



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 7H
47-103-03365-00-00

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.

A blue ink signature of James A. Martin, written in a cursive style.

James A. Martin
Chief

Operator's Well Number: DENVER 7H
Farm Name: AUDREY L. LAVELLE
U.S. WELL NUMBER: 47-103-03365-00-00
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: 7H 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: 23,097'

11) Proposed Horizontal Leg Length: 15,234'

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

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

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	23097	23097	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							

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PACKERS

Kind:				WV Department of Environmental Protection
Sizes:				
Depths Set:				

Stephen Mccoy
 Digitally signed by Stephen Mccoy
 Date: 2023.05.22 09:35:10 -04'00'

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.

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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.

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.

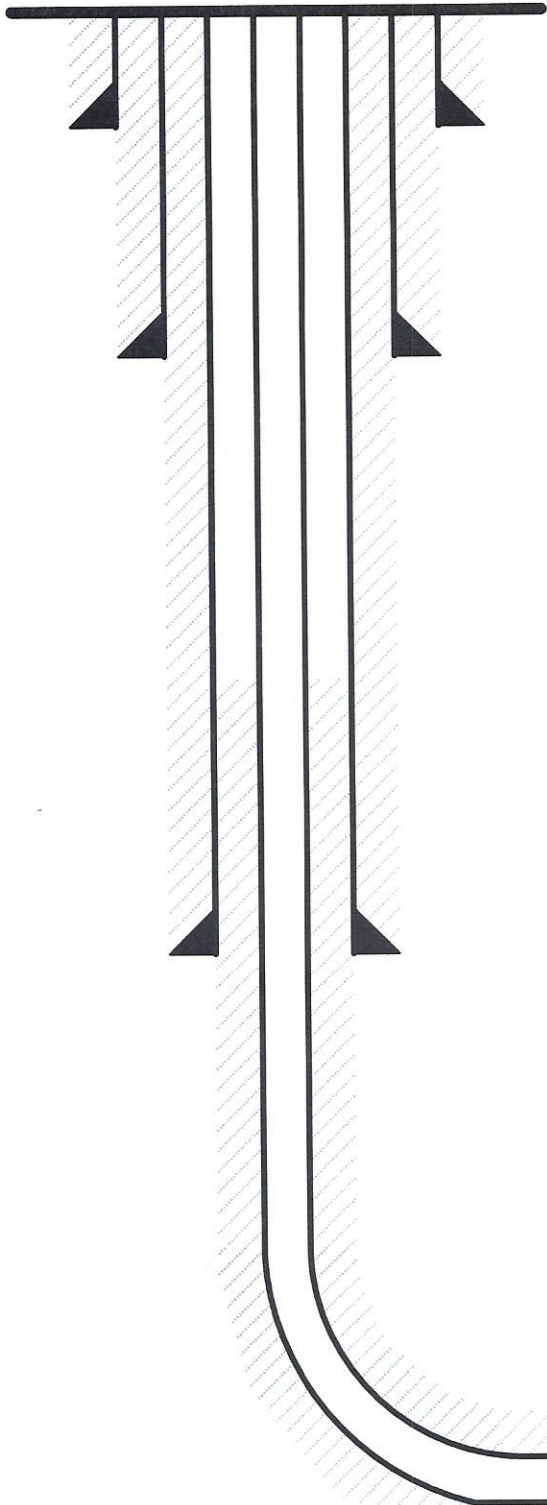
*Note: Attach additional sheets as needed.

EQT Production

Wellbore Diagram

Well: Denver 7H
Pad: Denver
Elevation: 1351' GL 1379' KB

County: Wetzel
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 @ 23,097' 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:

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	
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
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

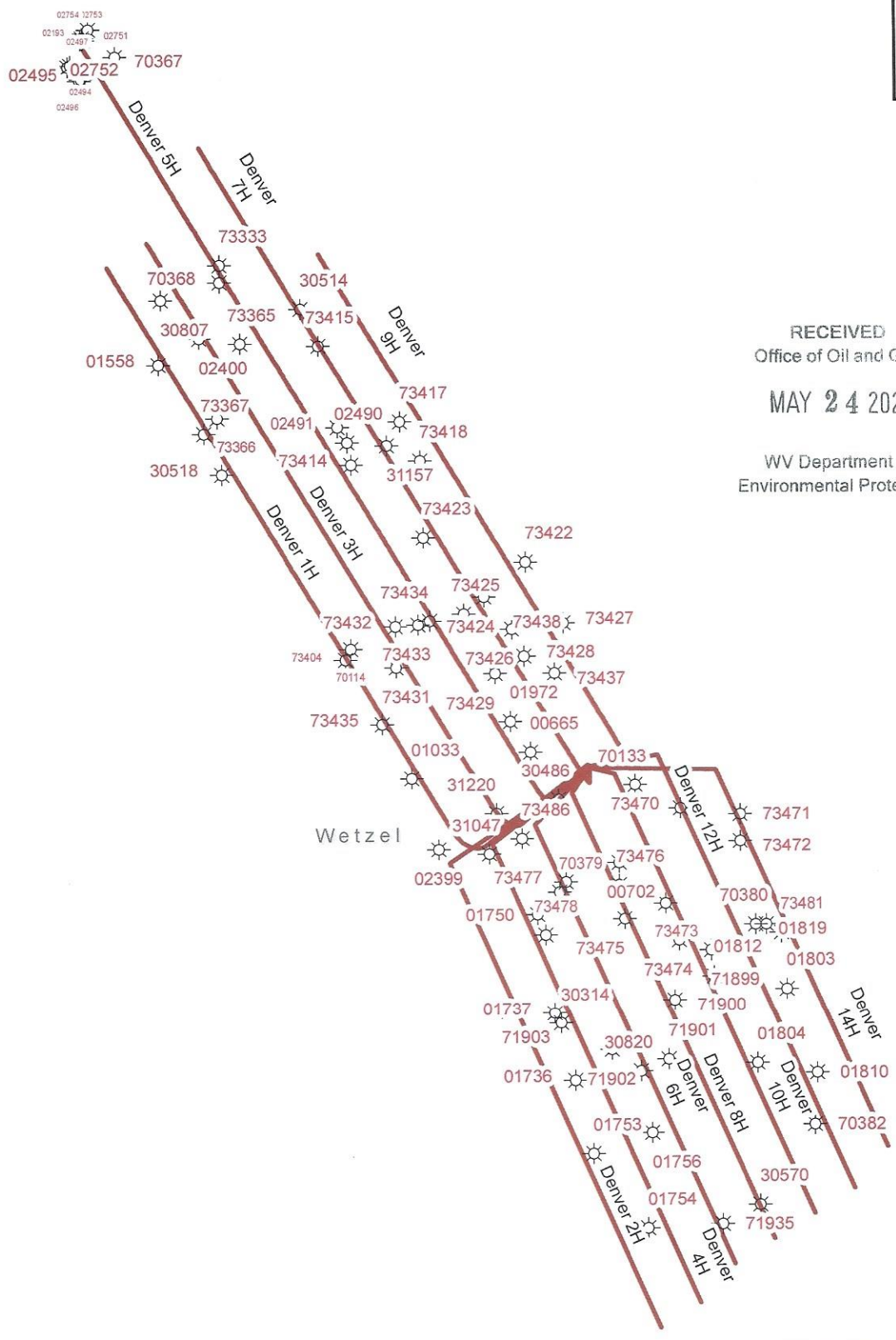
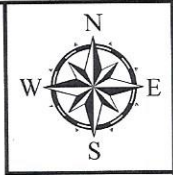
2. Reporting

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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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 Wattman Printed By: McClayO on 4/20/2023
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06/16/2023

API_UWV_Un	API_UWV_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

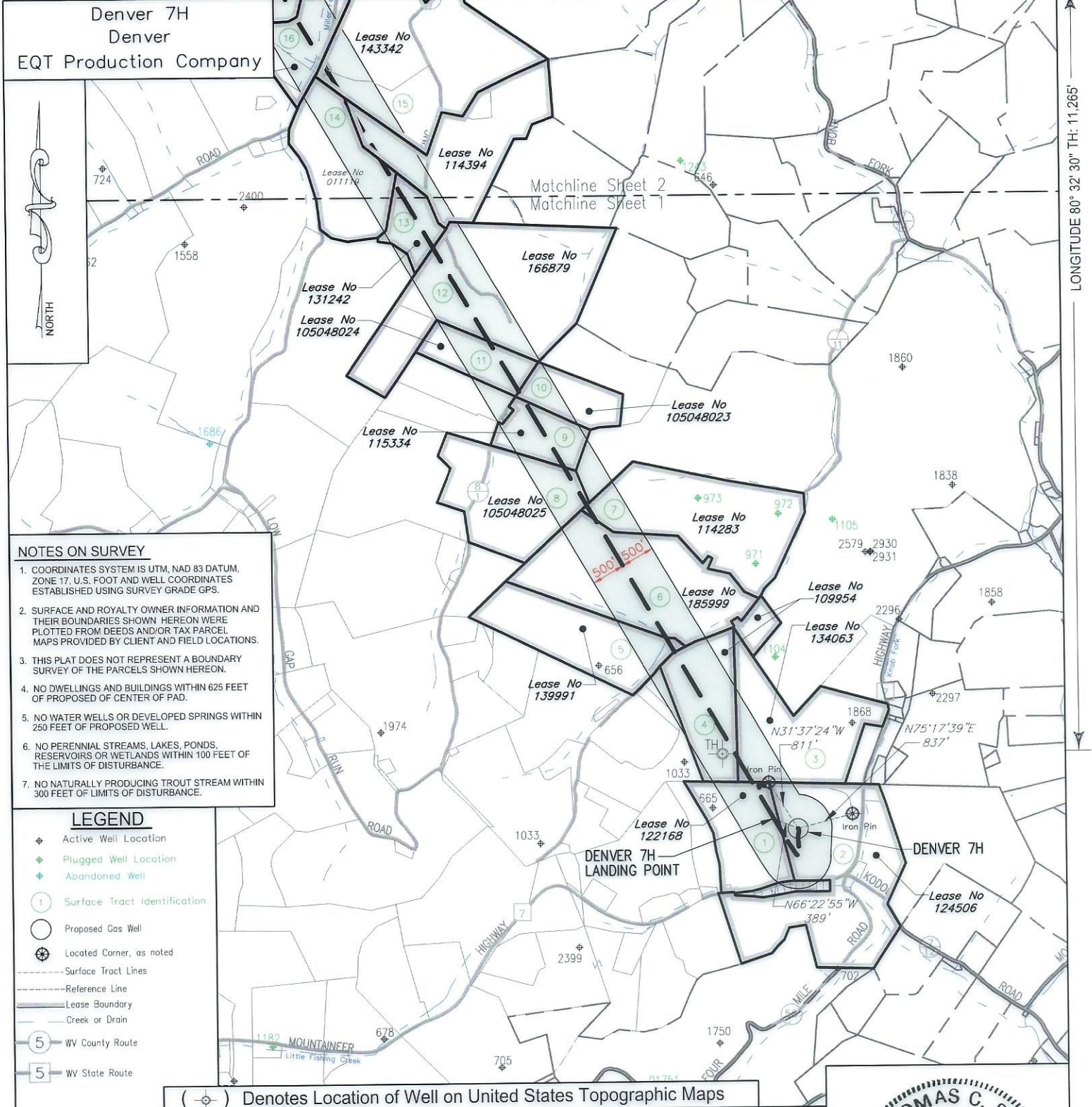
WV Department of
 Environmental Protection

MAY 24 2023

RECEIVED
 Office of Oil and Gas

70368	47-103-70368-00-00	CALC	UNREPORTED	UNREPORTED	(N/A)	39.6643	-80.5873 (N/A)	1071.6	0.00	JJ 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

RECEIVED
Office of the
MAY 24
WV Dept
Environment



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
 - 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

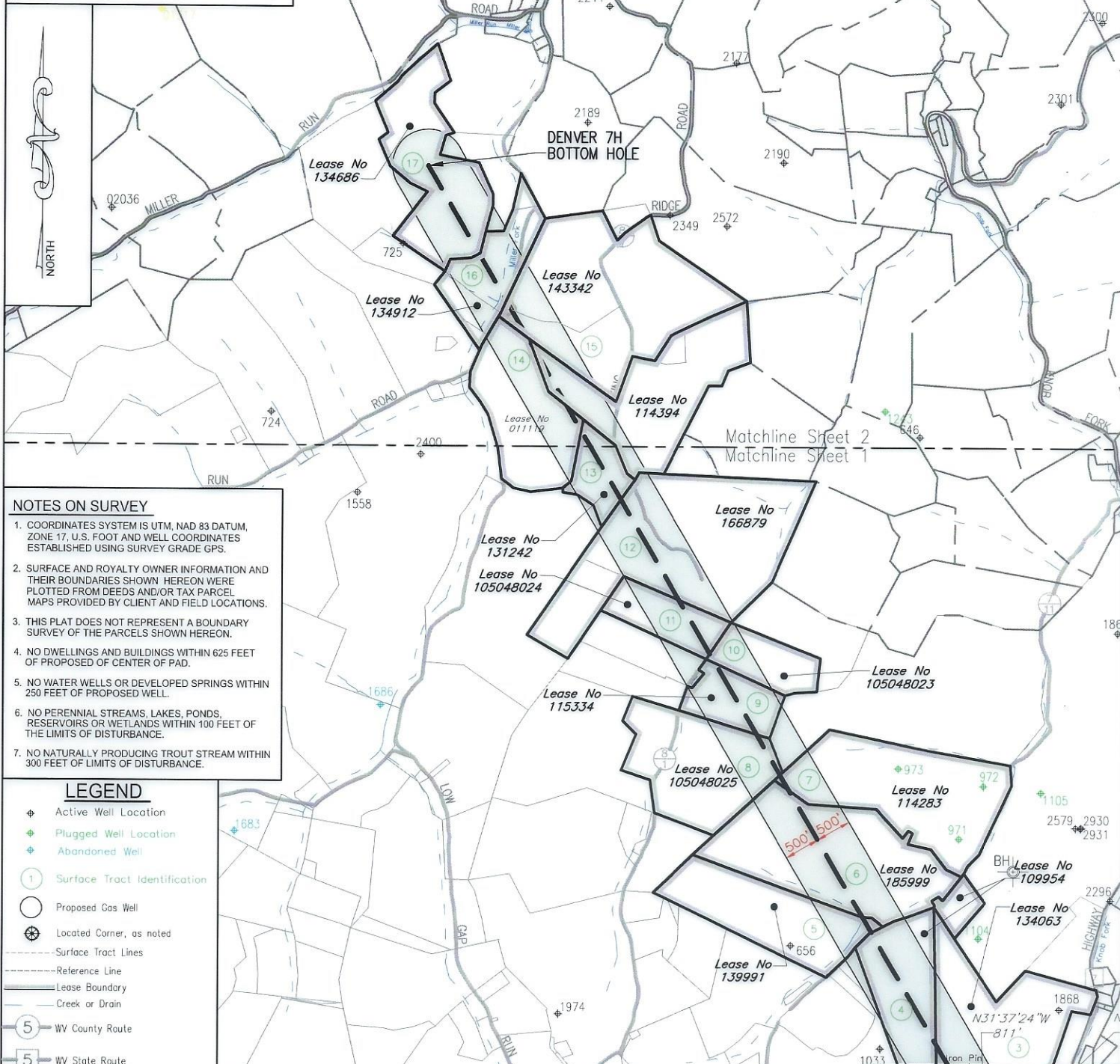


DATE: MAY 02 20 23
OPERATORS WELL NO: Denver 7H
API WELL NO: 47 - 103 - 03365
STATE COUNTY PERMIT

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: Wetzell
 SURFACE OWNER: EQT Production Company ACREAGE: 128±
 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 7H
Denver
EQT Production Company



NOTES ON SURVEY

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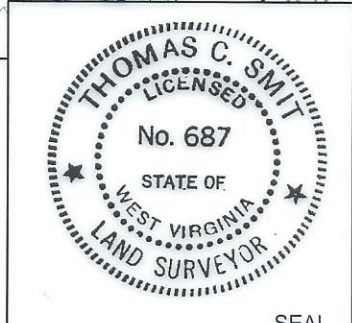
- LEGEND**
- ⊕ Active Well Location
 - ⊕ Plugged Well Location
 - ⊕ Abandoned Well
 - ① Surface Tract Identification
 - Proposed Gas Well
 - ⊕ Located Corner, as noted
 - - - Surface Tract Lines
 - - - Reference Line
 - Lease Boundary
 - Creek or Drain
 - ⑤ WV County Route
 - ⑤ WV State Route

(⊕) 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. Smith
L. L. S. 687



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

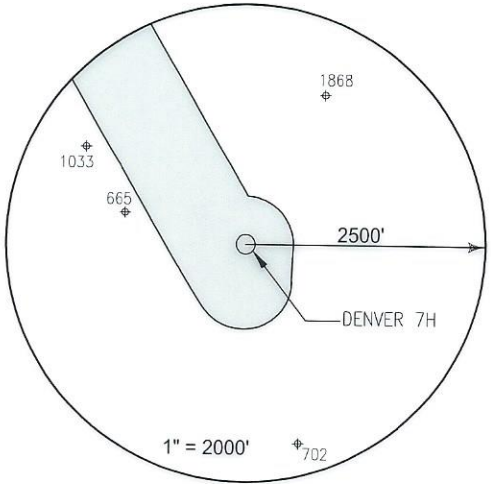


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API WELL NO: 47 - 103 - 03365
STATE COUNTY PERMIT

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(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±~~ 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 7H
Denver
EQT Production Company

Tract ID.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	15	41.0	Wetzel	Center	Margo Coman	39.00
2	16	38.0	Wetzel	Center	EQT Production Company	117.39
3	15	27.1	Wetzel	Center	Harry & Marilyn Kennedy	61.30
4	15	26.0	Wetzel	Center	Thomas Moore & Cora Lynn Childers	50.90
5	15	6.0	Wetzel	Center	Billy L. White	53.39
6	15	7.0	Wetzel	Center	Steven P. Barbe & James R. Barbe	99.00
7	15	7.1	Wetzel	Center	Steven P. Barbe & James R. Barbe	81.75
8	11	37.0	Wetzel	Center	Ray S. Sapp	57.50
9	11	38.0	Wetzel	Center	Dean Wayne Miller	20.30
10	11	39.0	Wetzel	Center	Ray S Sapp	21.75
11	11	33.0	Wetzel	Center	Ray S Sapp	22.50
12	11	22.1	Wetzel	Center	Edith Miller EST	104.50
13	11	21.0	Wetzel	Center	Love E. Jett, II	16.30
14	11	19.0	Wetzel	Center	Roger Gene & Avis Lovern Sapp	62.00
15	11	6.1	Wetzel	Center	Larry L & Lois Jane Deem	94.5
16	11	5.1	Wetzel	Center	Robert E Dorsey Sr.	20
17	8	39.0	Wetzel	Center	Robert E Dorsey Sr.	56.00



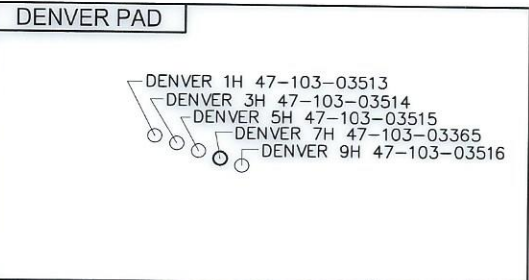
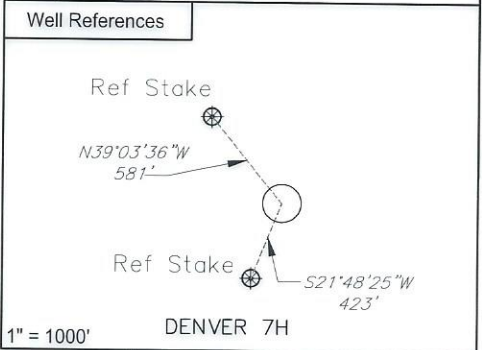
Lease	Owner	Acres
124506	Bounty Minerals, LLC, et al.	128 ac
122168	Ridgetop Royalties, LLC	40 ac
134063	Patricia Haddix, et al.	61.3 ac
109954	Cora Lynn Childers, et al.	50.87813 ac
139991	Golden Eagle Resources II, LLC, et al.	53 ac
185999	William H. Wood, et al.	99 ac
114283	Noble Marcellus LP	81.75 ac
105048025	Ray S. Sapp	57.50 ac
115334	Rodney J. Nichols, et al.	45.8 ac
105048023	Ray S. Sapp, et al.	21.75 ac
105048024	Ray S. Sapp, et al.	22.125 ac
166879	Shiben Estates, Inc.	104.5 ac
131242	Timothy J. Ashcraft, et al.	16.3 ac
011119	Bounty Minerals, LLC	58 ac
114394	Green Dot Farm, Inc., et al.	68 ac
143342	Green Dot Farm, Inc., et al.	125 ac
134912	XTO Energy Inc., et al.	28 ac
134686	Green Dot Farm, Inc., et al.	125 ac

Notes:
DENVER 7H Top Hole coordinates are
NAD 27 N: 415,392.427 E: 1,701,500.200
NAD 27 Lat: 39.635658 Long: -80.559899
NAD 83 UTM N: 4,387,421.867 E: 537,782.232

DENVER 7H Landing Point coordinates are
NAD 27 N: 415,548.275 E: 1,701,143.802
NAD 27 Lat: 39.636074 Long: -80.561171
NAD 83 UTM N: 4,387,467.532 E: 537,672.860

DENVER 7H Bottom Hole coordinates are
NAD 27 N: 428,721.904 E: 1,693,492.733
NAD 27 Lat: 39.671988 Long: -80.588902
NAD 83 UTM N: 4,391,442.043 E: 535,274.976

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.
L. L. S. 687



FILE NO: _____
DRAWING NO: _____
SCALE: 1" = 1000'
MINIMUM DEGREE OF ACCURACY: 1:2500
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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>	Bounty Minerals, LLC, et al. 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>	Ridgetop Royalties, LLC 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

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	<u>Patricia Haddix, et al.</u>			"at least 1/8th per WV Code 22-6-8"	
<u>134063</u>	Petricia Haddix, divorced, et. al, per POA Drilling Appalachian Corporation Grenadier Energy Partners, LLC Drilling Appalachian Corporation Statoil USA Onshore Properties Inc., et al	61.3 ac	Drilling Appalachian Corporation Grenadier Energy Partners, LLC Statoil USA Onshore Properties Inc. Statoil USA Onshore Properties Inc. EQT Production Company		OG 80A/27 OG 123A/9 & 136A/538 OG 138A/1 OG 138A/54 OG 175A/707
	<u>Cora Lynn Childers, et al.</u>			"at least 1/8th per WV Code 22-6-8"	
<u>109954</u>	Cora Lynn Childers, a single woman Antero Resources Corporation	50.87813 ac	Antero Resources Corporation EQT Production Company		OG 194A/82 OG 269A/533
	<u>Golden Eagle Resources II, LLC, et al.</u>			"at least 1/8th per WV Code 22-6-8"	
<u>139991</u>	Golden Eagle Resources II, LLC American Petroleum Partners Operating LLC TH Exploration, LLC	53 ac	American Petroleum Partners Operating LLC TH Exploration, LLC EQT Production Company		OG 215A/250 OG 236A/357 OG 258A/333
	<u>William H. Wood, et al.</u>			"at least 1/8th per WV Code 22-6-8"	
<u>185999</u>	William H. Wood, a married man dealing in his sole and separate property	99 ac	EQT Production Company		OG 270A/279
	<u>Noble Marcellus LP</u>			"at least 1/8th per WV Code 22-6-8"	
<u>114283</u>	Shuman Haynes, et. ux. Drilling Appalachian Corporation Grenadier Energy Partners, LLC Drilling Appalachian Corporation Statoil USA Onshore Properties Inc., et al	81.75 ac	Drilling Appalachian Corporation Grenadier Energy Partners, LLC Statoil USA Onshore Properties Inc. Statoil USA Onshore Properties Inc. EQT Production Company		OG 106A/59 OG 108A/762 OG 138A/1 OG 138A/54 OG 175A/707
	<u>Ray S. Sapp</u>			"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	57.50 ac	Statoil USA Onshore Properties Inc. EQT Production Company		OG 171A/637 OG 185A/916
	<u>Rodney J. Nichols, et al.</u>			"at least 1/8th per WV Code 22-6-8"	

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<u>115334</u>	Rodney J. Nichols, a married man dealing in his sole and separate property	45.8 ac	EQT Production Company		OG 267A/644
				"at least 1/8th per WV Code 22-6-8"	
<u>105048023</u>	<u>Ray S. Sapp, et al.</u> Ray S. Sapp, a single man Statoil USA Onshore Properties Inc., et al	21.75 ac	Statoil USA Onshore Properties Inc. EQT Production Company		OG 171A/634 OG 185A/916
				"at least 1/8th per WV Code 22-6-8"	
<u>105048024</u>	<u>Ray S. Sapp, et al.</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
				"at least 1/8th per WV Code 22-6-8"	
<u>166879</u>	<u>Shiben Estates, Inc.</u> Shiben Estates, Inc.	104.5 ac	EQT Production Company		OG 264A/693
				"at least 1/8th per WV Code 22-6-8"	
<u>131242</u>	<u>Timothy J. Ashcraft, et al.</u> Timothy J. Ashcraft	16.3 ac	EQT Production Company		OG 233A/494
				"at least 1/8th per WV Code 22-6-8"	
<u>011119</u>	<u>Bounty Minerals, LLC</u> Bounty Minerals, LLC CNX Gas Company, LLC	58 ac	CNX Gas Company EQT Production Company		274A/624 321A/121
				"at least 1/8th per WV Code 22-6-8"	
<u>114394</u>	<u>Green Dot Farm, Inc., et al.</u> Green Dot Farm, Inc.	68 ac	EQT Production Company		OG 254A/498
				"at least 1/8th per WV Code 22-6-8"	
<u>143342</u>	<u>Green Dot Farm, Inc., et al.</u> E. E. Moore, widower, and Patrick Clark and Ellen Cla The Manufacturers Light & Heat Company Tenneco Oil Company TOC-Mid-Continent Inc. MESA Operating Company Pioneer Natural Resources USA, Inc. Grenadier Energy Partners, LLC	125 ac	The Manufacturer's Light & Heat Company Tenneco Oil Company TOC-Mid-Continent Inc. Mesa Midcontinent Limited Partnership Pioneer Natural Resources USA, Inc. Grenadier Energy Partners, LLC Drilling Appalachian Corporation		OG 15A/244 OG 50A/156 & 51A/293 DB 321/323 DB 321/351 WV SOS OG 128A/238 OG 129A/87

Drilling Appalachian Corporation
Grenadier Energy Partners, LLC
Statoil USA Onshore Properties Inc.

Statoil USA Onshore Properties Inc.
Statoil USA Onshore Properties Inc.
EQT Production Company

OG 138A/54
OG 138A/1
OG 175A/707

XTO Energy Inc., et al.

✓ **134912**

XTO Energy Inc.

28 ac

EQT Production Company

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

OG 188A/324

Green Dot Farm, Inc., et al.

✓ **134686**

Green Dot Farm, Inc.

125 ac

Drilling Appalachian Corporation

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

OG 103A/265

Drilling Appalachian Corporation

Grenadier Energy Partners, LLC

OG 106A/11

Grenadier Energy Partners, LLC

Statoil USA Onshore Properties Inc.

OG 138A/1

Drilling Appalachian Corporation

Statoil USA Onshore Properties Inc.

OG 138A/54

Statoil USA Onshore Properties Inc., et al

EQT Production Company

OG 175A/707

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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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Buchanan, MI 49107

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

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390 Bear Run Rd.
Littleton, WV 26581

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141 Avian Drive, Condo #3806
Sunset Beach, NC 28468

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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# 597140
2500.00

RE: Horizontal Well Work Permit Application Modification
Denver 7H
Permit Number 47-103-03365
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
- 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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