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west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Monday, June 12, 2023  
PERMIT MODIFICATION APPROVAL  
Horizontal 6A / New Drill

EQT PRODUCTION COMPANY  
625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit Modification Approval for DENVER 1H  
47-103-03513-00-00

**Lateral Extension**

EQT PRODUCTION COMPANY

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: DENVER 1H  
Farm Name: AUDREY L LAVELLE  
U.S. WELL NUMBER: 47-103-03513-00-00  
Horizontal 6A New Drill  
Date Modification Issued: 6/12/2023

Promoting a healthy environment.

06/16/2023

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

1) Well Operator: EQT Production Company 306686 Wetzel Center Littleton  
Operator ID County District Quadrangle

2) Operator's Well Number: 1H Well Pad Name: Denver

3) Farm Name/Surface Owner: EQT Production Company Public Road Access: CR 7/11

4) Elevation, current ground: 1,351 Elevation, proposed post-construction: 1,351

5) Well Type (a) Gas X Oil \_\_\_\_\_ Underground Storage \_\_\_\_\_  
Other \_\_\_\_\_  
(b) If Gas Shallow X Deep \_\_\_\_\_  
Horizontal X

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Marcellus, 7,471', 50', 2,620 psi

8) Proposed Total Vertical Depth: 7,471'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 23,023'

11) Proposed Horizontal Leg Length: 14,102'

12) Approximate Fresh Water Strata Depths: 33', 252', 357', 359', 399', 413'

13) Method to Determine Fresh Water Depths: Offset Wells - 47-103-01750 & 47-103-02399

14) Approximate Saltwater Depths: 1,858', 1,991'

15) Approximate Coal Seam Depths: 796'-799', 1,036'-1,039', 1,139'-1,144'

16) Approximate Depth to Possible Void (coal mine, karst, other): N/A

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes \_\_\_\_\_ No X

(a) If Yes, provide Mine Info: Name: \_\_\_\_\_  
Depth: \_\_\_\_\_  
Seam: \_\_\_\_\_  
Owner: \_\_\_\_\_

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18)

**CASING AND TUBING PROGRAM**

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	26	New	A252 GR 3 Base	85.6	40	40 ✓	49 ft <sup>3</sup> / CTS
Fresh Water	13 3/8	New	J-55	54.5	1194	1194 ✓	1085 ft <sup>3</sup> / CTS
Coal							
Intermediate	9 5/8	New	J-55	36	2620	2620 ✓	1010 ft <sup>3</sup> / CTS
Production	6	New	P-110	24	23023	23023 ✓	500' above intermediate casing
Tubing							
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	26	30	0.312	1000	18	Class A/L	1.04 - 1.20
Fresh Water	13 3/8	17 1/2	0.380	2730	2184	Class A/L	1.04 - 1.20
Coal							
Intermediate	9 5/8	12 3/8	0.352	3520	2816	Class A/L	1.04 - 1.20
Production	6	8 1/2	0.400	14580 ✓	11664	Class A/H/L	1.04 - 2.10
Tubing							
Liners							

**PACKERS**

Kind:			RECEIVED Office of Oil and Gas
Sizes:			MAY 24 2023
Depths Set:			WV Department of Environmental Protection



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

Drill and complete a new horizontal well in the Marcellus Formation. Drill the vertical, kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.1%) of chemicals (including 15% Hydrochloric acid, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum anticipated internal casing pressure is expected to be approximately 10,000 psi, maximum anticipated treating rates are expected to average approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 350,000 gallons of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 200,000-600,000 pounds of proppant per stage.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): N/A - Site Built

22) Area to be disturbed for well pad only, less access road (acres): N/A - Site Built

23) Describe centralizer placement for each casing string:

- Surface: Bow spring centralizers – One centralizer at the shoe and one spaced every 500'.
- Intermediate: Bow spring centralizers– One centralizer at the shoe and one spaced every 500'.
- Production: One solid body centralizer spaced every joint from production casing shoe to KOP.

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

Conductor: No additives  
 Surface: Calcium Chloride. Used to speed the setting of cement slurries  
 Intermediate: Calcium Chloride. Used to speed the setting of cement slurries.  
 Production: Calcium Carbonate, Fluid Loss, Extender, Dispersent, Viscosifier, Defoamer, POZ, Bonding Agent, Retarder, Anti-Settling/Suspension Agent

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25) Proposed borehole conditioning procedures:

Surface: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.  
 Intermediate: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.  
 Production: Perform a cleanup cycle by pumping 3-8 bottoms up or until the shakers are clean. Check volume of cuttings coming across the shakers every 15 minutes.

\*Note: Attach additional sheets as needed.

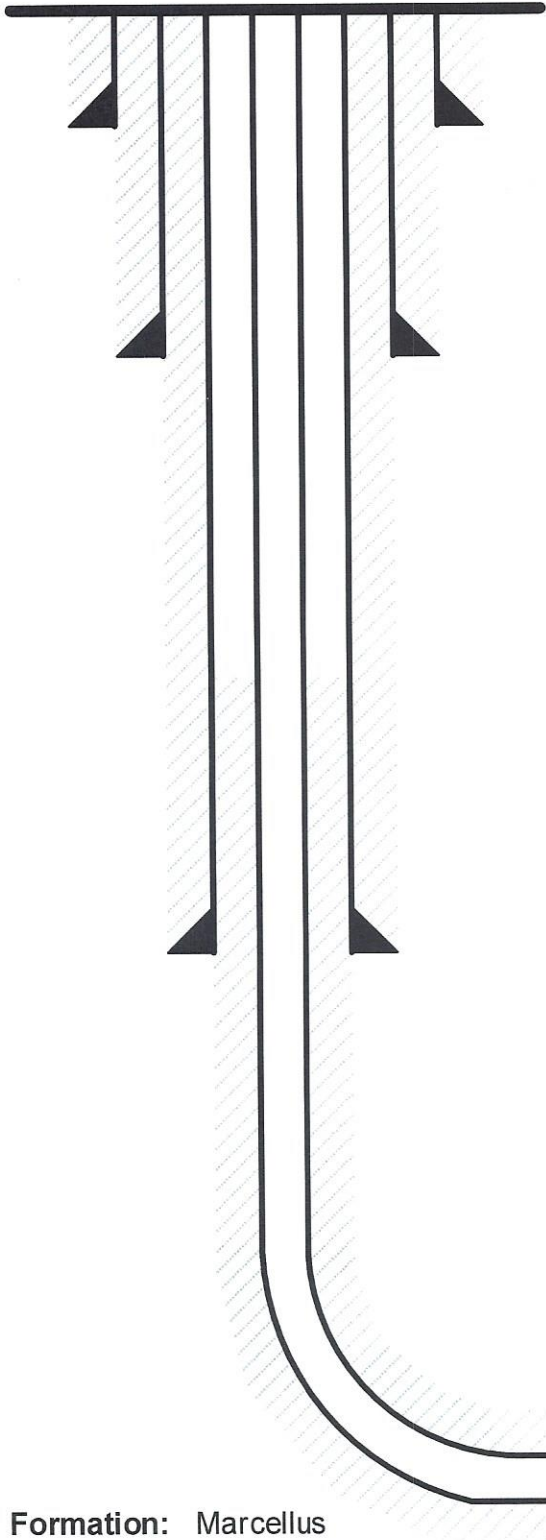


**EQT Production**

**Wellbore Diagram**

Well: Denver 1H  
Pad: Denver  
Elevation: 1351' GL 1379' KB

County: Wetzell  
State: West Virginia



**Conductor @ 40'**  
26", 85.6#, A252 GR3 Bare, cement to surface w/ Class A/L

**Surface @ 1,194'**  
13-3/8", 54.5#, J-55, cement to surface w/ Class A/L

**Intermediate @ 2,620'**  
9-5/8", 36#, J-55, cement to surface w/ Class A/L

**Production @ 23,023' MD / 7,471' TVD**  
6", 24#, P-110, cement to 500' inside 9-5/8" w/ Class A/H/L

**Formation: Marcellus**

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NOT TO SCALE

06/16/2023

**WEST VIRGINIA GEOLOGICAL PROGNOSIS**

Horizontal Well

Pad Name: DENVER

**Drilling Objectives:**

Marcellus

**Quad:**

Littleton

**County:**

Wetzel

**Elevation:**

1379 KB

1351 GL

**Recommended Azimuth**

315 Degrees

Recommended total wellbore length:

**Proposed Logging Suite:**

-No Pilot Hole Needed

**Coal requirements:**

EQT must provide New Gauley Coal Corporation as drilled surveys of each well within 30 days of each well being drilled and completed. Location at which the well penetrates the coal seam must be included.

**ESTIMATED FORMATION TOPS**

Formation	-4710302537	-4710302589	Lithology	Comments
	Top (TVD)	Base (TVD)		
Fresh Water Zone	1	413		FW from offsets @ 252,33,357,359,399,413,
Waynesburg Coal	796	799	Coal	
Sewickley Coal	1036	1039	Coal	
Pittsburgh Coal	1139	1144	Coal	SW @ 1858,1991, .
Big Injun	2431	2555	Sandstone	Hydrocarbon prod/show in offset @2014,2243,2407,3122,3409, . .
Int. csg pt	2605			50 ft below Big Injun
Berea	2675	3024	Sandstone	
Gantz	3024	3203	Silty sand	
Fifty foot	3203	3247	Silty sand	Outside of Storage Boundary
Thirty foot	3270	3297	Silty sand	
Bayard	3349	3477	Sandstone	
Upper Speachley	3851	3841	Silty sand	
Speachley	3861	3938	Silty sand	
Balltown	3938	4265	Silty sand	
Bradford	4265	4395	Silty sand	
Benson	5404	5814	Silty sand	
Alexander	5814	6266	Silty sand	
Elk	6266	7020	Silty sand	
Sonyea	7020	7177	Gray shale	
Middlesex	7177	7218	Black Shale	
Genesee	7218	7297	Gray shale interbedded	
Genesee	7297	7325	Black Shale	
Tully	7325	7348	Limestone	
Hamilton	7348	7454	Gray shale with some	
Marcellus	7454	7504	Black Shale	
-Purcell	7474	7476	Limestone	
-Cherry Valley	7487	7489	Limestone	
-Lateral Zone	7471			
Onondaga	7504		Limestone	

Top RR Base RR  
RED ROCK SHOWS NOT LISTED IN OFFSETS

**Comments:**

Note that this is a TVD prog for a horizontal well (azimuth of 315 degrees; target formation = Marcellus). All measurements taken from estimated KB elevation. Water and coal information estimated from surrounding well data.

**RECOMMENDED CASING POINTS**

	CSG OD		CSG DEPTH:	Planned Depth GL
<b>Conductor:</b>		24"		40
<b>Freshwater / Coal:</b>		13 3/8"		1166
<b>Intermediate 1:</b>		9 5/8"		2577
<b>Production:</b>		5 1/2"		@ TD

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EQT Production  
Hydraulic Fracturing Monitoring Plan  
Pad ID: Denver (LIT67)  
County: Wetzel

May 22, 2023

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Page 1 of 2

06/16/2023

**Purpose**

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Wetzel County, WV prior to hydraulic fracturing at the following EQT wells on the Denver (LIT67) pad: 1H, 3H, 5H, 7H and 9H.

Due to the requirements under 35CSR8 5.11, the permittee is required to review the area surrounding the proposed well pad so as to identify and evaluate potential conduits for unintended fracture propagation.

A report is required to be submitted along with a well work permit application.

The plan is being implemented as an additional safety measure to be utilized in conjunction with existing best management practices and emergency action plans for the site. These additional measures include coordination with well operators of the timing and location of the hydraulic fracturing, establishment of measures well operators should implement, and assurance that the OOG is notified of the timeline, as well as any issues that may arise during fracturing.

**1. Communications with Well Operators**

EQT, using available data (WV Geological Survey, WVDEP website, and IHS data service), has identified all known wells and well operators within 500 feet of this pad and the lateral sections that are known or could reasonably be expected to be within range of the fracture propagation. A map showing these wells along with a list of the wells and operators is included in **Attachment A**.

EQT will notify these operators of the hydraulic fracturing schedule for these wells, and coordinate with them throughout the fracturing process.

EQT will recommend to these operators at a minimum to:

1. Inspect their surface equipment prior to fracturing to establish integrity and establish pre-frac well conditions
2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure
3. Inspect or install master valves or other necessary equipment for wellhead integrity capable of a pressure recommended by EQT
4. Notify the OOG and EQT if any changes in water, gas production, pressure, or other anomalies are identified

**2. Reporting**

EQT will provide information relating to the hydraulic fracturing schedule, communication with other operators, and ongoing monitoring of the work upon request of OOG or immediately in the event of any noted abnormalities.

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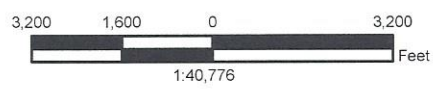


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**EQT**  
EQT Corporation  
625 Liberty Avenue  
Pittsburgh, PA 15222

Denver  
**Vertical Offsets and Foreign Laterals within 500'**

**Legend**  
☀ Foreign Offset Wells  
**Well Lateral\_FM Formation**  
— Geneseo  
— Marcellus  
— Utica



**Disclaimer:**  
This map is confidential and is to be used only for the express informational purposes for which it was created. Unauthorized use, copying, or dissemination is strictly prohibited. EQT does not warrant the accuracy of the location of any items shown on this map, including, but not limited to, any structures, well or pipeline facilities, property boundaries, topography, roadways, or waterways. The items shown on the map may not have been placed on the map using survey lines or GPS coordinates. The specific location of any of the map items should be determined by a field survey performed by a licensed surveyor upon consultation with EQT.



Created By: Kellen Waitman Printed By: McClayO on 4/20/2023  
Path: \\fs01p\file.core.windows.net\gs\users\olivia.hudgins\Vertical Offset\Foreign Well Working Map\_update\_v3.mxd

06/16/2023

API_UWI_Un	API_UWI_14	ENVEleva_3	ENVWellSta	ENVWellTyp	InitialOpe	Latitude	Longitude	RawOperato	ENVEleva_2	TVD_FT	WellName	WellSymbol
70367	47-103-70367-00-00	CALC	UNREPORTED	UNREPORTED	KANAWHA DRILLING CO.	39.6775	-80.5950	KANAWHA DRILLING CO.	1265.0	0.00	S F HIGGINS	UNREPORTED-UNREPORTED
73476	47-103-73476-00-00	CALC	UNREPORTED	UNREPORTED	(N/A)	39.6287	-80.5576	(N/A)	1212.5	0.00	W J HIBBS	UNREPORTED-UNREPORTED
02399	47-103-02399-00-00	ESTIMATED	PRODUCING	GAS	APPALACHIAN ENERGY	39.6309	-80.5712	DIVERSIFIED PRODUCTION LLC	1380.1	3595.00	WHITEMAN 1	GAS-PRODUCING
73425	47-103-73425-00-00	CALC	UNREPORTED	UNREPORTED	(N/A)	39.6447	-80.5691	(N/A)	1201.4	0.00	AL & MATILDA EFAW	UNREPORTED-UNREPORTED
73415	47-103-73415-00-00	CALC	UNREPORTED	UNREPORTED	MANUFACTURERS LIGHT & HEAT CO	39.6605	-80.5799	MANUFACTURERS LIGHT & HEAT CO.	1318.6	0.00	PATRICK CLARK	UNREPORTED-UNREPORTED
73478	47-103-73478-00-00	CALC	UNREPORTED	UNREPORTED	HOPE NATURAL GAS COMPANY	39.6258	-80.5632	HOPE NATURAL GAS COMPANY	1233.1	0.00	ANTHONY LOVELLE	UNREPORTED-UNREPORTED
01812	47-103-01812-00-00	ESTIMATED	PRODUCING	GAS	APPALACHIAN ENERGY	39.6233	-80.5505	DIVERSIFIED PRODUCTION LLC	1543.7	3757.00	KRECA 1	GAS-PRODUCING
71901	47-103-71901-00-00	CALC	UNREPORTED	UNREPORTED	PHILADELPHIA OIL	39.6184	-80.5540	PHILADELPHIA OIL CO.	1094.9	0.00	W P HUBBARD	UNREPORTED-UNREPORTED
73429	47-103-73429-00-00	CALC	UNREPORTED	UNREPORTED	HOPE NATURAL GAS COMPANY	39.6412	-80.5668	HOPE NATURAL GAS COMPANY	1297.5	0.00	JAMES PAYNE	UNREPORTED-UNREPORTED
73481	47-103-73481-00-00	CALC	UNREPORTED	UNREPORTED	(N/A)	39.6258	-80.5454	(N/A)	1148.1	0.00	J B POE	UNREPORTED-UNREPORTED
73474	47-103-73474-00-00	CALC	UNREPORTED	UNREPORTED	HOPE NATURAL GAS COMPANY	39.6254	-80.5531	HOPE NATURAL GAS COMPANY	1313.2	0.00	HENRY UTT	UNREPORTED-UNREPORTED
31047	47-103-31047-00-00	CALC	UNREPORTED	GAS	HOPE NATURAL GAS COMPANY	39.6306	-80.5674	HOPE NATURAL GAS COMPANY	1285.6	0.00	ALEX SAFFS	GAS-UNREPORTED
73424	47-103-73424-00-00	CALC	UNREPORTED	UNREPORTED	(N/A)	39.6457	-80.5676	(N/A)	1224.0	0.00	AL & MATILDA EFAW	UNREPORTED-UNREPORTED
73470	47-103-73470-00-00	CALC	UNREPORTED	UNREPORTED	(N/A)	39.6332	-80.5529	(N/A)	1206.4	0.00	D P PHILLIPS	UNREPORTED-UNREPORTED
73333	47-103-73333-00-00	CALC	UNREPORTED	UNREPORTED	(N/A)	39.6653	-80.5873	(N/A)	1159.4	0.00	JONATHAN H ROSE	UNREPORTED-UNREPORTED
30820	47-103-30820-00-00	CALC	INACTIVE COMPLETED	GAS	PHILADELPHIA OIL	39.6177	-80.5561	PHILADELPHIA OIL CO.	1113.6	3106.00	2	GAS-INACTIVE COMPLETED
70133	47-103-70133-00-00	CALC	UNREPORTED	GAS	SOUTH PENN OIL (S PENN NAT GAS)	39.6346	-80.5563	SOUTH PENN OIL (S. PENN NAT. GAS)	1093.4	0.00	JOHN LAVELLE	GAS-UNREPORTED
73437	47-103-73437-00-00	CALC	UNREPORTED	UNREPORTED	(N/A)	39.6412	-80.5623	(N/A)	1411.0	0.00	DORGAS GRIM HRS	UNREPORTED-UNREPORTED
30486	47-103-30486-00-00	CALC	UNREPORTED	OIL	EDGAR, C. W.	39.6338	-80.5621	EDGAR, C. W.	1225.9	0.00	JOHN LAVELLE	OIL-UNREPORTED
73434	47-103-73434-00-00	CALC	UNREPORTED	UNREPORTED	(N/A)	39.6443	-80.5717	(N/A)	1320.8	0.00	C & L ANDERSON	UNREPORTED-UNREPORTED
01033	47-103-01033-00-00	ESTIMATED	PRODUCING	OIL & GAS	TRIBUNE RESOURCES, LLC	39.6351	-80.5732	TRIBUNE RESOURCES, LLC	1353.1	3255.00	MOORE, A. C. 3	OIL & GAS-PRODUCING
02490	47-103-02490-00-00	CALC	PERMIT CANCELLED	GAS	CNX GAS COMPANY	39.6548	-80.5778	CNX GAS COMPANY LLC	1315.0	0.00	SAPP, RAY S WZ86	GAS-PERMIT CANCELLED
30314	47-103-30314-00-00	CALC	INACTIVE COMPLETED	GAS	PITTSBURGH & WV GAS	39.6206	-80.5621	PITTSBURGH & WV GAS	1421.4	3450.00	1	GAS-INACTIVE COMPLETED
30570	47-103-30570-00-00	CALC	INACTIVE COMPLETED	GAS	DUNN MAR OIL & GAS CO	39.6098	-80.5472	DUNN-MAR OIL & GAS CO.	1331.5	3466.00	1	GAS-INACTIVE COMPLETED
01736	47-103-01736-00-00	ESTIMATED	PRODUCING	GAS	APPALACHIAN ENERGY	39.6172	-80.5611	DIVERSIFIED PRODUCTION LLC	1428.9	2765.00	LIBERTY 1	GAS-PRODUCING
00665	47-103-00665-00-00	ESTIMATED	DRILLED	GAS	DIVERSIFIED PRODUCTION	39.6366	-80.5642	DIVERSIFIED PRODUCTION LLC	1353.2	0.00	CROSS, NATHAN 477	GAS-DRILLED
01753	47-103-01753-00-00	ESTIMATED	PRODUCING	GAS	APPALACHIAN ENERGY	39.6129	-80.5598	DIVERSIFIED PRODUCTION LLC	995.3	2350.00	WILDMAN 1	GAS-PRODUCING
00702	47-103-00702-00-00	ESTIMATED	PRODUCING	GAS	DIVERSIFIED PRODUCTION	39.6300	-80.5576	DIVERSIFIED PRODUCTION LLC	1142.5	2204.00	LAVELLE, J. 4719	GAS-PRODUCING
02753	47-103-02753-00-00	ESTIMATED	PERMIT EXPIRED	OTHER	GRENADIER ENERGY PARTNERS	39.6785	-80.5975	GRENADIER ENERGY PARTNERS, LLC	1368.2	0.00	CHARLES MUSGRAVE UNIT 4H	OTHER-PERMIT EXPIRED
01756	47-103-01756-00-00	ESTIMATED	PRODUCING	GAS	APPALACHIAN ENERGY	39.6141	-80.5553	DIVERSIFIED PRODUCTION LLC	1051.0	3364.00	BECKETT 1	GAS-PRODUCING
01804	47-103-01804-00-00	ESTIMATED	PRODUCING	GAS	APPALACHIAN ENERGY	39.6181	-80.5473	DIVERSIFIED PRODUCTION LLC	1572.7	3767.00	ANDERSON 1	GAS-PRODUCING
02752	47-103-02752-00-00	ESTIMATED	PERMIT EXPIRED	OTHER	GRENADIER ENERGY PARTNERS	39.6785	-80.5974	GRENADIER ENERGY PARTNERS, LLC	1368.6	0.00	CHARLES MUSGRAVE UNIT 3H	OTHER-PERMIT EXPIRED
02495	47-103-02495-00-00	CALC	PERMIT CANCELLED	GAS	CNX GAS COMPANY	39.6762	-80.5976	CNX GAS COMPANY LLC	1359.9	0.00	DORSEY, ROBERT WZ53A	GAS-PERMIT CANCELLED
01754	47-103-01754-00-00	ESTIMATED	PRODUCING	GAS	APPALACHIAN ENERGY	39.6085	-80.5557	DIVERSIFIED PRODUCTION LLC	1050.2	3388.00	LAUCK 1	GAS-PRODUCING
73423	47-103-73423-00-00	CALC	UNREPORTED	UNREPORTED	(N/A)	39.6492	-80.5721	(N/A)	1401.7	0.00	WILLIAM SAPP	UNREPORTED-UNREPORTED
73473	47-103-73473-00-00	CALC	UNREPORTED	UNREPORTED	(N/A)	39.6276	-80.5541	(N/A)	1251.8	0.00	D P PHILLIPS	UNREPORTED-UNREPORTED
71899	47-103-71899-00-00	CALC	UNREPORTED	UNREPORTED	(N/A)	39.6248	-80.5507	(N/A)	1514.4	0.00	J A TUTTLE	UNREPORTED-UNREPORTED
01737	47-103-01737-00-00	ESTIMATED	PRODUCING	GAS	APPALACHIAN ENERGY	39.6212	-80.5626	DIVERSIFIED PRODUCTION LLC	1430.9	3600.00	LIBERTY 2	GAS-PRODUCING
02400	47-103-02400-00-00	ESTIMATED	PRODUCING	GAS	APPALACHIAN ENERGY	39.6610	-80.5889	DIVERSIFIED PRODUCTION LLC	1321.0	3588.00	GREEN DOT 5	GAS-PRODUCING
02193	47-103-02193-00-00	ESTIMATED	PRODUCING	OIL & GAS	APPALACHIAN ENERGY	39.6791	-80.5970	DIVERSIFIED PRODUCTION LLC	1356.6	3670.00	MUSGRAVE 1	OIL & GAS-PRODUCING
30514	47-103-30514-00-00	CALC	INACTIVE COMPLETED	OIL	MANUFACTURERS LIGHT & HEAT CO	39.6627	-80.5812	MANUFACTURERS LIGHT & HEAT CO.	1366.4	3238.00	E E MOORE	OIL-INACTIVE COMPLETED
73426	47-103-73426-00-00	CALC	UNREPORTED	UNREPORTED	(N/A)	39.6438	-80.5655	(N/A)	1153.9	0.00	AL & MATILDA EFAW	UNREPORTED-UNREPORTED
02751	47-103-02751-00-00	ESTIMATED	PERMIT EXPIRED	OTHER	GRENADIER ENERGY PARTNERS	39.6786	-80.5975	GRENADIER ENERGY PARTNERS, LLC	1368.3	0.00	CHARLES MUSGRAVE UNIT 2H	OTHER-PERMIT EXPIRED
02494	47-103-02494-00-00	CALC	PERMIT CANCELLED	GAS	CNX GAS COMPANY	39.6770	-80.5984	CNX GAS COMPANY LLC	1398.3	0.00	DORSEY, ROBERT WZ53	GAS-PERMIT CANCELLED
73365	47-103-73365-00-00	CALC	UNREPORTED	UNREPORTED	(N/A)	39.6607	-80.5858	(N/A)	1077.1	0.00	WALTER MYERS	UNREPORTED-UNREPORTED
73418	47-103-73418-00-00	CALC	UNREPORTED	UNREPORTED	(N/A)	39.6537	-80.5723	(N/A)	1278.3	0.00	WILLIAM SAPP	UNREPORTED-UNREPORTED
73477	47-103-73477-00-00	CALC	UNREPORTED	UNREPORTED	HOPE NATURAL GAS COMPANY	39.6289	-80.5616	HOPE NATURAL GAS COMPANY	1379.0	0.00	ANTHONY LOVELLE	UNREPORTED-UNREPORTED
73435	47-103-73435-00-00	CALC	UNREPORTED	UNREPORTED	HOPE NATURAL GAS COMPANY	39.6383	-80.5754	HOPE NATURAL GAS COMPANY	1316.6	0.00	A C MOORE	UNREPORTED-UNREPORTED
73471	47-103-73471-00-00	CALC	UNREPORTED	UNREPORTED	(N/A)	39.6328	-80.5484	(N/A)	1250.2	0.00	WM J HIBBS	UNREPORTED-UNREPORTED
01819	47-103-01819-00-00	ESTIMATED	INACTIVE PRODUCER	GAS	EXCEL ENERGY	39.6263	-80.5473	DIVERSIFIED PRODUCTION LLC	1192.3	3470.00	RUSH, RONALD & S. DEBOLT E-244	GAS-INACTIVE PRODUCER
73432	47-103-73432-00-00	CALC	UNREPORTED	UNREPORTED	(N/A)	39.6440	-80.5743	(N/A)	1498.9	0.00	C & L ANDERSON	UNREPORTED-UNREPORTED
02497	47-103-02497-00-00	CALC	PERMIT CANCELLED	GAS	CNX GAS COMPANY	39.6769	-80.5986	CNX GAS COMPANY LLC	1389.2	0.00	DORSEY, ROBERT WZ52A	GAS-PERMIT CANCELLED
73472	47-103-73472-00-00	CALC	UNREPORTED	UNREPORTED	(N/A)	39.6312	-80.5484	(N/A)	1363.4	0.00	ELIJAH BEAN	UNREPORTED-UNREPORTED
01810	47-103-01810-00-00	ESTIMATED	PRODUCING	GAS	APPALACHIAN ENERGY	39.6175	-80.5428	DIVERSIFIED PRODUCTION LLC	1341.0	3681.00	NEWMAN 1	GAS-PRODUCING
71903	47-103-71903-00-00	CALC	UNREPORTED	UNREPORTED	HOPE NATURAL GAS COMPANY	39.6215	-80.5666	HOPE NATURAL GAS COMPANY	1415.0	0.00	J G KIGER	UNREPORTED-UNREPORTED
02491	47-103-02491-00-00	CALC	PERMIT CANCELLED	GAS	CNX GAS COMPANY	39.6557	-80.5785	CNX GAS COMPANY LLC	1379.5	0.00	SAPP, RAY S. WZ86A	GAS-PERMIT CANCELLED
73427	47-103-73427-00-00	CALC	UNREPORTED	UNREPORTED	(N/A)	39.6441	-80.5616	(N/A)	1246.6	0.00	AL & MATILDA EFAW	UNREPORTED-UNREPORTED
31157	47-103-31157-00-00	CALC	UNREPORTED	OIL	SOUTH PENN OIL (S PENN NAT GAS)	39.6546	-80.5748	SOUTH PENN OIL (S. PENN NAT. GAS)	1123.3	3003.00	ELIZABETH SAPP	OIL-UNREPORTED
70380	47-103-70380-00-00	CALC	UNREPORTED	UNREPORTED	(N/A)	39.6263	-80.5465	(N/A)	1134.6	0.00	J B POE	UNREPORTED-UNREPORTED
71900	47-103-71900-00-00	CALC	UNREPORTED	UNREPORTED	HOPE NATURAL GAS COMPANY	39.6219	-80.5535	HOPE NATURAL GAS COMPANY	1467.5	0.00	T E PHILLIPS	UNREPORTED-UNREPORTED
02754	47-103-02754-00-00	ESTIMATED	PERMIT EXPIRED	OTHER	GRENADIER ENERGY PARTNERS	39.6785	-80.5976	GRENADIER ENERGY PARTNERS, LLC	1366.8	0.00	CHARLES MUSGRAVE UNIT 5H	OTHER-PERMIT EXPIRED
73433	47-103-73433-00-00	CALC	UNREPORTED	UNREPORTED	(N/A)	39.6441	-80.5726	(N/A)	1386.8	0.00	C & L ANDERSON	UNREPORTED-UNREPORTED
73367	47-103-73367-00-00	CALC	UNREPORTED	UNREPORTED	MANUFACTURERS LIGHT & HEAT CO	39.6554	-80.5886	MANUFACTURERS LIGHT & HEAT CO.	1134.0	0.00	PATRICK CLARK	UNREPORTED-UNREPORTED
73404	47-103-73404-00-00	CALC	UNREPORTED	UNREPORTED	(N/A)	39.6421	-80.5781	(N/A)	1280.5	0.00	E E MOORE	UNREPORTED-UNREPORTED
73431	47-103-73431-00-00	CALC	UNREPORTED	UNREPORTED	HOPE NATURAL GAS COMPANY	39.6416	-80.5743	HOPE NATURAL GAS COMPANY	1299.6	0.00	E E MOORE	UNREPORTED-UNREPORTED
73486	47-103-73486-00-00	CALC	UNREPORTED	UNREPORTED	HOPE NATURAL GAS COMPANY	39.6315	-80.5649	HOPE NATURAL GAS COMPANY	1276.0	0.00	J P MORGAN	UNREPORTED-UNREPORTED

WV Department of Environmental Protection  
 Office of Oil and Gas

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 Office of Oil and Gas  
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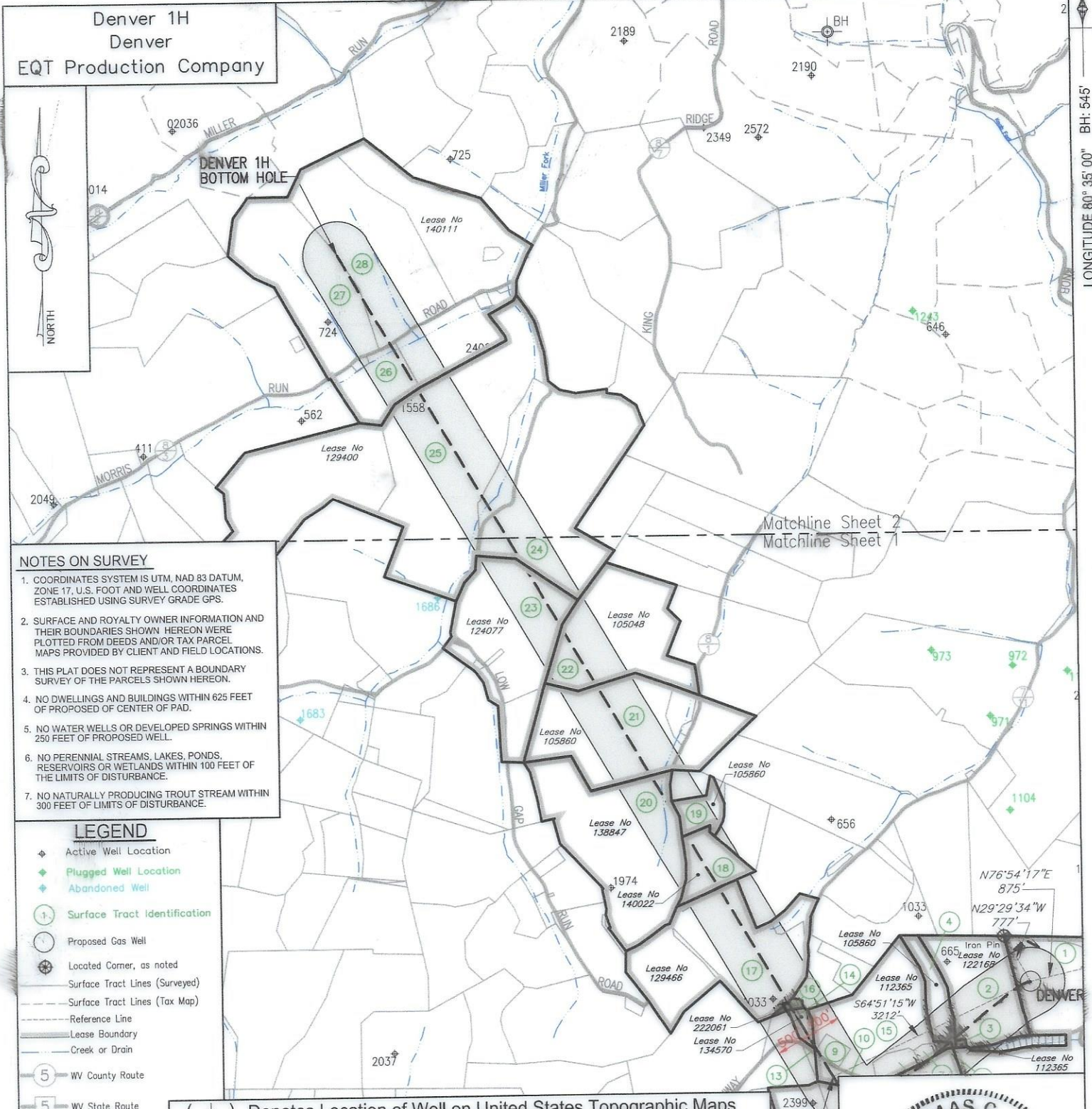


70368	47-103-70368-00-00	CALC	UNREPORTED	UNREPORTED	(N/A)	39.6643	-80.5873	(N/A)	1071.6	0.00	J J MORRIS	UNREPORTED-UNREPORTED
70382	47-103-70382-00-00	CALC	UNREPORTED	UNREPORTED	SOUTH PENN OIL (S PENN NAT GAS)	39.6145	-80.5430	SOUTH PENN OIL (S. PENN NAT. GAS)	1628.4	0.00	MARY LLOYD	UNREPORTED-UNREPORTED
73475	47-103-73475-00-00	CALC	UNREPORTED	UNREPORTED	CNG DEVELOPMENT	39.6267	-80.5572	CNG DEVELOPMENT CO.	1497.5	0.00	HENRY UTT	UNREPORTED-UNREPORTED
73422	47-103-73422-00-00	CALC	UNREPORTED	UNREPORTED	HOPE NATURAL GAS COMPANY	39.6477	-80.5644	HOPE NATURAL GAS COMPANY	1338.1	0.00	ALFRED EFAW	UNREPORTED-UNREPORTED
70114	47-103-70114-00-00	CALC	COMPLETED	OIL	SOUTH PENN OIL (S PENN NAT GAS)	39.6427	-80.5777	SOUTH PENN OIL (S. PENN NAT. GAS)	1283.8	3157.00	2	OIL-COMPLETED
01558	47-103-01558-00-00	CALC	INACTIVE PRODUCER	OIL & GAS	GREEN DOT FARMS INC	39.6595	-80.5920	HORNER OIL AND GAS PRODUCTION, INC.	1350.5	3080.00	GREEN DOT FARMS, INC. 1	OIL & GAS-INACTIVE PRODUCER
30518	47-103-30518-00-00	CALC	INACTIVE COMPLETED	OIL	UNION GASOLINE & OIL CO	39.6530	-80.5873	UNION GASOLINE & OIL CORP.	1232.5	3347.00	MAGGIE CULLINAN 1	OIL-INACTIVE COMPLETED
01972	47-103-01972-00-00	ESTIMATED	PRODUCING	GAS	APPALACHIAN ENERGY	39.6384	-80.5657	DIVERSIFIED PRODUCTION LLC	1520.0	3719.00	PAYNE 1	GAS-PRODUCING
71902	47-103-71902-00-00	CALC	UNREPORTED	UNREPORTED	HOPE NATURAL GAS COMPANY	39.6190	-80.5583	HOPE NATURAL GAS COMPANY	1217.7	0.00	LEROY TAYLOR	UNREPORTED-UNREPORTED
73428	47-103-73428-00-00	CALC	UNREPORTED	UNREPORTED	HOPE NATURAL GAS COMPANY	39.6422	-80.5646	HOPE NATURAL GAS COMPANY	1332.7	0.00	W J MOORE	UNREPORTED-UNREPORTED
31220	47-103-31220-00-00	CALC	INACTIVE COMPLETED	GAS	CONSOLIDATED GAS SUPPLY	39.6330	-80.5668	CONSOLIDATED GAS SUPPLY CORP.	1261.8	3079.00	M B CROSS	GAS-INACTIVE COMPLETED
73414	47-103-73414-00-00	CALC	UNREPORTED	UNREPORTED	(N/A)	39.6535	-80.5775	(N/A)	1205.4	0.00	JOE ANDERSON	UNREPORTED-UNREPORTED
73417	47-103-73417-00-00	CALC	UNREPORTED	UNREPORTED	(N/A)	39.6560	-80.5738	(N/A)	1223.7	0.00	A T CAIN	UNREPORTED-UNREPORTED
71935	47-103-71935-00-00	CALC	UNREPORTED	UNREPORTED	(N/A)	39.6087	-80.5501	(N/A)	1374.3	0.00	M J ANDERSON	UNREPORTED-UNREPORTED
01750	47-103-01750-00-00	ESTIMATED	PRODUCING	GAS	APPALACHIAN ENERGY	39.6270	-80.5638	DIVERSIFIED PRODUCTION LLC	1387.2	3711.00	GREEN DOT 1	GAS-PRODUCING
30807	47-103-30807-00-00	CALC	INACTIVE COMPLETED	GAS	MANUFACTURERS LIGHT & HEAT CO	39.6633	-80.5918	MANUFACTURERS LIGHT & HEAT CO.	1204.3	2460.00	ANDREW CLARK 1	GAS-INACTIVE COMPLETED
73366	47-103-73366-00-00	CALC	UNREPORTED	UNREPORTED	(N/A)	39.6563	-80.5876	(N/A)	1105.0	0.00	PATRICK CLARK	UNREPORTED-UNREPORTED
01803	47-103-01803-00-00	ESTIMATED	PRODUCING	GAS	APPALACHIAN ENERGY	39.6225	-80.5450	DIVERSIFIED PRODUCTION LLC	1335.0	3334.00	SHOWALTER 1	GAS-PRODUCING
02496	47-103-02496-00-00	CALC	PERMIT CANCELLED	GAS	CNX GAS COMPANY	39.6761	-80.5977	CNX GAS COMPANY LLC	1349.8	0.00	DORSEY, ROBERT WZ52	GAS-PERMIT CANCELLED
70379	47-103-70379-00-00	CALC	UNREPORTED	UNREPORTED	HOPE GAS	39.6283	-80.5621	HOPE GAS, INC.	1288.7	0.00	JOHN LAVELLE	UNREPORTED-UNREPORTED
73438	47-103-73438-00-00	CALC	UNREPORTED	UNREPORTED	(N/A)	39.6425	-80.5617	(N/A)	1333.2	0.00	J C MOORE	UNREPORTED-UNREPORTED

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 Office of Oil and Gas  
 MAY 24 2023  
 WV Department of  
 Environmental Protection



Denver 1H  
Denver  
EQT Production Company



**NOTES ON SURVEY**

1. COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
2. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS.
3. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. NO DWELLINGS AND BUILDINGS WITHIN 625 FEET OF PROPOSED OF CENTER OF PAD.
5. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
6. NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
7. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

**LEGEND**

- ◆ Active Well Location
- ◆ Plugged Well Location
- ◆ Abandoned Well
- ① Surface Tract Identification
- Proposed Gas Well
- ⊕ Located Corner, as noted
- Surface Tract Lines (Surveyed)
- - - Surface Tract Lines (Tax Map)
- - - Reference Line
- Lease Boundary
- Creek or Drain
- ⑤ WV County Route
- ⑤ WV State Route

( ⊕ ) Denotes Location of Well on United States Topographic Maps



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.

*Thomas C. Smit*

L. L. S. 687



SEAL

FILE NO: \_\_\_\_\_  
 DRAWING NO: \_\_\_\_\_  
 SCALE: 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY: 1:2500  
 PROVEN SOURCE OF ELEVATION: NGS CORS Station

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

DATE: MAY 02 20 23  
 OPERATORS WELL NO: Denver 1H  
 API WELL NO  
 47 - 103 - 03513  
 STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW

LOCATION ELEVATION: 1,351' WATERSHED: LOWER WEST VIRGINIA FORK FISH CREEK QUADRANGLE: LITTLETON  
 DISTRICT: Center COUNTY: Wetzel

SURFACE OWNER: EQT Production Company ACREAGE: 147.39 ±  
 ROYALTY OWNER: Bounty Minerals, LLC, et al. LEASE NO: 124506 ACREAGE: 128 ±

PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY)

PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 7,471'

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C Mallow  
 ADDRESS: 400 Woodcliff Drive ADDRESS: 427 Midstate Drive  
 Canonsburg, PA 15317 Clarksburg, WV 26301

06/16/2023



Denver 1H  
Denver  
EQT Production Company



Matchline Sheet 2  
Matchline Sheet 1

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**LEGEND**

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- ◆ Plugged Well Location
- ⊖ Abandoned Well
- ① Surface Tract Identification
- Proposed Gas Well
- ⊗ Located Corner, as noted
- Surface Tract Lines (Surveyed)
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- Lease Boundary
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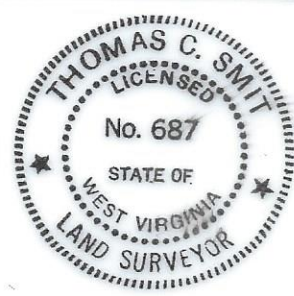
( ⊕ ) Denotes Location of Well on United States Topographic Maps



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.

*Thomas C. Smit*

L. L. S. 687



SEAL

FILE NO: \_\_\_\_\_  
 DRAWING NO: \_\_\_\_\_  
 SCALE: 1" = 2000'  
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 PROVEN SOURCE OF ELEVATION: NGS CORS Station



DATE: MAY 02 20 23  
 OPERATORS WELL NO: Denver 1H  
 API WELL NO: 47 - 103 - 03513  
 STATE COUNTY PERMIT

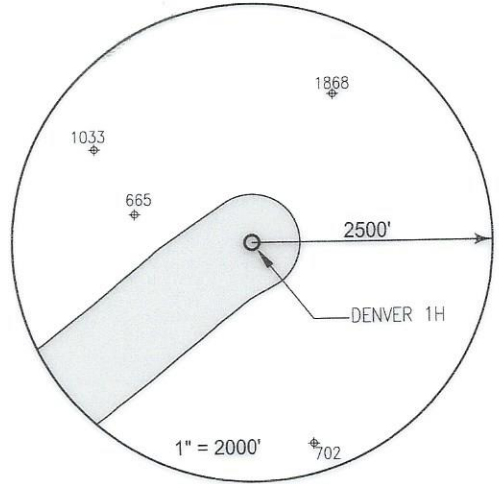
WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
 LOCATION ELEVATION: 1,351' WATERSHED: LOWER WEST VIRGINIA FORK FISH CREEK QUADRANGLE: LITTLETON  
 DISTRICT: Center COUNTY: Wetzel  
 SURFACE OWNER: EQT Production Company  
 ROYALTY OWNER: Bounty Minerals, LLC, et al. LEASE NO: 124506 ACREAGE: 128±  
 PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY)  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 7,471'  
 WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C Mallow  
 ADDRESS: 400 Woodcliff Drive ADDRESS: 427 Midstate Drive  
 Canonsburg, PA 15317 Clarksburg, WV 26301

06/16/2023



Denver 1H  
Denver  
EQT Production Company

Tract ID.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	16	38.0	Wetzel	Center	EQT Production Company	117.39
2	15	41.0	Wetzel	Center	Margo Coman	39.00
3	15	49.0	Wetzel	Center	Margo Coman	0.42
4	15	40.0	Wetzel	Center	Donald D. & Desiree J. Shreve	31.25
5	15	63.0	Wetzel	Center	Lora J. Whiteman	22.50
6	15	39.2	Wetzel	Center	Donald D. & Desiree J. Shreve	0.77
7	15	39.3	Wetzel	Center	Garold C. & Debra L. Postliethwait	1.49
8	15	39.0	Wetzel	Center	Brian K. Titus	5.50
9	15	39.5	Wetzel	Center	Brian K. Titus	3.00
10	15	39.1	Wetzel	Center	David R. & Lana S. White	5.22
11	15	62.0	Wetzel	Center	Lora J. Whiteman	60.76
12	15	62.1	Wetzel	Center	David R. & Lana S. White	4.99
13	15	48.0	Wetzel	Center	Margo Coman	2.40
14	15	36.0	Wetzel	Center	Randy C. & Windy A. Huggins	2.60
15	15	39.4	Wetzel	Center	Randy C. & Windy A. Huggins	48.77
16	15	37.0	Wetzel	Center	Low Gap Community Church	0.34
17	15	34.0	Wetzel	Center	George E. Richard E Firmstone & Emerson Zelmere	48.87
18	15	23.0	Wetzel	Center	Eugene C. Sole & Thomas E. Sole	17.80
19	15	4.0	Wetzel	Center	Ray S. Sapp & Charles Roberts	7.70
20	15	21.0	Wetzel	Center	Ray S. Sapp	89.29
21	15	4.7	Wetzel	Center	Bary L. & Rita A. Clark	67.50
22	11	36.0	Wetzel	Center	Arnold Elmus Hartley	67.50
23	11	31.0	Wetzel	Center	Georgia M. & Gerald F. Rice	61.41
24	11	20.0	Wetzel	Center	Green Dot Farm Inc	108.00
25	11	16.0	Wetzel	Center	Green Dot Farm Inc	158.00
26	11	15.0	Wetzel	Center	Green Dot Farm Inc	132.00
27	11	1.0	Wetzel	Center	Hubert Morris & Billy Morris	43.00
28	11	2.0	Wetzel	Center	EQT Production Company	82.00



Lease	Owner	Acres
124506	Bounty Minerals, LLC, et al.	128 ac
122168	Ridgetop Royalties, LLC	40 ac
105860	Stone Hill Mineral Holdings, LLC	1,694.69 ac
112365	Ridgetop Royalties, LLC, et al.	59.66 ac
104573	Amie N. Ely and Daniel B. Whiteman	94.06 ac
215759	David R. White and Lana S. White, JTRCS	4.995 ac
134570	Patricia L. Kennedy, et al.	3.14 ac
222061	Dale Ioe	0.375 ac
129466	Alisa Faye Sundy, et al.	84 ac
140022	Forrest O. Miller, et al.	91.36 ac
138847	Ray S. Sapp	97 ac
105048	Stone Hill Minerals Holdings, LLC, et al.	67.5 ac
124077	SW2 Minerals, LLC, et al.	72.5 ac
129400	Timothy J. Ashcraft, et al.	398 ac
140111	TH Exploration II, LLC, et al.	233 ac

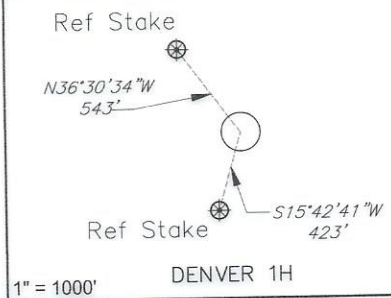
**Notes:**  
DENVER 1H Top Hole coordinates are  
NAD 27 N: 415,406.653 E: 1,701,457.507  
NAD 27 Lat: 39.635696 Long: -80.560051  
NAD 83 UTM N: 4,387,425.983 E: 537,769.153

DENVER 1H Landing Point coordinates are  
NAD 27 N: 414,041.721 E: 1,698,549.689  
NAD 27 Lat: 39.631854 Long: -80.570317  
NAD 83 UTM N: 4,386,995.323 E: 536,890.166

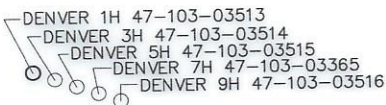
DENVER 1H Bottom Hole coordinates are  
NAD 27 N: 426,236.348 E: 1,691,467.211  
NAD 27 Lat: 39.665097 Long: -80.595990  
NAD 83 UTM N: 4,390,674.466 E: 534,670.486

West Virginia Coordinates system of 1927 (North Zone)  
based upon Differential GPS Measurements  
Plat orientation, Corner and well ties are based upon  
the grid north meridian  
Well location references are based upon the grid north  
meridian.  
UTM coordinates are NAD83, Zone 17, Meters.

**Well References**



**DENVER PAD**



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.

*L. L. S. 687*  
L. L. S. 687



SEAL

FILE NO: \_\_\_\_\_  
DRAWING NO: \_\_\_\_\_  
SCALE: 1" = 1000'  
MINIMUM DEGREE OF ACCURACY: 1:2500  
PROVEN SOURCE OF ELEVATION: NGS CORS Station



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OPERATORS WELL NO: Denver 1H  
API WELL NO: 47 - 103 - 03513  
STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
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LOCATION ELEVATION: 1,351' WATERSHED: LOWER WEST VIRGINIA FORK FISH CREEK QUADRANGLE: LITTLETON  
DISTRICT: Center COUNTY: Wetzel

SURFACE OWNER: EQT Production Company ACREAGE: 128 ±  
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 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 7,471'

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C Mallow  
ADDRESS: 400 Woodcliff Drive ADDRESS: 427 Midstate Drive  
Canonsburg, PA 15317 Clarksburg, WV 26301

06/16/2023



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

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

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

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

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WV Department of  
Environmental Protection

**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: EQT Production Company

By: John Zavatchan

Its: Project Specialist - Permitting

Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
				"at least 1/8th per WV Code 22-6-8"	
✓ <u>124506</u>	<b>Bounty Minerals, LLC, et al.</b> John Lavelle and Sarah Lavelle, his wife R. L. Hoskinson Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation Eastern States Oil & Gas, Inc. Blazer Energy Corp. Eastern States Oil & Gas, Inc. Equitable Production-Eastern States, Inc. Equitable Production-Eastern States, Inc. Equitable Production Company Appalachian Natural Gas Trust	128 ac	R.L. Hoskinson Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation Eastern States Oil & Gas, Inc. Blazer Energy Corp. Eastern States Oil & Gas, Inc. Equitable Production-Eastern States, Inc. Appalachian Natural Gas Trust Equitable Production Company EQT Production Company EQT Production Company		OG 7A/70 OG 8A/91 DB 233/387 OG 66A/69 Corp. Book 13/151 OG 76A/232 Corp. Book 12/253 Corp. Book 12/259 WV SOS OG 79A/244 WV SOS Corp. Book 13/14 Misc. Book 96/505
				"at least 1/8th per WV Code 22-6-8"	
✓ <u>122168</u>	<b>Ridgetop Royalties, LLC</b> Nathan Cross and Elizabeth Cross, his wife South Penn Oil Company Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation Eastern States Oil & Gas, Inc. Blazer Energy Corp. Eastern States Oil & Gas, Inc. Equitable Production-Eastern States, Inc. Equitable Production-Eastern States, Inc. Equitable Production Company Appalachian Natural Gas Trust	40 ac	South Penn Oil Company Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation Eastern States Oil & Gas, Inc. Blazer Energy Corp. Eastern States Oil & Gas, Inc. Equitable Production-Eastern States, Inc. Appalachian Natural Gas Trust Equitable Production Company EQT Production Company EQT Production Company		DB 46/318 OG 9A/230 DB 233/387 OG 66A/69 Corp. Book 13/151 OG 76A/232 Corp. Book 12/253 Corp. Book 12/259 WV SOS OG 79A/244 WV SOS Corp. Book 13/14 Misc. Book 96/505
				"at least 1/8th per WV Code 22-6-8"	
✓ <u>105860</u>	<b>Stone Hill Mineral Holdings, LLC</b> Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	1,694.69 ac	SWN Production Company, LLC Antero Exchange Properties LLC		OG 166A/931 OG 177A/533

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	Antero Exchange Properties LLC Antero Resources Corporation		Antero Resources Corporation EQT Production Company	Corp. Book 13/311 OG 231A/59
				"at least 1/8th per WV Code 22-6-8"
✓ <u>112365</u>	<b><u>Ridgetop Royalties, LLC, et al.</u></b> Ridgetop Royalties, LLC Antero Resources Corporation	59.66 ac	Antero Resources Corporation EQT Production Company	OG 200A/638 OG 231A/59
				"at least 1/8th per WV Code 22-6-8"
✓ <u>104573</u>	<b><u>Amie N. Ely and Daniel B. Whiteman</u></b> Martin R. Whiteman and Lora J. Whiteman, JTROS Drilling Appalachian Corporation Grenadier Energy Partners, LLC Drilling Appalachian Corporation Statoil USA Onshore Properties Inc.	94.06 ac	Drilling Appalachian Corporation Grenadier Energy Partners, LLC Statoil USA Onshore Properties Inc. Statoil USA Onshore Properties Inc. EQT Production Company	OG 93A/67 OG 118A/108 & 136A/538 OG 138A/1 OG 138A/54 OG 175A/707
				"at least 1/8th per WV Code 22-6-8"
✓ <u>215759</u>	<b><u>David R. White and Lana S. White, JTROS</u></b> David R. White and Lana S. White, husband and wife	4.995 ac	EQT Production Company	OG 274A/373
				"at least 1/8th per WV Code 22-6-8"
✓ <u>134570</u>	<b><u>Patricia L. Kennedy, et al.</u></b> Patricia L. Kennedy, a single woman	3.14 ac	EQT Production Company	OG 225A/223
				"at least 1/8th per WV Code 22-6-8"
✓ <u>222061</u>	<b><u>Dale Ice</u></b> Dale Ice	0.375 ac	EQT Production Company	OG 298A/212
				"at least 1/8th per WV Code 22-6-8"
✓ <u>129466</u>	<b><u>Alisa Faye Sundy, et al.</u></b> A. C. Moore and Nancy Moore, his wife South Penn Oil Company Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Producing Company, successor in title by merger with CNG Development Company Dominion Exploration & Production, Inc., et al Dominion Exploration & Production, Inc., et al Consol Gas Company CNX Gas Company, LLC	84 ac	South Penn Oil Company Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Development Company Dominion Exploration & Production, Inc. Antero Resources Appalachian Corporation Consol Gas Company CNX Gas Company, LLC Antero Resources Appalachian Corporation	DB 67/105 DB 88/589 DB 233/387 OG 66A/69 OG 67A/453 WV SOS OG 95A/937 Corp. Book 13/108 Misc. Book 96/307 OG 126A/602

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	Antero Resources Appalachian Corporation Antero Resources Corporation Statoil USA Onshore Properties Inc. Statoil USA Onshore Properties Inc. Equinor USA Onshore Properties Inc.		Antero Resources Corporation Statoil USA Onshore Properties Inc. Equinor USA Onshore Properties Inc. Equinor USA Onshore Properties Inc. EQT Production Company	Misc. Book 121/8 OG 175A/531 Corp. Book 13/418 Misc. Book 129/313 OG 232A/377
				"at least 1/8th per WV Code 22-6-8"
✓ <u>140022</u>	<b><u>Forrest O. Miller, et al.</u></b> Forrest O. Miller TH Exploration, LLC	91.36 ac	TH Exploration, LLC EQT Production Company	OG 195A/306 & OG 209A/790 OG 258A/333
				"at least 1/8th per WV Code 22-6-8"
✓ <u>138847</u>	<b><u>Ray S. Sapp</u></b> Ray S. Sapp Drilling Appalachian Corporation Grenadier Energy Partners, LLC Drilling Appalachian Corporation Statoil USA Onshore Properties Inc.	97 ac	Drilling Appalachian Corporation Grenadier Energy Partners, LLC Statoil USA Onshore Properties Inc. Statoil USA Onshore Properties Inc. EQT Production Company	OG 102A/894 OG 127A/219 & 136A/538 OG 138A/1 OG 138A/54 OG 175A/707
				"at least 1/8th per WV Code 22-6-8"
<u>105048</u>	<b><u>Stone Hill Minerals Holdings, LLC, et al.</u></b> Stone Hill Minerals Holdings, LLC	67.5 ac	EQT Production Company	OG 185A/607
				"at least 1/8th per WV Code 22-6-8"
✓ <u>124077</u>	<b><u>SW2 Minerals, LLC, et al.</u></b> SW2 Minerals, LLC	72.5 ac	EQT Production Company	OG 271A/660
				"at least 1/8th per WV Code 22-6-8"
✓ <u>129400</u>	<b><u>Timothy J. Ashcraft, et al.</u></b> Timothy J. Ashcraft, a married man dealing in his sole and separate property	398 ac	EQT Production Company	OG 252A/706
				"at least 1/8th per WV Code 22-6-8"
✓ <u>140111</u>	<b><u>TH Exploration II, LLC, et al.</u></b> TH Exploration II, LLC TH Exploration, LLC	233 ac	TH Exploration, LLC EQT Production Company	OG 252A/110 OG 258A/333



May 22, 2023

Mr. Taylor Brewer  
West Virginia Department of Environmental Protection  
Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304

Re: Denver 1H 6A1 Addendum

Dear Mr. Brewer,

This letter and supporting documentation serve as EQT Production Company's addendum to the WW-6A1 form associated with this well. The lease included on this addendum is a lease in which EQT "claims the right to extract, produce or market the oil or gas", but does not propose to encounter the lease with the proposed wellbore. EQT would like to report this lease as part of our Well Work Permit Application, as it is located within 50' of our proposed permitted wellbore.

If EQT does encounter this lease, an application for a permit modification will be filed with the West Virginia DEP, Office of Oil and Gas.

If you have any questions, please do not hesitate to contact me at 724-746-9073.

Sincerely,

A handwritten signature in blue ink, appearing to read 'John Zavatchan'.

John Zavatchan  
Project Specialist - Permitting

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Enc.

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Denver 1H  
Denver  
EQT Production Company

1-15-37  
Lease No  
222061

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WV Department of  
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DENVER 1H

1-15-47.2

1-15-36  
Lease No  
134570

19'

1-15-48  
Lease No  
136372

1-15-39.5

1-15-47.1

06/16/2023

FILE NO: \_\_\_\_\_  
DRAWING NO: \_\_\_\_\_  
SCALE: 1" = 100'  
MINIMUM DEGREE OF ACCURACY:  
1:2500  
PROVEN SOURCE OF ELEVATION:  
NGS CORS Station



DATE: APRIL 26 20 23  
OPERATORS WELL NO: DENVER 1H  
API WELL NO  
47 - 103 - 03513  
STATE COUNTY PERMIT

Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
✓ <u>136372</u>	<u>DWG Oil and Gas Acquisitions, LLC, et al.</u> DWG Oil and Gas Acquisitions, LLC Antero Resources Corporation	2.375 ac	Antero Resources Corporation EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 208A/506 OG 231A/59

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**Denver**

**Surface Owners:**

- EQT Production Company  
400 Woodcliff Drive  
Canonsburg, PA 15317  
01-16-38
- Margo Zandarski FKA Margo Coman  
13886 Convey Rd.  
Buchanan, MI 49107  
01-15-41
- Donald D. and Desiree J. Shreve  
22385 Mountaineer HWY.  
Littleton, WV 26581  
01-15-40
- Donald E. and Misty D. Moore  
530 Camp Run Rd.  
Littleton, WV 26581  
01-15-25
- Kevin Pyles  
390 Bear Run Rd.  
Littleton, WV 26581  
01-15-25.2 / 01-15-25.5
- Patricia L. Kennedy  
390 Bear Run Rd.  
Littleton, WV 26581  
01-15-38
- Thomas Moore and Cora Lynn Childers  
141 Avian Dr. #3806  
Sunset Beach, NC 28468  
01-15-26

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Canonsburg, PA 15317

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13886 Convey Rd.  
Buchanan, MI 49107

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22385 Mountaineer Hwy  
Littleton, WV 26581

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530 Camp Run Rd.  
Littleton, WV 26581

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Total Postage and Fees	\$9.00	

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390 Bear Run Rd.  
Littleton, WV 26581

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<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$1.50	
Total Postage and Fees	\$9.00	

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390 Bear Run Rd.  
Littleton, WV 26581

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\$	\$3.35
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
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<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$1.50
\$	
Total Postage and Fees	\$9.00
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Sent To	
Street	Thomas Moore and Cora Lynn Childers
City, St	141 Avian Drive, Condo #3806
PS Fo	Sunset Beach, NC 28468

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PS Form 3849, Rev. 11-15-2019

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May 23, 2023

Via FedEx Overnight Delivery

West Virginia Department of Environmental Protection  
Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304

CR# 5971310  
2500.00

RE: Horizontal Well Work Permit Application Modification  
Denver 1H  
Permit Number 47-103-03513  
Center District, Wetzel County, WV

WVDEP Recipient,

Attached please find the Well Work Permit Application for the well referenced above. You will find the following included with this submittal:

- Check in the amount \$2,500.00 for the permit fee
- Completed WW-6B and supporting documents, approved by the O&G Inspector
- Well Location Plat
- Completed Form WW-6A1 and supporting documentation including Addendum
- Notification Information (AST Modification)
- Hydraulic Fracturing Monitoring Plan
- Offset Well Map and Table
- DVD containing the revised Water Management Plan and Site Plans including AST

EQT is proposing to extend the lateral from the previously permitted length as well as adding an AST.

EQT Production trusts that if any portion of the submitted documentation is found to be inadequate for processing the permit, notification will be made to our Permitting department at your earliest convenience. It is EQT Production's intent to cooperate fully to provide any additional requested documentation and clarification in a timely manner such that permitting proceeds in a predictable and logical manner.

Best Regards,

John Zavatchan  
Project Specialist – Permitting  
[jzavatchan@eqt.com](mailto:jzavatchan@eqt.com)  
724-746-9073

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