzel	Grant	Dom H. & Jane L. Higginbotham	198.21
4	14	18	Wetzel	Grant	John W. Wycoff & Carolyn S. McGill	66.70
. 5	14	18	Wetzel	Grant	John W. Wycoff & Carelyn S. McGill	1.50
5	13	45	Wetzel	Grant	Coastal Forest Resources Co.	135.10
7	13	27.1	Wetzel	Grant	Jeremy Collins	148.70
.8	13	18	Wetzel	Grant	Unknown	unknows
9	8	54	Wetzel	Grant	Sherilyn Snider	20.00
10	0	40.1	Wetzel	Grant	Donald J. Oulaney	22.00
11	0	52	Wetzel	Grant	Norman Derby	81.51
12	14	. 8	Wetzel	Grant	Either FL Coen	59.50
13	13	0	Wetzel	Grant	Mary D. Higginbothsm & Mary Lauck	30.10
14	13	17	Wetzel	Grant	Mary D. Higginbotham & Mary Lauck	112.00
15	13	8	Wetzel	Grant	Robert S. & Alfred Bryan Cole	36.00
16	13	7	Wetzel	Grant	Manpet Lee McDiffitt, et al.	51.80
17	8	55	Wetzel	Grant	Mannel Lee McDiffitt, et al.	0.25
18	В	51	Wetzel	Grant	Henry E. Willey	2.34
19	В	52	Wetzel	Grant	Henry E. Willey	0.26
20	В	30	Wetzel	Grant	Dom H. & Jane L. Higginbotham	23.82
21	8	24	Wetzel	Grant	Dorn H. & Jane L. Higginbotham	7.10
22	В	21	Wetzel	Grant	Joe Ray Willey	76.27
23	8	30	Wetzel	Grant	James & Jim Yoho	7.50
24	В	41	Wetzel	Grant:	Dom H. & Jane L. Higginbothum	0.45
25	8	40	Wetzel	Grant	James & Jim Yoho	0.50
20	8	28	Wetzel	Grant	James Arthur Yoho	23.25
27	8	32	Wetzel	Grant.	Joe W. & Joe A. Pigg	82.4
28	0	28	Wetzel	Grant	Sherilyn Snider	55,52



Lease No	. Acres	Owner
706740	1003.75	EQT Production Company Inc.
125423	85	AMP Fund III, LP, et al
125421	73	H. Dorn Higginbotham, et al
125445	121	H. Dorn Higginbotham, et al
106285	40	Fredric G. Ritcher, et al

## AZ93°17'55"
2001.28'

## Stone on ridge

1" = 2000'



Proposed Gas Well Located Corner, as noted

Surface Tract Lines Reference Line Lease Boundary

Creek or Drain

WV County Route WV State Route

0

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 Department of Environmental Protection.

P.S. 2092



FILE NO: \_261-17

DRAWING NO: \_261-17 Mobiley Storage

SCALE: \_\_\_\_\_1" = 2000'

MINIMUM DEGREE OF ACCURACY: \_\_\_\_\_\_1:2500

PROVEN SOURCE OF ELEVATION:

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

DATE: February 9 20 18

OPERATOR'S WELL NO.: 519603

API WELL NO

47 - 103 - 63 22 8T

STATE COUNTY PERMIT

NGS CORS Station	September 1	S'	TATE COUNTY	PERMIT
(IF GAS) PRODUCTION Existing: 1537.0 LOCATION: ELEVATION: Proposed: 1516.0	LIQUID INJECTION ☐ WASTE DISPOSA  N: ☑ STORAGE ☐ DEEP ☒ SHALLO  WATERSHED Willey Fork	W	GLE: _ Big Run	
DISTRICT: Grant	COUNTY: Wet:	zel		
SURFACE OWNER: John W. Wycoff			ACREAG04	£13/2018
ROYALTY OWNER: EQT Production Co	mpany Inc. LEASE NO:	706740		
PROPOSED WORK: ☑ DRILL ☐ CON ☐ PERFORATE NEW FORMATION	IVERT □ DRILL DEEPER □ FRACTURE OR : □ OTHER PHYSICAL CHANGE IN WELL (SF	STIMULATE [ PECIFY)	☐ PLUG OFF OLD	FORMATION
□ PLUG AND ABANDON □ CLEAN OL	JT AND REPLUG TARGET FORMATION:	Keener	ESTIMATED DEF	PTH: _2,603'
WELL OPERATOR: Equitrans, L.P.	DESIGNATED AGENT: J	Justin Macken		
ADDRESS: 303 Sand Cut Road	ADDRESS:6	625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222		
Clarksburg, WV 2630	)1F			

