



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

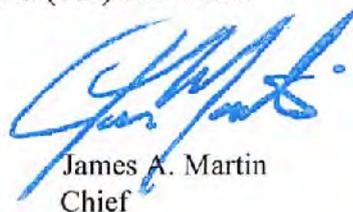
Re: Permit Modification Approval for BIG245 108H
47-103-03443-00-00

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.



James A. Martin
Chief

Operator's Well Number: BIG245 108H
Farm Name: ET BLUE GRASS LLC
U.S. WELL NUMBER: 47-103-03443-00-00
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: 108H 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: 26,054'

11) Proposed Horizontal Leg Length: 18,131'

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	26054	26054	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.

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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

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25) Proposed borehole conditioning procedures:

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

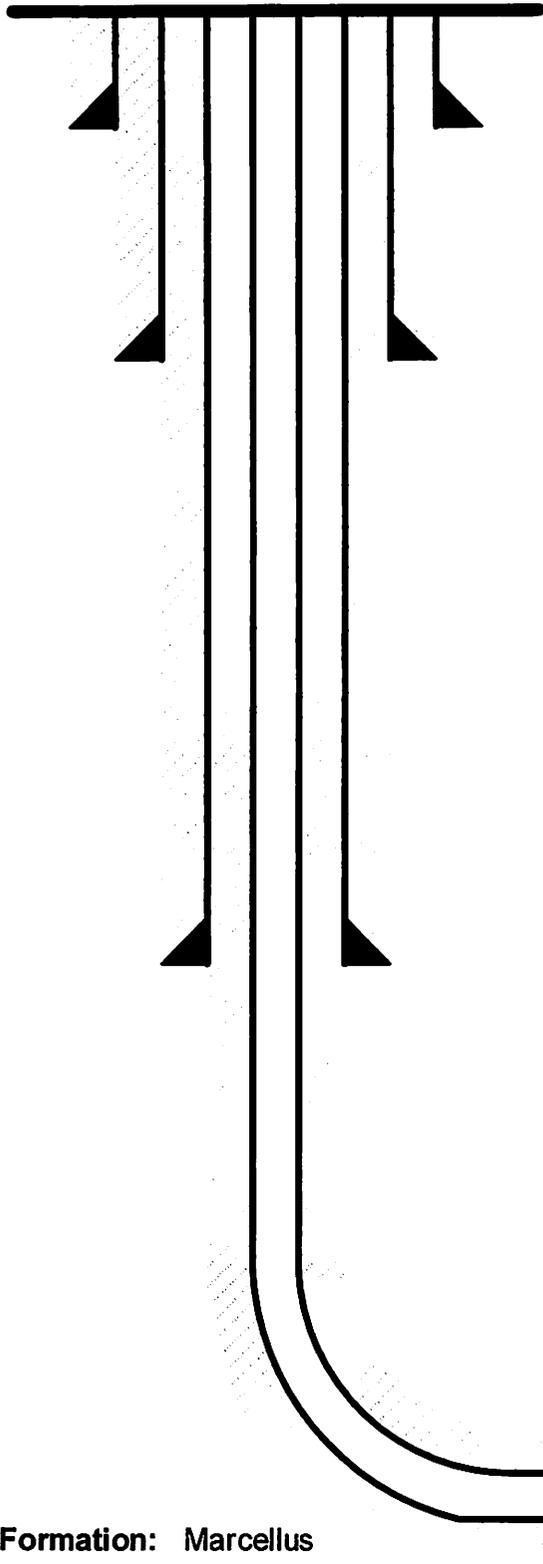
*Note: Attach additional sheets as needed.

EQT Production

Wellbore Diagram

Well: BIG 245 108H
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 @ 26,054' MD / 7,549' TVD

5-1/2", 20#, P-110, cement to 500' inside 9-5/8" w/ Class A/H

Formation: Marcellus

030712092 SCALE

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

February 15, 2022

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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.

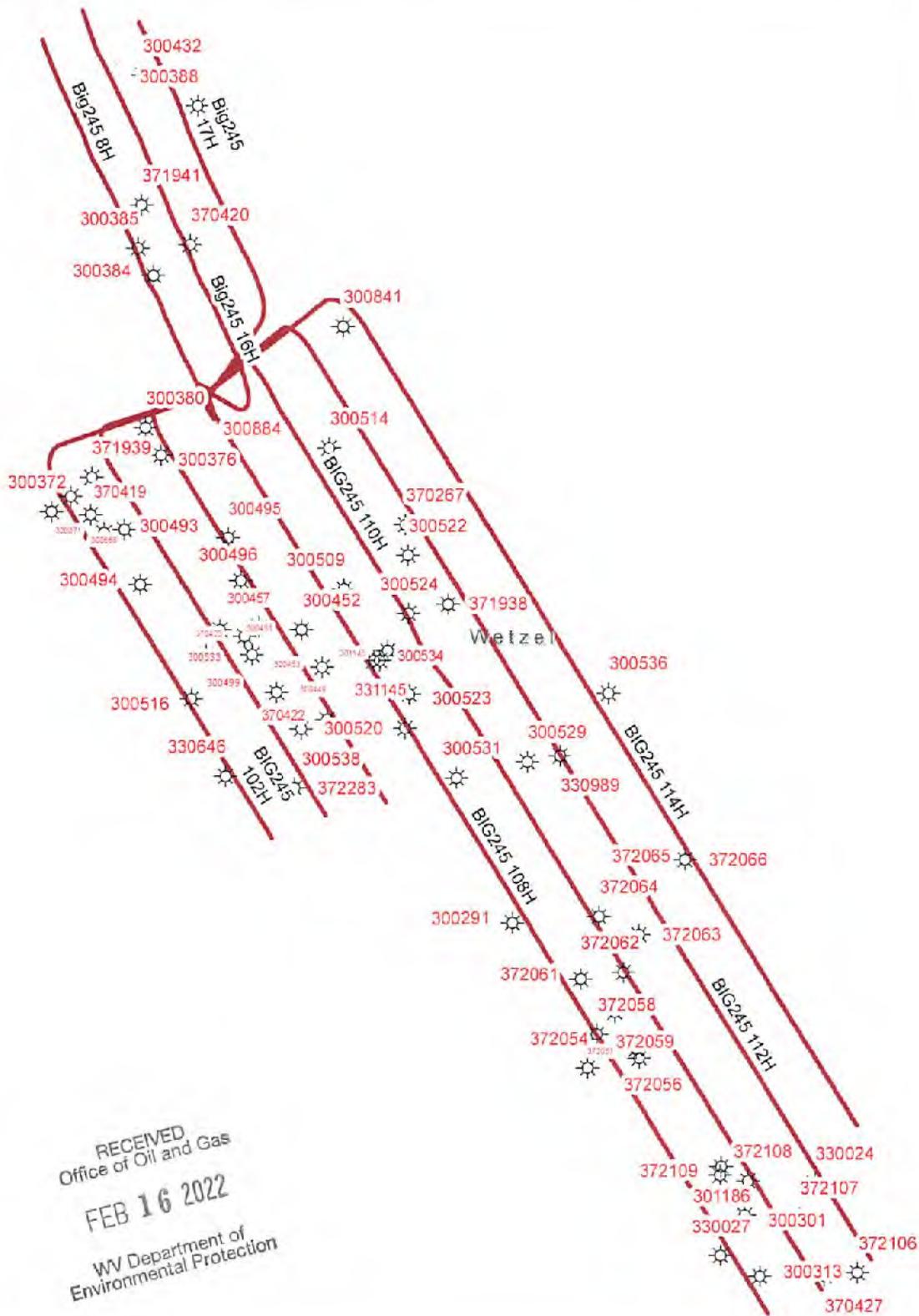
EQT will recommend to these operators at a minimum to:

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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EQT

EQT Corporation
625 Liberty Avenue
Pittsburgh, PA 15222

BIG245

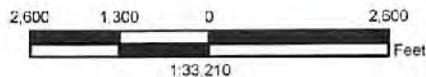
Vertical Offsets and
Foreign Laterals
within 500'

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.

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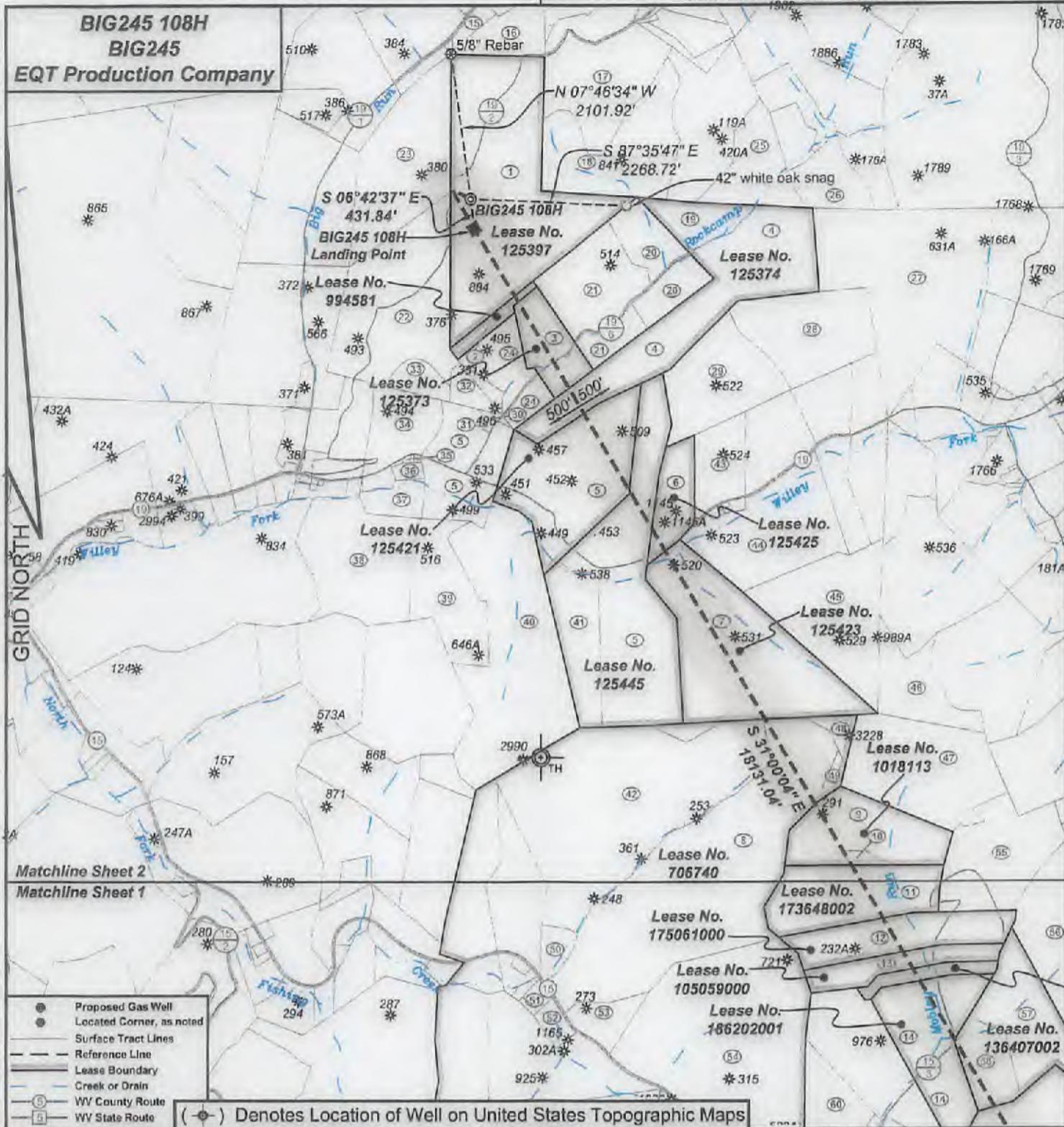
UWI	ACT_STATUS	CURR_OPER	DATUM	FNL_CLASS	INIT_CLASS	LATITUDE	LONGITUDE	OPER_NAME	SPUD_DATE	ELEVATION	TOT_DEPTH	TVD
372283	Completed Wells	HOPE NATURAL GAS	NAD27	UNCLASSIFIED	UNCLASSIFIED	39.57665700	-80.56396000	HOPE NATURAL GAS	18010101	0.00	0.00	0.00
300538	Completed Wells	EQUITABLE GAS CO	NAD27	UNCLASSIFIED	UNCLASSIFIED	39.57941500	-80.56350700	EQUITABLE GAS CO	18010101	836.00	1850.00	0.00
300842	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	-80.56793600	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	-80.56315600	UNKNOWN	18010101	0.00	0.00	0.00
371939	Completed Wells	UNKNOWN	NAD27	UNCLASSIFIED	UNCLASSIFIED	39.58132800	-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	39.58122800	-80.56506200	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
300894	Completed Wells	EQUITRANS INC	NAD27	UNCLASSIFIED	UNCLASSIFIED	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	39.56506200	-80.54428900	UNKNOWN	18010101	0.00	0.00	0.00
372056	Completed Wells	UNKNOWN	NAD27	UNCLASSIFIED	UNCLASSIFIED	39.56108500	-80.54279100	UNKNOWN	18010101	0.00	0.00	0.00
300453	Completed Wells	UNKNOWN	NAD27	UNCLASSIFIED	UNCLASSIFIED	39.58231700	-80.56219600	UNKNOWN	9/1/1957	979.00	725.00	0.00
372054	Completed Wells	UNKNOWN	NAD27	UNCLASSIFIED	UNCLASSIFIED	39.56341900	-80.54597500	UNKNOWN	18010101	0.00	0.00	0.00
372109	Completed Wells	UNKNOWN	NAD27	UNCLASSIFIED	UNCLASSIFIED	39.55836900	-80.53781200	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
300511	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	-80.54294000	SOUTH PENN OIL	18010101	0.00	0.00	0.00
372062	Completed Wells	UNKNOWN	NAD27	UNCLASSIFIED	UNCLASSIFIED	39.56794900	-80.54827200	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	-80.55685600	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	39.56150000	-80.53142400	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	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	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	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	39.58821500	-80.57557500	FOSTER-MCKENZIE CO	1/2/1951	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	39.58407100	-80.58845600	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	39.58887200	-80.57481900	EQUITABLE GAS CO	11/14/1915	1163.00	2234.00	0.00
300449	Completed Wells	NORTH FORK DEVELOPMENT	NAD27	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.58135600	-80.56506600	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	3743.00	0.00
300313	Completed Wells	HOPE NATURAL GAS	NAD27	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.53588000	-80.53540700	HOPE NATURAL GAS	6/24/1944	911.00	677.00	0.00
300451	Completed Wells	NORTH FORK DEVELOPMENT	NAD27	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.53289800	-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	39.57237700	-80.56681900	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	-80.57534000	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	-80.55405700	QUAKER STATE OIL REFINING CO	18010101	0.00	0.00	0.00
301186	Completed Wells	DIVERSIFIED RESOURCES INC	NAD27	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.58788040	-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	39.58500600	-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	39.55293400	-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	39.58540500	-80.56714800	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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 WV Department of

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

TH: 7677' LAT: 39-37-30

BIG245 108H
BIG245
EQT Production Company



TH: 10804' LONG: 80-32-30

Matchline Sheet 2
Matchline Sheet 1

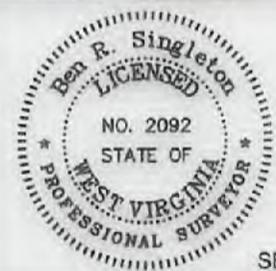
- Proposed Gas Well
- Located Corner, as noted
- Surface Tract Lines
- - - Reference Line
- Lease Boundary
- Creek or Drain
- Ⓢ WY County Route
- Ⓟ WV State Route

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



I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

Ben R. Singleton
P.S. 2092



SEAL

FILE NO: 246-18
DRAWING NO: BIG245 108H
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

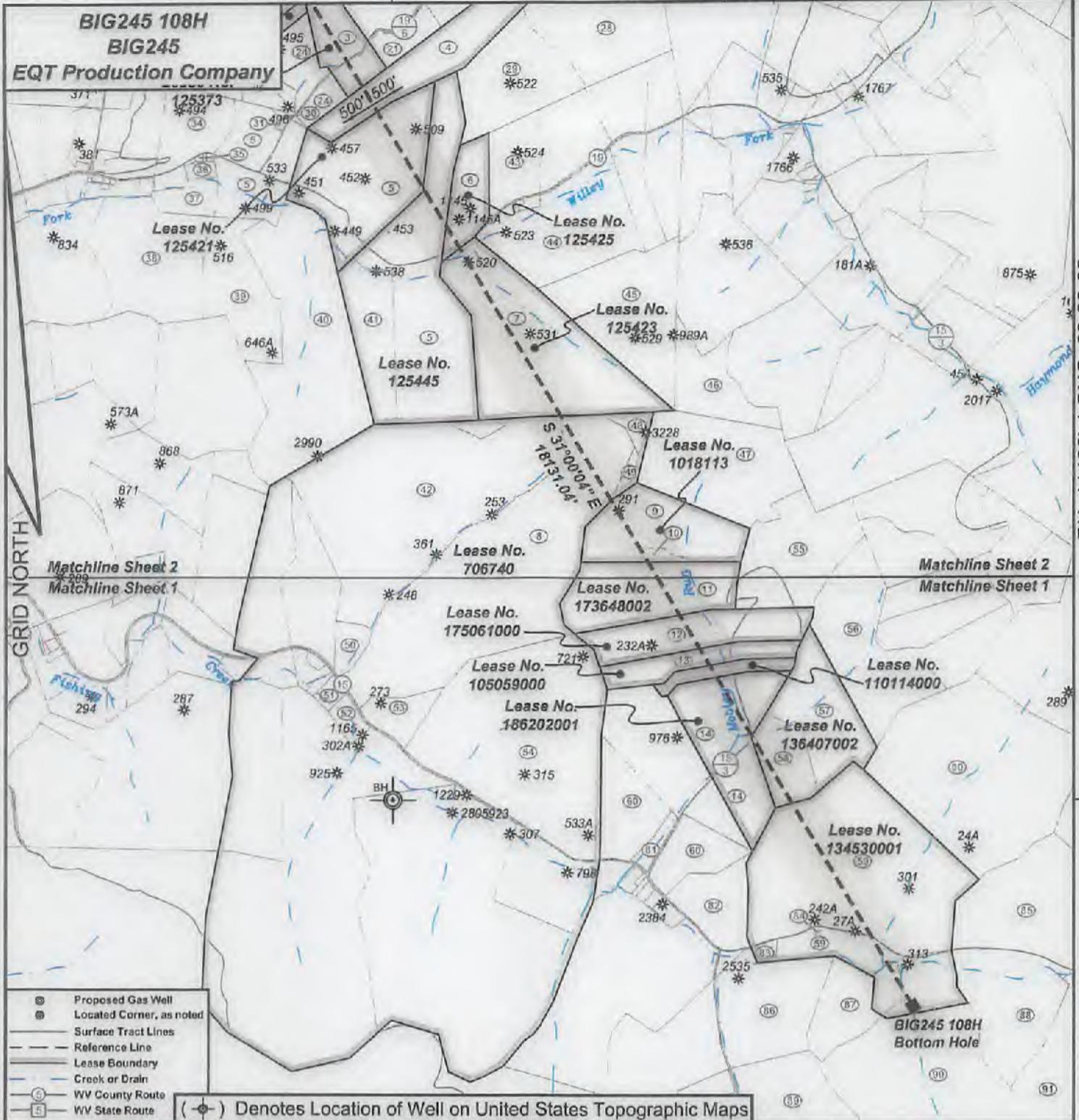
DATE: February 11 20 21
OPERATOR'S WELL NO.: BIG245 108H
API WELL NO **Mod 3443**
47 - 103 - 03343
STATE COUNTY PERMIT

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

BIG245 108H
BIG245
EQT Production Company



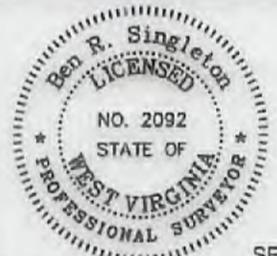
- Proposed Gas Well
- Located Corner, as noted
- Surface Tract Lines
- - - Reference Line
- Lease Boundary
- Creek or Drain
- Ⓢ WV County Route
- Ⓦ WV State Route

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



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SEAL

FILE NO: 246-18
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STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: February 11 20 21
 OPERATOR'S WELL NO.: BIG245 108H
 API WELL NO. **3443**
 47 - 103 - 03343
 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
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 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

BIG245 108H
BIG245
EQT Production Company

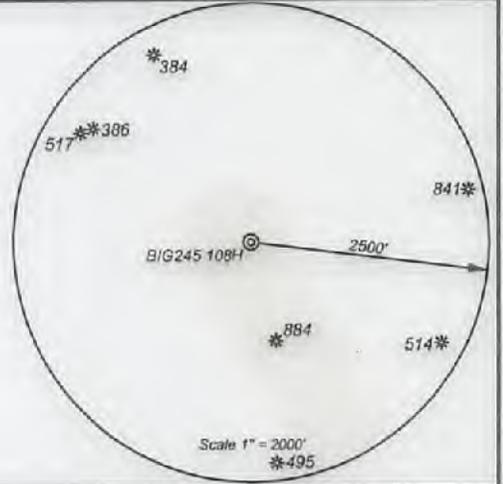
Traffic ID	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	8	22	Wetzel	Grant	ET Blue Grass LLC	138.93
2	8	25	Wetzel	Grant	James A. Yoho	6.25
3	8	27	Wetzel	Grant	James A. Yoho	21.75
4	8	32	Wetzel	Grant	Joe Pigg	82.40
5	8	63	Wetzel	Grant	H. Don Higginbotham	180.21
6	8	64	Wetzel	Grant	Sherilyn Snider	20.00
7	14	7	Wetzel	Grant	Norman Derby	83.60
8	13	45	Wetzel	Grant	Coastal Forest Resources Company	135.19
9	14	22	Wetzel	Grant	John W. Wycoff & Carolyn S. McGill	88.00
10	14	21	Wetzel	Grant	John W. Wycoff & Carolyn S. McGill	2.50
11	14	26	Wetzel	Grant	EQT Production Company	59.50
12	14	37	Wetzel	Grant	EQT Production Company	36.50
13	14	37	Wetzel	Grant	EQT Production Company	37.50
14	14	38	Wetzel	Grant	EQT Production Company	100.00
15	8	10.1	Wetzel	Grant	Duane M. Goodrich	3.56
16	8	7	Wetzel	Grant	James E. & Merin A. Stronking	18.12
17	8	8	Wetzel	Grant	Wanda L. Byard	59.15
18	8	15	Wetzel	Grant	John Michael Byard	21.80
19	9	22	Wetzel	Grant	James A. Yoho	17.80
20	8	30	Wetzel	Grant	Mary Jane Byard	15.00
21	8	28	Wetzel	Grant	James A. Yoho	11.00
22	8	23	Wetzel	Grant	Dale K. Dulseay et al.	20.51
23	8	11	Wetzel	Grant	Bonnie M. Hedhome	53.50
24	8	28	Wetzel	Grant	James A. Yoho	23.25
25	8	13	Wetzel	Grant	James A. Yoho	27.00
26	9	17	Wetzel	Grant	Lessie Watson	20.08
27	9	73	Wetzel	Grant	Shoshin E. & Carolyn M. Gantz	189.60
28	9	29	Wetzel	Grant	William S. Margaret Schelcher	47.90
29	9	28	Wetzel	Grant	Sherilyn Snider	54.52
30	8	48	Wetzel	Grant	James A. Yoho	0.50
31	8	41	Wetzel	Grant	H. Don Higginbotham	0.45
32	8	39	Wetzel	Grant	James A. Yoho	7.50
33	8	24	Wetzel	Grant	H. Don Higginbotham	2.10
34	8	38	Wetzel	Grant	H. Don Higginbotham	23.82
35	8	52	Wetzel	Grant	Henry E. Wiley	0.28
36	8	51	Wetzel	Grant	Henry E. Wiley	2.34
37	8	55	Wetzel	Grant	Manuel I. McDiff, et al.	0.25
38	13	7	Wetzel	Grant	Manuel I. McDiff, et al.	54.80
39	13	8	Wetzel	Grant	Robert Cole	36.09
40	13	17	Wetzel	Grant	Mary Higginbotham	112.00
41	13	9	Wetzel	Grant	Mary Higginbotham	30.48
42	13	27.1	Wetzel	Grant	Jeremy Collins	148.70
43	9	40.1	Wetzel	Grant	Donald J. Dulseay	29.06
44	9	52	Wetzel	Grant	Norman Derby	81.51
45	14	8	Wetzel	Grant	Esther R. Coan	52.50
46	14	10	Wetzel	Grant	John W. Wycoff & Carolyn S. McGill	22.00
47	14	18	Wetzel	Grant	John W. Wycoff & Carolyn S. McGill	88.20
48	14	17	Wetzel	Grant	John W. Wycoff & Carolyn S. McGill	6.20
49	14	16	Wetzel	Grant	John W. Wycoff & Carolyn S. McGill	1.50
50	13	27	Wetzel	Grant	Teresa D. Duno Life Estate	6.07
51	13	50	Wetzel	Grant	Gary D. & Julia A. Watson	2.90
52	13	45.1	Wetzel	Grant	Gary D. & Julia A. Watson	5.60
53	13	51	Wetzel	Grant	James & Debra Lipincott	11.29
54	18	12.3	Wetzel	Grant	Liberty Midstream & Resources LLC	350.00
55	14	23	Wetzel	Grant	Equitans LP	51.00
56	14	38	Wetzel	Grant	Dale C. Eastham, et al.	57.06
57	14	38.3	Wetzel	Grant	Dale C. Eastham, et al.	30.05
58	14	59	Wetzel	Grant	Maunten Valley Pipeline LLC	17.81
59	19	7	Wetzel	Grant	Florence E. Kicoyne	167.60
60	19	5	Wetzel	Grant	Roger K. & Shirley R. Hinerman	45.17
61	19	40	Wetzel	Grant	Donald J. Dulseay, Jr.	151.00
62	19	1	Wetzel	Grant	Equitable Gas Company	9.30
63	19	5	Wetzel	Grant	Marjorie Liberty Midstream & Resources LLC	21.50
64	19	5.1	Wetzel	Grant	Mohley Community Educational Outreach Services	45.17
65	19	7.1	Wetzel	Grant	S. J. Kicoyne Cemetery	0.21
66	19	8	Wetzel	Grant	Donald J. Dulseay, Jr.	71.50
67	19	17	Wetzel	Grant	Edward L. Thus	48.50
68	19	18	Wetzel	Grant	Florence E. Kicoyne	0.87
69	19	8.1	Wetzel	Grant	EQT Production Company	63.00
70	19	28	Wetzel	Grant	Timothy S. & Shannon L. Brimmer	105.40
71	19	27	Wetzel	Grant	Florence Kicoyne	201.00



Notes:
BIG245 108H coordinates are
 NAD 27 N: 400,738.44 E: 1,698,788.01
 NAD 27 Lat: 39.595340 Long: -80.568909
 NAD 83 UTM N: 4,382,943.53 E: 537,030.28
BIG245 108H Landing Point coordinates are
 NAD 27 N: 400,309.56 E: 1,698,838.47
 NAD 27 Lat: 39.594165 Long: -80.568712
 NAD 83 UTM N: 4,382,813.12 E: 537,047.83
BIG245 108H Bottom Hole coordinates are
 NAD 27 N: 384,768.40 E: 1,708,176.93
 NAD 27 Lat: 39.561799 Long: -80.534941
 NAD 83 UTM N: 4,378,125.88 E: 539,971.78
 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.

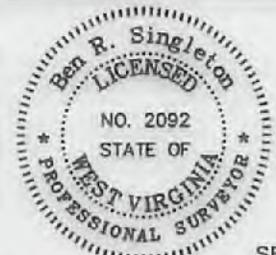
- BIG245**
- ⊙ BIG245 114H
 - ⊙ BIG245 112H
 - ⊙ BIG245 110H
 - ⊙ BIG245 108H
 - ⊙ BIG245 106H
 - ⊙ BIG245 104H
 - ⊙ BIG245 102H
 - ⊙ 47-103-03235
 - ⊙ 47-103-03236
- 47-103-03234⊙

Lease No.	Owner	Acres
994581	Kenneth R. Mason and Jennifer L. Mason, et al.	6.25
125373	Jim Yoho, et al.	22
125374	Jordan Zachary Pigg, et al.	100
125421	H. Don Higginbotham and Lavena Jane Higginbotham	73
125445	Oxy USA Inc., et al.	121
125425	Sherilyn Louise Snider, et al.	20
125423	AMP Fund III, LP, et al.	85
706740	EQT Production Company	1003.75
1016113	Tamara L. Donohue f/k/a Tamara Lynn Hixenbaugh, et al.	60.5
173649002	The William B. and Pamela S. Franck Joint Revocable Living Trust dated 2/12/2018, et al.	50.50
175061000	New Opic, Inc., et al.	40 of 31,151.581
105059000	Jamie Joe Pinn	26.50
110114000	Lloyd Joe Pinn	10
186202001	Ridgetop Appalachia, LLC, et al.	64
136407002	Ridgetop Royalties, LLC, et al.	57
134530001	John W. Kicoyne Jr., et al.	180



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 108H
 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 108H
 API WELL NO **3443**
 47 - 103 - 03343
 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

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 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
<u>125397</u>	<u>Shiben Estates, Inc., et al.</u>	140 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 44A/224
	Joseph Shiben and Minnie Shiben, his wife, et al				OG 71A/453
	Equitable Gas Company				Corp. 13/213
	Equitrans, Inc.				Corp. 13/213
	EQT Capital Corporation				Corp. 13/230
	Equitable Resources, Inc.				Misc. 105/908
	Equitable Gas Company, LLC and EQT Corporation				OG 131A/81
<u>994581</u>	<u>Kenneth R. Mason and Jennifer L. Mason, et al.</u>	6.25 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 271A/632
	Kenneth R. Mason and Jennifer L. Mason, JTROS				
<u>125373</u>	<u>Jim Yohe, et al.</u>	22 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/245
	Edna M. Rice, widow, et al				OG 71A/453
	Equitable Gas Company				Corp. 13/213
	Equitrans, Inc.				Corp. 13/213
	EQT Capital Corporation				Corp. 13/230
	Equitable Resources, Inc.				Misc. 105/908
	Equitable Gas Company, LLC and EQT Corporation				OG 131A/81
<u>125374</u>	<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
	Josephine J. Pigg and Joe W. Pigg, her husband				OG 71A/453
	Equitable Gas Company				Corp. 13/213
	Equitrans, Inc.				Corp. 13/213
	EQT Capital Corporation				Corp. 13/230
	Equitable Resources, Inc.				Misc. 105/908
	Equitable Gas Company, LLC and EQT Corporation				OG 131A/81

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<u>125421</u>	<u>H. Dorn Higginbotham and Lavena Jane Higginbotham</u>	73 ac	Willard E. Ferrell 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"	
	Elva R. King and Charles H. King, her husband, et al				OG 42A/411
	Equitable Gas Company				OG 44A/320
	Equitrans, Inc.				OG 71A/453
	EQT Capital Corporation				Corp. 13/213
	Equitable Resources, Inc.				Corp. 13/213
	Equitable Gas Company, LLC and EQT Corporation				Corp. 13/230
	Equitrans, LP				Misc. 105/908
	OG 131A/81				
<u>125445</u>	<u>Oxy USA Inc., et al.</u>	121 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"	
	Elva R. King and Charles H. King, her husband, et al				OG 45A/25
	Equitable Gas Company				OG 71A/453
	Equitrans, Inc.				Corp. 13/213
	EQT Capital Corporation				Corp. 13/213
	Equitable Resources, Inc.				Corp. 13/230
	Equitable Gas Company, LLC and EQT Corporation				Misc. 105/908
	Equitrans, LP				OG 131A/81
<u>125425</u>	<u>Sherilyn Louise Snider, et al.</u>	20 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"	
	Adda M. Sole, widow, et al				OG 44A/493
	Equitable Gas Company				OG 71A/453
	Equitrans, Inc.				Corp. 13/213
	EQT Capital Corporation				Corp. 13/213
	Equitable Resources, Inc.				Corp. 13/230
	Equitable Gas Company, LLC and EQT Corporation				Misc. 105/908
	Equitrans, LP				OG 131A/81

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<u>125423</u>	<u>AMP Fund III, LP, et al.</u> C. E. Brown and Ada M. Brown, his wife, et al Equitable Gas Company Equitrans, Inc. EQT Capital Corporation Equitable Resources, Inc. Equitable Gas Company, LLC and EQT Corporation Equitrans, LP	85 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 45A/278 OG 71A/453 Corp. 13/213 Corp. 13/213 Corp. 13/230 Misc. 105/908 OG 131A/81
<u>706740</u>	<u>EQT Production Company</u> Benedum-Trees Oil Company and The Parker and Edwards Oil Company Carnegie Natural Gas Company Carnegie Production Company	1003.75 ac	Carnegie Natural Gas Company Carnegie Production Company EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 2A/180 OG 78A/513 WV SOS
<u>1018113</u>	<u>Tamara L. Donohue f/k/a Tamara Lynn Hixenbaugh, et al.</u> Tamara L. Donohue f/k/a Tamara Lynn Hixenbaugh, a married woman dealing in her sole and separate property	50.5 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 252A/558
<u>173648002</u>	<u>The William B. and Pamela S. Francik Joint Revocable Living Trust dated 2/12/2018, et al.</u> William B. Francik and Pamela S. Francik, Trustees of The William B. and Pamela S. Francik Joint Revocable Living Trust dated 2/12/2018	50.50 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 269A/181
<u>175061000</u>	<u>New Opic, Inc., et al.</u> BRC Appalachian Minerals I LLC BRC Appalachian Minerals I LLC, et al BRC Working Interest Company LLC Chesapeake Appalachia, L.L.C. 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	40 / entire lease covers 31,151.581 ac	BRC Working Interest Company LLC BRC Working Interest Company LLC Chesapeake Appalachia, L.L.C. 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	"at least 1/8th per WV Code 22-6-8"	OG 102A/505 OG 103A/320 OG 103A/470 OG 120A/109 OG 157A/540 OG 158A/801 Corp. Book 13/296 OG 177A-533 OG 177A/738 Corp. Book 13/311 OG 231A/59

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<u>105059000</u>	<u>Jamie Joe Prine</u> Jamie Joe Prine, single	26.50 ac	EQT Prouction Company	"at least 1/8th per WV Code 22-6-8"	OG 240A/596
<u>110114000</u>	<u>Lloyd Joe Prine</u> Lloyd Joe and Betty M. Prine, his wife	10 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 142A/199
<u>186202001</u>	<u>Ridgetop Appalachia, LLC, et al.</u> W. L. Gallagher and Matilda Gallagher, his wife	64 ac	Jos. Hartman, Jr. Joseph Hartman, 3/8; J. V. Ritts, 2/8; Patrick Gallagher, 1/8 Joseph Hartman	"at least 1/8th per WV Code 22-6-8"	DB 58/255 DB 58/264 DB 63/54
	Joseph Hartman, Jr. John V. Ritts Joseph Hartman, Joseph Hartman, Jr. and Patrick Gallagher, individually, and Joseph Hartman, Joseph Hartman, Jr. and Patrick Gallagher, d/b/a Hartman Oil Company South Penn Oil Company Pennzoil Company Pennzoil United, Inc. Pennzoil Company Pennzoil Company Pennzoil Products Company Pennzoil Exploration and Production Company PennzEnergy Exploration and Production, L.L.C. Invitation Energy, Inc. Reliable Wetzel Energy Production, LLC Stone Energy Corporation		South Penn Oil Company Pennzoil Company Pennzoil United, Inc. Pennzoil Company Pennzoil Products Company Pennzoil Products Company Pennzoil Exploration and Production Company PennzEnergy Exploration and Production, L.L.C. Invitation Energy, Inc. Reliable Wetzel Energy Production, LLC Stone Energy Corporation EQT Production Company		79/216 WV SOS DB 246/491 WV SOS DB 319/397 DB 322/577 DB 363/384 Corp. 12/177 OG 78A/454 OG 81A/672 OG 107A/687 OG 183A/305
<u>136407002</u>	<u>Ridgetop Royalties, LLC, et al.</u> Ridgetop Royalties, LLC	57 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	248A/314

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134530001

John W. Kilcoyne Jr., et al.

180 ac

S. J. Kilcoyne, single
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.
Eastern States, Inc.
Equitable Production-Eastern States, Inc.
Equitable Production 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.
Eastern States, Inc.
Equitable Production-Eastern States, Inc.
Equitable Production Company
EQT Production Company

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

OG 34A/153
DB 233/387
OG 66A/69
WV SOS
OG 76A/232
Corp. Book 12/253
Corp. Book 12/259
WV SOS
WV SOS
WV SOS
Corp. Book 13/14

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February 15, 2022

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

Re: BIG245 108H 6A1 Addendum

Dear Mr. Brewer,

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

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

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

Sincerely,

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

John Zavatchan
Project Specialist - Permitting

Enc.

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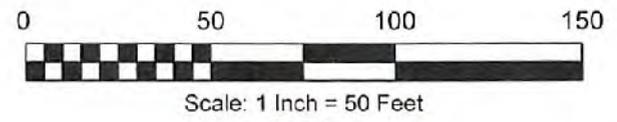
BIG245 108H
EQT Production Company
"Detail of 108H Well Bore"



Lease No.
102836

Lease No.
125397

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38.33'

Proposed Well Bore

		237 Birch River Road Birch River, WV 26610 www.alleghenysurveys.com	
Birch River Office Phone: (304) 649-8606 Fax: (304) 649-8608		DRAWING NO: 108H Detail.dwg	
PARTY CHIEF: NA		PROJECT NO: 248-34-G-18	
RESEARCH: NA		PREPARED: February 08, 2022	
SURVEYED: NA		DRAWN BY: Tim Rutledge	
FIELD CREW: NA		Sheet 1 of 1	

Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
<u>102836</u>	<u>Shiben Estates, Inc., et al.</u>				
	S. I. Robinson	192 ac	Philadelphia Company		DB 47/469
	The Philadelphia Company of West Virginia		Pittsburgh & West Virginia Gas Company		OG 22A/352
	Pittsburgh & West Virginia Gas Company		Equitable Gas Company		DB 187/321
	Equitable Gas Company		Equitrans, Inc.		OG 71A/453
	Equitrans, Inc., et al		Equitrans, LP		Misc. Book 105/908
	Equitrans, L.P.		EQT Production Company		OG 131A/81

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

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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

CHECK # 591352
1/19/22
\$2,500.00

RE: Well Work Permit Modification
BIG245 108H Well
Permit Number 47-103-03443
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
- WW-6A1 Lease Addendum 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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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