



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, February 28, 2022
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

EQT PRODUCTION COMPANY
625 LIBERTY AVE., SUITE 1700
PITTSBURGH, PA 15222

Re: Permit Modification Approval for BIG245 114H
47-103-03446-00-00

Lateral Extension and WMP approval

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: BIG245 114H
Farm Name: ET BLUE GRASS LLC
U.S. WELL NUMBER: 47-103-03446-00-00
Horizontal 6A New Drill
Date Modification Issued: 02/28/2022

Promoting a healthy environment.

03/04/2022

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 Grant Big Run
Operator ID County District Quadrangle

2) Operator's Well Number: 114H Well Pad Name: BIG245

3) Farm Name/Surface Owner: ET Blue Grass LLC Public Road Access: CR 19/2

4) Elevation, current ground: 1,430' Elevation, proposed post-construction: 1,430'

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, 7549', 51', 2,620 psi

8) Proposed Total Vertical Depth: 7,549'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 24,971'

11) Proposed Horizontal Leg Length: 16,217'

12) Approximate Fresh Water Strata Depths: 243', 521', 676', 766', 1,025'

13) Method to Determine Fresh Water Depths: Offset Wells - 47-103-00376 & 47-103-00380

14) Approximate Saltwater Depths: None

15) Approximate Coal Seam Depths: 939'-940', 1,038'-1,047', 1,137'-1,143'

16) Approximate Depth to Possible Void (coal mine, karst, other): 300'

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: Harrison Co. Mine
Depth: 300'
Seam: Pittsburgh
Owner: ACNR Resources, Inc.

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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	A-500	85.6	40	40	50 ft^3 / CTS
Fresh Water	13 3/8	New	J-55	54.5	1193	1193	1000 ft^3 / CTS
Coal							
Intermediate	9 5/8	New	J-55	36	2651	2651	1000 ft^3 / CTS
Production	5 1/2	New	P-110	20	24971	24971	500' above intermediate casing
Tubing							
Liners							

Bryan Harris 1/31/22

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	1050	18	Class A	1.18
Fresh Water	13 3/8	17 1/2	0.380	2730	2184	Class A / Type 1	1.13 - 1.19
Coal							
Intermediate	9 5/8	12 3/8	0.352	3520	2816	Class A / Type 1	1.13 - 1.19
Production	5 1/2	8 1/2	0.361	14360	11488	Class A/H	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): 44.22

22) Area to be disturbed for well pad only, less access road (acres): 43.58

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: Class A 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.

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*Note: Attach additional sheets as needed.

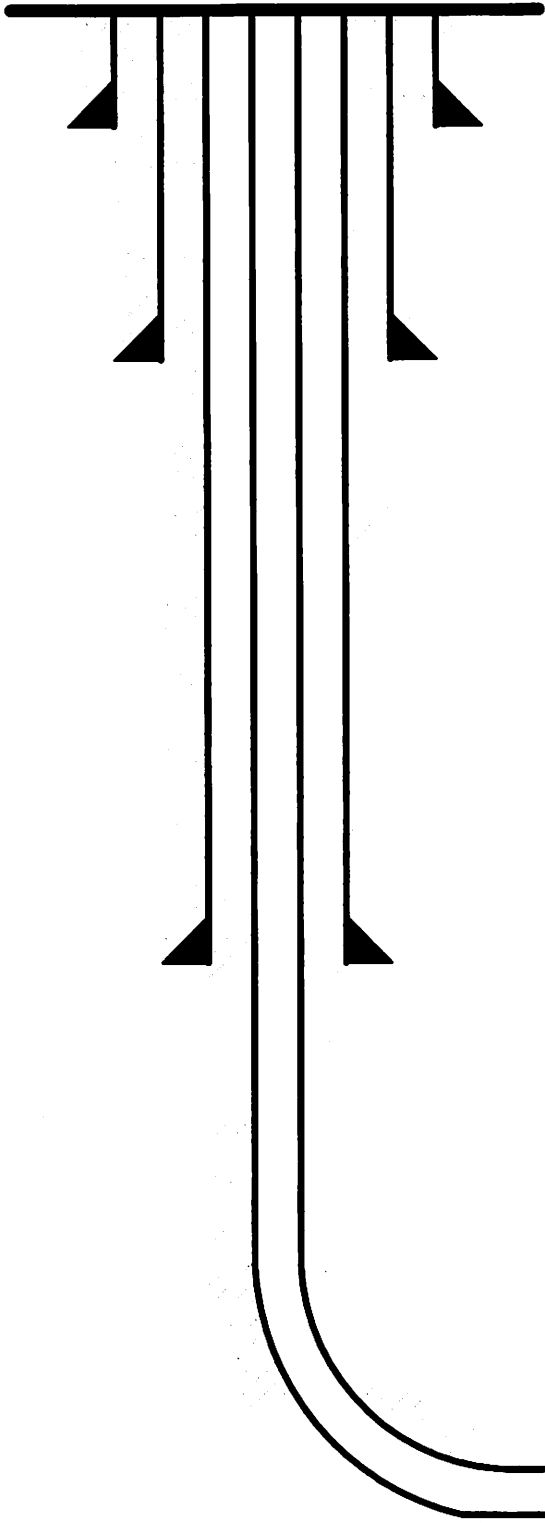
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EQT Production

Wellbore Diagram

Well: BIG 245 114H
Pad: BIG 245
Elevation: 1430' GL 1443' KB

County: Wetzel
State: West Virginia



Conductor @ 40'
26", 85.6#, A-500, cement to surface w/ Class A

Surface @ 1,193'
13-3/8", 54.5#, J-55, cement to surface w/ Class A/Type I

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Intermediate @ 2,651'
9-5/8", 36#, J-55, cement to surface w/ Class A/Type I

Production @ 24,971' MD / 7,549' TVD
5-1/2", 20#, P-110, cement to 500' inside 9-5/8" w/ Class A/H

Formation: Marcellus

EQT Production
Hydraulic Fracturing Monitoring Plan
Pad ID: BIG245
County: Wetzel

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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 BIG245 well pad: 102H, 104H, 106H, 108H, 110H, 112H, 114H.

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

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

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

1. Communications with Well Operators

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

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

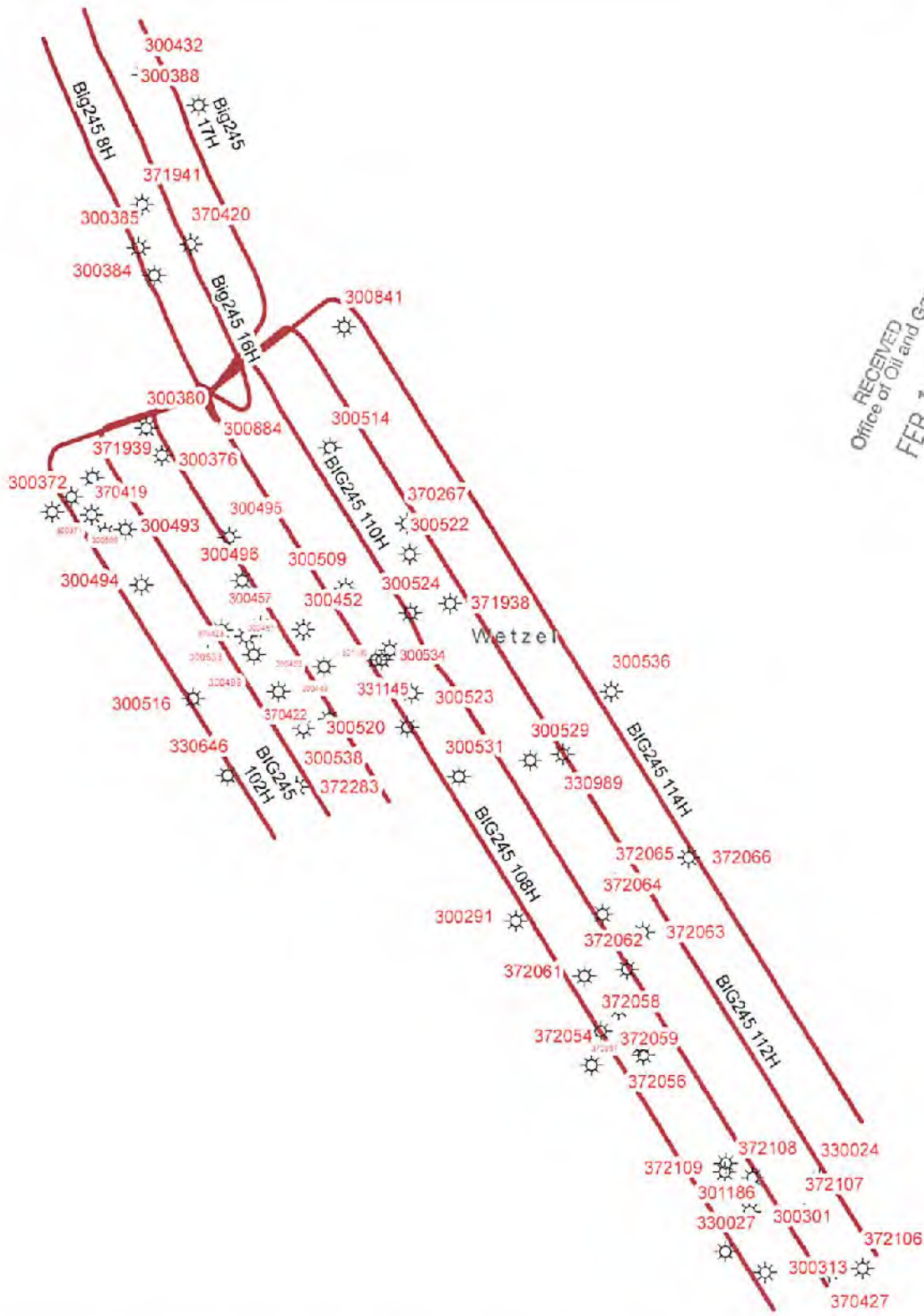
EQT will recommend to these operators at a minimum to:

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

2. Reporting

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

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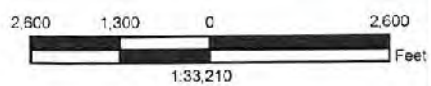
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EQT Corporation
625 Liberty Avenue
Pittsburgh, PA 15222

BIG245

Vertical Offsets and
Foreign Laterals
within 500'

- Legend
- ☼ Foreign Offset Wells
 - Well Lateral_FM
 - Genesee
 - 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.

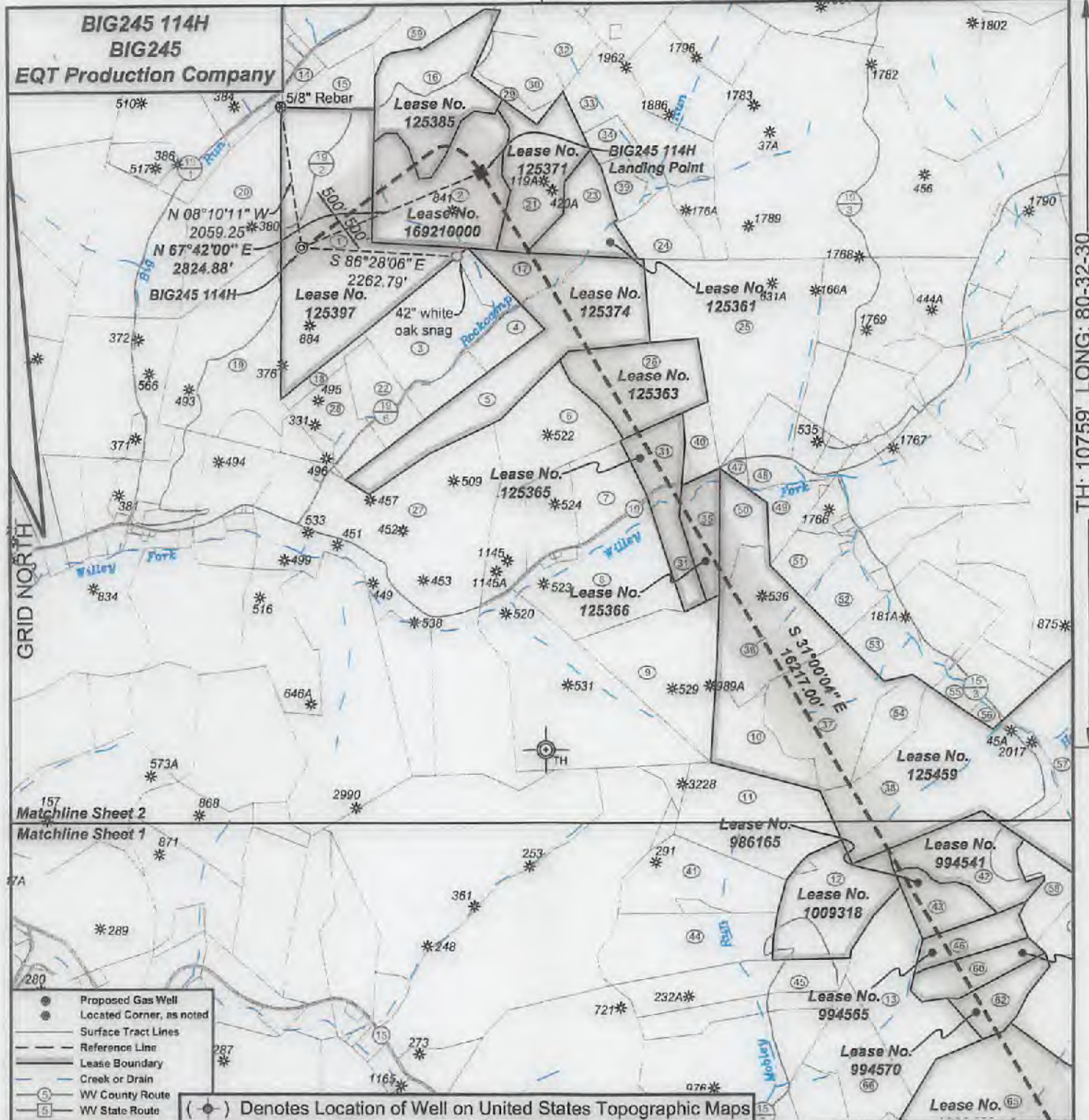


UWI	ACT_STATUS	CURR_OPER	DATUM	FNL_CLASS	INIT_CLASS	LATITUDE	LONGITUDE	OPER_NAME	SPUD_DATE	ELEVATION	TOT_DEPTH	TVD
372283	Completed Wells	HOPE NATURAL GAS	NAD27	UNCLASSIFIED	UNCLASSIFIED	39.57665700	-80.56396900	HOPE NATURAL GAS	18010101	0.00	0.00	0.00
300538	Completed Wells	EQUITABLE GAS CO	NAD27	UNCLASSIFIED	UNCLASSIFIED	39.57941500	-80.56350700	EQUITABLE GAS CO	18010101	835.00	1850.00	0.00
300841	Completed Wells	UNKNOWN	NAD27	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.59829400	-80.56077500	PHILADELPHIA OIL	18010101	0.00	0.00	0.00
372065	Completed Wells	UNKNOWN	NAD27	UNCLASSIFIED	UNCLASSIFIED	39.57201200	-80.54447700	UNKNOWN	18010101	0.00	0.00	0.00
300380	Completed Wells	UNKNOWN	NAD27	DEVELOPMENT WELL-DRY (INCLUDING TEMPORARILY ABANDONED WELL)	DEVELOPMENT WELL	39.59366200	-80.57300600	UNKNOWN	4/1/1952	1267.00	1185.00	0.00
300514	Completed Wells	J A & M OIL & GAS	NAD27	GAS STORAGE WELL	GAS STORAGE WELL	39.59263000	-80.56168100	EQUITABLE GAS CO	4/1/1962	1107.00	0.00	0.00
371941	Completed Wells	PHILADELPHIA OIL	NAD27	UNCLASSIFIED	UNCLASSIFIED	39.60410000	-80.57313900	PHILADELPHIA OIL	18010101	0.00	0.00	0.00
370420	Completed Wells	PHILADELPHIA OIL	NAD27	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.60221300	-80.57014200	PHILADELPHIA OIL	18010101	0.00	0.00	0.00
300494	Completed Wells	EQUITABLE GAS CO	NAD27	GAS STORAGE WELL	GAS STORAGE WELL	39.58626000	-80.57338100	EQUITABLE GAS CO	18010101	1086.00	2088.00	0.00
331145	Completed Wells	EQUITABLE GAS CO	NAD27	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.58260800	-80.55863700	EQUITABLE GAS CO	18010101	0.00	0.00	0.00
370422	Completed Wells	HOPE NATURAL GAS	NAD27	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.57985000	-80.56189900	HOPE NATURAL GAS	18010101	0.00	0.00	0.00
300495	Completed Wells	PITTSBURGH & W VA GAS	NAD27	DEVELOPMENT WELL-DRY (INCLUDING TEMPORARILY ABANDONED WELL)	DEVELOPMENT WELL	39.58843700	-80.56793800	PITTSBURGH & W VA GAS	5/20/1946	1109.00	2285.00	0.00
300516	Completed Wells	J A & M OIL & GAS	NAD27	UNCLASSIFIED	UNCLASSIFIED	39.58086600	-80.57025200	EQUITABLE GAS CO	18010101	1034.00	2090.00	0.00
370423	Completed Wells	PHILADELPHIA OIL	NAD27	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.58378100	-80.56695700	PHILADELPHIA OIL	18010101	0.00	0.00	0.00
372064	Completed Wells	UNKNOWN	NAD27	UNCLASSIFIED	UNCLASSIFIED	39.57056100	-80.54522600	UNKNOWN	18010101	0.00	0.00	0.00
372106	Completed Wells	UNKNOWN	NAD27	UNCLASSIFIED	UNCLASSIFIED	39.55372500	-80.52941200	UNKNOWN	18010101	0.00	0.00	0.00
372108	Completed Wells	UNKNOWN	NAD27	UNCLASSIFIED	UNCLASSIFIED	39.55807900	-80.53615600	UNKNOWN	18010101	0.00	0.00	0.00
371939	Completed Wells	UNKNOWN	NAD27	UNCLASSIFIED	UNCLASSIFIED	39.59132800	-80.57632400	UNKNOWN	18010101	0.00	0.00	0.00
300884	Completed Wells	UNKNOWN	NAD27	GAS STORAGE WELL	GAS STORAGE WELL	39.59219900	-80.56826900	EQUITABLE GAS CO	18010101	1167.00	0.00	0.00
370419	Completed Wells	HOPE NATURAL GAS	NAD27	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.59045700	-80.57763500	HOPE NATURAL GAS	18010101	0.00	0.00	0.00
300529	Completed Wells	EQUITABLE GAS CO	NAD27	GAS STORAGE WELL	GAS STORAGE WELL	39.57781500	-80.54960300	EQUITABLE GAS CO	4/1/1963	1200.00	3228.00	0.00
300457	Completed Wells	UNKNOWN	NAD27	DEVELOPMENT WELL-DRY (INCLUDING TEMPORARILY ABANDONED WELL)	DEVELOPMENT WELL	39.58422800	-80.56606200	UNKNOWN	12/2/1957	1108.00	859.00	0.00
300432	Completed Wells	UNKNOWN	NAD27	UNCLASSIFIED	UNCLASSIFIED	39.61020800	-80.57300600	UNKNOWN	5/2/1956	994.00	1495.00	0.00
300884	Completed Wells	EQUITRANS INC	NAD27	UNCLASSIFIED	DEVELOPMENT WELL	39.59219900	-80.56826900	EQUITRANS INC	11/1/1989	1167.00	2211.00	0.00
372063	Completed Wells	UNKNOWN	NAD27	UNCLASSIFIED	UNCLASSIFIED	39.56969000	-80.54279100	UNKNOWN	18010101	0.00	0.00	0.00
300536	Completed Wells	EQUITABLE GAS CO	NAD27	UNCLASSIFIED	UNCLASSIFIED	39.58101100	-80.54458600	EQUITABLE GAS CO	18010101	1207.00	2963.00	0.00
372058	Completed Wells	UNKNOWN	NAD27	UNCLASSIFIED	UNCLASSIFIED	39.56504600	-80.54541300	UNKNOWN	18010101	0.00	0.00	0.00
372107	Completed Wells	UNKNOWN	NAD27	UNCLASSIFIED	UNCLASSIFIED	39.55633700	-80.53297100	UNKNOWN	18010101	0.00	0.00	0.00
372059	Completed Wells	UNKNOWN	NAD27	UNCLASSIFIED	UNCLASSIFIED	39.56606200	-80.54428900	UNKNOWN	18010101	0.00	0.00	0.00
372056	Completed Wells	UNKNOWN	NAD27	UNCLASSIFIED	UNCLASSIFIED	39.56388500	-80.54279100	UNKNOWN	18010101	0.00	0.00	0.00
300453	Completed Wells	UNKNOWN	NAD27	UNCLASSIFIED	DEVELOPMENT WELL	39.58231700	-80.56219600	UNKNOWN	9/1/1957	979.00	725.00	0.00
372054	Completed Wells	UNKNOWN	NAD27	UNCLASSIFIED	UNCLASSIFIED	39.56344900	-80.54597500	UNKNOWN	18010101	0.00	0.00	0.00
372109	Completed Wells	UNKNOWN	NAD27	UNCLASSIFIED	UNCLASSIFIED	39.55836900	-80.53784200	UNKNOWN	18010101	0.00	0.00	0.00
371938	Completed Wells	HOPE NATURAL GAS	NAD27	UNCLASSIFIED	UNCLASSIFIED	39.58523200	-80.55440600	HOPE NATURAL GAS	18010101	0.00	0.00	0.00
300531	Completed Wells	EQUITABLE GAS CO	NAD27	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.57709200	-80.55395300	EQUITABLE GAS CO	18010101	1098.00	0.00	0.00
372057	Completed Wells	SOUTH PENN OIL	NAD27	UNCLASSIFIED	UNCLASSIFIED	39.56432000	-80.54297800	SOUTH PENN OIL	18010101	0.00	0.00	0.00
372062	Completed Wells	UNKNOWN	NAD27	UNCLASSIFIED	UNCLASSIFIED	39.56794900	-80.54372700	UNKNOWN	18010101	0.00	0.00	0.00
300523	Completed Wells	EQUITABLE GAS CO	NAD27	GAS STORAGE WELL	GAS STORAGE WELL	39.58103500	-80.55686600	EQUITABLE GAS CO	12/2/1962	846.00	0.00	0.00
300534	Completed Wells	EQUITABLE GAS CO	NAD27	GAS STORAGE WELL	GAS STORAGE WELL	39.58260800	-80.55901100	EQUITABLE GAS CO	18010101	1067.00	2880.00	0.00
300522	Completed Wells	UNKNOWN	NAD27	UNCLASSIFIED	UNCLASSIFIED	39.58756600	-80.55686600	EQUITABLE GAS CO	18010101	1214.00	3154.00	0.00
370427	Completed Wells	SOUTH PENN OIL	NAD27	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.55358000	-80.53147300	SOUTH PENN OIL	18010101	0.00	0.00	0.00
300499	Completed Wells	EQUITABLE GAS CO	NAD27	GAS STORAGE WELL	GAS STORAGE WELL	39.58289800	-80.56931500	EQUITABLE GAS CO	18010101	923.00	2712.00	0.00
372066	Completed Wells	UNKNOWN	NAD27	UNCLASSIFIED	UNCLASSIFIED	39.57317400	-80.53990300	UNKNOWN	18010101	0.00	0.00	0.00
300524	Completed Wells	EQUITABLE GAS CO	NAD27	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL-GAS	39.58480800	-80.55686600	EQUITABLE GAS CO	1/22/1919	972.00	2882.00	0.00
300384	Completed Wells	JCR PETROLEUM INC	NAD27	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL-GAS	39.60077800	-80.57244000	MCKENZIE P C CO	4/1/1953	855.00	585.00	0.00
330989	Completed Wells	CARNEGIE NATURAL GAS CORP	NAD27	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL-GAS	39.57810800	-80.54758400	CARNEGIE NATURAL GAS CORP	10/19/1916	1200.00	3221.00	0.00
300371	Completed Wells	JCR PETROLEUM INC	NAD27	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL-GAS	39.58871500	-80.57557500	FOSTER-MCKENZIE CO	1/1/1951	825.00	530.00	0.00
372061	Completed Wells	UNKNOWN	NAD27	UNCLASSIFIED	UNCLASSIFIED	39.56765800	-80.54635000	UNKNOWN	18010101	0.00	0.00	0.00
300533	Completed Wells	PITTSBURGH & W VA GAS	NAD27	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL-GAS	39.58407100	-80.56845600	PITTSBURGH & W VA GAS	10/27/1902	829.00	1928.00	0.00
300493	Completed Wells	EQUITABLE GAS CO	NAD27	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL-GAS	39.58887200	-80.57431900	EQUITABLE GAS CO	11/15/1915	1163.00	2234.00	0.00
300449	Completed Wells	NORTH FORK DEVELOPMENT	NAD27	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL-GAS	39.58135600	-80.56500600	NORTH FORK DEVELOPMENT	6/2/1957	827.00	537.00	0.00
330027	Completed Wells	UNKNOWN	NAD27	DEVELOPMENT WELL-OIL	DEVELOPMENT WELL	39.55459600	-80.53784200	UNKNOWN	1/17/1917	890.00	2784.00	0.00
300509	Completed Wells	DUNN-MAR OIL & GAS CO	NAD27	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.58597600	-80.56083500	DUNN-MAR OIL & GAS CO	12/23/1918	1155.00	3243.00	0.00
300313	Completed Wells	HOPE NATURAL GAS	NAD27	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.55358000	-80.53540700	HOPE NATURAL GAS	6/24/1944	911.00	627.00	0.00
300451	Completed Wells	NORTH FORK DEVELOPMENT	NAD27	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.58289800	-80.56650500	NORTH FORK DEVELOPMENT	6/1/1957	817.00	529.00	0.00
300372	Completed Wells	UNKNOWN	NAD27	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.58974300	-80.57882400	UNKNOWN	1/30/1951	842.00	523.00	0.00
300376	Completed Wells	JCR PETROLEUM INC	NAD27	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.59235600	-80.57206700	MCKENZIE P C CO	3/2/1952	1265.00	1008.00	0.00
300388	Completed Wells	JCR PETROLEUM INC	NAD27	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.60875600	-80.56962700	MCKENZIE P C CO	9/1/1953	938.00	666.00	0.00
330646	Completed Wells	DUNN-MAR OIL & GAS CO	NAD27	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.57723700	-80.56819100	DUNN-MAR OIL & GAS CO	1/25/1915	1197.00	3339.00	0.00
300566	Completed Wells	JCR PETROLEUM INC	NAD27	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.58959800	-80.57638400	FOSTER-MCKENZIE CO	12/2/1964	880.00	548.00	0.00
300291	Completed Wells	CARNEGIE NATURAL GAS CORP	NAD27	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.57027100	-80.55058100	CARNEGIE NATURAL GAS CORP	4/1/1949	1305.00	3334.00	0.00
301145	Completed Wells	MEADOW RIDGE DEVELOPMENT LLC	NAD27	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.58304300	-80.55815200	QUAKER STATE OIL REFINING CO	18010101	0.00	0.00	0.00
301186	Completed Wells	DIVERSIFIED RESOURCES INC	NAD27	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.55878040	-80.53778600	M & F OIL & GAS CO	18010101	1381.00	2500.00	0.00
370267	Completed Wells	HOPE NATURAL GAS	NAD27	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.58900600	-80.55702800	HOPE NATURAL GAS	18010101	0.00	0.00	0.00
300452	Completed Wells	NORTH FORK DEVELOPMENT	NAD27	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.58407200	-80.56345900	NORTH FORK DEVELOPMENT	7/2/1957	886.00	614.00	0.00
330024	Completed Wells	HOPE NATURAL GAS	NAD27	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.55793400	-80.53203500	HOPE NATURAL GAS	18010101	1229.00	2330.00	0.00
300496	Completed Wells	PITTSBURGH & W VA GAS	NAD27	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.58640500	-80.56718800	PITTSBURGH & W VA GAS	6/20/1902	844.00	2785.00	0.00
300385	Completed Wells	JCR PETROLEUM INC	NAD27	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.60208000	-80.57338100	MCKENZIE P C CO	7/2/1953	905.00	647.00	0.00

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300495	Completed Wells	THE PHILADELPHIA CO	NAD27	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.58843700	-80.56793800	THE PHILADELPHIA CO	9/28/1903	1109.00	2100.00	0.00
300301	Completed Wells	ROSS & WHARTON GAS CO	NAD27	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.55648300	-80.53634400	HOPE NATURAL GAS	12/2/1943	933.00	651.00	0.00
300520	Completed Wells	HOPE NATURAL GAS	NAD27	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.57941500	-80.55713800	HOPE NATURAL GAS	7/3/1919	937.00	2025.00	0.00

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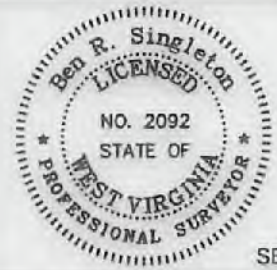
- Proposed Gas Well
- Located Corner, as noted
- Surface Tract Lines
- - - Reference Line
- Lease Boundary
- Creek or Drain
- ⑤ WV County Route
- ⑥ WV State Route

(●) 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.

Ben R. Singleton
P.S. 2092



SEAL

FILE NO: 246-18
DRAWING NO: BIG245 114H
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: February 11 20 22
OPERATOR'S WELL NO.: BIG245 114H
API WELL NO MOD
47 - 103 - 03446
STATE COUNTY PERMIT

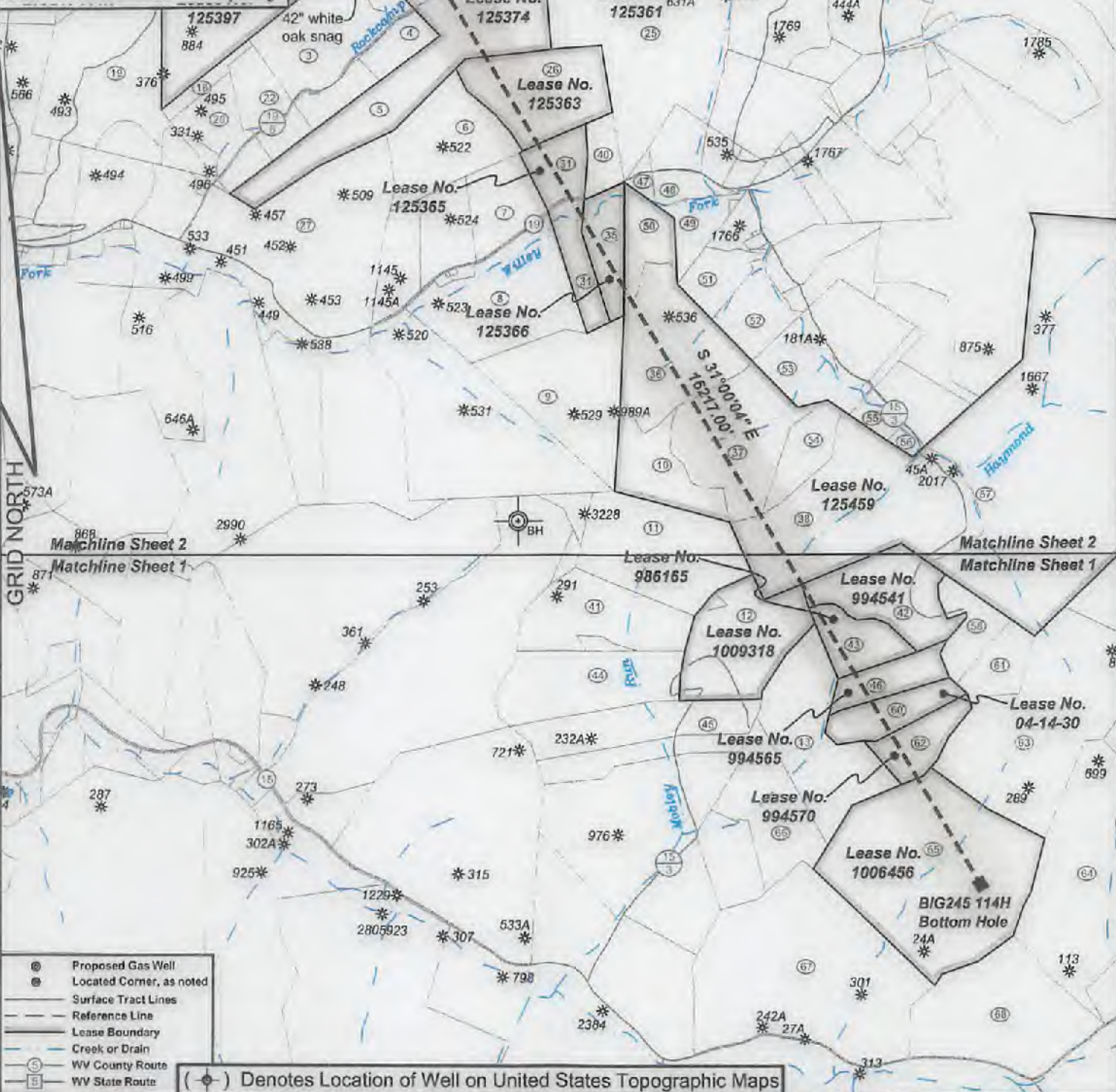
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: 1430' WATERSHED Rockcamp Run of Willey Fork QUADRANGLE: Big Run
DISTRICT: Grant COUNTY: Wetzel
SURFACE OWNER: ET Blue Grass LLC ACREAGE: 138.93
ROYALTY OWNER: Shiben Estates, Inc., et al. LEASE NO: 125397 ACREAGE: 140
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: 7.549'

03/04/2022

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

BH: 8303' LAT: 39-35-00

BIG245 114H
BIG245
EQT Production Company



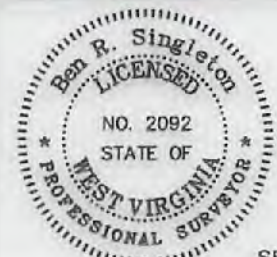
- Proposed Gas Well
- Located Corner, as noted
- Surface Tract Lines
- Reference Line
- Lease Boundary
- Creek or Drain
- Ⓢ WV County Route
- Ⓡ WV State Route

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

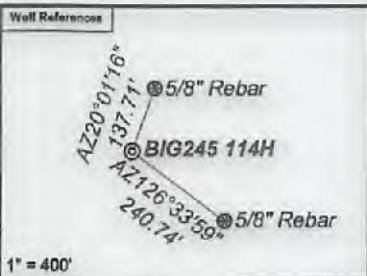
DATE: February 11 20 22
OPERATOR'S WELL NO.: BIG245 114H
API WELL NO MOD
47 - 103 - 03446
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: 1430' WATERSHED Rockcamp Run of Willey Fork QUADRANGLE: Big Run
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03/04/2022

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

BIG245 114H
BIG245
EQT Production Company

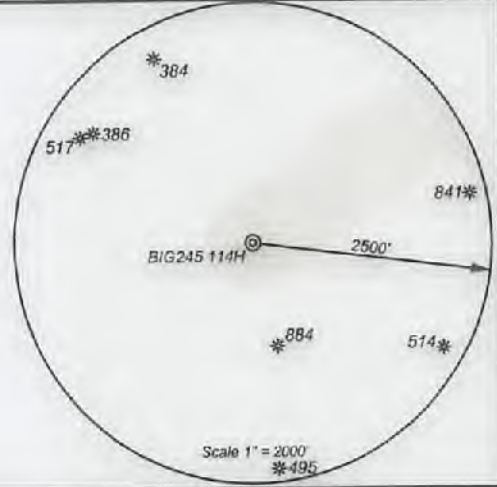


Notes:
BIG245 114H coordinates are
NAD 27 N: 400,782.88 E: 1,698,796.24
NAD 27 Lat: 39.595462 Long: -80.588882
NAD 83 UTM N: 4,382,957.05 E: 537,032.56
BIG245 114H Landing Point coordinates are
NAD 27 N: 401,854.60 E: 1,701,409.84
NAD 27 Lat: 39.598490 Long: -80.559653
NAD 83 UTM N: 4,383,296.94 E: 537,623.40
BIG245 114H Bottom Hole coordinates are
NAD 27 N: 387,954.07 E: 1,709,782.47
NAD 27 Lat: 39.560595 Long: -80.529448
NAD 83 UTM N: 4,379,104.51 E: 540,438.68
West Virginia Coordinate 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.

Tract ID	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	8	22	Wetzel	Grant	ET Blue Grass LLC	138.93
2	8	15	Wetzel	Grant	John Michael Byard	71.60
3	8	28	Wetzel	Grant	James A. Yoho	61.00
4	8	26	Wetzel	Grant	Mary Jane Byard	15.00
5	8	32	Wetzel	Grant	Joe Pigg	82.40
6	9	26	Wetzel	Grant	Sharilyn Snider	55.53
7	9	40	Wetzel	Grant	Sharilyn Snider	24.00
8	0	52	Wetzel	Grant	Norman Derby	61.51
9	14	8	Wetzel	Grant	Esther R. Coen	58.50
10	14	10	Wetzel	Grant	John W. Wycoff & Carolyn S. McGill	20.00
11	14	16	Wetzel	Grant	John W. Wycoff & Carolyn S. McGill	65.70
12	14	23	Wetzel	Grant	Equitrans LP	51.00
13	14	28	Wetzel	Grant	Dale C. Eastham, et al.	57.00
14	8	13.1	Wetzel	Grant	Duane M. Goodrich	3.50
15	8	7	Wetzel	Grant	James E. & Martin A. Storking	19.12
16	8	8	Wetzel	Grant	Wanda L. Byard	59.16
17	0	22	Wetzel	Grant	James A. Yoho	17.00
18	8	25	Wetzel	Grant	James A. Yoho	6.25
19	8	23	Wetzel	Grant	Dale K. Outsoy, et al.	70.81
20	8	11	Wetzel	Grant	Bonnie M. Hesthorne	62.50
21	0	83	Wetzel	Grant	Mary E. Wright, et al.	45.00
22	8	27	Wetzel	Grant	James A. Yoho	21.73
23	0	12	Wetzel	Grant	James A. Yoho	27.00
24	9	17	Wetzel	Grant	Loisie Watson	20.08
25	0	23	Wetzel	Grant	Stephen B. & Carolyn M. Gariz	119.09
26	0	29	Wetzel	Grant	William & Margaret Schaefer	47.90
27	8	53	Wetzel	Grant	H. Don Haggelbarn	185.21
28	8	26	Wetzel	Grant	James A. Yoho	23.25
29	8	50	Wetzel	Grant	Mary E. Wright, et al.	4.25
30	8	9	Wetzel	Grant	Mary E. Wright, et al.	24.00
31	9	53	Wetzel	Grant	Norman R. & Vivian L. Derby	32.80
32	4	13	Wetzel	Grant	Olive Marie Utz	15.17
33	9	8	Wetzel	Grant	James A. Yoho	45.88
34	9	0	Wetzel	Grant	Wanda Valley, et al.	11.20
35	9	54	Wetzel	Grant	Jack L. & Leanna C. Barmette	17.40
36	14	0	Wetzel	Grant	Leonard Rice	85.00
37	14	11	Wetzel	Grant	Thomas J. Parks, et al.	34.44
38	14	19	Wetzel	Grant	Coastal Forest Resources Company	138.68
39	9	15	Wetzel	Grant	Oval Storking Estate	8.82
40	9	41	Wetzel	Grant	William Schaefer	11.96
41	14	22	Wetzel	Grant	John W. Wycoff & Carolyn S. McGill	48.00
42	14	25	Wetzel	Grant	Clara Storking	35.88
43	14	24	Wetzel	Grant	EQT Production Company	18.20
44	14	28	Wetzel	Grant	EQT Production Company	90.90
45	14	37	Wetzel	Grant	EQT Production Company	36.50
46	14	20	Wetzel	Grant	ET Blue Grass, LLC	17.00
47	9	42	Wetzel	Grant	Jack L. & Leanna C. Barmette	2.89
48	9	43	Wetzel	Grant	Norman R. & Vivian L. Derby	14.40
49	9	45	Wetzel	Grant	Dewayne & Patricia L. Morris	19.05
50	9	55	Wetzel	Grant	Jack L. & Leanna C. Barmette	18.40
51	9	56	Wetzel	Grant	Leonard E. & Edwin C. Rice	18.90
52	14	1	Wetzel	Grant	Leonard E. & Edwin C. Rice	21.05
53	14	12	Wetzel	Grant	Thomas J. Parks, et al.	16.00
54	14	19.1	Wetzel	Grant	Thomas J. Parks, et al.	16.62
55	14	14	Wetzel	Grant	Mary Yost, et al.	21.40
56	14	13	Wetzel	Grant	Coastal Forest Resources Company	2.80
57	14	15	Wetzel	Grant	Coastal Forest Resources Company	20.88
58	14	26	Wetzel	Grant	Mary J. Byard	14.50
59	7	21	Wetzel	Grant	Ralph D. Thecker, et al.	27.50
60	14	30	Wetzel	Grant	Equitrans LP	20.50
61	14	32	Wetzel	Grant	Mary Jane Byard	13.50
62	14	31	Wetzel	Grant	Donald J. D'Lusky, Jr.	10.00
63	14	33	Wetzel	Grant	Albee H. & Hilda B. Conway	103.00
64	14	47	Wetzel	Grant	Donald J. D'Lusky	113.06
65	14	49	Wetzel	Grant	Donald J. D'Lusky, Jr.	131.00
66	14	39.3	Wetzel	Grant	Dale Eastham, et al.	38.65
67	15	7	Wetzel	Grant	Florence E. Kitzome	187.00
68	10	8	Wetzel	Grant	Donald J. D'Lusky, Jr.	71.30

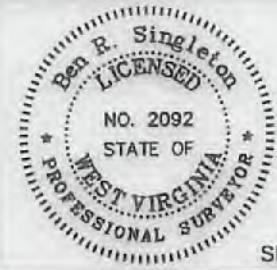
- BIG245**
- ⊙ BIG245 114H
 - ⊙ BIG245 112H
 - ⊙ BIG245 110H
 - ⊙ BIG245 108H
 - ⊙ BIG245 106H
 - ⊙ BIG245 104H
 - ⊙ BIG245 102H
 - ⊙ 47-103-03236
 - ⊙ 47-103-03236

Lease No.	Owner	Acres
169210000	Liberty Holding Company, Inc	71.5
125385	Jeffery Todd Longwell, et al.	61
125371	Joseph F. Kiger, et al.	46
125361	Three Rivers Royalty II, LLC, et al	27
125374	Jordan Zachary Pigg, et al.	100
125363	Stone Hill Minerals Holdings, LLC	48
125385	Norman R. Derby and Vivian L. Derby	33
125366	OXY USA Inc., et al.	18
1009318	Thomas L. Lewis, et al.	51
125459	Randol J. Hartman, et al.	693
994541	Dan Coleman, et al.	35.88 of 131
986165	Thomas Lee Lewis, Sr., et al.	19.20
994565	Darla Schroeder, et al.	17
04-14-30	Scott Carter, acting as Executor of the Estate of Shirley Gay Carter a/k/a Shirley G. Carter, deceased	19.04
994570	John William Kilbourne, Jr., et al.	19
1008456	Valerie D. Preat, et al.	131



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.

Ben R. Singleton
P.S. 2092



SEAL

FILE NO: 248-18
DRAWING NO: BIG245 114H
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: February 11 20 22
OPERATOR'S WELL NO.: BIG245 114H
API WELL NO MDD
47 - 103 - 03446
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: 1430' WATERSHED: Rockcamp Run of Willey Fork QUADRANGLE: Big Run
DISTRICT: Grant COUNTY: Wetzel
SURFACE OWNER: ET Blue Grass LLC ACREAGE: 138.93
ROYALTY OWNER: Shiben Estates, Inc., et al. LEASE NO: 125397 ACREAGE: 140
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: 7.549'

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

03/04/2022

**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 Attachment

**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.	Grantee, Lessee, etc.	Royalty	Book/Page
<u>125397</u>	<u>Shiben Estates, Inc., et al.</u> Joseph Shiben and Minnie Shiben, his wife, et al Equitable Gas Company Equitrans, Inc. EQT Capital Corporation Equitable Resources, Inc. Equitable Gas Company, LLC and EQT Corporation Equitrans, LP	140 ac Equitable Gas Company Equitrans, Inc. EQT Capital Corporation Equitable Resources, Inc. Equitable Gas Company, LLC Equitrans, LP	"at least 1/8th per WV Code 22-6-8"	OG 44A/224 OG 71A/453 Corp. 13/213 Corp. 13/213 Corp. 13/230 Misc. 105/908 OG 131A/81
<u>169210000</u>	<u>Liberty Holding Company, Inc.</u> Liberty Holding Company, Inc.	71.5 ac EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 262A/145
<u>125385</u>	<u>Jeffery Todd Longwell, et al.</u> Eunice Roberts and Walter Roberts, her husband, et al Equitable Gas Company Equitrans, Inc. EQT Capital Corporation Equitable Resources, Inc. Equitable Gas Company, LLC and EQT Corporation Equitrans, LP	61 ac Equitable Gas Company Equitrans, Inc. EQT Capital Corporation Equitable Resources, Inc. Equitable Gas Company, LLC Equitrans, LP EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 52A/281 OG 71A/453 Corp. 13/213 Corp. 13/213 Corp. 13/230 Misc. 105/908 OG 131A/81

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/125371	<u>Joseph F. Kiger, et al.</u>	46 ac	Equitable Gas Company Equitrans, Inc. EQT Capital Corporation Equitable Resources, Inc. Equitable Gas Company, LLC and EQT Corporation Equitrans, LP	*at least 1/8th per WV Code 22-6-8"	OG 57A/125 OG 71A/453 Corp. 13/213 Corp. 13/213 Corp. 13/230 Misc. 105/908 OG 131A/81
/125361	<u>Three Rivers Royalty II, LLC, et al.</u>	27 ac	Equitable Gas Company Equitrans, Inc. EQT Capital Corporation Equitable Resources, Inc. Equitable Gas Company, LLC and EQT Corporation Equitrans, LP	*at least 1/8th per WV Code 22-6-8"	OG 52A/93 OG 71A/453 Corp. 13/213 Corp. 13/213 Corp. 13/230 Misc. 105/908 OG 131A/81
/125374	<u>Jordan Zachary Pigg, et al.</u>	100 ac	Equitable Gas Company Equitrans, Inc. EQT Capital Corporation Equitable Resources, Inc. Equitable Gas Company, LLC and EQT Corporation Equitrans, LP	*at least 1/8th per WV Code 22-6-8"	OG 52A/165 OG 71A/453 Corp. 13/213 Corp. 13/213 Corp. 13/230 Misc. 105/908 OG 131A/81

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/125363	Stone Hill Minerals Holdings, LLC Earl L. Tuttle and Opal B. Tuttle, his wife Equitable Gas Company Equitrans, Inc. EQT Capital Corporation Equitable Resources, Inc. Equitable Gas Company, LLC and EQT Corporation Equitrans, LP	48 ac	Equitable Gas Company Equitrans, Inc. EQT Capital Corporation Equitable Resources, Inc. Equitable Gas Company, LLC Equitrans, LP EQT Production Company	OG 52A/98 OG 71A/453 Corp. 13/213 Corp. 13/213 Corp. 13/230 Misc. 105/908 OG 131A/81
/125365	Norman R. Derby and Vivian L. Derby Swain W. Haught, single Equitable Gas Company Equitrans, Inc. EQT Capital Corporation Equitable Resources, Inc. Equitable Gas Company, LLC and EQT Corporation Equitrans, LP	33 ac	Equitable Gas Company Equitrans, Inc. EQT Capital Corporation Equitable Resources, Inc. Equitable Gas Company, LLC Equitrans, LP EQT Production Company	*at least 1/8th per WV Code 22-6-8" OG 52A/95 OG 71A/453 Corp. 13/213 Corp. 13/213 Corp. 13/230 Misc. 105/908 OG 131A/81
/125366	OXY USA Inc., et al. Harvey Haught, widower Equitable Gas Company Equitrans, Inc. EQT Capital Corporation Equitable Resources, Inc. Equitable Gas Company, LLC and EQT Corporation Equitrans, LP	18 ac	Equitable Gas Company Equitrans, Inc. EQT Capital Corporation Equitable Resources, Inc. Equitable Gas Company, LLC Equitrans, LP EQT Production Company	*at least 1/8th per WV Code 22-6-8" OG 48A/312 OG 71A/453 Corp. 13/213 Corp. 13/213 Corp. 13/230 Misc. 105/908 OG 131A/81
/1009318	Thomas L. Lewis, et al Thomas L. Lewis, a widower	51 ac	EQT Production Company	*at least 1/8th per WV Code 22-6-8" OG 174A/163

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125459	<p><u>Randel J. Hartman, et al.</u> Virginia Myers and William S. Myers, her husband, et al Equitable Gas Company Columbia Gas Transmission Corporation Columbia Natural Resources, Inc. Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C. Statoilhydro USA Onshore Properties Inc. Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties, Inc. SWN Exchange Titleholder, LLC SWN Production Company, LLC Statoil USA Onshore Properties, Inc. Antero Exchange Properties LLC Antero Resources Corporation</p>	693 ac	<p>Equitable Gas Company Columbia Gas Transmission Corporation Columbia Natural Resources, Inc. Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C. Statoilhydro USA Onshore Properties Inc. Statoil USA Onshore Properties, Inc. SWN Production Company, LLC SWN Exchange Titleholder, LLC SWN Production Company, LLC Antero Exchange Properties LLC Antero Exchange Properties LLC Antero Resources Corporation EQT Production Company</p>	"at least 1/8th per WV Code 22-6-8"	<p>OG 47A/16 OG 64A/442 OG 72A/368 Corp. 12/622 DB 402/446 OG 97A/578 WV SOS OG 157A/540 OG 158A/801 Corp. 13/298 OG 177A/533 OG 177A/738 Corp. 13/311 OG 227A/932</p>
994541	<p><u>Dan Coleman, et al.</u> Dan Coleman, in his own right</p>	35.88 ac (131 ac)	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 144A/9
986165	<p><u>Thomas Lee Lewis, Sr., et al</u> Tom Lewis, a widower Antero Resources Corporation</p>	19.20 ac	<p>Antero Resources Corporation EQT Production Company</p>	"at least 1/8th per WV Code 22-6-8"	<p>OG 193A/162 OG 231A/59 & 231A/158</p>
994565	<p><u>Darla Schroeder, et al.</u> Darla Schroeder, f/k/a Darla Bickel, married, dealing in her sole and separate property</p>	17 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 145A/623
04-14-30	<p><u>Scott Carter, acting as Executor of the Estate of Shirley Gay Carter a/k/a Shirley G. Carter, deceased</u> Scott Carter, acting as Executor of the Estate of Shirley Gay Carter a/k/a Shirley G. Carter, deceased</p>	19.04 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	See Permitting Letter attached

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✓ 994570

John William Kilcoyne, Jr., et al.

John William Kilcoyne a/k/a John W. Kilcoyne and Florence
E. Kilcoyne

19 ac

EQT Production Company

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

OG 148A/914

✓ 1006456

Valerie D. Preat, et al

Freda G. Watts, a widow

131 ac

EQT Production Company

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

OG 178A/557

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Office of Oil and Gas
FEB 16 2022
WV Department of
Environmental Protection

December 1, 2021

WV Department of Environmental Protection
Attn: Mr. Charles T. Brewer – Assistant Permitting Chief
601 57th Street, SE
Charleston, WV 25304

Re: Permitting Letter - Oil and Gas Lease between Scott Carter, acting as Executor of the Estate of Shirley Gay Carter and EQT Production Company

Mr. Brewer:

By this letter, we are advising you that Scott E. Carter, acting as Executor of the Estate of Shirley Gay Carter a/k/a Shirley G. Carter, deceased and EQT Production Company ("EQT") have entered into good faith negotiations to execute an Oil and Gas Lease ("Lease") on or before March 19th, 2022 covering certain oil and gas interests owned by the Estate of Shirley Gay Carter a/k/a Shirley G. Carter, deceased, situate in Wetzel County, West Virginia (the "Interests"). The Estate of Shirley Gay Carter a/k/a Shirley G. Carter, deceased is the sole owner of all rights to develop, extract, produce and market the hydrocarbons from such Interests. Such Interests are identified in Exhibit "A" attached hereto. Subject to the good faith negotiations, and by virtue of the execution of this letter, Scott E. Carter, acting as Executor of the Estate of Shirley Gay Carter a/k/a Shirley G. Carter, deceased, has agreed to allow EQT to proceed with certain pre-closing operations with respect to the Interests.

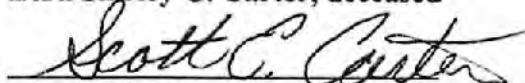
Scott E. Carter, acting as Executor of the Estate of Shirley Gay Carter a/k/a Shirley G. Carter, deceased, hereby provides its approval, without objection, for EQT to make regulatory permit applications and, upon receipt of all necessary permits and governmental approvals, to proceed with the development and extraction of the hydrocarbons, including all rights to develop, extract, produce and market the hydrocarbons from the Interests ("Pre-Closing Operations"). Please accept this letter as notice of the agreement by the parties to allow for such Pre-Closing Operations.

The Lease transferring all remaining rights and obligations concerning the Interests will be executed on or before March 19th, 2022.

If you have any questions concerning this matter, please contact the undersigned.

Sincerely,

Estate of Shirley Gay Carter
a/k/a Shirley G. Carter, deceased



By: Scott E. Carter

Its: Executor

Email: scottc48@twc.com

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Environmental Protection

03/04/2022

EQT Production Company

By: Corey C. Peck
Its: Authorized Agent
Email:

EXHIBIT A

Grantor	Grantee	Date	County	Recording Info	Instrument	Parcel	Gross
Shirley Carter et al	Equitrans, LP	9/29/2015	Wetzel	Deed Book 446 at page 658	189722	04-14-30	19.04 ac

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03/04/2022



February 15, 2022

Via FedEx Overnight

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

RE: Well Work Permit Modification
BIG245 114H Well
Permit Number 47-103-03446
Grant District, Wetzel County, WV

WVDEP Recipient,

Attached please find following information to modify the existing Well Work Permit for this well:

- Check in the amount of \$2,500 for the permit fee
- Completed Form WW-6B and supporting documents, approved by the Oil and Gas Inspector
- Revised Well Bore Diagram
- Well Location Plat
- Completed Form WW-6A1 and supporting documentation
- Hydraulic Fracturing Monitoring Plan
- Disk containing a modification to the Water Management Plan and site drawings to change the size of the AST associated with this site.

EQT is proposing to extend the lateral from the previously permitted length, add a water source to the Water Management Plan and modify the size of the approved 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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FEB 16 2022

WV Department of
Environmental Protection

CHECK# 591355
DATE 1/19/2022
\$2,500.00

03/04/2022



Stansberry, Wade A <wade.a.stansberry@wv.gov>

Modification Horizontal H6A Well Work Permit API: 47-103-03441, 03443, 03445, 03446)

1 message

Stansberry, Wade A <wade.a.stansberry@wv.gov>

Mon, Feb 28, 2022 at 12:45 PM

To: Branden.Weimer@eqt.com, John <JZavatchan@eqt.com>, Todd <tklaner@eqt.com>, Erin Spine <espine@eqt.com>, "Shrum, Becky" <bshrum@eqt.com>, Olivia Pishioneri <opishioneri@eqt.com>, Scott Lemley <slemley@wvassessor.com>, "Harris, Bryan O" <bryan.o.harris@wv.gov>

I have attached a copy of the newly issued well [permit](#) number. This will serve as your copy.





47-103-03441 - BIG 245 104H
47-103-03443 - BIG 245 108H
47-103-03445 - BIG 245 112H
47-103-03446 - BIG 245 114H

If you have any questions, then [please](#) contact us here at the Office of Oil and Gas.

Thank you,

Wade A. Stansberry
Environmental Resource Specialist 3
West Virginia Department of Environmental Protection
Office of Oil & Gas
601 57th St. SE
Charleston, WV 25304
(304) 926-0499 ext. 41115
(304) 926-0452 fax
Wade.A.Stansberry@wv.gov

4 attachments

-  **47-103-03441 - mod.pdf**
1401K
-  **47-103-03446 - mod.pdf**
1668K
-  **47-103-03443 - mod.pdf**
1605K
-  **47-103-03445 - mod.pdf**
1426K

03/04/2022