



west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

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 5H
47-103-03515-00-00

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 5H
Farm Name: AUDREY L LAVELLE
U.S. WELL NUMBER: 47-103-03515-00-00
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: 5H 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 Oil Underground Storage

Other

(b) If Gas Shallow Deep

Horizontal

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
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: 26,514'

11) Proposed Horizontal Leg Length: 18,496'

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

(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 Bare	85.6	40	40	49 ft ³ / CTS
Fresh Water	13 3/8	New	J-55	54.5	1194	1194	1085 ft ³ / CTS
Coal							
Intermediate	9 5/8	New	J-55	36	2620	2620	1010 ft ³ / CTS
Production	6	New	P-110	24	26514	26514	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:				
Sizes:				
Depths Set:				

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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

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

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23) Describe centralizer placement for each casing string:

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- 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.

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

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.

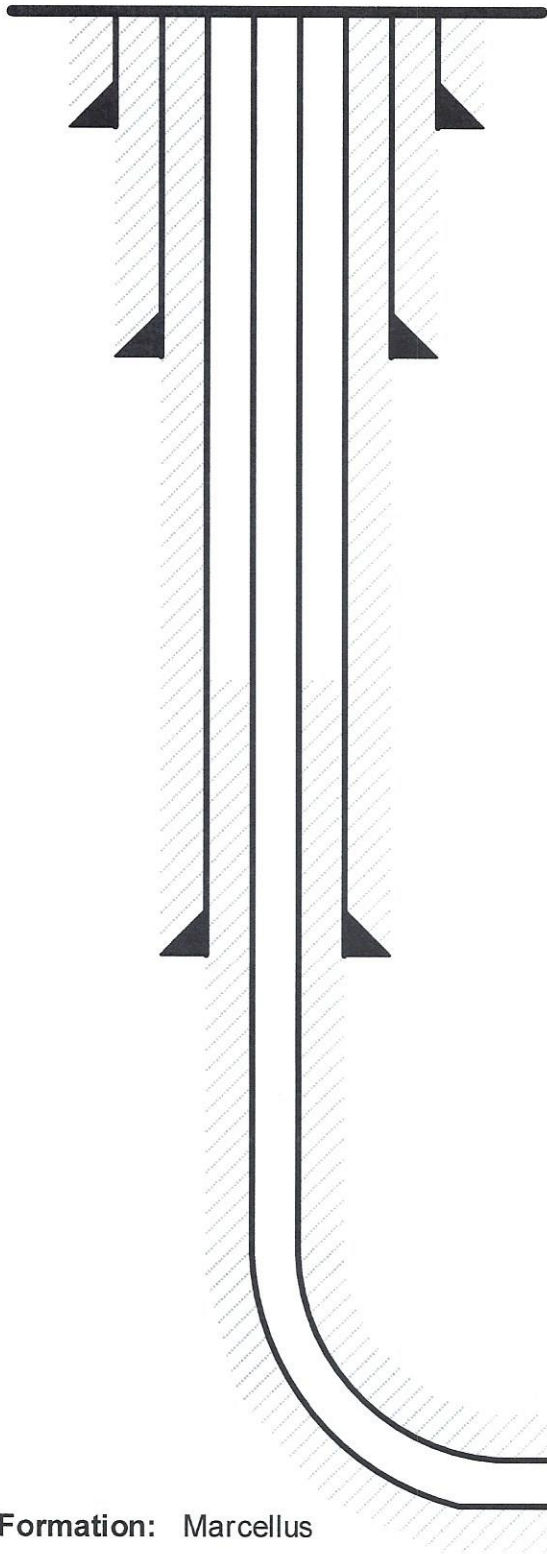
*Note: Attach additional sheets as needed.

EQT Production

Wellbore Diagram

Well: Denver 5H
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 @ 26,514' 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

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WEST VIRGINIA GEOLOGICAL PROGNOSIS

Horizontal Well

Pad Name: DENVER

Drilling Objectives:

Quad:

County:

Elevation:

Recommended Azimuth

Marcellus

Littleton

Wetzel

1379 KB

315 Degrees

1351 GL

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		4710302580		Lithology	Comments
	Top (TVD)	Base (TVD)	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 Speechley	3851	3841			Silty sand	
Speechley	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	
Genesoo	7297	7325			Black Shale	
Tully	7325	7348			Limestone	
Hamilton	7348	7454			Gray shale with some	
Marcellus	7454	7504			Black Shale	
-Parcell	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
Conductor:	24"			40
Freshwater / Coal:	13 3/8"			1166
Intermediate 1:	9 5/8"			2577
Production:	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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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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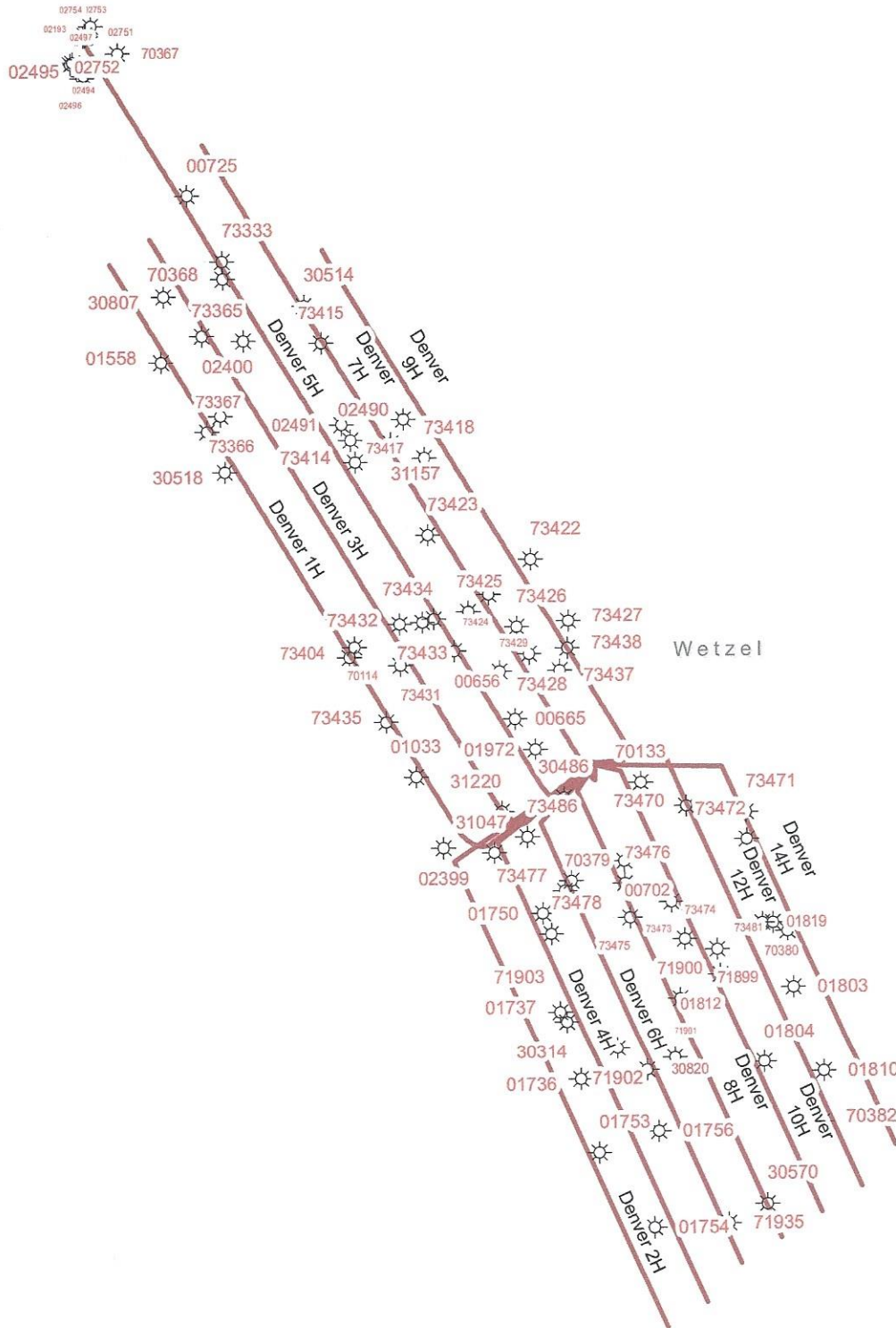
47 10 3035 15

API_UWI_14	ENVOperato	ENVWellSta	InitialOpe	Latitude	Longitude	RawOperato	ENVEleva_2	TVD_FT	WellName
47-103-70367-00-00	KANAWHA DRILLING CO.	UNREPORTED	KANAWHA DRILLING CO.	39.6775	-80.5950	KANAWHA DRILLING CO.	1264.97	0.00	S F HIGGINS
47-103-73476-00-00	(N/A)	UNREPORTED	(N/A)	39.6287	-80.5576	(N/A)	1212.50	0.00	W J HIBBS
47-103-02399-00-00	DIVERSIFIED ENERGY	PRODUCING	APPALACHIAN ENERGY	39.6309	-80.5712	DIVERSIFIED PRODUCTION LLC	1380.15	3595.00	WHITEMAN 1
47-103-73425-00-00	(N/A)	UNREPORTED	(N/A)	39.6447	-80.5691	(N/A)	1201.40	0.00	AL & MATILDA EFAW
47-103-73415-00-00	MANUFACTURERS LIGHT & HEAT CO	UNREPORTED	MANUFACTURERS LIGHT & HEAT CO	39.6605	-80.5799	MANUFACTURERS LIGHT & HEAT CO.	1318.63	0.00	PATRICK CLARK
47-103-73478-00-00	BP	UNREPORTED	HOPE NATURAL GAS COMPANY	39.6258	-80.5632	HOPE NATURAL GAS COMPANY	1233.14	0.00	ANTHONY LOVELLE
47-103-01812-00-00	DIVERSIFIED ENERGY	PRODUCING	APPALACHIAN ENERGY	39.6233	-80.5505	DIVERSIFIED PRODUCTION LLC	1543.68	3757.00	KRECA 1
47-103-71901-00-00	PHILADELPHIA OIL CO	UNREPORTED	PHILADELPHIA OIL	39.6184	-80.5540	PHILADELPHIA OIL CO.	1094.94	0.00	W P HUBBARD
47-103-73429-00-00	BP	UNREPORTED	HOPE NATURAL GAS COMPANY	39.6412	-80.5668	HOPE NATURAL GAS COMPANY	1297.47	0.00	JAMES PAYNE
47-103-73481-00-00	(N/A)	UNREPORTED	(N/A)	39.6258	-80.5454	(N/A)	1148.09	0.00	J B POE
47-103-73474-00-00	BP	UNREPORTED	HOPE NATURAL GAS COMPANY	39.6254	-80.5531	HOPE NATURAL GAS COMPANY	1313.24	0.00	HENRY UTT
47-103-31047-00-00	BP	UNREPORTED	HOPE NATURAL GAS COMPANY	39.6306	-80.5674	HOPE NATURAL GAS COMPANY	1285.57	0.00	ALEX SAFFS
47-103-73424-00-00	(N/A)	UNREPORTED	(N/A)	39.6457	-80.5676	(N/A)	1223.97	0.00	AL & MATILDA EFAW
47-103-73470-00-00	(N/A)	UNREPORTED	(N/A)	39.6332	-80.5529	(N/A)	1206.43	0.00	D P PHILLIPS
47-103-73333-00-00	(N/A)	UNREPORTED	(N/A)	39.6653	-80.5873	(N/A)	1159.37	0.00	JONATHAN H ROSE
47-103-30820-00-00	PHILADELPHIA OIL CO	INACTIVE COMPLETED	PHILADELPHIA OIL	39.6177	-80.5561	PHILADELPHIA OIL CO.	1113.56	3106.00	2
47-103-70133-00-00	SOUTH PENN OIL (S. PENN NAT. GAS)	UNREPORTED	SOUTH PENN OIL (S PENN NAT GAS)	39.6346	-80.5563	SOUTH PENN OIL (S. PENN NAT. GAS)	1093.37	0.00	JOHN LAVELLE
47-103-73437-00-00	(N/A)	UNREPORTED	(N/A)	39.6412	-80.5623	(N/A)	1411.04	0.00	DORGAS GRIM HRS
47-103-30486-00-00	EDGAR, C. W.	UNREPORTED	EDGAR, C. W.	39.6338	-80.5621	EDGAR, C. W.	1225.89	0.00	JOHN LAVELLE
47-103-73434-00-00	(N/A)	UNREPORTED	(N/A)	39.6443	-80.5717	(N/A)	1320.80	0.00	C & L ANDERSON
47-103-01033-00-00	TRIBUNE RESOURCES	PRODUCING	TRIBUNE RESOURCES, LLC	39.6351	-80.5732	TRIBUNE RESOURCES, LLC	1353.09	3255.00	MOORE, A. C. 3
47-103-02490-00-00	CNX	PERMIT CANCELLED	CNX GAS COMPANY	39.6548	-80.5778	CNX GAS COMPANY LLC	1314.98	0.00	SAPP, RAY S WZ86
47-103-30314-00-00	PITTSBURGH & WV GAS	INACTIVE COMPLETED	PITTSBURGH & WV GAS	39.6206	-80.5621	PITTSBURGH & WV GAS	1421.38	3450.00	1
47-103-30570-00-00	DUNN MAR OIL & GAS CO	INACTIVE COMPLETED	DUNN MAR OIL & GAS CO	39.6098	-80.5472	DUNN-MAR OIL & GAS CO.	1331.48	3466.00	1
47-103-00656-00-00	DIVERSIFIED ENERGY	P & A	DIVERSIFIED PRODUCTION	39.6424	-80.5702	DIVERSIFIED PRODUCTION LLC	1346.41	2340.00	BLAKE, J. 55
47-103-01736-00-00	DIVERSIFIED ENERGY	PRODUCING	APPALACHIAN ENERGY	39.6172	-80.5611	DIVERSIFIED PRODUCTION LLC	1428.87	2765.00	LIBERTY 1
47-103-00665-00-00	DIVERSIFIED ENERGY	DRILLED	DIVERSIFIED PRODUCTION	39.6366	-80.5642	DIVERSIFIED PRODUCTION LLC	1353.23	0.00	CROSS, NATHAN 477
47-103-01753-00-00	DIVERSIFIED ENERGY	PRODUCING	APPALACHIAN ENERGY	39.6129	-80.5598	DIVERSIFIED PRODUCTION LLC	995.33	2350.00	WILDMAN 1
47-103-00702-00-00	DIVERSIFIED ENERGY	PRODUCING	DIVERSIFIED PRODUCTION	39.6300	-80.5576	DIVERSIFIED PRODUCTION LLC	1142.50	2204.00	LAVELLE, J. 4719
47-103-02753-00-00	GRENADIER ENERGY PARTNERS	PERMIT EXPIRED	GRENADIER ENERGY PARTNERS	39.6785	-80.5975	GRENADIER ENERGY PARTNERS, LLC	1368.18	0.00	CHARLES MUSGRAVE UNIT 4H
47-103-01756-00-00	DIVERSIFIED ENERGY	PRODUCING	APPALACHIAN ENERGY	39.6141	-80.5553	DIVERSIFIED PRODUCTION LLC	1050.95	3364.00	BECKETT 1
47-103-01804-00-00	DIVERSIFIED ENERGY	PRODUCING	APPALACHIAN ENERGY	39.6181	-80.5473	DIVERSIFIED PRODUCTION LLC	1572.72	3767.00	ANDERSON 1
47-103-02752-00-00	GRENADIER ENERGY PARTNERS	PERMIT EXPIRED	GRENADIER ENERGY PARTNERS	39.6785	-80.5974	GRENADIER ENERGY PARTNERS, LLC	1368.62	0.00	CHARLES MUSGRAVE UNIT 3H
47-103-02495-00-00	CNX	PERMIT CANCELLED	CNX GAS COMPANY	39.6762	-80.5976	CNX GAS COMPANY LLC	1359.87	0.00	DORSEY, ROBERT WZ53A
47-103-01754-00-00	DIVERSIFIED ENERGY	PRODUCING	APPALACHIAN ENERGY	39.6085	-80.5557	DIVERSIFIED PRODUCTION LLC	1050.19	3388.00	LAUCK 1
47-103-00725-00-00	PILLAR ENERGY	P & A	PILLAR ENERGY	39.6691	-80.5899	PILLAR ENERGY, LLC	1157.72	3283.00	SAPP, JOHN R., ETAL 3030
47-103-73423-00-00	(N/A)	UNREPORTED	(N/A)	39.6492	-80.5721	(N/A)	1401.73	0.00	WILLIAM SAPP
47-103-73473-00-00	(N/A)	UNREPORTED	(N/A)	39.6276	-80.5541	(N/A)	1251.84	0.00	D P PHILLIPS
47-103-71899-00-00	(N/A)	UNREPORTED	(N/A)	39.6248	-80.5507	(N/A)	1514.42	0.00	J A TUTTLE
47-103-01737-00-00	DIVERSIFIED ENERGY	PRODUCING	APPALACHIAN ENERGY	39.6212	-80.5626	DIVERSIFIED PRODUCTION LLC	1430.89	3600.00	LIBERTY 2
47-103-02400-00-00	DIVERSIFIED ENERGY	PRODUCING	APPALACHIAN ENERGY	39.6610	-80.5889	DIVERSIFIED PRODUCTION LLC	1320.98	3588.00	GREEN DOT 5
47-103-02193-00-00	DIVERSIFIED ENERGY	PRODUCING	APPALACHIAN ENERGY	39.6791	-80.5970	DIVERSIFIED PRODUCTION LLC	1356.60	3670.00	MUSGRAVE 1
47-103-30514-00-00	MANUFACTURERS LIGHT & HEAT CO	INACTIVE COMPLETED	MANUFACTURERS LIGHT & HEAT CO	39.6627	-80.5812	MANUFACTURERS LIGHT & HEAT CO.	1366.41	3238.00	E E MOORE
47-103-73426-00-00	(N/A)	UNREPORTED	(N/A)	39.6438	-80.5655	(N/A)	1153.88	0.00	AL & MATILDA EFAW
47-103-02751-00-00	GRENADIER ENERGY PARTNERS	PERMIT EXPIRED	GRENADIER ENERGY PARTNERS	39.6786	-80.5975	GRENADIER ENERGY PARTNERS, LLC	1368.33	0.00	CHARLES MUSGRAVE UNIT 2H
47-103-02494-00-00	CNX	PERMIT CANCELLED	CNX GAS COMPANY	39.6770	-80.5984	CNX GAS COMPANY LLC	1398.33	0.00	DORSEY, ROBERT WZ53
47-103-73365-00-00	(N/A)	UNREPORTED	(N/A)	39.6607	-80.5858	(N/A)	1077.08	0.00	WALTER MYERS
47-103-73418-00-00	(N/A)	UNREPORTED	(N/A)	39.6537	-80.5723	(N/A)	1278.35	0.00	WILLIAM SAPP
47-103-73477-00-00	BP	UNREPORTED	HOPE NATURAL GAS COMPANY	39.6289	-80.5616	HOPE NATURAL GAS COMPANY	1378.96	0.00	ANTHONY LOVELLE
47-103-73435-00-00	BP	UNREPORTED	HOPE NATURAL GAS COMPANY	39.6383	-80.5754	HOPE NATURAL GAS COMPANY	1316.62	0.00	A C MOORE
47-103-73471-00-00	(N/A)	UNREPORTED	(N/A)	39.6328	-80.5484	(N/A)	1250.22	0.00	WM J HIBBS
47-103-01819-00-00	DIVERSIFIED ENERGY	INACTIVE PRODUCER	EXCEL ENERGY	39.6263	-80.5473	DIVERSIFIED PRODUCTION LLC	1192.35	3470.00	RUSH, RONALD & S. DEBOLT E-244
47-103-73432-00-00	(N/A)	UNREPORTED	(N/A)	39.6440	-80.5743	(N/A)	1498.95	0.00	C & L ANDERSON
47-103-02497-00-00	CNX	PERMIT CANCELLED	CNX GAS COMPANY	39.6769	-80.5986	CNX GAS COMPANY LLC	1389.25	0.00	DORSEY, ROBERT WZ52A

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47-103-73472-00-00 (N/A)	UNREPORTED	(N/A)	39.6312	-80.5484	(N/A)	1363.38	0.00	ELIJAH BEAN
47-103-01810-00-00 DIVERSIFIED ENERGY	PRODUCING	APPALACHIAN ENERGY	39.6175	-80.5428	DIVERSIFIED PRODUCTION LLC	1341.05	3681.00	NEWMAN 1
47-103-71903-00-00 BP	UNREPORTED	HOPE NATURAL GAS COMPANY	39.6215	-80.5666	HOPE NATURAL GAS COMPANY	1415.05	0.00	J G KIGER
47-103-02491-00-00 CNX	PERMIT CANCELLED	CNX GAS COMPANY	39.6557	-80.5785	CNX GAS COMPANY LLC	1379.46	0.00	SAPP, RAY S. WZ86A
47-103-73427-00-00 (N/A)	UNREPORTED	(N/A)	39.6441	-80.5616	(N/A)	1246.64	0.00	AL & MATILDA EFAW
47-103-31157-00-00 SOUTH PENN OIL (S. PENN NAT. GAS)	UNREPORTED	SOUTH PENN OIL (S PENN NAT GAS)	39.6546	-80.5748	SOUTH PENN OIL (S. PENN NAT. GAS)	1123.27	3003.00	ELIZABETH SAPP
47-103-70380-00-00 (N/A)	UNREPORTED	(N/A)	39.6263	-80.5465	(N/A)	1134.63	0.00	J B POE
47-103-71900-00-00 BP	UNREPORTED	HOPE NATURAL GAS COMPANY	39.6219	-80.5535	HOPE NATURAL GAS COMPANY	1467.53	0.00	T E PHILLIPS
47-103-02754-00-00 GRENADIER ENERGY PARTNERS	PERMIT EXPIRED	GRENADIER ENERGY PARTNERS	39.6785	-80.5976	GRENADIER ENERGY PARTNERS, LLC	1366.80	0.00	CHARLES MUSGRAVE UNIT 5H
47-103-73433-00-00 (N/A)	UNREPORTED	(N/A)	39.6441	-80.5726	(N/A)	1386.80	0.00	C & L ANDERSON
47-103-73367-00-00 MANUFACTURERS LIGHT & HEAT CO	UNREPORTED	MANUFACTURERS LIGHT & HEAT CO	39.6554	-80.5886	MANUFACTURERS LIGHT & HEAT CO.	1133.97	0.00	PATRICK CLARK
47-103-73404-00-00 (N/A)	UNREPORTED	(N/A)	39.6421	-80.5781	(N/A)	1280.52	0.00	E E MOORE
47-103-73431-00-00 BP	UNREPORTED	HOPE NATURAL GAS COMPANY	39.6416	-80.5743	HOPE NATURAL GAS COMPANY	1299.58	0.00	E E MOORE
47-103-73486-00-00 BP	UNREPORTED	HOPE NATURAL GAS COMPANY	39.6315	-80.5649	HOPE NATURAL GAS COMPANY	1276.03	0.00	J P MORGAN
47-103-70368-00-00 (N/A)	UNREPORTED	(N/A)	39.6643	-80.5873	(N/A)	1071.61	0.00	J J MORRIS
47-103-70382-00-00 SOUTH PENN OIL (S. PENN NAT. GAS)	UNREPORTED	SOUTH PENN OIL (S PENN NAT GAS)	39.6145	-80.5430	SOUTH PENN OIL (S. PENN NAT. GAS)	1628.37	0.00	MARY LLOYD
47-103-73475-00-00 C N G DEV CO	UNREPORTED	CNG DEVELOPMENT	39.6267	-80.5572	CNG DEVELOPMENT CO.	1497.49	0.00	HENRY UTT
47-103-73422-00-00 BP	UNREPORTED	HOPE NATURAL GAS COMPANY	39.6477	-80.5644	HOPE NATURAL GAS COMPANY	1338.15	0.00	ALFRED EFAW
47-103-70114-00-00 SOUTH PENN OIL (S. PENN NAT. GAS)	COMPLETED	SOUTH PENN OIL (S PENN NAT GAS)	39.6427	-80.5777	SOUTH PENN OIL (S. PENN NAT. GAS)	1283.81	3157.00	2
47-103-01558-00-00 HORNER OIL AND GAS PRODUCTION, INC	INACTIVE PRODUCER	GREEN DOT FARMS INC	39.6595	-80.5920	HORNER OIL AND GAS PRODUCTION, INC	1350.45	3080.00	GREEN DOT FARMS, INC. 1
47-103-30518-00-00 UNION GASOLINE & OIL CO.	INACTIVE COMPLETED	UNION GASOLINE & OIL CO	39.6530	-80.5873	UNION GASOLINE & OIL CORP.	1232.51	3347.00	MAGGIE CULLINAN 1
47-103-01972-00-00 DIVERSIFIED ENERGY	PRODUCING	APPALACHIAN ENERGY	39.6384	-80.5657	DIVERSIFIED PRODUCTION LLC	1519.98	3719.00	PAYNE 1
47-103-71902-00-00 BP	UNREPORTED	HOPE NATURAL GAS COMPANY	39.6190	-80.5583	HOPE NATURAL GAS COMPANY	1217.72	0.00	LEROY TAYLOR
47-103-73428-00-00 BP	UNREPORTED	HOPE NATURAL GAS COMPANY	39.6422	-80.5646	HOPE NATURAL GAS COMPANY	1332.69	0.00	W J MOORE
47-103-31220-00-00 DOMINION ENERGY	INACTIVE COMPLETED	CONSOLIDATED GAS SUPPLY	39.6330	-80.5668	CONSOLIDATED GAS SUPPLY CORP.	1261.77	3079.00	M B CROSS
47-103-73414-00-00 (N/A)	UNREPORTED	(N/A)	39.6535	-80.5775	(N/A)	1205.44	0.00	JOE ANDERSON
47-103-73417-00-00 (N/A)	UNREPORTED	(N/A)	39.6560	-80.5738	(N/A)	1223.71	0.00	A T CAIN
47-103-71935-00-00 (N/A)	UNREPORTED	(N/A)	39.6087	-80.5501	(N/A)	1374.25	0.00	M J ANDERSON
47-103-01750-00-00 DIVERSIFIED ENERGY	PRODUCING	APPALACHIAN ENERGY	39.6270	-80.5638	DIVERSIFIED PRODUCTION LLC	1387.20	3711.00	GREEN DOT 1
47-103-30807-00-00 MANUFACTURERS LIGHT & HEAT CO	INACTIVE COMPLETED	MANUFACTURERS LIGHT & HEAT CO	39.6633	-80.5918	MANUFACTURERS LIGHT & HEAT CO.	1204.30	2460.00	ANDREW CLARK 1
47-103-73366-00-00 (N/A)	UNREPORTED	(N/A)	39.6563	-80.5876	(N/A)	1105.04	0.00	PATRICK CLARK
47-103-01803-00-00 DIVERSIFIED ENERGY	PRODUCING	APPALACHIAN ENERGY	39.6225	-80.5450	DIVERSIFIED PRODUCTION LLC	1334.96	3334.00	SHOWALTER 1
47-103-02496-00-00 CNX	PERMIT CANCELLED	CNX GAS COMPANY	39.6761	-80.5977	CNX GAS COMPANY LLC	1349.78	0.00	DORSEY, ROBERT WZ52
47-103-70379-00-00 DOMINION ENERGY	UNREPORTED	HOPE GAS	39.6283	-80.5621	HOPE GAS, INC.	1288.73	0.00	JOHN LAVELLE
47-103-73438-00-00 (N/A)	UNREPORTED	(N/A)	39.6425	-80.5617	(N/A)	1333.21	0.00	J C MOORE

REVIEWED
 Office of Oil and Gas
 JUN 05 2023
 WV Department of
 Environmental Protection



RECEIVED
Office of Oil and Gas
JUN 05 2023
WV Department of
Environmental Protection

EQT
EQT Corporation
625 Liberty Avenue
Pittsburgh, PA 15222

Denver

Vertical Offsets and Foreign Laterals within 500'

Created By: Kallen Waltman Printed By: McClayO on 6/5/2023
Path: I:\2011p.fire.core.windows.net\gis\user\mclayva.hudgins\Vertical Offset\Foreign Well Working Map_update_v3.mxd

Legend

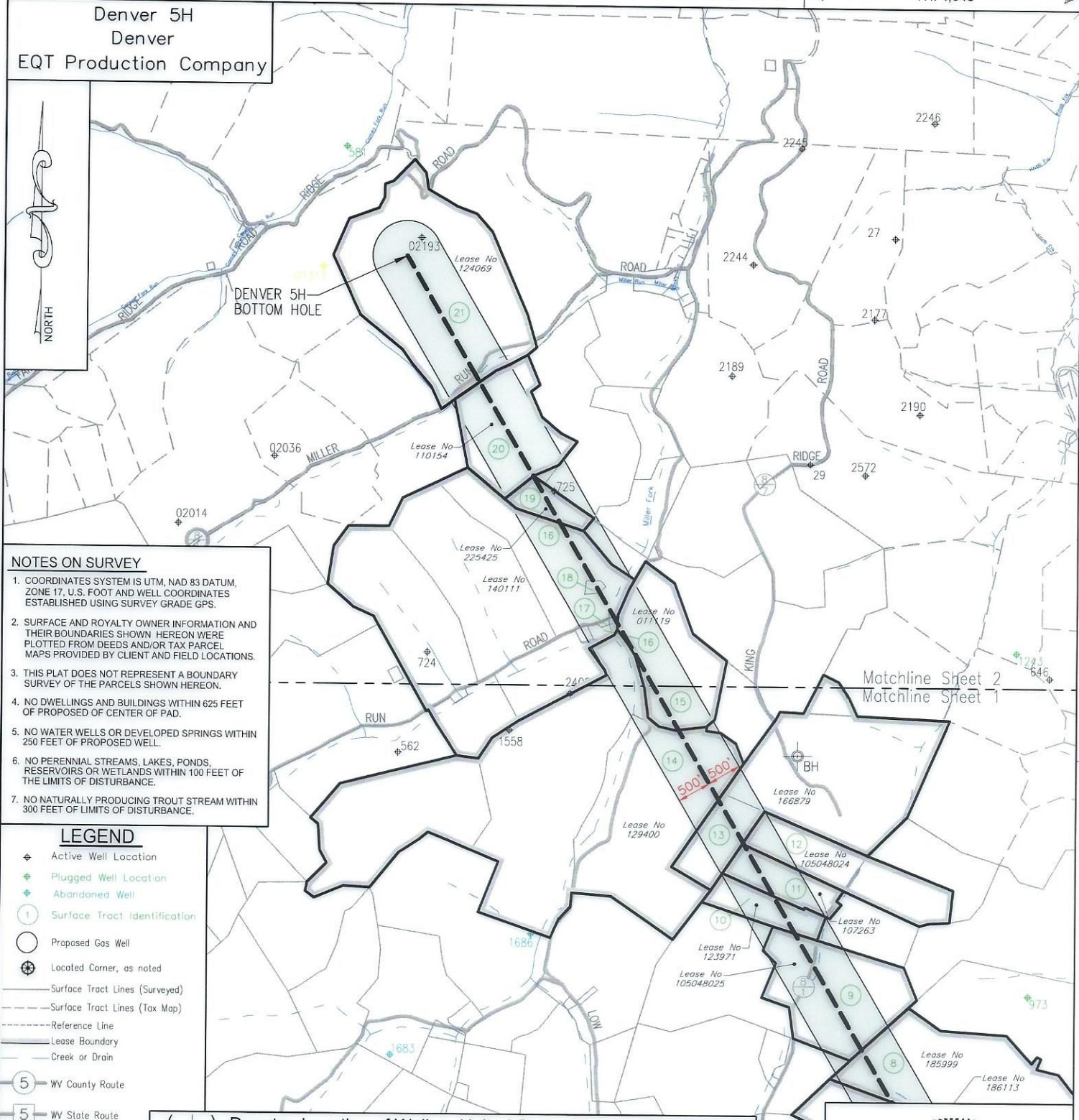
- Foreign_Offset_Wells
- Well Lateral_FM
- Formation
 - Geneseo
 - Marcellus
 - Utica

3,300 1,650 0 3,300
Feet
1:42,549

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.



06/16/2023



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.

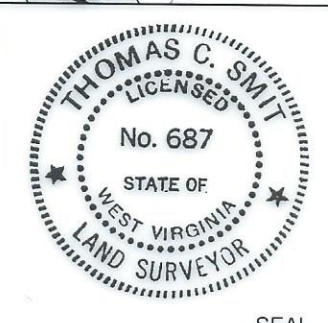
- LEGEND**
- ◆ Active Well Location
 - ◆ Plugged Well Location
 - ◆ Abandoned Well
 - ① Surface Tract Identification
 - Proposed Gas Well
 - ⊗ Located Corner, as noted
 - Surface Tract Lines (Surveyed)
 - - - Surface Tract Lines (Tax Map)
 - - - Reference Line
 - Lease Boundary
 - Creek or Drain
 - ⑤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

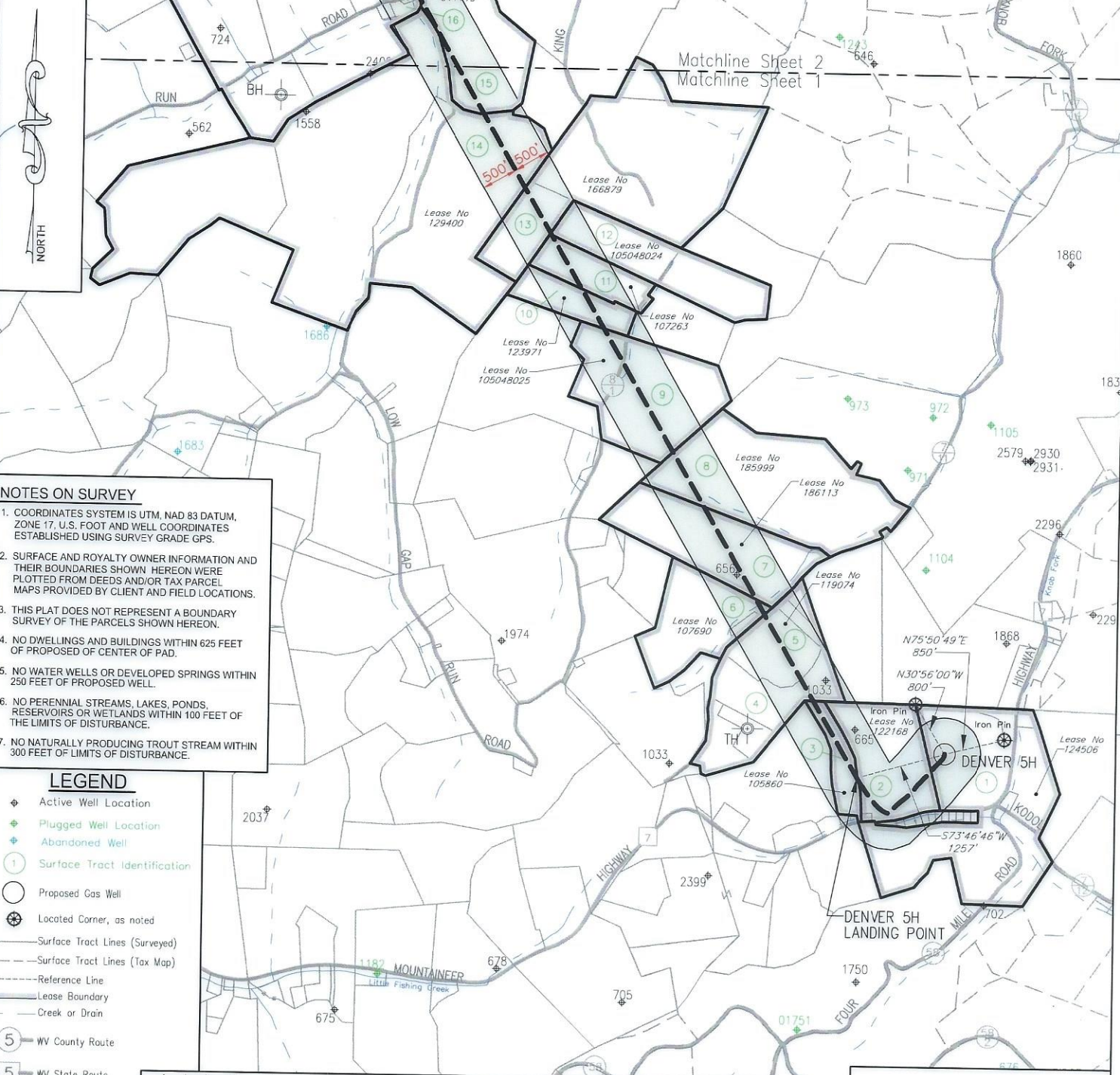
STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 OIL AND GAS DIVISION



DATE: MAY 02 20 23
 OPERATORS WELL NO: Denver 5H
 API WELL NO: 47 - 103 - 03515
 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: ~~06/16/2023~~
 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

Denver 5H
Denver
EQT Production Company



NOTES ON SURVEY

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- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
- NO DWELLINGS AND BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
- NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
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- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

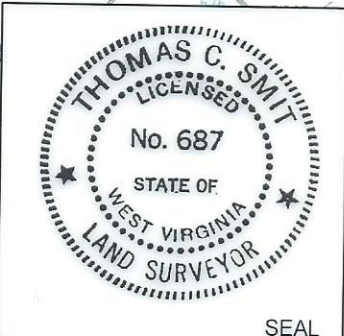
- LEGEND**
- Active Well Location
 - Plugged Well Location
 - Abandoned Well
 - Surface Tract Identification
 - Proposed Gas Well
 - Located Corner, as noted
 - Surface Tract Lines (Surveyed)
 - Surface Tract Lines (Tax Map)
 - Reference Line
 - Lease Boundary
 - Creek or Drain
 - WV County Route
 -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



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

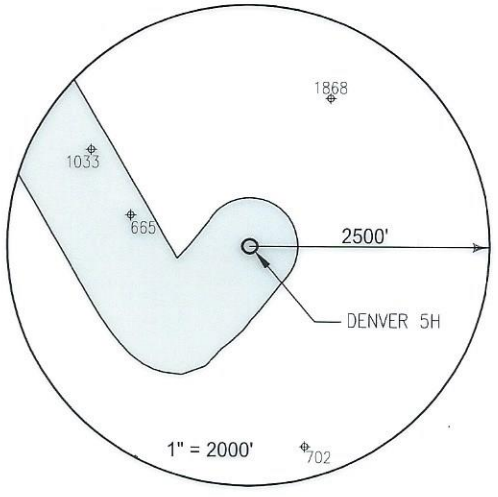
DATE: MAY 02 20 23
OPERATORS WELL NO: Denver 5H
API WELL NO: 47 - 103 - 03515
STATE COUNTY PERMIT

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: 128±
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 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 5H
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	40.0	Wetzel	Center	Donald D. & Desiree J. Shreve	31.25
4	15	25.2	Wetzel	Center	Kevin Pyles	24.37
5	15	25.0	Wetzel	Center	Donald E. & Misty D. Moore	26.81
6	15	24.0	Wetzel	Center	Robert Blake & Marcella	36.50
7	15	6.0	Wetzel	Center	Billy L. White	53.39
8	15	7.0	Wetzel	Center	Steven P. Barbe & James R. Barbe	99.00
9	11	37.0	Wetzel	Center	Ray S. Sapp	57.50
10	11	35.0	Wetzel	Center	Ray S. Sapp	17.75
11	11	34.0	Wetzel	Center	Timmy Ray Sapp Sr. & Stanley Ray Sapp	21.75
12	11	33.0	Wetzel	Center	Ray S Sapp	22.50
13	11	32.0	Wetzel	Center	Edith Miller EST	20.00
14	11	20.0	Wetzel	Center	Green Dot Farm Inc	108.00
15	11	19	Wetzel	Center	Roger Gene & Avis Sapp & Lovern Trust	62
16	11	3	Wetzel	Center	Roger Gene & Avis Sapp & Lovern Trust	42
17	11	18	Wetzel	Center	Church of Christ	0.87
18	11	4	Wetzel	Center	Morris Cemetery	1.2
19	8	39	Wetzel	Center	Robert E Dorsey Sr.	56
20	8	38	Wetzel	Center	Lawrence D Taylor ET AL	46.5
21	8	37	Wetzel	Center	Robert Dorsey	129.75



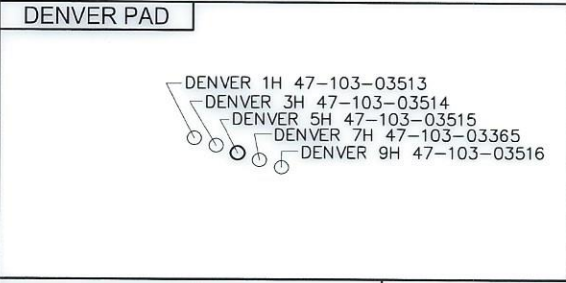
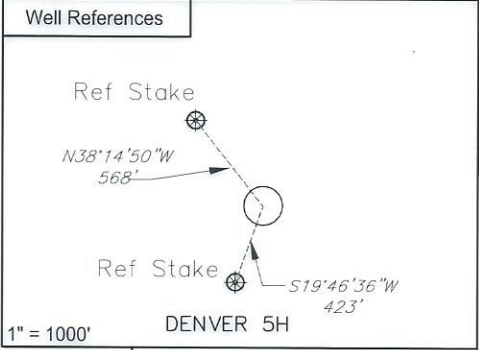
Lease	Owner	Acres
124506	Bounty Minerals, LLC, et al.	128 ac
122168	Ridgetop Royalties, LLC	40 ac
105860	Stone Hill Minerals Holdings, LLC	1,694.69 ac
119074	Bounty Minerals, LLC, et al.	71 ac
107690	Beulah Deloris Ballard, et al.	40 ac
186113	William H. Wood, et al.	53 ac
185999	William H. Wood, et al.	99 ac
105048025	Ray S. Sapp, et al.	57.5 ac
123971	Ray S. Sapp, et al.	17.75 ac
107263	Ray S. Sapp, et al.	21.75 ac
105048024	Ray S. Sapp, et al.	22.125 ac
166879	Shiben Estates, Inc	20 ac / 523,296,750 ac lease total
129400	Timothy J. Ashcraft, et al.	398 ac
011119	Bounty Minerals, LLC	58 ac
140111	TH Exploration II, LLC, et al.	233 ac
225425	Green Dot Farm, Inc., et al.	10.75 ac
110154	Piney Holdings, Inc., et al.	319 ac
124069	Charles Eugene Musgrave, et al.	129.75 ac

Notes:
DENVER 5H Top Hole coordinates are
 NAD 27 N: 415,397.169 E: 1,701,485.969
 NAD 27 Lat: 39.635671 Long: -80.559950
 NAD 83 UTM N: 4,387,423.239 E: 537,777.873

DENVER 5H Landing Point coordinates are
 NAD 27 N: 415,046.092 E: 1,700,279.098
 NAD 27 Lat: 39.634668 Long: -80.564220
 NAD 83 UTM N: 4,387,310.129 E: 537,411.961

DENVER 5H Bottom Hole coordinates are
 NAD 27 N: 431,039.895 E: 1,690,990.099
 NAD 27 Lat: 39.678268 Long: -80.597893
 NAD 83 UTM N: 4,392,135.490 E: 534,500.743

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.



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



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



DATE: MAY 02 20 23
 OPERATORS WELL NO: Denver 5H
 API WELL NO: 47 - 103 - 03515
 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: 117.39 ±
 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

**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				

RECEIVED
Office of Oil and Gas

MAY 24 2023

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>	<p><u>Bounty Minerals, LLC, et al.</u> 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</p>	128 ac	<p>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</p>		<p>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</p>
				"at least 1/8th per WV Code 22-6-8"	
<u>122168</u>	<p><u>Ridgetop Royalties, LLC</u> 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</p>	40 ac	<p>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</p>		<p>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</p>
				"at least 1/8th per WV Code 22-6-8"	
<u>105860</u>	<p><u>Stone Hill Minerals Holdings, LLC</u> Chesapeake Appalachia, L.L.C.</p>	1,694.69 ac	SWN Production Company, LLC		OG 166A/931

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

SWN Production Company, LLC
Antero Exchange Properties LLC
Antero Resources Corporation

Antero Exchange Properties LLC
Antero Resources Corporation
EQT Production Company

OG 177A/533
Corp. Book 13/311
OG 231A/59

Bounty Minerals, LLC, et al.

119074

Violet M. Payne
Drilling Appalachain Corporation
Grenadier Energy Partners, LLC
Drilling Appalachian Corporation
Statoil USA Onshore Properties Inc., et al

71 ac

Drilling Appalachain Corporation
Grenadier Energy Partners, LLC
Statoil USA Onshore Properties Inc.
Statoil USA Onshore Properties Inc.
EQT Production Company

"at least 1/8th per
WV Code 22-6-8"

OG 81A/403
OG 124A/9 & 136A/538
OG 138A/1
OG 138A/54
OG 175A/707

Beulah Deloris Ballard, et al.

107690

Jane Blake
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

"at least 1/8th per
WV Code 22-6-8"

DB 46/352
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

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William H. Wood, et al.

186113

William H. Wood, a married man dealing in his sole and separate property

53 ac

EQT Production Company

"at least 1/8th per
WV Code 22-6-8"

OG 277A/302

William H. Wood, et al.

185999

William H. Wood, a married man dealing in his sole and separate property

99 ac

EQT Production Company

"at least 1/8th per
WV Code 22-6-8"

OG 270A/279

Ray S. Sapp, et al.

"at least 1/8th per
WV Code 22-6-8"

✓ <u>105048025</u>	Ray S. Sapp, a single man Statoil USA Onshore Properties Inc., et al	57.5 ac	Statoil USA Onshore Properties Inc. EQT Production Company	OG 171A/637 OG 185A/916
	<u>Ray S. Sapp, et al.</u>			"at least 1/8th per WV Code 22-6-8"
✓ <u>123971</u>	Ray S. Sapp, a single man Statoil USA Onshore Properties Inc., et al	17.75 ac	Statoil USA Onshore Properties Inc. EQT Production Company	OG 171A/628 OG 185A/916
	<u>Ray S. Sapp, et al.</u>			"at least 1/8th per WV Code 22-6-8"
✓ <u>107263</u>	Ray S. Sapp, a single male TH Exploration, LLC	21.75 ac	TH Exploration, LLC EQT Production Company	OG 192A/417 OG 258A/333
	<u>Ray S. Sapp, et al.</u>			"at least 1/8th per WV Code 22-6-8"
✓ <u>105048024</u>	Ray S. Sapp, a single man Statoil USA Onshore Properties Inc., et al	22.125 ac	Statoil USA Onshore Properties Inc. EQT Production Company	OG 171A/631 OG 185A/916
	<u>Shiben Estates, Inc.</u>			"at least 1/8th per WV Code 22-6-8"
✓ <u>166879</u>	Shiben Estates, Inc.	20 ac / 523.298750 ac lease total	EQT Production Company	OG 264A/693
	<u>Timothy J. Ashcraft, et al.</u>			"at least 1/8th per WV Code 22-6-8"
✓ <u>129400</u>	Timothy J. Ashcraft, a married man dealing in his sole and separate property	398 ac	EQT Production Company	OG 252A/706
	<u>Bounty Minerals, LLC</u>			"at least 1/8th per WV Code 22-6-8"
✓ <u>011119</u>	Bounty Minerals, LLC CNX Gas Company, LLC	58 ac	CNX Gas Company EQT Production Company	274A/624 321A/121
	<u>TH Exploration II, LLC, et al.</u>			"at least 1/8th per WV Code 22-6-8"
✓ <u>140111</u>	TH Exploration II, LLC TH Exploration, LLC	233 ac	TH Exploration, LLC EQT Production Company	OG 252A/110 OG 258A/333
	<u>Green Dot Farm, Inc., et al.</u>			"at least 1/8th per WV Code 22-6-8"
✓ <u>225425</u>	Green Dot Farm, Inc.	10.75 ac	EQT Production Company	OG 311A/64

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	<u>Piney Holdings, Inc., et al.</u>			"at least 1/8th per WV Code 22-6-8"	
<u>110154</u>	William Riter, et ux. The Manufacturers Light and Heat Company Tenneco Oil Company TOC - Mid-Continent Inc. Mesa Midcontinent Limited Partnership Mesa Inc. Pickens Operating Co. T. Boone Pickens Mesa Operating Limited Partnership Mesa Operating Co. Pioneer Natural Resources USA, Inc. Grenadier Energy Partners, LLC Grenadier Energy Partners, LLC Drilling Appalachian Corporation Statoil USA Onshore Properties Inc., et al	319 ac	The Manufactirers Light & Heat Company Tenneco Oil Company TOC - Mid-Contenent Inc. Mesa Midcontinent Limited Partnership Mesa Inc. Pickens Operating Co. T. Boone Pickens Mesa Operating Limited Partnership Mesa Operating Co. Pioneer Natural Resources USA, Inc. Grenadier Energy Partners, LLC Drilling Appalachian Corporation Statoil USA Onshore Properties Inc. EQT Production Company		OG 13A/1 OG 50A/156 DB 321/323 DB 321/351 DB 64/156 DB 64/145 Corp. Book 11/322 Corp. Book 12/48 OG 128A/238 OG 129A/87 OG 138A/1 OG 138A/54 OG 175A/707

	<u>Charles Eugene Musgrave, et al.</u>			"at least 1/8th per WV Code 22-6-8"	
<u>124069</u>	Charles E. Musgrave and Ila Mae Musgrave Drilling Appalachain Corporation Grenadier Energy Partners, LLC Drilling Appalachian Corporation Statoil USA Onshore Properties Inc., et al	129.75 ac	Drilling Appalachian Corporation Grenadier Energy Partners, LLC Statoil USA Onshore Properties Inc. Statoil USA Onshore Properties Inc. EQT Production Company		OG 83A/671 & OG 100A/790 OG 124A/9 & 136A/538 OG 138A/1 OG 138A/54 OG 175A/707

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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 5H 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,

John Zavatchan
Project Specialist - Permitting

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Enc.

06/16/2023

Denver 5H
Denver
EQT Production Company

1-8-38
Lease No
110154

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WV Department of
Environmental Protection

1-8-39
Lease No
134686

DENVER 5H

06/16/2023

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



DATE: MAY 02 20 23
OPERATORS WELL NO: DENVER 5H
API WELL NO
47 - 103 - 03515
STATE COUNTY PERMIT

Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
<u>134686</u>	<u>Three Rivers Royalty II, LLC, et al.</u> Three Rivers Royalty II, LLC	70 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 226A/768

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WV Department of
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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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Denver 1H, 5H, 7H & 9H HZ Mods

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Canonsburg, PA 15317

Certified Mail Fee	\$4.15
Extra Services & Fees (check box, add fee as appropriate)	\$3.35
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage \$1.50
Total Postage and Fees \$9.00



Sent To: EQT Production Company
400 Woodcliff Dr.
City: Canonsburg, PA 15317

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For delivery information, visit our website at www.usps.com®.

Buchanan, MI 49107

Certified Mail Fee	\$4.15
Extra Services & Fees (check box, add fee as appropriate)	\$3.35
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage \$1.50
Total Postage and Fees \$9.00



Sent To: Margo Zandarski FKA Margo Coman
13886 Convey Rd.
City: Buchanan, MI 49107

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Littleton, WV 26581

Certified Mail Fee	\$4.15
Extra Services & Fees (check box, add fee as appropriate)	\$3.35
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
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<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage \$1.50
Total Postage and Fees \$9.00



Sent To: Donald D. and Desiree J. Shreve
22385 Mountaineer Hwy
City: Littleton, WV 26581

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Littleton, WV 26581

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<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage \$1.50
Total Postage and Fees \$9.00



Sent To: Donald E. and Misty D. Moore
530 Camp Run Rd.
City: Littleton, WV 26581

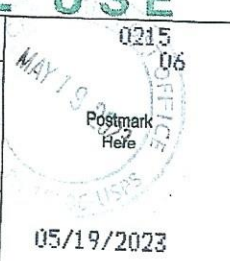
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Littleton, WV 26581

Certified Mail Fee	\$4.15
Extra Services & Fees (check box, add fee as appropriate)	\$3.35
<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	\$0.00

Postage \$1.50
Total Postage and Fees \$9.00



Sent To: Kevin Pyles
390 Bear Run Rd.
City: Littleton, WV 26581

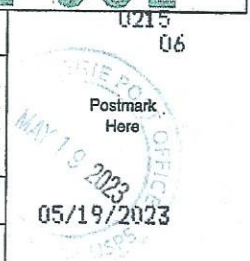
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Littleton, WV 26581

Certified Mail Fee	\$4.15
Extra Services & Fees (check box, add fee as appropriate)	\$3.35
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage \$1.50
Total Postage and Fees \$9.00



Sent To: Patricia L. Kennedy
390 Bear Run Rd.
City: Littleton, WV 26581

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Denver 1H, 5H, 7H & 9H HZ Mods

70118 3090 0002 0016 0245

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Sunset Beach, NC 28468

OFFICIAL USE

Certified Mail Fee	\$4.15
Postage	\$1.50
Total Postage and Fees	\$5.65

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postmark Here
05/19/2023

Sent To
Street:
City, St
PS Fo

Thomas Moore and Cora Lynn Childers
141 Avian Drive, Condo #3806
Sunset Beach, NC 28468

0215 06

PS Form 3800

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May 23, 2023

Via FedEx Overnight Delivery

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

Chk # 597139
2500.00

RE: Horizontal Well Work Permit Application Modification
Denver 5H
Permit Number 47-103-03515
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
724-746-9073

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