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west virginia department of environmental protection

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

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

Tuesday, March 1, 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 110H  
47-103-03444-00-00

**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 handwritten signature in blue ink, appearing to read 'James A. Martin', is written over a blue circular stamp. Below the signature, the name 'James A. Martin' and the title 'Chief' are printed in a black, sans-serif font.

James A. Martin  
Chief

Operator's Well Number: BIG245 110H  
Farm Name: ET BLUE GRASS LLC  
U.S. WELL NUMBER: 47-103-03444-00-00  
Horizontal 6A New Drill  
Date Modification Issued: 03/01/2022

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: 110H 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, 7,549', 51', 2,620 psi

8) Proposed Total Vertical Depth: 7,549'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 26,255'

11) Proposed Horizontal Leg Length: 18,261'

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'  
Scam: 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 <sup>3</sup> / CTS
Fresh Water	13 3/8	New	J-55	54.5	1193	1193 ✓	1000 ft <sup>3</sup> / CTS
Coal							
Intermediate	9 5/8	New	J-55	36	2651	2651 ✓	1000 ft <sup>3</sup> / CTS
Production	5 1/2	New	P-110	20	26255	26255 ✓	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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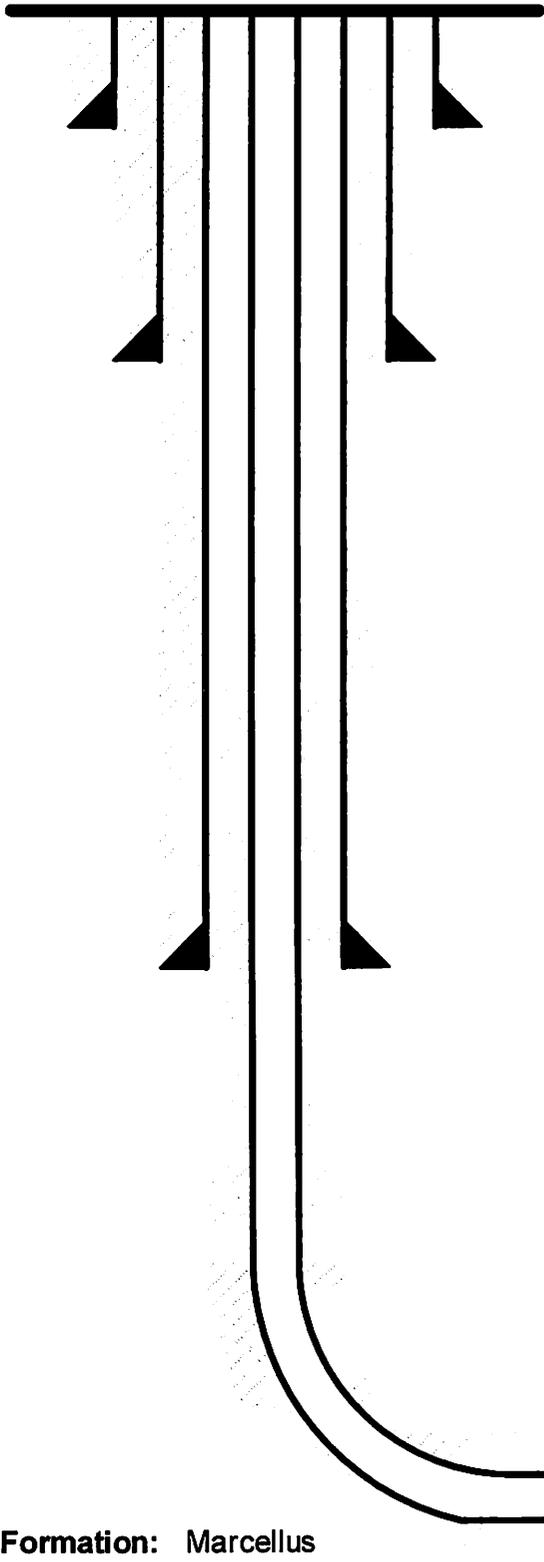
\*Note: Attach additional sheets as needed.

**EQT Production**

**Wellbore Diagram**

Well: BIG 245 110H  
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 @ 26,255' MD / 7,549' TVD**

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

Formation: Marcellus

08/04/2022 ALE

**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.

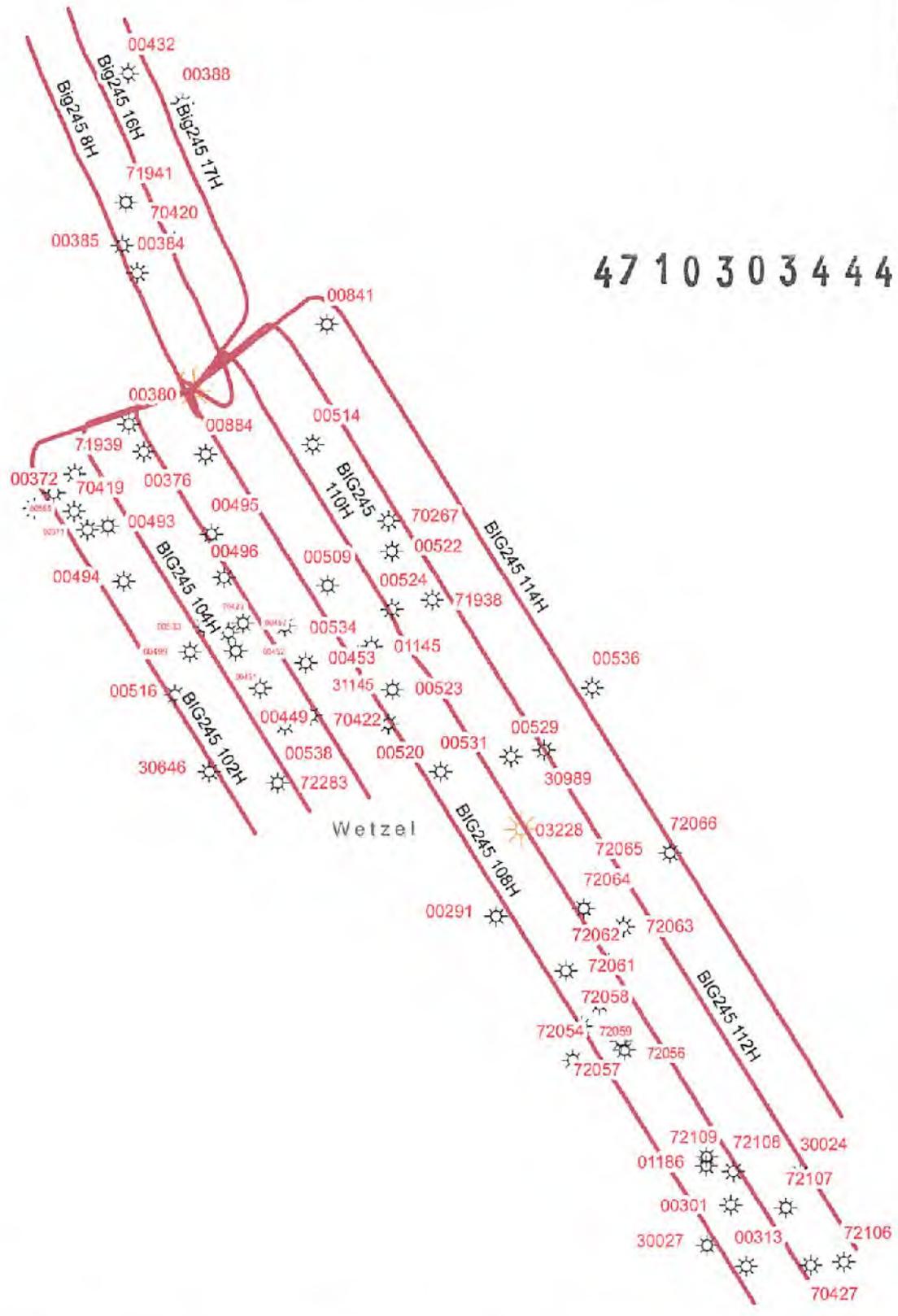
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47 10 30 34 44



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

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BIG245

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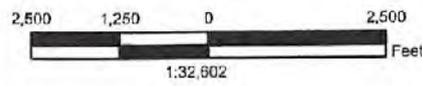
Vertical Offsets and  
 Foreign Laterals  
 within 500'

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Created By: Kellan Weltman    Printed By: McClayD on 2/23/2022  
 Path:

**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.



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UWI	CURR_OPER	FNL_CLASS	LATITUDE	LONGITUDE	ELEVATION	TOT_DEPTH
72283	HOPE NATURAL GAS	UNCLASSIFIED	39.57665700	-80.56396000	0.00	0.00
00538	EQUITABLE GAS CO	UNCLASSIFIED	39.57941500	-80.56350700	836.00	1850.00
00841	UNKNOWN	PSEUDO-ORIGINAL WELL - (	39.59829400	-80.56077500	0.00	0.00
72065	UNKNOWN	UNCLASSIFIED	39.57201200	-80.54447700	0.00	0.00
00380	UNKNOWN	DEVELOPMENT WELL-DRY (	39.59366200	-80.57300600	1267.00	1185.00
00514	J A & M OIL & GAS	GAS STORAGE WELL	39.59263000	-80.56168100	1107.00	0.00
71941	PHILADELPHIA OIL	UNCLASSIFIED	39.60410000	-80.57313900	0.00	0.00
70420	PHILADELPHIA OIL	PSEUDO-ORIGINAL WELL - (	39.60221300	-80.57014200	0.00	0.00
00494	EQUITABLE GAS CO	GAS STORAGE WELL	39.58626000	-80.57338100	1086.00	2088.00
31145	EQUITABLE GAS CO	PSEUDO-ORIGINAL WELL - (	39.58260800	-80.55863700	0.00	0.00
70422	HOPE NATURAL GAS	PSEUDO-ORIGINAL WELL - (	39.57985000	-80.56189900	0.00	0.00
00495	PITTSBURGH & W VA GAS	DEVELOPMENT WELL-DRY (	39.58843700	-80.56793800	1109.00	2285.00
00516	J A & M OIL & GAS	UNCLASSIFIED	39.58086600	-80.57025200	1034.00	2090.00
70423	PHILADELPHIA OIL	PSEUDO-ORIGINAL WELL - (	39.58378100	-80.56695700	0.00	0.00
72064	UNKNOWN	UNCLASSIFIED	39.57056100	-80.54522600	0.00	0.00
72106	UNKNOWN	UNCLASSIFIED	39.55372500	-80.52941200	0.00	0.00
72108	UNKNOWN	UNCLASSIFIED	39.55807900	-80.53615600	0.00	0.00
71939	UNKNOWN	UNCLASSIFIED	39.59132800	-80.57632400	0.00	0.00
00884	UNKNOWN	GAS STORAGE WELL	39.59219900	-80.56826900	1167.00	0.00
70419	HOPE NATURAL GAS	PSEUDO-ORIGINAL WELL - (	39.59045700	-80.57763500	0.00	0.00
00529	EQUITABLE GAS CO	GAS STORAGE WELL	39.57781500	-80.54960300	1200.00	3228.00
00457	UNKNOWN	DEVELOPMENT WELL-DRY (	39.58422800	-80.56606200	1108.00	859.00
00432	UNKNOWN	UNCLASSIFIED	39.61020800	-80.57300600	994.00	1495.00
00884	EQUITRANS INC	UNCLASSIFIED	39.59219900	-80.56826900	1167.00	2211.00
72063	UNKNOWN	UNCLASSIFIED	39.59699000	-80.54279100	0.00	0.00
00536	EQUITABLE GAS CO	UNCLASSIFIED	39.58101100	-80.54458600	1207.00	2963.00
72058	UNKNOWN	UNCLASSIFIED	39.56504600	-80.54541300	0.00	0.00
72107	UNKNOWN	UNCLASSIFIED	39.55633700	-80.53297100	0.00	0.00
72059	UNKNOWN	UNCLASSIFIED	39.56606200	-80.54428900	0.00	0.00
72056	UNKNOWN	UNCLASSIFIED	39.56388500	-80.54279100	0.00	0.00
00453	UNKNOWN	UNCLASSIFIED	39.58231700	-80.56219600	979.00	725.00
72054	UNKNOWN	UNCLASSIFIED	39.56344900	-80.54597500	0.00	0.00
72109	UNKNOWN	UNCLASSIFIED	39.55836900	-80.53784200	0.00	0.00
71938	HOPE NATURAL GAS	UNCLASSIFIED	39.58523200	-80.55440600	0.00	0.00

03/04/2022

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00531	EQUITABLE GAS CO	PSEUDO-ORIGINAL WELL - 1	39.57709200	-80.553955300	1098.00	0.00
72057	SOUTH PENN OIL	UNCLASSIFIED	39.56432000	-80.54297800	0.00	0.00
72062	UNKNOWN	UNCLASSIFIED	39.56794900	-80.54372700	0.00	0.00
00523	EQUITABLE GAS CO	GAS STORAGE WELL	39.58103500	-80.55686600	846.00	0.00
00534	EQUITABLE GAS CO	GAS STORAGE WELL	39.58260800	-80.55901100	1067.00	2880.00
00522	UNKNOWN	UNCLASSIFIED	39.58756600	-80.55686600	1214.00	3154.00
70427	SOUTH PENN OIL	PSEUDO-ORIGINAL WELL - 1	39.55358000	-80.53147300	0.00	0.00
00499	EQUITABLE GAS CO	GAS STORAGE WELL	39.58289800	-80.56931500	923.00	2712.00
72066	UNKNOWN	UNCLASSIFIED	39.57317400	-80.53990300	0.00	0.00
00524	EQUITABLE GAS CO	DEVELOPMENT WELL-GAS	39.58480800	-80.55686600	972.00	2882.00
00384	JCR PETROLEUM INC	DEVELOPMENT WELL-GAS	39.60077800	-80.57244000	855.00	585.00
30389	CARNEGIE NATURAL GAS COR	DEVELOPMENT WELL-GAS	39.57810800	-80.54758400	1200.00	3221.00
00371	JCR PETROLEUM INC	DEVELOPMENT WELL-GAS	39.58871500	-80.57557500	825.00	530.00
72061	UNKNOWN	UNCLASSIFIED	39.56765800	-80.54635000	0.00	0.00
00533	PITTSBURGH & W VA GAS	DEVELOPMENT WELL-GAS	39.58407100	-80.56845600	829.00	1928.00
00493	EQUITABLE GAS CO	DEVELOPMENT WELL-GAS	39.58887200	-80.57431900	1163.00	2234.00
00449	NORTH FORK DEVELOPMENT	DEVELOPMENT WELL-GAS	39.58115600	-80.56500600	827.00	537.00
30027	UNKNOWN	DEVELOPMENT WELL-OIL	39.55459600	-80.53784200	890.00	2784.00
00509	DUNN-MAR OIL & GAS CO	DEVELOPMENT WELL-GAS	39.58597600	-80.56083500	1155.00	3243.00
00313	HOPE NATURAL GAS	DEVELOPMENT WELL-GAS	39.55358000	-80.53540700	911.00	627.00
00451	NORTH FORK DEVELOPMENT	DEVELOPMENT WELL-GAS	39.58289800	-80.56650500	817.00	529.00
00372	UNKNOWN	DEVELOPMENT WELL-GAS	39.58974300	-80.57882400	842.00	523.00
00376	JCR PETROLEUM INC	DEVELOPMENT WELL-GAS	39.59235600	-80.57206700	1265.00	1008.00
00388	JCR PETROLEUM INC	DEVELOPMENT WELL-GAS	39.60875600	-80.56962700	938.00	666.00
30646	DUNN-MAR OIL & GAS CO	DEVELOPMENT WELL-GAS	39.57723700	-80.56819100	1197.00	3339.00
00566	JCR PETROLEUM INC	DEVELOPMENT WELL-GAS	39.58959800	-80.57638400	880.00	548.00
00291	CARNEGIE NATURAL GAS COR	DEVELOPMENT WELL-GAS	39.57027100	-80.55058100	1305.00	3334.00
01145	MEADOW RIDGE DEVELOPM	PSEUDO-ORIGINAL WELL - 1	39.58304300	-80.55815200	0.00	0.00
01186	DIVERSIFIED RESOURCES INC	DEVELOPMENT WELL-GAS	39.55878040	-80.53778600	1381.00	2500.00
70267	HOPE NATURAL GAS	PSEUDO-ORIGINAL WELL - 1	39.58900600	-80.55702800	0.00	0.00
00452	NORTH FORK DEVELOPMENT	DEVELOPMENT WELL-GAS	39.58407200	-80.56345900	886.00	614.00
30024	HOPE NATURAL GAS	DEVELOPMENT WELL-GAS	39.55793400	-80.53203500	1229.00	2330.00
00496	PITTSBURGH & W VA GAS	DEVELOPMENT WELL-GAS	39.58640500	-80.56718800	844.00	2785.00
00385	JCR PETROLEUM INC	DEVELOPMENT WELL-GAS	39.60208000	-80.57338100	905.00	647.00
00495	THE PHILADELPHIA CO	DEVELOPMENT WELL-GAS	39.58843700	-80.56793800	1109.00	2100.00

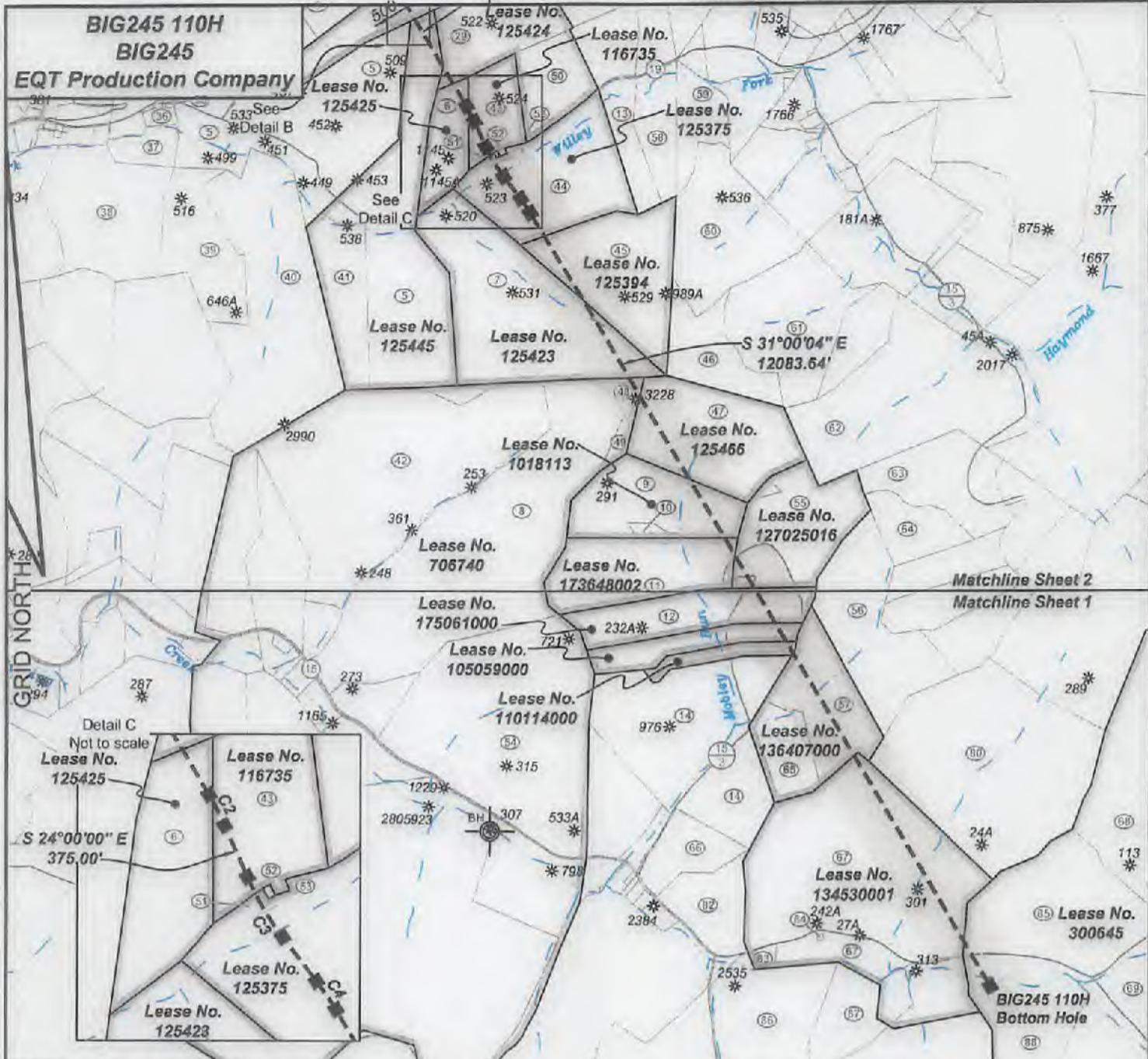
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00301	ROSS & WHARTON GAS CO	DEVELOPMENT WELL-GAS	39.55648300	-80.53634400	933.00	651.00
00520	HOPE NATURAL GAS	DEVELOPMENT WELL-GAS	39.57941500	-80.55713800	937.00	2025.00
03228	EQUITRANS INC	GAS STORAGE WELL	39.57435000	-80.54901700	1516.00	2603.00

03/04/2022

BH: 8928' LAT: 39-35-00



BH: 11080' LONG: 80-30-00

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

CURVE	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
C1	1909.65'	213.19'	S 27°47'52" E	213.08'
C2	1910.10'	233.37'	S 27°30'01" E	233.22'
C3	2001.35'	466.56'	S 31°00'00" E	466.51'
C4	2350.33'	233.24'	S 34°30'03" W	233.14'

(BH) 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 110H  
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 110H  
API WELL NO M&D  
47 - 103 - 03444  
STATE COUNTY PERMIT

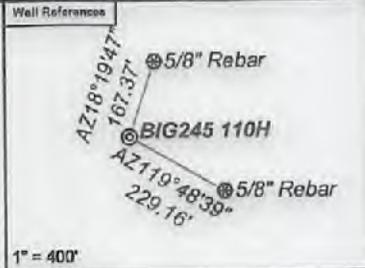
WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
LOCATION: ELEVATION: 1430' WATERSHED Rockcamp Run of Willey Fork QUADRANGLE: Big Run  
DISTRICT: Grant COUNTY: Wetzel  
SURFACE OWNER: ET Blue Grass LLC ACREAGE: 138.95  
ROYALTY OWNER: Shiben Estates, 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 110H**  
**BIG245**  
**EQT Production Company**

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	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	82.49
5	8	53	Wetzel	Grant	H. Don Higginbotham	199.21
6	8	54	Wetzel	Grant	Sheryl Snider	20.00
7	14	7	Wetzel	Grant	Norman Derby	83.00
8	13	45	Wetzel	Grant	Coastal Forest Resources Company	135.96
9	14	22	Wetzel	Grant	John W. Wycoff & Carolyn S. McGill	46.00
10	14	21	Wetzel	Grant	John W. Wycoff & Carolyn S. McGill	7.90
11	14	28	Wetzel	Grant	EQT Production Company	50.50
12	14	32	Wetzel	Grant	EQT Production Company	36.50
13	5	52	Wetzel	Grant	Norman R. & Vivian L. Darby	32.90
14	14	36	Wetzel	Grant	EQT Production Company	106.00
15	8	10.1	Wetzel	Grant	Dave M. Goodrich	3.50
16	8	7	Wetzel	Grant	James E. & Martin A. Storking	58.12
17	8	8	Wetzel	Grant	Wanda L. Grant	58.16
18	8	15	Wetzel	Grant	John Michael Byrd	71.60
19	8	32	Wetzel	Grant	James A. Yoho	17.60
20	8	29	Wetzel	Grant	Mary Jane Ryan	13.00
21	8	28	Wetzel	Grant	James A. Yoho	51.00
22	8	23	Wetzel	Grant	Dale K. Coloney, et al	76.81
23	8	11	Wetzel	Grant	Bonnie M. Hawthorne	63.50
24	8	26	Wetzel	Grant	James A. Yoho	23.25
25	9	13	Wetzel	Grant	James A. Yoho	27.00
26	9	17	Wetzel	Grant	Louis Walton	29.08
27	9	23	Wetzel	Grant	Steffen B. & Carolyn M. Gantz	119.93
28	9	29	Wetzel	Grant	William & Margaret Schlicher	47.00
29	9	28	Wetzel	Grant	Sheryl Snider	55.52
30	8	40	Wetzel	Grant	James A. Yoho	0.90
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	7.10
34	8	39	Wetzel	Grant	H. Don Higginbotham	23.82
35	8	52	Wetzel	Grant	Henry F. Wiley	0.28
36	8	51	Wetzel	Grant	Henry F. Wiley	2.54
37	8	55	Wetzel	Grant	Marcell L. McDuff, et al.	8.25
38	13	7	Wetzel	Grant	Marcell L. McDuff, et al.	58.80
39	13	5	Wetzel	Grant	Robert Cole	38.00
40	13	17	Wetzel	Grant	Mary Higginbotham	119.00
41	13	9	Wetzel	Grant	Mary Higginbotham	30.10
42	13	27.1	Wetzel	Grant	Jerry Collins	148.70
43	8	40.1	Wetzel	Grant	Donald J. Dunbar	27.00
44	8	52	Wetzel	Grant	Norman Derby	65.51
45	14	3	Wetzel	Grant	Edwin R. Coon	58.58
46	14	16	Wetzel	Grant	John W. Wycoff & Carolyn S. McGill	23.00
47	14	18	Wetzel	Grant	John W. Wycoff & Carolyn S. McGill	60.20
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	9	40	Wetzel	Grant	Sheryl Snider	21.90
51	9	65	Wetzel	Grant	Terr L. & Jason D. Bealy	6.81
52	9	49.2	Wetzel	Grant	Terr L. Bealy	1.00
53	9	42.1	Wetzel	Grant	Norman R. & Vivian L. Darby	1.00
54	18	12.1	Wetzel	Grant	Liberty Microwave & Resources LLC	209.00
55	14	23	Wetzel	Grant	Equiterra LP	55.00
56	14	38	Wetzel	Grant	Dale C. Earls, et al.	82.09
57	14	39.3	Wetzel	Grant	Dale C. Earls, et al.	36.05
58	9	34	Wetzel	Grant	Jack L. & Lesma C. Barnette	17.80
59	9	55	Wetzel	Grant	Jack L. & Lesma C. Barnette	18.40
60	14	9	Wetzel	Grant	Leonard Rios	95.00
61	14	11	Wetzel	Grant	Thomas J. Parks, et al.	34.44
62	14	18	Wetzel	Grant	Coastal Forest Resources Company	158.88
63	14	25	Wetzel	Grant	Clara Snodgrass	35.88
64	14	24	Wetzel	Grant	EQT Production Company	18.20
65	14	39	Wetzel	Grant	Mountain Valley Pipeline LLC	17.81
66	19	5	Wetzel	Grant	Roger K. & Shirley K. Hinman	43.17
67	10	7	Wetzel	Grant	Florence E. Kiboyne	157.09
68	14	42	Wetzel	Grant	Donald J. D'Lesky	111.00
69	14	18.1	Wetzel	Grant	Sean L. Brackman	33.56
70	14	40	Wetzel	Grant	Donald J. D'Lesky, Jr	131.00
71	10	6	Wetzel	Grant	Merlewood Liberty Midstream & Resources LLC	21.50
72	10	5.1	Wetzel	Grant	Mobley Community Educational Outreach Service	45.17
73	10	7.1	Wetzel	Grant	S. J. Kiboyne Cemetery	8.25



**Notes:**  
 BIG245 110H coordinates are  
 NAD 27 N: 400,753.19 E: 1,698,790.75  
 NAD 27 Lat: 39.595381 Long: -80.568900  
 NAD 83 UTM N: 4,382,948.04 E: 537,031.04  
 BIG245 110H Landing Point coordinates are  
 NAD 27 N: 400,824.57 E: 1,699,730.75  
 NAD 27 Lat: 39.595607 Long: -80.565588  
 NAD 83 UTM N: 4,382,974.57 E: 537,317.08  
 BIG245 110H Bottom Hole coordinates are  
 NAD 27 N: 385,164.30 E: 1,709,105.63  
 NAD 27 Lat: 39.552915 Long: -80.531664  
 NAD 83 UTM N: 4,378,251.23 E: 540,252.71  
 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.

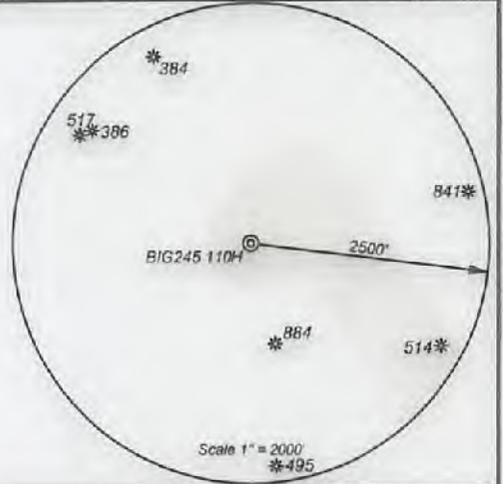
Tract ID	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
85	19	5	Wetzel	Grant	Donald J. D'Lesky, Jr	71.50
86	19	17	Wetzel	Grant	Edward L. Tibbs	48.50
87	19	19	Wetzel	Grant	Florence E. Kiboyne	9.87
88	19	9.1	Wetzel	Grant	EQT Production Company	53.00
89	19	27	Wetzel	Grant	Florence Kiboyne	201.00

**BIG245**

- ⊙ BIG245 114H
- ⊙ BIG245 112H
- ⊙ BIG245 110H
- ⊙ BIG245 109H
- ⊙ BIG245 106H
- ⊙ BIG245 104H
- ⊙ BIG245 102H
- ⊙ 47-103-03235
- ⊙ 47-103-03236

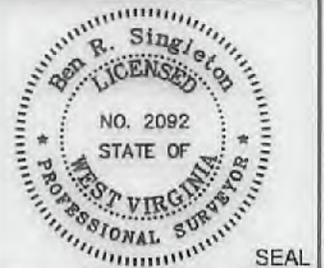
47-103-03234⊙

Lease No.	Owner	Acres
125372	Raymond P. Gaston and Pamela J. Gaston, et al	01
125374	Jordan Zachary Pigg, et al.	100
125445	Dix USA Inc., et al.	121
125424	Sheryl Snider	80
125425	Sheryl Louise Snider, et al.	20
116735	Jacob Francis Shreve III, et al.	22
125375	Jacob Francis Shreve III aka Jacob F. Shreve, et al	62
125384	Ethel R. Coon, et al.	50
125433	AMP Fund II, LP, et al.	05
708749	EQT Production Company	1003.75
125480	Bounty Minerals LLC	67
6018113	Tamara L. Donohue fka Tamara Lynn Hixenbaugh, et al	50.5
170648002	The William B. and Pamela S. Franck Joint Revocable Living Trust dated 2/12/2015, et al.	50.50
127025016	Thomas L. Lewis, et al.	51
170681000	New Opic, Inc., et al.	40 of 31,151.561
105059000	Jamie Joe Paine	26.5
110114000	Lloyd Joe Paine	10
130407000	Three Rivers Royalty II LLC, et al.	38
134530001	John W. Kiboyne Jr., et al.	180
300045	Garman Lee Allen, et al.	598



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



FILE NO: 246-18  
 DRAWING NO: BIG245 110H  
 SCALE: 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY: 1:2500  
 PROVEN SOURCE OF ELEVATION: NGS CORS Station

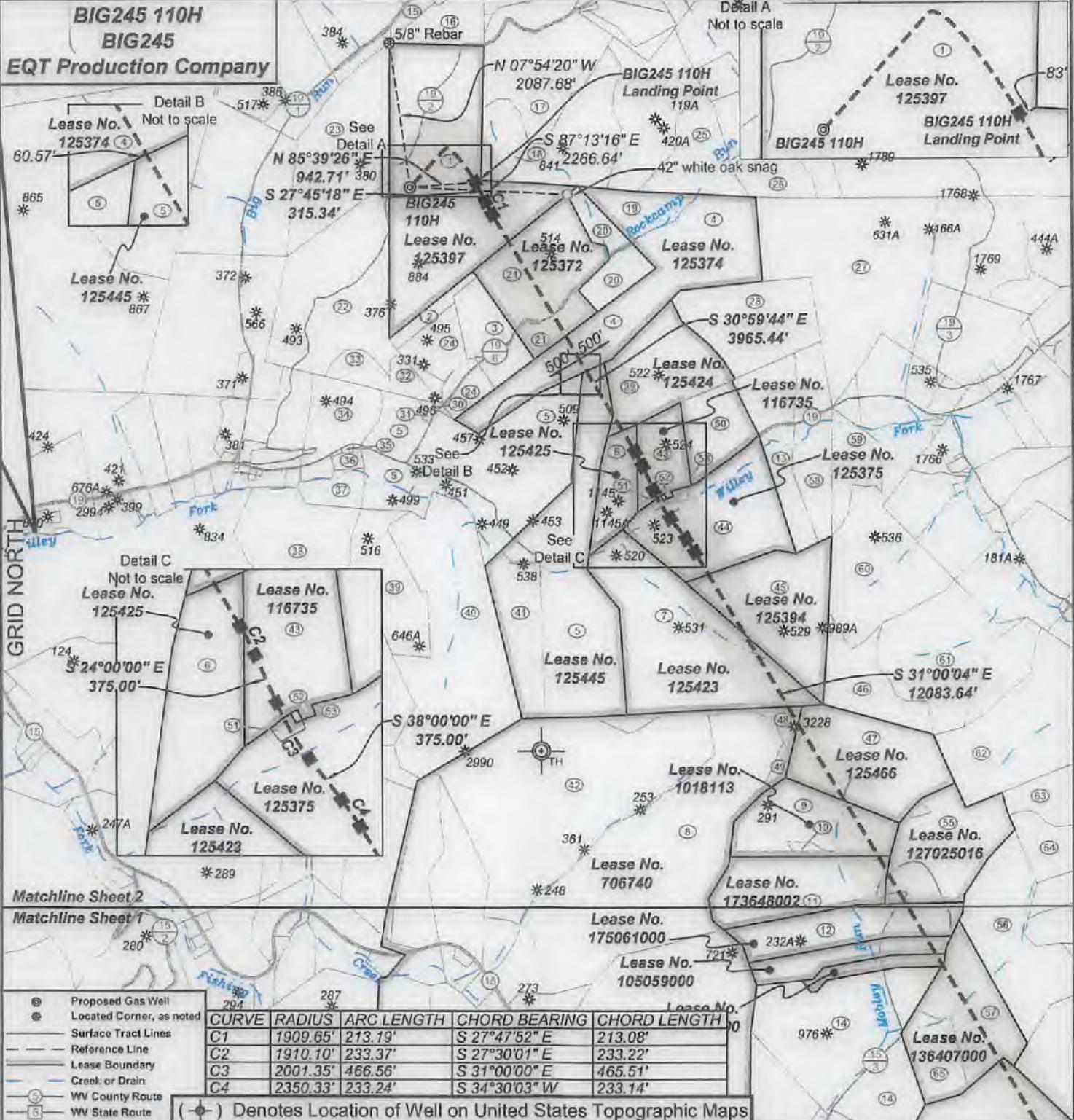
**STATE OF WEST VIRGINIA**  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
**OIL AND GAS DIVISION**

DATE: February 11 20 22  
 OPERATOR'S WELL NO.: BIG245 110H  
 API WELL NO M00  
 47 - 103 - 03444  
 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

TH: 7674' LAT: 39-37-30



TH: 10789' LONG: 80-32-30



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



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DRAWING NO: BIG245 110H  
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DEPARTMENT OF ENVIRONMENTAL PROTECTION  
**OIL AND GAS DIVISION**

DATE: February 11 20 22  
OPERATOR'S WELL NO.: BIG245 110H  
API WELL NO MOD  
47 - 103 - 03444  
STATE COUNTY PERMIT

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 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

**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
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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

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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
✓ 125397	<b><u>Shiben Estates, Inc., et al.</u></b>	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
✓ 125372	<b><u>Raymond P. Gaston and Pamela J. Gaston, et al.</u></b>	61 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/36
	C. Amos Long and L. G. Long, his wife				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
✓ 125374	<b><u>Jordan Zachary Pigg, et al.</u></b>	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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/ 125445	<b><u>Oxy USA Inc., et al.</u></b>	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"	OG 45A/25 OG 71A/453 Corp. 13/213 Corp. 13/213 Corp. 13/230 Misc. 105/908 OG 131A/81
/ 125424	<b><u>Sherilyn Snider</u></b>	80 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/106 OG 71A/453 Corp. 13/213 Corp. 13/213 Corp. 13/230 Misc. 105/908 OG 131A/81
/ 125425	<b><u>Sherilyn Louise Snider, et al.</u></b>	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"	OG 44A/493 OG 71A/453 Corp. 13/213 Corp. 13/213 Corp. 13/230 Misc. 105/908 OG 131A/81

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Well ID	Owner	Acres	Operator	Lease Type
116735	<u>Jacob Francis Shreve III, et al.</u> F. M. Tuttle and M. E. Tuttle, his wife, et al	22 ac	Equitable Gas Company	"at least 1/8th per WV Code 22-6-8"
			Equitrans, Inc.	OG 46A/392
			EQT Capital Corporation	OG 71A/453
			Equitable Resources, Inc.	Corp. 13/213
			Equitable Gas Company, LLC and EQT Corporation	Corp. 13/213
			Equitrans, LP	Corp. 13/230
			Equitrans, LP	Misc. 105/908
125375	<u>Jacob Francis Shreve III aka Jacob F. Shreve, et al.</u> Francis Shreve and Anna G. Shreve, his wife, et al	62 ac	Equitable Gas Company	"at least 1/8th per WV Code 22-6-8"
			Equitrans, Inc.	OG 44A/41
			EQT Capital Corporation	OG 71A/453
			Equitable Resources, Inc.	Corp. 13/213
			Equitable Gas Company, LLC and EQT Corporation	Corp. 13/213
			Equitrans, LP	Corp. 13/230
			Equitrans, LP	Misc. 105/908
125394	<u>Esther R. Coen, et al.</u> Roxie H. Brookover and Bruce Brookover, her husband, et al	60 ac	Equitable Gas Company	"at least 1/8th per WV Code 22-6-8"
			Equitrans, Inc.	OG 44A/158
			EQT Capital Corporation	OG 71A/453
			Equitable Resources, Inc.	Corp. 13/213
			Equitable Gas Company, LLC and EQT Corporation	Corp. 13/213
			Equitrans, LP	Corp. 13/230
			Equitrans, LP	Misc. 105/908

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✓ 125423	<p><b>AMP Fund III, LP, et al.</b>  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</p>	85 ac	<p>Equitable Gas Company  Equitrans, Inc.  EQT Capital Corporation  Equitable Resources, Inc.  Equitable Gas Company, LLC  Equitrans, LP  EQT Production Company</p>	<p>"at least 1/8th per  WV Code 22-6-8"</p>	<p>OG 45A/278  OG 71A/453  Corp. 13/213  Corp. 13/213  Corp. 13/230  Misc. 105/908  OG 131A/81</p>
✓ 706740	<p><b>EQT Production Company</b>  Benedum-Trees Oil Company and  The Parker and Edwards Oil Company  Carnegie Natural Gas Company  Carnegie Production Company</p>	1003.75 ac	<p>Carnegie Natural Gas Company  Carnegie Production Company  EQT Production Company</p>	<p>"at least 1/8th per  WV Code 22-6-8"</p>	<p>OG 2A/180  OG 78A/513  WV SOS</p>
✓ 125466	<p><b>Bounty Minerals LLC</b>  W. A. Wycoff and Grace Wycoff, his wife  Equitable Gas Company  Equitrans, Inc.  EQT Capital Corporation  Equitable Resources, Inc.  Equitable Gas Company, LLC and EQT Corporation  Equitrans, LP</p>	67 ac	<p>Equitable Gas Company  Equitrans, Inc.  EQT Capital Corporation  Equitable Resources, Inc.  Equitable Gas Company, LLC  Equitrans, LP  EQT Production Company</p>	<p>"at least 1/8th per  WV Code 22-6-8"</p>	<p>OG 52A/465  OG 71A/453  Corp. 13/213  Corp. 13/213  Corp. 13/230  Misc. 105/908  OG 131A/81</p>
✓ 1018113	<p><b>Tamara L. Donohue f/k/a Tamara Lynn Hixenbaugh, et al.</b>  Tamara L. Donohue f/k/a Tamara Lynn Hixenbaugh, a married woman  dealing in her sole and separate property</p>	50.5 ac	EQT Production Company	<p>"at least 1/8th per  WV Code 22-6-8"</p>	OG 252A/558
✓ 173648002	<p><b>The William B. and Pamela S. Francik Joint Revocable Living Trust  dated 2/12/2018, et al.</b>  William B. Francik and Pamela S. Francik, Trustees of The William B. and  Pamela S. Francik Joint Revocable Living Trust dated 2/12/2018</p>	50.50 ac	EQT Production Company	<p>"at least 1/8th per  WV Code 22-6-8"</p>	OG 269A/181

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✓ <u>127025016</u>	<u>Thomas L. Lewis, et al.</u> Thomas L. Lewis, a widower	51 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	174A/163
✓ <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
✓ <u>105059000</u>	<u>Jamie Joe Prine</u> Jamie Joe Prine, single	26.5ac	EQT Prouction Company	"at least 1/8th per WV Code 22-6-8"	240A/596
✓ <u>110114000</u>	<u>Lloyd Joe Prine</u> Lloyd Joe Prine 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>136407000</u>	<u>Three Rivers Royalty II LLC, et al.</u> Three Rivers Royalty II LLC	38 ac	EQT Produciton	"at least 1/8th per WV Code 22-6-8"	227A/152

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134530001

John W. Kilcoyne Jr., et al.

S. J. Kilcoyne, single 180 ac  
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

300645

Carman Lee Allen, et al.

J. M. Allen & Eliza Allen, his wife 858 ac  
  
Z. T. Francis  
Clinton D. Greenlee and Clara M. Greenlee, his wife, and Bernard Forst  
and Jennie Forst, his wife  
Joseph Hartman, Joseph Hartman, Jr., and Patrick Gallagher, individually  
and dba Hartman Oil Company  
South Penn Oil Company  
Hope Natural Gas Company  
Consolidated Gas Supply Corporation  
Consolidated Gas Transmission Corporation  
CNG Transmission Corporation  
Eastern States Oil & Gas, Inc.  
Blazer Energy Corp.  
Eastern States Oil & Gas, Inc.  
Eastern States, Inc.  
Equitable Production-Eastern States, Inc.  
Equitable Production Company

Z. T. Francis  
C. D. Greenlee, Joseph Hartman, B. Forst,  
Joseph Hartman, Jr., and Patrick Gallagher  
Joseph Hartman, Joseph Hartman, Jr., and  
Patrick Gallagher  
  
South Penn Oil Company  
Hope Natural Gas Company  
Consolidated Gas Supply Corporation  
Consolidated Gas Transmission Corporation  
CNG Transmission Corporation  
Eastern States Oil & Gas, Inc.  
Blazer Energy Corp.  
Eastern States Oil & Gas, Inc.  
Eastern States, Inc.  
Equitable Production-Eastern States, Inc.  
Equitable Production Company  
EQT Production Company

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

DB 39/222  
DB 39/248  
DB 47/112  
DB 79/216  
DB 91/8  
DB 233/387  
OG 66A/69  
Corp. Book 13/151  
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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Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
<b>186202001</b>	<b><u>Ridgetop Appalachia, LLC, et al.</u></b>	64 ac			
	W. L. Gallagher and Matilda Gallagher, his wife		Jos. Hartman, Jr.		"at least 1/8th per WV Code 22-6-8"
	Joseph Hartman, Jr.		Gallagher, 1/8		DB 58/255
	John V. Ritts		Joseph Hartman		DB 58/264
	and Joseph Hartman, Joseph Hartman, Jr. and Patrick Gallagher, d/b/a		South Penn Oil Company		DB 63/54
	South Penn Oil Company		Pennzoil Company		79/216
	Pennzoil Company		Pennzoil United, Inc.		WV SOS
	Pennzoil United, Inc.		Pennzoil Company		DB 246/491
	Pennzoil Company		Pennzoil Products Company		WV SOS
	Pennzoil Company		Pennzoil Products Company		DB 319/397
	Pennzoil Products Company		Pennzoil Products Company		DB 322/577
	Pennzoil Exploration and Production Company		Pennzoil Exploration and Production Company		DB 363/384
	PennzEnergy Exploration and Production, L.L.C.		PennzEnergy Exploration and Production, L.L.C.		Corp. 12/177
	Invitation Energy, Inc.		Invitation Energy, Inc.		OG 78A/454
	Reliable Wetzel Energy Production, LLC		Reliable Wetzel Energy Production, LLC		OG 81A/672
Stone Energy Corporation	Stone Energy Corporation		OG 107A/687		
	EQT Production Company		OG 183A/305		

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**FEB 16 2022**  
**WV Department of**  
**Environmental Protection**



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 110H 6A1 Addendum

Dear Mr. Brewer,

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

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

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

Sincerely,

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

John Zavatchan  
Project Specialist - Permitting

Enc.

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Environmental Protection

03/04/2022

# BIG245 110H

## EQT Production Company

### "Detail of 110H Well Bore"



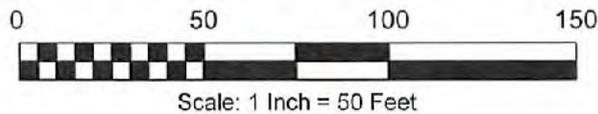
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Lease No.  
110114000

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WV Department of  
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Lease No.  
186202001

Lease No.  
136407002



23.54'

*Proposed Well Bore*

		237 Birch River Road Birch River, WV 26610 <a href="http://www.allegheynysurveys.com">www.allegheynysurveys.com</a>
Birch River Office Phone: (304) 649-8606 Fax: (304) 649-8608	PARTY CHIEF: NA RESEARCH: NA SURVEYED: NA FIELD CREW: NA	DRAWING NO: 110H Detail.dwg PROJECT NO: 246-34-G-18 PREPARED: February 08, 2022 DRAWN BY: Tim Rutledge
Sheet 1 of 1		



February 15, 2022

Via FedEx Overnight

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

CHECK NUMBER 591353  
DATE 1/19/2022  
\$ 2,500.00

RE: Well Work Permit Modification  
BIG245 110H Well  
Permit Number 47-103-03444  
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](mailto:jzavatchan@eqt.com)  
724-746-9073

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Office of Oil and Gas

FEB 16 2022

WV Department of  
Environmental Protection

03/04/2022



**Section II(b) – Water Management Plan Coverage Detail (for pad plans only)**

Well Pad Name (for all well and well pad plans): BIG245			County: Wetzel	
			Location (decimal degrees, NAD83)	
WMP (old)	Well Number	API	Lat	Long
02258	102H	47-103-03440	39.595301	-80.568748
02258	104H	47-103-03441	39.595342	-80.568739
02258	106H	47-103-03442	39.595382	-80.568730
02258	108H	47-103-03443	39.595423	-80.568721
02258	110H	47-103-03444	39.595464	-80.568712
02258	112H	47-103-03445	39.595504	-80.568702
02258	114H	47-103-03446	39.595545	-80.568693
02258	8H	47-103-03234	39.595252	-80.568849
02258	16H	47-103-03235	39.595261	-80.568757
02258	17H	47-103-03236	39.595220	-80.568766

**Section III (a) - Source Water Overview**

**Estimated Water Needs:**

	<b>Gallons</b>
Construction (compaction)	250,000
Drilling (cement, mud systems)	350,000
Hydraulic Fracturing	190,000,000
Post-Fracturing (coil tubing, drill-outs)	420,000
Reclamation (hydroseeding)	250,000
Incidental Use (dust suppression)	500,000
Total	191,770,000
Onsite Storage Capacity	2,323,000

<b>Anticipated Withdrawal Dates</b> 12/2/21-8/1/2024
Pad Construction Start:  Already Constructed
Pad Reclamation End:  12/1/2027

Anticipated water sources (check all that apply)

<input checked="" type="checkbox"/> Streams/Rivers	<input checked="" type="checkbox"/> Groundwater	<input checked="" type="checkbox"/> Brokered Water	<input type="checkbox"/> Lake/Reservoir/Pond
<input checked="" type="checkbox"/> Centralized Freshwater Impoundment	<input type="checkbox"/> Centralized Waste Pit	<input checked="" type="checkbox"/> Above Ground Storage Tank	
<input checked="" type="checkbox"/> Other	<input checked="" type="checkbox"/> Recycled Frac Water		

**Section III (b) - Aquatic Life Protection (if utilizing surface water, provide the following details)**

<p><b>Describe Entrainment and Impingement Prevention Plan:</b></p> <p>EQT will utilize an intake screen at the end of pipe to limit entrainment and impingement. The screen size and design will depend on the size and species of fish present in the water body. The velocity of water into the intake screen should not exceed certain values based on the swimming mode of the fish present in the water body. Screens will be located in depths of water with low concentrations of fish and away from structures that may attract fish. Screens will be facing the same direction of the flow of the water body. The screen will be located a minimum of 12 inches above the bottom of the water body to prevent entrainment of sediment and aquatic organisms.</p>
<p><b>Describe Invasive Species Transfer Prevention Plan:</b></p> <p>In order to prevent the introduction or spread of invasive species, equipment that is placed near a water body will be properly cleaned prior to placement.</p>

**Section IV(a) - Stream/River Source** (to be completed for each surface water withdrawal location, print additional pages as necessary)

Stream/River Name: North Fork of Fishing Creek, Big 57 Truck Pad		
Landowner name and address: EQT Corporation 625 Liberty Street Pittsburgh, PA 15222		Phone: 304-848-0082
Intake Location (decimal degrees, NAD83)		
Latitude: 39.553264	Longitude: -80.528663	County: Wetzel

Proposed Withdrawal Details

Stationary Pump:	Total Maximum Pump Rate (gpm) 1890	
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm): N/A	No. Trucks Simultaneously Pumping: N/A

Determination that sufficient flow is available downstream from proposed intake point

Allow passby to be calculated by the DEP (Preferred)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
(If no, advance written authorization by DEP is required. Attach authorization and details.)		

Stream Details

<b>DEP Office Use Only</b>			
Contact Recreation <input type="checkbox"/>	Aquatic Life-Trout Water <input type="checkbox"/>	Aquatic Life-Warm Water <input type="checkbox"/>	Drinking Water Supply <input type="checkbox"/>
Industrial <input type="checkbox"/>	Agriculture <input type="checkbox"/>	Irrigation <input type="checkbox"/>	Reference Gauge <input type="checkbox"/>
Gauged Stream: <input type="checkbox"/>	Final Stream Code:	Regulated By:	
Trout <input type="checkbox"/>	Sensitive Aquatic Species <input type="checkbox"/>	Tier 3 Streams <input type="checkbox"/>	Within 1 mile upstream of PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Upstream Drainage Area?		Within Zone of Critical Concern? <input type="checkbox"/> Yes <input type="checkbox"/> No	

**Section IV(a) - Stream/River Source** (to be completed for each surface water withdrawal location, print additional pages as necessary)

Stream/River Name: South Fork of Fishing Creek, Jacksonburg Truck Site		
Landowner name and address: Ronald Anderson HC79 Box 47 Jacksonburg, WV 26377		Phone: 304-889-2360
Intake Location (decimal degrees, NAD83)		
Latitude: 39.52609	Longitude: -80.633800	County: Wetzel

Proposed Withdrawal Details

Stationary Pump:	Total Maximum Pump Rate (gpm) 1890	
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm): N/A	No. Trucks Simultaneously Pumping: N/A

Determination that sufficient flow is available downstream from proposed intake point

Allow passby to be calculated by the DEP (Preferred)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
(If no, advance written authorization by DEP is required. Attach authorization and details.)		

Stream Details

<b>DEP Office Use Only</b>			
Contact Recreation <input type="checkbox"/>	Aquatic Life-Trout Water <input type="checkbox"/>	Aquatic Life-Warm Water <input type="checkbox"/>	Drinking Water Supply <input type="checkbox"/>
Industrial <input type="checkbox"/>	Agriculture <input type="checkbox"/>	Irrigation <input type="checkbox"/>	Reference Gauge <input type="checkbox"/>
Gauged Stream: <input type="checkbox"/>	Final Stream Code:	Regulated By:	
Trout <input type="checkbox"/>	Sensitive Aquatic Species <input type="checkbox"/>	Tier 3 Streams <input type="checkbox"/>	Within 1 mile upstream of PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Upstream Drainage Area?		Within Zone of Critical Concern? <input type="checkbox"/> Yes <input type="checkbox"/> No	

**Section IV(a) - Stream/River Source** (to be completed for each surface water withdrawal location, print additional pages as necessary)

Stream/River Name:		North Fork Fishing Creek	
Landowner name and address:		Phone:	
Les Lydick HC 62 Box 71 Pine Grove, WV 26419		304-889-2368	
Intake Location (decimal degrees, NAD83)			
Latitude:	Longitude:	County:	
39.577918	-80.592615	Wetzel	

Proposed Withdrawal Details

Stationary Pump:	Total Maximum Pump Rate (gpm)		1890
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm):	No. Trucks Simultaneously Pumping:	
	N/A	N/A	

Determination that sufficient flow is available downstream from proposed intake point

Allow passby to be calculated by the DEP (Preferred)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
(If no, advance written authorization by DEP is required. Attach authorization and details.)		

Stream Details

<b>DEP Office Use Only</b>			
Contact Recreation <input type="checkbox"/>	Aquatic Life-Trout Water <input type="checkbox"/>	Aquatic Life-Warm Water <input type="checkbox"/>	Drinking Water Supply <input type="checkbox"/>
Industrial <input type="checkbox"/>	Agriculture <input type="checkbox"/>	Irrigation <input type="checkbox"/>	Reference Gauge <input type="checkbox"/>
Gauged Stream: <input type="checkbox"/>	Final Stream Code:	Regulated By:	
Trout <input type="checkbox"/>	Sensitive Aquatic Species <input type="checkbox"/>	Tier 3 Streams <input type="checkbox"/>	Within 1 mile upstream of PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Upstream Drainage Area?		Within Zone of Critical Concern? <input type="checkbox"/> Yes <input type="checkbox"/> No	

**Section IV(a) - Stream/River Source** (to be completed for each surface water withdrawal location, print additional pages as necessary)

Stream/River Name: North Fork Fishing Creek BIG 176 Pad		
Landowner name and address: John W. Kilcoyne RT. 1 Box 28 Smithfield, WV 26437		Phone: 304-889-2116
Intake Location (decimal degrees, NAD83)		
Latitude: 39.560283	Longitude: -80.560764	County: Wetzel

Proposed Withdrawal Details

Stationary Pump:	Total Maximum Pump Rate (gpm) 1890	
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm): N/A	No. Trucks Simultaneously Pumping: N/A

Determination that sufficient flow is available downstream from proposed intake point

Allow passby to be calculated by the DEP (Preferred)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
(If no, advance written authorization by DEP is required. Attach authorization and details.)		

Stream Details

<b>DEP Office Use Only</b>			
Contact Recreation <input type="checkbox"/>	Aquatic Life-Trout Water <input type="checkbox"/>	Aquatic Life-Warm Water <input type="checkbox"/>	Drinking Water Supply <input type="checkbox"/>
Industrial <input type="checkbox"/>	Agriculture <input type="checkbox"/>	Irrigation <input type="checkbox"/>	Reference Gauge
Gauged Stream: <input type="checkbox"/>	Final Stream Code:	Regulated By:	
Trout <input type="checkbox"/>	Sensitive Aquatic Species <input type="checkbox"/>	Tier 3 Streams <input type="checkbox"/>	Within 1 mile upstream of PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Upstream Drainage Area?		Within Zone of Critical Concern? <input type="checkbox"/> Yes <input type="checkbox"/> No	

**Section IV(a) - Stream/River Source** (to be completed for each surface water withdrawal location, print additional pages as necessary)

Stream/River Name: Ohio River - Select Energy		
Landowner name and address: Select Energy 7994 S. Pleasants Hwy St. Marys, WV 26170		Phone:  304-665-2652
Intake Location (decimal degrees, NAD83)		
Latitude:  39.348139	Longitude:  -81.336113	County:  Pleasants

Proposed Withdrawal Details

Stationary Pump:	Total Maximum Pump Rate (gpm)  2200	
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm):  N/A	No. Trucks Simultaneously Pumping:  N/A

Determination that sufficient flow is available downstream from proposed intake point

Allow passby to be calculated by the DEP (Preferred)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
(If no, advance written authorization by DEP is required. Attach authorization and details.)		

Stream Details

<b>DEP Office Use Only</b>			
Contact Recreation <input type="checkbox"/>	Aquatic Life-Trout Water <input type="checkbox"/>	Aquatic Life-Warm Water <input type="checkbox"/>	Drinking Water Supply <input type="checkbox"/>
Industrial <input type="checkbox"/>	Agriculture <input type="checkbox"/>	Irrigation <input type="checkbox"/>	Reference Gauge <input type="checkbox"/>
Gauged Stream: <input type="checkbox"/>	Final Stream Code:	Regulated By:	
Trout <input type="checkbox"/>	Sensitive Aquatic Species <input type="checkbox"/>	Tier 3 Streams <input type="checkbox"/>	Within 1 mile upstream of PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Upstream Drainage Area?		Within Zone of Critical Concern? <input type="checkbox"/> Yes <input type="checkbox"/> No	

**Section IV(a) - Stream/River Source** (to be completed for each surface water withdrawal location, print additional pages as necessary)

Stream/River Name: South Fork of Fishing Creek - Carlin Withdrawal Site		
Landowner name and address: Joseph W. Carlin HC 79 Box 59 Jacksonberg, WV 26377		Phone: 304-334-5835
Intake Location (decimal degrees, NAD83)		
Latitude: 39.515157	Longitude: -80.602652	County: Wetzel

Proposed Withdrawal Details

Stationary Pump:	Total Maximum Pump Rate (gpm) 1890	
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm): N/A	No. Trucks Simultaneously Pumping: N/A

Determination that sufficient flow is available downstream from proposed intake point

Allow passby to be calculated by the DEP (Preferred)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
(If no, advance written authorization by DEP is required. Attach authorization and details.)		

Stream Details

<b>DEP Office Use Only</b>			
Contact Recreation <input type="checkbox"/>	Aquatic Life-Trout Water <input type="checkbox"/>	Aquatic Life-Warm Water <input type="checkbox"/>	Drinking Water Supply <input type="checkbox"/>
Industrial <input type="checkbox"/>	Agriculture <input type="checkbox"/>	Irrigation <input type="checkbox"/>	Reference Gauge <input type="checkbox"/>
Gauged Stream: <input type="checkbox"/>	Final Stream Code:	Regulated By:	
Trout <input type="checkbox"/>	Sensitive Aquatic Species <input type="checkbox"/>	Tier 3 Streams <input type="checkbox"/>	Within 1 mile upstream of PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Upstream Drainage Area?		Within Zone of Critical Concern? <input type="checkbox"/> Yes <input type="checkbox"/> No	

**Section IV(a) - Stream/River Source** (to be completed for each surface water withdrawal location, print additional pages as necessary)

Stream/River Name: Ohio River - Westbrook Trucking Site		
Landowner name and address: Stephen R. and Janet Sue Westbrook P.O. Box 432 Belmont, WV 26134		Phone: 304-665-2580
Intake Location (decimal degrees, NAD83)		
Latitude: 39.38455	Longitude: -81.256450	County: Pleasants

Proposed Withdrawal Details

Stationary Pump:	Total Maximum Pump Rate (gpm) 2,520	
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm): N/A	No. Trucks Simultaneously Pumping: N/A

Determination that sufficient flow is available downstream from proposed intake point

Allow passby to be calculated by the DEP (Preferred)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
(If no, advance written authorization by DEP is required. Attach authorization and details.)		

Stream Details

<b>DEP Office Use Only</b>			
Contact Recreation <input type="checkbox"/>	Aquatic Life-Trout Water <input type="checkbox"/>	Aquatic Life-Warm Water <input type="checkbox"/>	Drinking Water Supply <input type="checkbox"/>
Industrial <input type="checkbox"/>	Agriculture <input type="checkbox"/>	Irrigation <input type="checkbox"/>	Reference Gauge <input type="checkbox"/>
Gauged Stream: <input type="checkbox"/>	Final Stream Code:	Regulated By:	
Trout <input type="checkbox"/>	Sensitive Aquatic Species <input type="checkbox"/>	Tier 3 Streams <input type="checkbox"/>	Within 1 mile upstream of PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Upstream Drainage Area?		Within Zone of Critical Concern? <input type="checkbox"/> Yes <input type="checkbox"/> No	

**Section IV(a) - Stream/River Source** (to be completed for each surface water withdrawal location, print additional pages as necessary)

Stream/River Name:		Fishing Creek @ LLOYD	
Landowner name and address:		Phone:	
Loma C. Lloyd 10474 Short line Hwy Reader, WV 26167		304-386-4597	
Intake Location (decimal degrees, NAD83)			
Latitude:	Longitude:	County:	
39.56279	-80.722640	Wetzel	

Proposed Withdrawal Details

Stationary Pump:	Total Maximum Pump Rate (gpm)		1890
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm):	No. Trucks Simultaneously Pumping:	
	N/A	N/A	

Determination that sufficient flow is available downstream from proposed intake point

Allow passby to be calculated by the DEP (Preferred)?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (If no, advance written authorization by DEP is required. Attach authorization and details.)
--

Stream Details

DEP Office Use Only			
Contact Recreation <input type="checkbox"/>	Aquatic Life-Trout Water <input type="checkbox"/>	Aquatic Life-Warm Water <input type="checkbox"/>	Drinking Water Supply <input type="checkbox"/>
Industrial <input type="checkbox"/>	Agriculture <input type="checkbox"/>	Irrigation <input type="checkbox"/>	Reference Gauge <input type="checkbox"/>
Gauged Stream: <input type="checkbox"/>	Final Stream Code:	Regulated By:	
Trout <input type="checkbox"/>	Sensitive Aquatic Species <input type="checkbox"/>	Tier 3 Streams <input type="checkbox"/>	Within 1 mile upstream of PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Upstream Drainage Area?		Within Zone of Critical Concern? <input type="checkbox"/> Yes <input type="checkbox"/> No	

**Section IV(a) - Stream/River Source** (to be completed for each surface water withdrawal location, print additional pages as necessary)

Stream/River Name: North Fork of Fishing Creek @ Wildman		
Landowner name and address: Robert K. Wildman 6642 N. Fork Road Pine Grove, WV 26419		Phone: 304-889-2070
Intake Location (decimal degrees, NAD83)		
Latitude: 39.585522	Longitude: -80.617871	County: Wetzel

Proposed Withdrawal Details

Stationary Pump:	Total Maximum Pump Rate (gpm) 1890	
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm): N/A	No. Trucks Simultaneously Pumping: N/A

Determination that sufficient flow is available downstream from proposed intake point

Allow passby to be calculated by the DEP (Preferred)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
(If no, advance written authorization by DEP is required. Attach authorization and details.)		

Stream Details

<b>DEP Office Use Only</b>			
Contact Recreation <input type="checkbox"/>	Aquatic Life-Trout Water <input type="checkbox"/>	Aquatic Life-Warm Water <input type="checkbox"/>	Drinking Water Supply <input type="checkbox"/>
Industrial <input type="checkbox"/>	Agriculture <input type="checkbox"/>	Irrigation <input type="checkbox"/>	Reference Gauge <input type="checkbox"/>
Gauged Stream: <input type="checkbox"/>	Final Stream Code:	Regulated By:	
Trout <input type="checkbox"/>	Sensitive Aquatic Species <input type="checkbox"/>	Tier 3 Streams <input type="checkbox"/>	Within 1 mile upstream of PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Upstream Drainage Area?		Within Zone of Critical Concern? <input type="checkbox"/> Yes <input type="checkbox"/> No	

**Section IV(a) - Stream/River Source** (to be completed for each surface water withdrawal location, print additional pages as necessary)

Ohio DNR Registration Number 02984

Stream/River Name: Ohio River @ HRE Site		
Landowner name and address: Hannibal Real Estate LLC - David Reid 711 Winchester Ave. Suite 204 White Plains, NY 40604		Phone: 215-778-1123
Intake Location (decimal degrees, NAD83)		
Latitude: 39.585522	Longitude: -80.846603	County: Wetzel

Proposed Withdrawal Details

Stationary Pump:	Total Maximum Pump Rate (gpm) 2916	
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm): N/A	No. Trucks Simultaneously Pumping: N/A

Determination that sufficient flow is available downstream from proposed intake point

Allow passby to be calculated by the DEP (Preferred)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
(If no, advance written authorization by DEP is required. Attach authorization and details.)	

Stream Details

DEP Office Use Only			
Contact Recreation <input type="checkbox"/>	Aquatic Life-Trout Water <input type="checkbox"/>	Aquatic Life-Warm Water <input type="checkbox"/>	Drinking Water Supply <input type="checkbox"/>
Industrial <input type="checkbox"/>	Agriculture <input type="checkbox"/>	Irrigation <input type="checkbox"/>	Reference Gauge <input type="checkbox"/>
Gauged Stream: <input type="checkbox"/>	Final Stream Code:	Regulated By:	
Trout <input type="checkbox"/>	Sensitive Aquatic Species <input type="checkbox"/>	Tier 3 Streams <input type="checkbox"/>	Within 1 mile upstream of PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Upstream Drainage Area?		Within Zone of Critical Concern? <input type="checkbox"/> Yes <input type="checkbox"/> No	

**Section IV(a) - Stream/River Source (to be completed for each surface water withdrawal location, print additional pages as necessary)**

Stream/River Name:		Wiley Fork @ BIG177	
Landowner name and address:		Phone:	
Coastal Forest Resources P.O. Box 709 Buckhannon, WV 26201		304-460-7000	
Intake Location (decimal degrees, NAD83)			
Latitude:	Longitude:	County:	
39.581673	-80.584345	Wetzel	

**Proposed Withdrawal Details**

Stationary Pump:	Total Maximum Pump Rate (gpm)		1500
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm):	No. Trucks Simultaneously Pumping:	
	N/A	N/A	

Determination that sufficient flow is available downstream from proposed intake point

Allow passby to be calculated by the DEP (Preferred)?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (If no, advance written authorization by DEP is required. Attach authorization and details.)
--

**Stream Details**

<b>DEP Office Use Only</b>			
Contact Recreation <input type="checkbox"/>	Aquatic Life-Trout Water <input type="checkbox"/>	Aquatic Life-Warm Water <input type="checkbox"/>	Drinking Water Supply <input type="checkbox"/>
Industrial <input type="checkbox"/>	Agriculture <input type="checkbox"/>	Irrigation <input type="checkbox"/>	Reference Gauge
Gauged Stream: <input type="checkbox"/>	Final Stream Code:	Regulated By:	
Trout <input type="checkbox"/>	Sensitive Aquatic Species <input type="checkbox"/>	Tier 3 Streams <input type="checkbox"/>	Within 1 mile upstream of PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Upstream Drainage Area?		Within Zone of Critical Concern? <input type="checkbox"/> Yes <input type="checkbox"/> No	

**Section IV(a) - Stream/River Source** (to be completed for each surface water withdrawal location, print additional pages as necessary)

Stream/River Name:		Knob Fork	
Landowner name and address:		Phone:	
Nancy E. Jolliffe Executrix of the Estate of Joe Ben Jolliffe, Deceased P.O. Box 960 Hundred, WV 26575		304-775-2141	
Intake Location (decimal degrees, NAD83)			
Latitude:	Longitude:	County:	
39.657162	-80.549087	Wetzel	

Proposed Withdrawal Details

Stationary Pump:	Total Maximum Pump Rate (gpm)		1680
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm):	No. Trucks Simultaneously Pumping:	
	N/A	N/A	

Determination that sufficient flow is available downstream from proposed intake point

Allow passby to be calculated by the DEP (Preferred)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
(If no, advance written authorization by DEP is required. Attach authorization and details.)		

Stream Details

<b>DEP Office Use Only</b>			
Contact Recreation <input type="checkbox"/>	Aquatic Life-Trout Water <input type="checkbox"/>	Aquatic Life-Warm Water <input type="checkbox"/>	Drinking Water Supply <input type="checkbox"/>
Industrial <input type="checkbox"/>	Agriculture <input type="checkbox"/>	Irrigation <input type="checkbox"/>	Reference Gauge
Gauged Stream: <input type="checkbox"/>	Final Stream Code:	Regulated By:	
Trout <input type="checkbox"/>	Sensitive Aquatic Species <input type="checkbox"/>	Tier 3 Streams <input type="checkbox"/>	Within 1 mile upstream of PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Upstream Drainage Area?		Within Zone of Critical Concern? <input type="checkbox"/> Yes <input type="checkbox"/> No	

**Section IV(a) - Stream/River Source** (to be completed for each surface water withdrawal location, print additional pages as necessary)

Stream/River Name:		Fish Creek	
Landowner name and address:		Phone:	
Gay Karen Blake & Joseph F. 1686 Cameron Rd. New Cumberland, WV 26047		304-564-5030	
Intake Location (decimal degrees, NAD83)			
Latitude:	Longitude:	County:	
39.707725	-80.560959	Wetzel	

Proposed Withdrawal Details

Stationary Pump:	Total Maximum Pump Rate (gpm)		1680
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm):	No. Trucks Simultaneously Pumping:	
	420	4	

Determination that sufficient flow is available downstream from proposed intake point

Allow passby to be calculated by the DEP (Preferred)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
(If no, advance written authorization by DEP is required. Attach authorization and details.)		

Stream Details

<b>DEP Office Use Only</b>			
Contact Recreation <input type="checkbox"/>	Aquatic Life-Trout Water <input type="checkbox"/>	Aquatic Life-Warm Water <input type="checkbox"/>	Drinking Water Supply <input type="checkbox"/>
Industrial <input type="checkbox"/>	Agriculture <input type="checkbox"/>	Irrigation <input type="checkbox"/>	Reference Gauge <input type="checkbox"/>
Gauged Stream: <input type="checkbox"/>	Final Stream Code:	Regulated By:	
Trout <input type="checkbox"/>	Sensitive Aquatic Species <input type="checkbox"/>	Tier 3 Streams <input type="checkbox"/>	Within 1 mile upstream of PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Upstream Drainage Area?		Within Zone of Critical Concern? <input type="checkbox"/> Yes <input type="checkbox"/> No	

**Section IV(a) - Stream/River Source** (to be completed for each surface water withdrawal location, print additional pages as necessary)

Stream/River Name: Buffalo Creek @ Elliot		
Landowner name and address: Joseph and Whitney Elliot 45 Little Whetstone Road Mannington, WV 26582		Phone:
Intake Location (decimal degrees, NAD83)		
Latitude: 39.502073	Longitude: -80.422200	County: Marion

Proposed Withdrawal Details

Stationary Pump:	Total Maximum Pump Rate (gpm) 2700	
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm): N/A	No. Trucks Simultaneously Pumping: N/A

Determination that sufficient flow is available downstream from proposed intake point

Allow passby to be calculated by the DEP (Preferred)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
(If no, advance written authorization by DEP is required. Attach authorization and details.)	

Stream Details

<b>DEP Office Use Only</b>			
Contact Recreation <input type="checkbox"/>	Aquatic Life-Trout Water <input type="checkbox"/>	Aquatic Life-Warm Water <input type="checkbox"/>	Drinking Water Supply <input type="checkbox"/>
Industrial <input type="checkbox"/>	Agriculture <input type="checkbox"/>	Irrigation <input type="checkbox"/>	Reference Gauge
Gauged Stream: <input type="checkbox"/>	Final Stream Code:	Regulated By:	
Trout <input type="checkbox"/>	Sensitive Aquatic Species <input type="checkbox"/>	Tier 3 Streams <input type="checkbox"/>	Within 1 mile upstream of PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Upstream Drainage Area?		Within Zone of Critical Concern? <input type="checkbox"/> Yes <input type="checkbox"/> No	

**Section IV(a) - Stream/River Source** (to be completed for each surface water withdrawal location, print additional pages as necessary)

Stream/River Name: <b>Ohio River @ Spielers Club</b>		
Landowner name and address:  The Spielers Club 101 Spielers Drive 31 Proctor, WV 26055		Phone:
Intake Location (decimal degrees, NAD83)		
Latitude:  39.709677	Longitude:  -80.826384	County:  Wetzel

Proposed Withdrawal Details

Stationary Pump:	Total Maximum Pump Rate (gpm)  1680	
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm):  N/A	No. Trucks Simultaneously Pumping:  N/A

Determination that sufficient flow is available downstream from proposed intake point

Allow passby to be calculated by the DEP (Preferred)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
(If no, advance written authorization by DEP is required. Attach authorization and details.)		

Stream Details

<b>DEP Office Use Only</b>			
Contact Recreation <input type="checkbox"/>	Aquatic Life-Trout Water <input type="checkbox"/>	Aquatic Life-Warm Water <input type="checkbox"/>	Drinking Water Supply <input type="checkbox"/>
Industrial <input type="checkbox"/>	Agriculture <input type="checkbox"/>	Irrigation <input type="checkbox"/>	Reference Gauge
Gauged Stream: <input type="checkbox"/>	Final Stream Code:	Regulated By:	
Trout <input type="checkbox"/>	Sensitive Aquatic Species <input type="checkbox"/>	Tier 3 Streams <input type="checkbox"/>	Within 1 mile upstream of PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Upstream Drainage Area?		Within Zone of Critical Concern? <input type="checkbox"/> Yes <input type="checkbox"/> No	

**Section IV(a) - Stream/River Source** (to be completed for each surface water withdrawal location, print additional pages as necessary)

Stream/River Name: <span style="float: right;">Little Fishing Creek @ Stout</span>		
Landowner name and address:  Gwendolyn Stout 8369 Mountaineer HWY New Martinsville, WV 26155		Phone:
Intake Location (decimal degrees, NAD83)		
Latitude:  39.608317	Longitude:  -80.766594	County:  Wetzie

Proposed Withdrawal Details

Stationary Pump:	Total Maximum Pump Rate (gpm)  1680	
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm):  N/A	No. Trucks Simultaneously Pumping:  N/A

Determination that sufficient flow is available downstream from proposed intake point

Allow passby to be calculated by the DEP (Preferred)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
(If no, advance written authorization by DEP is required. Attach authorization and details.)		

Stream Details

<b>DEP Office Use Only</b>			
Contact Recreation <input type="checkbox"/>	Aquatic Life-Trout Water <input type="checkbox"/>	Aquatic Life-Warm Water <input type="checkbox"/>	Drinking Water Supply <input type="checkbox"/>
Industrial <input type="checkbox"/>	Agriculture <input type="checkbox"/>	Irrigation <input type="checkbox"/>	Reference Gauge
Gauged Stream: <input type="checkbox"/>	Final Stream Code:	Regulated By:	
Trout <input type="checkbox"/>	Sensitive Aquatic Species <input type="checkbox"/>	Tier 3 Streams <input type="checkbox"/>	Within 1 mile upstream of PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Upstream Drainage Area?		Within Zone of Critical Concern? <input type="checkbox"/> Yes <input type="checkbox"/> No	

**Section IV(a) - Stream/River Source** (to be completed for each surface water withdrawal location, print additional pages as necessary)

Stream/River Name: <b>Little Fishing Creek @ Conley</b>		
Landowner name and address: <b>Ronald Conley 6226 Mountaineer HWY New Martinsville, WV 26155</b>		Phone:
Intake Location (decimal degrees, NAD83)		
Latitude: <b>39.610711</b>	Longitude: <b>-80.790309</b>	County: <b>Wetzie</b>

**Proposed Withdrawal Details**

Stationary Pump:	Total Maximum Pump Rate (gpm) <b>1680</b>	
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm): <b>N/A</b>	No. Trucks Simultaneously Pumping: <b>N/A</b>

Determination that sufficient flow is available downstream from proposed intake point

Allow passby to be calculated by the DEP (Preferred)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
(If no, advance written authorization by DEP is required. Attach authorization and details.)		

**Stream Details**

<b>DEP Office Use Only</b>			
Contact Recreation <input type="checkbox"/>	Aquatic Life-Trout Water <input type="checkbox"/>	Aquatic Life-Warm Water <input type="checkbox"/>	Drinking Water Supply <input type="checkbox"/>
Industrial <input type="checkbox"/>	Agriculture <input type="checkbox"/>	Irrigation <input type="checkbox"/>	Reference Gauge
Gauged Stream: <input type="checkbox"/>	Final Stream Code:	Regulated By:	
Trout <input type="checkbox"/>	Sensitive Aquatic Species <input type="checkbox"/>	Tier 3 Streams <input type="checkbox"/>	Within 1 mile upstream of PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Upstream Drainage Area?		Within Zone of Critical Concern? <input type="checkbox"/> Yes <input type="checkbox"/> No	

**Section IV(b) - Groundwater Source\*** (to be completed for each Ground water withdrawal location, print more pages as necessary)

Well Permit # (DHHR): 52-12-06		Well Name: TW#1 Water Well (BIG176)	
Landowner name and address: John W. Kilcoyne Rt 1 Box 28 Smithfield, WV 26437		Phone: 304-889-2116	
Well Location (decimal degrees, NAD83)			
Latitude: 39.56059	Longitude: -80.560270	County: Wetzel	
Aquifer (if known):			
<input type="checkbox"/> *New Well (Drill Date _____) <input checked="" type="checkbox"/> Existing Well			

\* if drilling a new well, please submit well logs to DEP's Water Use Section; Wells must be drilled and plugged in accordance with DHHR regulations.

Total Depth: 278'	Type of Casing: Steel	Casing Diameter: 12" to 20', 8" to 32'	Screen Interval: N/A	Screen Size: N/A
Static Water Elevation: 856'	Top of Casing Elevation: 869'	Surface Elevation: 867'	Type of Well Cap: None	
Withdrawal Details				
Max. Pump rate (gpm): 210				

Analysis of potential groundwater impacts

Static Water Level Prior to Test: _____	12.95 TOC	_____ feet below grade
Drawdown (water Level/Elevation During Pump Test): _____	190+/-	_____ feet
Duration of Pump Test _____	24	_____ hours
Gallons Per Minute During Pump Test: _____	150	_____ gpm
Time to Return to Static Water Level After Pump Test: _____	1	_____ hours

\*All groundwater supply wells must be registered with the Office of Oil and Gas § 22-6A-8(g)(5), additional requirements may apply.

**Section IV(b) - Groundwater Source\*** (to be completed for each Ground water withdrawal location, print more pages as necessary)

Well Permit # (DHHR):		Well Name: TW# 5 (BIG57)	
Landowner name and address: EQT Corp. 625 Liberty Avenue Pittsburgh, PA 15222		Phone: 412-395-2063	
Well Location (decimal degrees, NAD83)			
Latitude: 39.553434	Longitude: -80.528871	County: Wetzel	
Aquifer (if known):			
<input type="checkbox"/> *New Well (Drill Date _____) <input checked="" type="checkbox"/> Existing Well			

\* if drilling a new well, please submit well logs to DEP's Water Use Section; Wells must be drilled and plugged in accordance with DHHR regulations.

Total Depth: 255	Type of Casing: Steel	Casing Diameter: 12" to 18' 8" to 28.5'	Screen Interval: none-open hole	Screen Size: N/A
Static Water Elevation: 908.5'	Top of Casing Elevation: 918.5'	Surface Elevation: 917'	Type of Well Cap: None	
Withdrawal Details				
Max. Pump rate (gpm): 200				

Analysis of potential groundwater impacts

Static Water Level Prior to Test: _____ 10 _____ feet below grade
Drawdown (water Level/Elevation During Pump Test): _____ 75 _____ feet
Duration of Pump Test _____ 24 _____ hours
Gallons Per Minute During Pump Test: _____ 300 _____ gpm
Time to Return to Static Water Level After Pump Test: _____ 90% in 0.5 _____ hours

\*All groundwater supply wells must be registered with the Office of Oil and Gas § 22-6A-8(g)(5), additional requirements may apply.

**Section IV(b) - Groundwater Source\*** (to be completed for each Ground water withdrawal location, print more pages as necessary)

Well Permit # (DHHR):		Well Name: Maxson Property Test Well #1 ( Ritchie)	
Landowner name and address: Douglas Maxson 533 Arcadia Park Lexington, KY 40503-1353		Phone: 859-276-2365	
Well Location (decimal degrees, NAD83)			
Latitude: 39.144411	Longitude: -80.846622	County: Ritchie	
Aquifer (if known): N/A			
<input type="checkbox"/> *New Well (Drill Date _____) <input type="checkbox"/> Existing Well			

\* if drilling a new well, please submit well logs to DEP's Water Use Section; Wells must be drilled and plugged in accordance with DHHR regulations.

Total Depth: 396	Type of Casing: .375 Wall Steel	Casing Diameter: 10	Screen Interval: N/A	Screen Size: N/A
Static Water Elevation: 788	Top of Casing Elevation: 798	Surface Elevation: 796	Type of Well Cap: Sanitary Seal	
Withdrawal Details				
Max. Pump rate (gpm): 30				

Analysis of potential groundwater impacts

Static Water Level Prior to Test: _____	8.1	_____ feet below grade
Drawdown (water Level/Elevation During Pump Test): _____	30	_____ feet
Duration of Pump Test _____	48	_____ hours
Gallons Per Minute During Pump Test: _____	30	_____ gpm
Time to Return to Static Water Level After Pump Test: _____	48	_____ hours

\*All groundwater supply wells must be registered with the Office of Oil and Gas § 22-6A-8(g)(5), additional requirements may apply.

**Section IV(c) - Brokered Water Source** (to be completed for each water supplier; include each hydrant/tap location, print more pages as necessary)

Supplier Name: Ascent Resources LLC - Central Tank Battery		
Supplier name and address: Ascent Resources LLC P.O. Box 13678 Oklahoma City, OK 73113		Phone: 405-418-8000
Hydrant/Tap (decimal degrees, NAD83)		
Latitude: 39.620162	Longitude: -80.630426	County: Wetzel
Supplier Type		
<input type="checkbox"/> Public Water Provider	<input type="checkbox"/> Waste Water Treatment Plant	<input type="checkbox"/> Industrial (raw water intake locations must be provided below)
<input type="checkbox"/> Commercial Supplier (raw water intake location must be provided below)		<input checked="" type="checkbox"/> Private (raw water intake location must be provided below)
Purchase Details		
Max. total daily purchase (gal) 2,100,000 Gal. Per day	Additional Location information: Ascent Wileyville Central Tank Battery	

**Section IV(c) - Brokered Water Source** (to be completed for each water supplier; include each hydrant/tap location, print more pages as necessary)

Supplier Name: Ascent Resources, LLC - Water Wells		
Supplier name and address: Ascent Resources LLC P.O. Box 13678 Oklahoma City, OK 73113		Phone: 405-418-8000
Hydrant/Tap (decimal degrees, NAD83)		
Latitude: 39.61825	Longitude: -80.881160	County: Wetzel
Supplier Type		
<input type="checkbox"/> Public Water Provider	<input type="checkbox"/> Waste Water Treatment Plant	<input type="checkbox"/> Industrial (raw water intake locations must be provided below)
<input type="checkbox"/> Commercial Supplier (raw water intake location must be provided below)		<input checked="" type="checkbox"/> Private (raw water intake location must be provided below)
Purchase Details		
Max. total daily purchase (gal) 1,260,000 Gal. Per Day	Additional Location information: Ascent Resources Water Wells Site	

**Section IV(c) - Brokered Water Source** (to be completed for each water supplier; include each hydrant/tap location, print more pages as necessary)

Supplier Name: Consol Energy /Murray Energy @ Hibbs Run Reservoir		
Supplier name and address: Consol Energy CNX Center 1000 Consol Energy Dr. Canonsburg, PA 15317		Phone: 724-485-4000
Hydrant/Tap (decimal degrees, NAD83)		
Latitude: 39.549294	Longitude: -80.388238	County: Marion
Supplier Type		
<input type="checkbox"/> Public Water Provider	<input type="checkbox"/> Waste Water Treatment Plant	<input type="checkbox"/> Industrial (raw water intake locations must be provided below)
<input type="checkbox"/> Commercial Supplier (raw water intake location must be provided below)		<input checked="" type="checkbox"/> Private (raw water intake location must be provided below)
Purchase Details		
Max. total daily purchase (gal) 2,520,000 . Per Day	Additional Location information: Owned by Murray Energy, Water rights owned by Consol	

**Section IV(c) - Brokered Water Source** (to be completed for each water supplier; include each hydrant/tap location, print more pages as necessary)

Supplier Name: Consol Energy /Murray Energy @ Murray Energy RO Plant		
Supplier name and address: Consol Energy CNX Center 1000 Consol Energy Dr. Canonsburg, PA 15317		Phone: 724-485-4000
Hydrant/Tap (decimal degrees, NAD83)		
Latitude: 39.547812	Longitude: -80.395469	County: Marion
Supplier Type		
<input type="checkbox"/> Public Water Provider	<input type="checkbox"/> Waste Water Treatment Plant	<input type="checkbox"/> Industrial (raw water intake locations must be provided below)
<input type="checkbox"/> Commercial Supplier (raw water intake location must be provided below)		<input checked="" type="checkbox"/> Private (raw water intake location must be provided below)
Purchase Details		
Max. total daily purchase (gal) 3,500,000 . Per Day	Additional Location information: Owned by Murray Energy, Water rights owned by Consol	

**Section IV(c) - Brokered Water Source** (to be completed for each water supplier; include each hydrant/tap location, print more pages as necessary)

Supplier Name: Antero central Tank Battery		
Supplier name and address: Antero Resources 1615 Wynkoop St. Denver, CO 80202		Phone: 303-357-7310
Hydrant/Tap (decimal degrees, NAD83)		
Latitude: 39.620162	Longitude: -80.630426	County: Marion
Supplier Type		
<input type="checkbox"/> Public Water Provider	<input type="checkbox"/> Waste Water Treatment Plant	<input type="checkbox"/> Industrial (raw water intake locations must be provided below)
<input type="checkbox"/> Commercial Supplier (raw water intake location must be provided below)		<input checked="" type="checkbox"/> Private (raw water intake location must be provided below)
Purchase Details		
Max. total daily purchase (gal) 2,200,000	Additional Location information: N/A	

**Section IV(c) - Brokered Water Source** (to be completed for each water supplier; include each hydrant/tap location, print more pages as necessary)

Supplier Name: Dents Run Reservoir - City of Mannington, WV		
Supplier name and address: City of Mannington, WV 206 Main Street Mannington, WV 26582		Phone: 304-986-2700
Hydrant/Tap (decimal degrees, NAD83)		
Latitude: 39.526962	Longitude: -80.366694	County: Marion
Supplier Type		
<input type="checkbox"/> Public Water Provider	<input type="checkbox"/> Waste Water Treatment Plant	<input type="checkbox"/> Industrial (raw water intake locations must be provided below)
<input type="checkbox"/> Commercial Supplier (raw water intake location must be provided below)		<input checked="" type="checkbox"/> Private (raw water intake location must be provided below)
Purchase Details		
Max. total daily purchase (gal) 2,520,000	Additional Location information: 39.531838, -80.367581 - Dents Run Reservoir Location	

**Section IV(c) - Brokered Water Source** (to be completed for each water supplier; include each hydrant/tap location, print more pages as necessary)

Supplier Name: Moundsville Water Board		
Supplier name and address: Moundsville Water Board 800 6th Street Moundsville, WV 26041		Phone: 304-845-0380
Hydrant/Tap (decimal degrees, NAD83)		
Latitude: 39.9302360	Longitude: -80.7549280	County: Marshall
Supplier Type		
<input checked="" type="checkbox"/> Public Water Provider	<input type="checkbox"/> Waste Water Treatment Plant	<input type="checkbox"/> Industrial (raw water intake locations must be provided below)
<input type="checkbox"/> Commercial Supplier (raw water intake location must be provided below)		<input type="checkbox"/> Private (raw water intake location must be provided below)
Purchase Details		
Max. total daily purchase (gal) 500,000	Additional Location information: Fill Station at 100 Hitt Drive, Moundsville	

**Section IV(e) - Centralized Impoundment/Waste Pit** (to be completed for each source, print more pages as necessary)

Centralized Impoundment/Pit Name:			
OXF44 Freshwater Impoundment # 2			
Referenced WMP #		COA ID:	
02230			
Landowner name and address:		Phone:	
Arden E & Carol L. Cogar P.O. Box 272 Webster Springs, WV 26288		304-847-2353	
Costal Forest Resources Co. C/O Ed Kraynok P.O. Box 709 Buckhannon, WV 26201		304-460-7000	
Facility Location (decimal degrees, NAD83)			
Latitude	Longitude:	County	Registered LQU?
39.143334	-80.813276	Doddridge	<input type="checkbox"/> Yes <input type="checkbox"/> No
Operator name and address (if different than applicant):		Phone (if different than applicant):	
Same		Same	
Withdrawal Details			
Stationary Pump:	Total Maximum Pump Rate (gpm)		1260
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm):	No. Trucks Simultaneously Pumping:	
	N/A	N/A	

<b>DEP Office Use Only</b>
Within 1 Mile upstream of a PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Within zone of critical concern? <input type="checkbox"/> Yes <input type="checkbox"/> No

**Section IV(e) - Centralized Impoundment/Waste Pit** (to be completed for each source, print more pages as necessary)

Centralized Impoundment/Pit Name: Mobley Centralized Freshwater Impoundment - BIG57			
Referenced WMP #	01534	COA ID:	103-FWC-00006
Landowner name and address: EQT Corporation 625 Liberty Street Pittsburg, PA 15222		Phone: 304-842-0082	
Facility Location (decimal degrees, NAD83)			
Latitude 39.553653	Longitude: -80.529715	County Wetzel	Registered LQU? <input type="checkbox"/> Yes <input type="checkbox"/> No
Operator name and address (if different than applicant): Same		Phone (if different than applicant): Same	
Withdrawal Details			
Stationary Pump:	Total Maximum Pump Rate (gpm) 1260		
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm): N/A	No. Trucks Simultaneously Pumping: N/A	

DEP Office Use Only
Within 1 Mile upstream of a PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Within zone of critical concern? <input type="checkbox"/> Yes <input type="checkbox"/> No

**Section IV(e) - Centralized Impoundment/Waste Pit** (to be completed for each source, print more pages as necessary)

Centralized Impoundment/Pit Name: BIG176 Freshwater Centralized Impoundment			
Referenced WMP #	01322	COA ID:	103-FWC-00003
Landowner name and address: John W & Florence E. Kilcoyne Route 1 Box 28 Smithfield, WV 26437		Phone: 304-889-2116	
Facility Location (decimal degrees, NAD83)			
Latitude 39.561403	Longitude: -80.561554	County Wetzel	Registered LQU? <input type="checkbox"/> Yes <input type="checkbox"/> No
Operator name and address (if different than applicant): Same		Phone (if different than applicant): Same	
Withdrawal Details			
Stationary Pump:	Total Maximum Pump Rate (gpm) 1260		
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm): N/A	No. Trucks Simultaneously Pumping: N/A	

DEP Office Use Only
Within 1 Mile upstream of a PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Within zone of critical concern? <input type="checkbox"/> Yes <input type="checkbox"/> No

**Section IV(e) - Centralized Impoundment/Waste Pit** (to be completed for each source, print more pages as necessary)

Centralized Impoundment/Pit Name: Scyoc Centralized Freshwater impoundment - PNG 103			
Referenced WMP #	01222	COA ID:	103-FWC-00004
Landowner name and address: Sharon Ann Scyoc P.O. Box 77 Pine Grove, WV 26419		Phone: 304-889-2638	
Facility Location (decimal degrees, NAD83)			
Latitude 39.56436	Longitude: -80.625644	County Wetzel	Registered LQU? <input type="checkbox"/> Yes <input type="checkbox"/> No
Operator name and address (if different than applicant): Same		Phone (if different than applicant): Same	
Withdrawal Details			
Stationary Pump:	Total Maximum Pump Rate (gpm) 1260		
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm): N/A	No. Trucks Simultaneously Pumping: N/A	

DEP Office Use Only
Within 1 Mile upstream of a PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Within zone of critical concern? <input type="checkbox"/> Yes <input type="checkbox"/> No

**Section IV(e) - Centralized Impoundment/Waste Pit** (to be completed for each source, print more pages as necessary)

Centralized Impoundment/Pit Name: Richwood Centralized Freshwater Impoundment - BIG 190			
Referenced WMP #	01535	COA ID:	103-FWC-00007
Landowner name and address: Costal Forest Resrouces Co. C/O Ed Kraynok dba Costal Timberlands Company 1172 Brushy Fork Road Buckhannon, WV 26201		Phone:	
Facility Location (decimal degrees, NAD83)			
Latitude 39.551137	Longitude: -80.605342	County Wetzel	Registered LQU? <input type="checkbox"/> Yes <input type="checkbox"/> No
Operator name and address (if different than applicant): Same		Phone (if different than applicant): Same	
Withdrawal Details			
Stationary Pump:	Total Maximum Pump Rate (gpm) 1260		
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm): N/A	No. Trucks Simultaneously Pumping: N/A	

DEP Office Use Only
Within 1 Mile upstream of a PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Within zone of critical concern? <input type="checkbox"/> Yes <input type="checkbox"/> No

**Section IV(e) - Centralized Impoundment/Waste Pit** (to be completed for each source, print more pages as necessary)

Centralized Impoundment/Pit Name: <p style="text-align: center;">Yoho Impoundment</p>			
Referenced WMP #	01068	COA ID:	103-FWC-00001
Landowner name and address: <p style="text-align: center;">William C. Yoho et al 4216 CR 263 Dublin, TX 76446</p>		Phone: <p style="text-align: center;">254-485-1809</p>	
Facility Location (decimal degrees, NAD83)			
Latitude <p style="text-align: center;">39.56092</p>	Longitude: <p style="text-align: center;">-80.61432</p>	County <p style="text-align: center;">Wetzel</p>	Registered LQU? <input type="checkbox"/> Yes <input type="checkbox"/> No
Operator name and address (if different than applicant): <p style="text-align: center;">Same</p>		Phone (if different than applicant): <p style="text-align: center;">Same</p>	
Withdrawal Details			
Stationary Pump:	Total Maximum Pump Rate (gpm) <p style="text-align: right;">1260</p>		
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm): <p style="text-align: center;">N/A</p>	No. Trucks Simultaneously Pumping: <p style="text-align: center;">N/A</p>	

DEP Office Use Only
Within 1 Mile upstream of a PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Within zone of critical concern? <input type="checkbox"/> Yes <input type="checkbox"/> No

**Section IV(e) - Centralized Impoundment/Waste Pit** (to be completed for each source, print more pages as necessary)

Centralized Impoundment/Pit Name: Carlin Centralized Freshwater Impoundment			
Referenced WMP #	01321	COA ID:	103-FWC-00002
Landowner name and address: Joseph W. Carlin HC 79 Box 59 Jacksonburg, WV 26377		Phone: 304-334-5835	
Facility Location (decimal degrees, NAD83)			
Latitude 39.51168	Longitude: -80.598605	County Wetzel	Registered LQU? <input type="checkbox"/> Yes <input type="checkbox"/> No
Operator name and address (if different than applicant): Same		Phone (if different than applicant): Same	
Withdrawal Details			
Stationary Pump:	Total Maximum Pump Rate (gpm) 1260		
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm): N/A	No. Trucks Simultaneously Pumping: N/A	

DEP Office Use Only
Within 1 Mile upstream of a PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Within zone of critical concern? <input type="checkbox"/> Yes <input type="checkbox"/> No

**Section IV(e) - Centralized Impoundment/Waste Pit** (to be completed for each source, print more pages as necessary)

Centralized Impoundment/Pit Name: Edgell Centralized Freshwater Impoundment - BIG7			
Referenced WMP #	01660	COA ID:	103-FWC-00008
Landowner name and address: Kathy Edgell 6251 Willey Fork Road Burton, WV 26562		Phone: 304-889-2891	
Facility Location (decimal degrees, NAD83)			
Latitude 39.58321	Longitude: -80.61994	County Wetzel	Registered LQU? <input type="checkbox"/> Yes <input type="checkbox"/> No
Operator name and address (if different than applicant): Same		Phone (if different than applicant): Same	
Withdrawal Details			
Stationary Pump:	Total Maximum Pump Rate (gpm) 1260		
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm): N/A	No. Trucks Simultaneously Pumping: N/A	

DEP Office Use Only
Within 1 Mile upstream of a PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Within zone of critical concern? <input type="checkbox"/> Yes <input type="checkbox"/> No

**Section IV(e) - Centralized Impoundment/Waste Pit** (to be completed for each source, print more pages as necessary)

Centralized Impoundment/Pit Name: Carlin #2 Centralized Freshwater Impoundment			
Referenced WMP #	01721	COA ID:	103-FWC-00010
Landowner name and address: Joseph W. Carlin HC 79 Box 59 Jacksonburg, WV 26377		Phone: 304-334-5835	
Facility Location (decimal degrees, NAD83)			
Latitude 39.51224	Longitude: -80.596391	County Wetzel	Registered LQU? <input type="checkbox"/> Yes <input type="checkbox"/> No
Operator name and address (if different than applicant): Same		Phone (if different than applicant): Same	
Withdrawal Details			
Stationary Pump:	Total Maximum Pump Rate (gpm) 1260		
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm): N/A	No. Trucks Simultaneously Pumping: N/A	

DEP Office Use Only
Within 1 Mile upstream of a PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Within zone of critical concern? <input type="checkbox"/> Yes <input type="checkbox"/> No

**Section IV(e) - Centralized Impoundment/Waste Pit** (to be completed for each source, print more pages as necessary)

Centralized Impoundment/Pit Name: <p style="text-align: center;">PEN16 FW Centralized Impoundment</p>			
Referenced WMP #		COA ID: 085-FWC-00005	
Landowner name and address: <p style="text-align: center;">Heartwood Forestland Fund IV LP 301 Emerson Ave., Parkersburg, WV 26104</p>		Phone: <p style="text-align: center;">304-424-3834</p>	
Facility Location (decimal degrees, NAD83)			
Latitude <p style="text-align: center;">39.2504</p>	Longitude: <p style="text-align: center;">-80.93925</p>	County <p style="text-align: center;">Ritchie</p>	Registered LQU? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Operator name and address (if different than applicant): <p style="text-align: center;">Same</p>		Phone (if different than applicant): <p style="text-align: center;">Same</p>	
Withdrawal Details			
Stationary Pump:	Total Maximum Pump Rate (gpm) <p style="text-align: right;">1260</p>		
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm): <p style="text-align: center;">N/A</p>	No. Trucks Simultaneously Pumping: <p style="text-align: center;">N/A</p>	

DEP Office Use Only
Within 1 Mile upstream of a PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Within zone of critical concern? <input type="checkbox"/> Yes <input type="checkbox"/> No

**Section IV(e) - Centralized Impoundment/Waste Pit** (to be completed for each source, print more pages as necessary)

Centralized Impoundment/Pit Name: <p style="text-align: center;">PNG129 Cenentralized Impoundment</p>			
Referenced WMP #		COA ID: 085-FWC-00005	
Landowner name and address: <p style="text-align: center;">Coastal Forest Resources Co. P.O. Box 709 Buckhannon, WV 26201</p>		Phone: <p style="text-align: center;">304-460-7000</p>	
Facility Location (decimal degrees, NAD83)			
Latitude <p style="text-align: center;">39.549022</p>	Longitude: <p style="text-align: center;">-80.640344</p>	County <p style="text-align: center;">Wetzel</p>	Registered LQU? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Operator name and address (if different than applicant): <p style="text-align: center;">Same</p>		Phone (if different than applicant): <p style="text-align: center;">Same</p>	
Withdrawl Details			
Stationary Pump:	Total Maximum Pump Rate (gpm) <p style="text-align: right;">1260</p>		
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm): <p style="text-align: center;">N/A</p>	No. Trucks Simultaneously Pumping: <p style="text-align: center;">N/A</p>	

DEP Office Use Only
Within 1 Mile upstream of a PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Within zone of critical concern? <input type="checkbox"/> Yes <input type="checkbox"/> No

**Section IV(d) - Centralized Impoundment/Waste Pit** (to be completed for each source, print more pages as necessary)

Centralized Impoundment/Pit Name:			
Jolliffe Impoundment			
Referenced WMP #	1289	COA ID:	103-FWP-00005
Landowner name and address:		Phone:	
Nancy E. Jolliffe Executrix of the Estate of Joe Ben Jolliffe, Deceased P.O. Box 960 Hundred, WV 26575		304-775-2141	
Facility Location (decimal degrees, NAD83)			
Latitude	Longitude:	County	Registered LQU?
39.656286	-80.551964	Wetzel	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Operator name and address (if different than applicant):		Phone (if different than applicant):	
Withdrawal Details			
Stationary Pump:	Total Maximum Pump Rate (gpm)		1680
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm):	No. Trucks Simultaneously Pumping:	
	420	4	

DEP Office Use Only
Within 1 Mile upstream of a PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Within zone of critical concern? <input type="checkbox"/> Yes <input type="checkbox"/> No

**Section IV(d) - Centralized Impoundment/Waste Pit** (to be completed for each source, print more pages as necessary)

Centralized Impoundment/Pit Name: <p style="text-align: center;">Mason Conlon FW. Cent. Imp.</p>			
Referenced WMP #	00634	COA ID:	103-FWP-00011
Landowner name and address: <p style="text-align: center;">James and Donna Greathouse HC 61 Box 121 New Martinsville, WV 26155</p>		Phone: <p style="text-align: center;">304-386-4736</p>	
Facility Location (decimal degrees, NAD83)			
Latitude	Longitude:	County	Registered LQU?
39.629326	-80.728773	Wetzel	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Operator name and address (if different than applicant):		Phone (if different than applicant):	
Withdrawal Details			
Stationary Pump:	Total Maximum Pump Rate (gpm) <span style="float: right;">2100</span>		
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm):	No. Trucks Simultaneously Pumping:	

DEP Office Use Only
Within 1 Mile upstream of a PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Within zone of critical concern? <input type="checkbox"/> Yes <input type="checkbox"/> No

**Section IV(d) - Centralized Impoundment/Waste Pit** (to be completed for each source, print more pages as necessary)

Centralized Impoundment/Pit Name: <p style="text-align: center;">Conley FW. Cent. Imp.</p>			
Referenced WMP #	00589	COA ID:	103-FWP-00017
Landowner name and address: <p style="text-align: center;">Ronald Gene Conley HC 61 Box 46 New Martinsville, WV 26155</p>		Phone:	
Facility Location (decimal degrees, NAD83)			
Latitude	Longitude:	County	Registered LQU?
39.606991	-80.790382	Wetzel	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Operator name and address (if different than applicant):		Phone (if different than applicant):	
Withdrawal Details			
Stationary Pump:	Total Maximum Pump Rate (gpm) <span style="float: right;">2100</span>		
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm):	No. Trucks Simultaneously Pumping:	

DEP Office Use Only
Within 1 Mile upstream of a PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Within zone of critical concern? <input type="checkbox"/> Yes <input type="checkbox"/> No

**Section IV(d) - Centralized Impoundment/Waste Pit** (to be completed for each source, print more pages as necessary)

Centralized Impoundment/Pit Name: <p style="text-align: center;">Pribble FW Cent. Imp.</p>			
Referenced WMP #	00277	COA ID:	103-FWP-00015
Landowner name and address: <p style="text-align: center;">Raymond Pribble 99 AA RR 1 New Martinsville, WV 26155</p>		Phone:	
Facility Location (decimal degrees, NAD83)			
Latitude	Longitude:	County	Registered LQU?
39.686158	-80.821565	Wetzel	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Operator name and address (if different than applicant):		Phone (if different than applicant):	
Withdrawal Details			
Stationary Pump:	Total Maximum Pump Rate (gpm) <span style="float: right;">2100</span>		
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm):	No. Trucks Simultaneously Pumping:	

DEP Office Use Only
Within 1 Mile upstream of a PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Within zone of critical concern? <input type="checkbox"/> Yes <input type="checkbox"/> No

**Section IV(d) - Centralized Impoundment/Waste Pit** (to be completed for each source, print more pages as necessary)

Centralized Impoundment/Pit Name: <p style="text-align: center;">McDiffit/Mills FW Cent. Imp.</p>			
Referenced WMP #	00115	COA ID:	103-FWP-00014
Landowner name and address: <p style="text-align: center;">Michael and Timothy McDiffit P.O. Box 3 Porter Falls, WV 26162</p>		Phone:	
Facility Location (decimal degrees, NAD83)			
Latitude	Longitude:	County	Registered LQU?
39.532444	-80.67192	Wetzel	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Operator name and address (if different than applicant):		Phone (if different than applicant):	
Withdrawal Details			
Stationary Pump:	Total Maximum Pump Rate (gpm)		2100
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm):	No. Trucks Simultaneously Pumping:	

DEP Office Use Only
Within 1 Mile upstream of a PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Within zone of critical concern? <input type="checkbox"/> Yes <input type="checkbox"/> No

**Section IV(d) - Centralized Impoundment/Waste Pit** (to be completed for each source, print more pages as necessary)

Centralized Impoundment/Pit Name:			
Ball #1 FWCI			
Referenced WMP #	01814	COA ID:	095-FWC-00005
Landowner name and address:		Phone:	
EQT Production 625 Liberty Avenue Pittsburgh, PA 15222			
Facility Location (decimal degrees, NAD83)			
Latitude	Longitude:	County	Registered LQU?
39.5046	-80.7546	Tyler	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Operator name and address (if different than applicant):		Phone (if different than applicant):	
Withdrawal Details			
Stationary Pump:	Total Maximum Pump Rate (gpm) <span style="float: right;">2100</span>		
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm):	No. Trucks Simultaneously Pumping:	

DEP Office Use Only
Within 1 Mile upstream of a PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Within zone of critical concern? <input type="checkbox"/> Yes <input type="checkbox"/> No

**Section IV(d) - Centralized Impoundment/Waste Pit** (to be completed for each source, print more pages as necessary)

Centralized Impoundment/Pit Name:			
Ball #2			
Referenced WMP #	01815	COA ID:	095-FWC-00008
Landowner name and address:		Phone:	
EQT Production 625 Liberty Avenue Pittsburgh, PA 15222			
Facility Location (decimal degrees, NAD83)			
Latitude	Longitude:	County	Registered LQU?
39.4991	-80.7597	Tyler	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Operator name and address (if different than applicant):		Phone (if different than applicant):	
Withdrawal Details			
Stationary Pump:	Total Maximum Pump Rate (gpm) <span style="float: right;">2100</span>		
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm):	No. Trucks Simultaneously Pumping:	

DEP Office Use Only
Within 1 Mile upstream of a PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Within zone of critical concern? <input type="checkbox"/> Yes <input type="checkbox"/> No

**Section IV(d) - Centralized Impoundment/Waste Pit** (to be completed for each source, print more pages as necessary)

Centralized Impoundment/Pit Name:			
GLO76 Tonkery FWCI			
Referenced WMP #	01815	COA ID:	049-FWC-00035
Landowner name and address:		Phone:	
Robert and Maxine Tonkery 28 Tonkery Drive Fairmont, WV 26554			
Facility Location (decimal degrees, NAD83)			
Latitude	Longitude:	County	Registered LQU?
39.563943	-80.492314	Marion	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Operator name and address (if different than applicant):		Phone (if different than applicant):	
Withdrawal Details			
Stationary Pump:	Total Maximum Pump Rate (gpm)		
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm):	No. Trucks Simultaneously Pumping:	
	4200	5	

DEP Office Use Only
Within 1 Mile upstream of a PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Within zone of critical concern? <input type="checkbox"/> Yes <input type="checkbox"/> No

**Section IV(F) - Above Ground Storage Tanks** (to be completed for each source, print more pages as necessary)

AST Name:			
BIG177 AST			
Referenced WMP #			
Landowner name and address:		Phone:	
EQT Productino 625 Liberty Ave Pittsburgh, PA 15222			
Facility Location (decimal degrees, NAD83)			
Latitude	Longitude:	County	Registered LQU?
39.582212	-80.585624	Wetzel	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Operator name and address (if different than applicant):		Phone (if different than applicant):	
Withdrawl Details			
Stationary Pump:	Total Maximum Pump Rate (gpm)		1890
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm):	No. Trucks Simultaneously Pumping:	
	N/A	N/A	

DEP Office Use Only
Within 1 Mile upstream of a PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Within zone of critical concern? <input type="checkbox"/> Yes <input type="checkbox"/> No

**Section IV(F) - Above Ground Storage Tanks** (to be completed for each source, print more pages as necessary)

AST Name: <p style="text-align: center;">Weekley FW AST</p>			
Referenced WMP #		No ID	
Landowner name and address: <p style="text-align: center;">Larry I. Weekley Rt. 20 Reader, WV 26167</p>		Phone: <p style="text-align: center;">304-386-4269</p>	
Facility Location (decimal degrees, NAD83)			
Latitude <p style="text-align: center;">39.59134</p>	Longitude: <p style="text-align: center;">-80.777986</p>	County <p style="text-align: center;">Wetzel</p>	Registered LQU? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Operator name and address (if different than applicant): <p style="text-align: center;">N/A</p>		Phone (if different than applicant): <p style="text-align: center;">N/a</p>	
Withdrawal Details			
Stationary Pump:	Total Maximum Pump Rate (gpm) <p style="text-align: right;">1890</p>		
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm): <p style="text-align: center;">N/A</p>	No. Trucks Simultaneously Pumping: <p style="text-align: center;">N/A</p>	

DEP Office Use Only
Within 1 Mile upstream of a PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No
Within zone of critical concern? <input type="checkbox"/> Yes <input type="checkbox"/> No

**Section IV(f) - Above Ground Storage Tanks** (to be completed for each AST location, print more pages as necessary)

AST Name: <p style="text-align: center;">Farley AST</p>			
Referenced WMP #	01532	COA ID:	017-FWC-00059
Landowner name and address: <p style="text-align: center;">Randall and Debbie Farley 1709 Straight Fork Road West Union, WV 26456</p>		Phone: <p style="text-align: center;">304-349-2297</p>	
AST Location (decimal degrees, NAD83)			
Latitude	Longitude:	County	Registered LQU?
39.135181	-80.821528	Doddridge	<input type="checkbox"/> Yes <input type="checkbox"/> No
Operator name and address (if different than applicant):		Phone (if different than applicant):	
Withdrawl Details			
Stationary Pump:	Total Maximum Pump Rate (gpm)	1680*	
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm): <p style="text-align: center;">8</p>	No. Trucks Simultaneously Pumping: <p style="text-align: center;">4800*</p>	

\* Depending on conditions, we will use one of these methods.

DEP Office Use Only	
Within 1 Mile upstream of a PSD?	
<input type="checkbox"/> Yes	<input type="checkbox"/> No
Within zone of critical concern?	
<input type="checkbox"/> Yes	<input type="checkbox"/> No

**Section IV(f) - Above Ground Storage Tanks** (to be completed for each AST location, print more pages as necessary)

AST Name: <p style="text-align: center;">Opry AST Facility</p>			
Referenced WMP #	02510	COA ID:	TBD
Landowner name and address:  Larry D. Roberts 368 Sugar Run Road Littleton, WV 26581 Anthony W. Sizemore 63 Styles Run Road Metz, WV 26585 Marilyn E. Thomas 24220 Mountaineer Highway Littleton, WV 26581 Nancy E. Jolliffe PO Box 960 Hundred, WV 26575		Phone:  304-775-1736 304-775-4084 304-775-2141	
AST Location (decimal degrees, NAD83)			
Latitude	Longitude:	County	Registered LQU?
39.645116	-80.535909	Wetzel	<input type="checkbox"/> Yes <input type="checkbox"/> No
Operator name and address (if different than applicant):		Phone (if different than applicant):	
Withdrawal Details			
Stationary Pump:	Total Maximum Pump Rate (gpm)	4500	
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm):	No. Trucks Simultaneously Pumping:	8
	4800		

\* Depending on conditions, we will use one of these methods.

DEP Office Use Only	
Within 1 Mile upstream of a PSD?	
<input type="checkbox"/> Yes	<input type="checkbox"/> No
Within zone of critical concern?	
<input type="checkbox"/> Yes	<input type="checkbox"/> No

**Section IV(f) - Above Ground Storage Tanks** (to be completed for each AST location, print more pages as necessary)

AST Name: Berger Centralized Water Facility			
Referenced WMP #	02520	COA ID:	TBD
Landowner name and address: Berger Family LLC c/o Cindy Lee Richmond 157 Richmond Lane Glen Easton, WV 26039		Phone: 304-845-8186	
AST Location (decimal degrees, NAD83)			
Latitude 39.87463	Longitude: -80.757728	County Marshall	Registered LQU? <input type="checkbox"/> Yes <input type="checkbox"/> No
Operator name and address (if different than applicant): EQT CHAP LLC 400 Woodcliff Drive Canonsburg, PA 15317		Phone (if different than applicant): 724-746-9073	
Withdrawal Details			
Stationary Pump:	Total Maximum Pump Rate (gpm)	4500	
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm): 4800	No. Trucks Simultaneously Pumping: 8	

\* Depending on conditions, we will use one of these methods.

DEP Office Use Only	
Within 1 Mile upstream of a PSD? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Within zone of critical concern? <input type="checkbox"/> Yes <input type="checkbox"/> No	

**Section IV(f) - Above Ground Storage Tanks** (to be completed for each AST location, print more pages as necessary)

AST Name: Taylor Centralized Water Facility			
Referenced WMP #	02524	COA ID:	TBD
Landowner name and address: Chevron USA Inc. PO Box 285 Houston, TX 77001		Phone: 866-212-1212	
AST Location (decimal degrees, NAD83)			
Latitude	Longitude:	County	Registered LQU?
39.853944	-80.692211	Marshall	<input type="checkbox"/> Yes <input type="checkbox"/> No
Operator name and address (if different than applicant): EQT CHAP LLC 400 Woodcliff Drive Canonsburg, PA 15317		Phone (if different than applicant): 724-746-9073	
Withdrawal Details			
Stationary Pump:	Total Maximum Pump Rate (gpm)		4500
Direct Truck Withdrawal	Max Pump Rate Per Truck (gpm):	No. Trucks Simultaneously Pumping:	
	4800	8	

\* Depending on conditions, we will use one of these methods.

DEP Office Use Only	
Within 1 Mile upstream of a PSD?	
<input type="checkbox"/> Yes	<input type="checkbox"/> No
Within zone of critical concern?	
<input type="checkbox"/> Yes	<input type="checkbox"/> No

**Section IV(g) - Reused Frac Water** (to be completed for each anticipated source)

Well Pad (where water was obtained from): Various Sources	Well Pad (where water was obtained from):
Well Pad (where water was obtained from):	Well Pad (where water was obtained from):
Well Pad (where water was obtained from):	Well Pad (where water was obtained from):
Well Pad (where water was obtained from):	Well Pad (where water was obtained from):
Well Pad (where water was obtained from):	Well Pad (where water was obtained from):
Well Pad (where water was obtained from):	Well Pad (where water was obtained from):
Well Pad (where water was obtained from):	Well Pad (where water was obtained from):
Well Pad (where water was obtained from):	Well Pad (where water was obtained from):
Well Pad (where water was obtained from):	Well Pad (where water was obtained from):
Well Pad (where water was obtained from):	Well Pad (where water was obtained from):
Well Pad (where water was obtained from):	Well Pad (where water was obtained from):
Well Pad (where water was obtained from):	Well Pad (where water was obtained from):
Well Pad (where water was obtained from):	Well Pad (where water was obtained from):
Well Pad (where water was obtained from):	Well Pad (where water was obtained from):

**Section V - Planned Disposal Method**

			Estimate % each facility is to receive			
	Name	Location (decimal degrees, NAD 83)	Permit#	Fracturing	Stimulation	Production
UIC	See attached listing	Lat: Long:				100%
NPDES (Treatment Plant)		Lat: Long:				
Re-Use	Various Wells	Lat: Long:		100%		
Other		Lat: Long:				

**Section V - Planned Additives to be Used in Fracturing or Stimulations** (attach list to form)

**Section VI - Operator Comments**

**EQT Production Water Plan**

**Offsite Disposals for Unconventional Wells**

Facility Name	Address	Address 2	City	State	Zip	Phone	County	State	Permit Number
CWS Trucking Inc.	P.O. Box 391		Williamstown	WV	26187	740-516-3586	Noble	OH	3390
Broad Street Energy LLC	37 West Broad Street	Suite 1100	Columbus	OH	43215	740-516-5381	Washington	OH	8462
LAD Liquid Assets Disposal Inc.	226 Rankin Road		Washington	PA	15301	724-350-2760	Ohio	WV	USEPA WV 0014
Triad Energy	PO Box 430		Reno	OH	45773	740-516-6021 740-374-2940	Noble	OH	4037
Tri County Waste Water Management, Inc.	1487 Toms Run Road		Holbrook	PA	15341	724-627-7178 724-499-5647	Greene	PA	TC-1009
King Excavating Co. Advance Waste Services	101 River Park Drive		New Castle	PA	16101		Lawrence	PA	PAR000029132
Waste Management - Meadowfill Landfill	Rt. 2, Box 68 Dawson Drive		Bridgeport	WV	16330	304-326-6027	Harrison	WV	SWF-1032-98 Approval #100785WV
Waste Management - Northwestern Landfill	512 E. Dry Road		Parkersburg	WV	26104	304-428-0602	Wood	WV	SWF-1025 WV-0109400
APEX Landfill	11 County Road 78	PO Box 57	Amsterdam	OH	43903	740-543-4389	Jefferson	OH	06-08438
Advanced Disposal - Chestnut Valley Landfill	1184 McClellandtown Road		McClellandtown	PA	15458	724-437-7336	Fayette	PA	100419
Westmoreland Sanitary Landfill	901 Tyrol Boulevard		Belle Vernon	PA	15012	724-929-7694	Westmoreland	PA	100277
Austin Master Services	801 North 1st Street		Martins Ferry	OH	43935	740-609-3800	Belmont	OH	2014-541
Belmont Solids Control	77505 Cadiz-New Athers Road		Cadiz	OH	43907	740-942-1739	Harrison	OH	2015-511
Diversified Resources	3111 Braun Rd.		Belpre	OH	45714	740-401-0413	Washington	OH	
Buckeye Brine	23986 Airport Road		Coshocton	OH	43812	740-610-1512 724-591-4393	Coshocton	OH	34-031-27177 34-031-27178 34-031-27241
Central Environmental Services	28333 West Belpre Pike		Coolville	OH	45723	304-488-0701	Athens	OH	
Nuverra - Nichols	10555 Veto Road		Belpre	OH	45714	330-232-5041	Washington	OH	34-119-2-8776
Nuverra - Goff	9350 East Pike Road		Norwich	OH	43767	330-232-5041	Muskingum	OH	34-167-2-3862
Nuverra - Wolf	5480 State Route 5		Newton Falls	OH	44444	330-232-5041	Trumbull	OH	34-155-2-1893
Nuverra - Pander	5310 State Route 5		Newton Falls	OH	44444	330-232-5041	Trumbull	OH	34-155-2-3795
Nuverra - AnnaRock D-1	3549 Warner Road		Fowler	OH	44418	330-232-5041	Trumbull	OH	34-155-2-2403

FQ Helen	199 Bowersock Road		Reno	OH	45773	740-374-2940 412-443-4397 740-236-2135	Washington	OH	34-167-2-9577
FQ Dexter	38505 Marietta Rd.		Dexter City	OH	45727	740-374-2940 412-443-4397 740-236-2135	Noble	OH	34-121-24037 34-121-24086
FQ Ritchie	122 Lonesome Pine Rd		Ellenboro	WV	26346	740-374-2940 412-443-4397 740-236-2135	Ritchie	WV	47-085-09721
FQ Mills	53610 TS Rd 706		Portland	OH	45770	740-374-2940 412-443-4397 740-236-2135	Meigs	OH	34-105-2-3619 34-105-2-3652 34-105-2-3637 34-105-2-3651
Petta Enterprises - OH	745 North 3rd Street		Cambridge	OH	43725	614-477-1368	Guernsey	OH	Ohio Chiefs Order 25-019
Petta Enterprises - WV	38 Technology Dr.		Tridelpia	WV	26059	740-255-5727	Ohio	WV	
Deep Rock Disposal	2341 OH-821		Marietta	OH	45750	304-629-0176	Washington	OH	34-167-2-9766

**Anticipated Frac Additives**  
**Chemical Names and CAS Numbers**

<u>Material</u>	<u>Ingredient</u>	<u>CAS Number</u>
Sand (Proppant)	Silica Substrate	14808-60-7
Water	Water	7732-18-5
Hydrochloric Acid (HCl)	Hydrogen Chloride	7647-01-0
Friction Reducer	<b>Copolymer of 2-propenamide</b> Petroleum Distillate Oleic Acid Diethanolamide Alcohols, C12-16, ethoxylated Ammonium chloride ((NH4)Cl)	<b>Proprietary</b> 64742-47-8 93-83-4 68551-12-2 12125-02-9
Biocide	<b>Glutaraldehyde</b> Alkyl dimethyl benzyl ammonium chloride Didecyl dimethyl ammonium chloride Non-hazardous substances	<b>111-30-8</b> 68391-01-5 7173-51-5 Proprietary
Scale Control	<b>Bis(HexaMethylene Triamine Penta(Methylene Phosphonic Acid)(BHMT)</b> Non-hazardous substances	<b>34690-00-1</b> Proprietary
Acid Chelating Agent	<b>Citric Acid</b>	<b>77-92-9</b>
Corrosion Inhibitor	<b>Methanol</b> pyridinium, 1-(phenylmethyl)-, ethyl methyl derivs., chlorides Nonoxynol-9 2-ethyl-1-hexanol 4-nonylphenyl, ethoxylated	<b>67-56-1</b> 68909-18-2 127087-87-0 104-76-7 26027-38-3

**Section VII - Plan Reviewed By**

<b>DEP Office Use Only</b>		
<b>API#</b>		
<b>Name:</b>	<b>Signature:</b>	<b>Date:</b>
<b>DEP Comments</b>		



Stansberry, Wade A &lt;wade.a.stansberry@wv.gov&gt;

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**Modification Horizontal H6A Well Work Permit API: 47-103-03444)**

1 message

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

Tue, Mar 1, 2022 at 12:11 PM

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

Bryan, forward this one and the last ones to the appropriate inspector.

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

**\* 47-103-03444 - BIG 245 110H \***

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](mailto:Wade.A.Stansberry@wv.gov)

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 **47-103-03444 - mod.pdf**  
1980K

03/04/2022



# Water Management Plan

**Action:** Modified    **Effective Date:** 2/24/2022

**Operator:** EQT Production Company

**WMP ID:** 2258

**Plan Type:** Well Pad

**Facility Name:** BIG245 Well Pad

**County:** Wetzel

**Lat:** 39.595312

**Long:** -80.568705



This Water Management Plan governs all water withdrawals associated with the identified well pad. This plan supersedes any previously approved water management plans issued for the included wells. This plan is not in effect until at least one well-work permit identified below has been issued, and remains valid until all listed permits are released or expire.

The following water consumption estimates (in gallons) have been reported for this plan.

Api ↑≡	Wellname
047-103-03152	514363
047-103-03153	514364
047-103-03154	514365
047-103-03173	514366
047-103-03174	514367
047-103-03175	514368
047-103-03176	514369
047-103-03234	BIG245H8
047-103-03235	BIG245H16
047-103-03236	BIG245H17
047-103-03265	BIG245H4
047-103-03266	BIG245H5
047-103-03267	BIG245H6
047-103-03440	BIG245 102H

<b>Construction:</b>	250,000
<b>Drilling Activities:</b>	350,000
<b>Hydraulic Fracture:</b>	190,000,000
<b>Post-Fracture:</b>	420,000
<b>Incidental Uses:</b>	500,000
<b>Reclamation Activities:</b>	250,000
<b>Total for Well Pad:</b>	<b>191,770,000</b>

Api ↑≡	Wellname
047-103-03441	BIG245 104H
047-103-03442	BIG245 106H
047-103-03443	BIG245 108H
047-103-03444	BIG245 110H
047-103-03445	BIG245 112H
047-103-03446	BIG245 114H

## Primary Sources

For each proposed primary water source (including source intakes for purchased water sources) identified in your water management plan, and summarized herein, DEP has made an evaluation concerning water availability over the specified date range. DEP's assessment is based on the following considerations:

- Statistical analysis of historical USGS stream gauge data (transferred to un-gauged locations as necessary);
- Identification of sensitive aquatic life (endangered species, mussels, etc.);
- Quantification of known existing demands on the water supply (Large Quantity Users);
- Minimum flows required by the Army Corps of Engineers; and
- Designated stream uses.

Based on these factors, DEP has provided, for each intake location (and origination point for purchased water), a reference gauge location and discharge flow reading which must be surpassed prior to withdrawals. Additionally, DEP has established a minimum passby flow at the withdrawal location which must also be surpassed prior to withdrawals. These thresholds are considered terms of the permit and enforceable as such.

For any source identified by DEP as having known mussel, trout, or endangered species populations, the operator should consult with the Department of Natural Resources and the United States Fish and Wildlife Service prior to initiating any withdrawals.

**DEP is aware that some intake points will be used for multiple wells and well sites. In these cases, the thresholds set by the Water Management Plan are to be interpreted as total withdrawal limits for each location over the specified date range regardless of how many wells are supported by that intake.**

For all purchased water intakes, determinations of water availability are made at the original source intake location. It is the responsibility of the Oil and Gas Operator, not the seller, to cease withdrawal of water from the seller when flows are less than the minimum gauge reading at the stream gauge referenced by the Water Management Plan in order to protect stream uses.

Note that the determinations made herein are based on the best available data, but it is impossible to predict water availability in the future. While the DEP has carefully established these minimum withdrawal thresholds, it remains the operator's responsibility to protect aquatic life at all times. Approval to withdrawal is contingent

upon permission from the land owner. It is the responsibility of the operator to secure and maintain permission prior to any withdrawals.

The operator is reminded that 24-48 hours prior to withdrawing (or purchasing) water, DEP must be notified by email at [DEP.water.use@wv.gov](mailto:DEP.water.use@wv.gov). Signage requirements must be satisfied within 24 hours of activating this Water Management Plan.

- Buffalo Creek @ Elliot

Type:	Stream/River
County:	Marion
Owner:	Joseph and Whitney Elliot
Intake Latitude:	39.520878
Intake Longitude:	-80.422286
HUC-8 Code:	5020003
Drainage Area (sq miles):	17.1
Regulated Stream:	NO
PWS Within 1 Mile:	NO

Gauged Stream:	YES
Ref Gauge ID:	3061500
Ref Gauge Name:	BUFFALO CREEK AT BARRACKVILLE, WV
Minimum Gauge Reading (cfs):	28.51
Minimum Passby (cfs):	3.32
Endangered Species:	NO
Mussel Stream:	NO
Maximum Pump Rate (gpm):	2700

Comments:

- Fishing Creek @ Lloyd

Type:	Stream/River
County:	Wetzel
Owner:	Loma C. Lloyd
Intake Latitude:	39.56279
Intake Longitude:	-80.72264
HUC-8 Code:	5030201
Drainage Area (sq miles):	133.43
Regulated Stream:	NO
PWS Within 1 Mile:	NO

Gauged Stream:	NO
Ref Gauge ID:	3114500
Ref Gauge Name:	MIDDLE ISLAND CREEK AT LITTLE, WV
Minimum Gauge Reading (cfs):	72.71
Minimum Passby (cfs):	19.67
Endangered Species:	NO
Mussel Stream:	YES
Maximum Pump Rate (gpm):	1890

Comments:

- Knob Fork @ Jolliffe

Type:	Stream/River
County:	Wetzel
Owner:	Nancy E. Jolliffe
Intake Latitude:	39.657162
Intake Longitude:	-80.549087
HUC-8 Code:	5030106
Drainage Area (sq miles):	4.69

Gauged Stream:	NO
Ref Gauge ID:	3112000
Ref Gauge Name:	WHEELING CREEK AT ELM GROVE, WV
Minimum Gauge Reading (cfs):	60.74
Minimum Passby (cfs):	.95
Endangered Species:	NO

miles):	
Regulated Stream:	NO
PWS Within 1 Mile:	NO

Mussel Stream:	NO
Maximum Pump Rate (gpm):	1680

Comments:

Stationary Pump and Direct Truck Withdrawal shall not operate concurrently

- Little Fishing Creek @ Conley

Type:	Stream/River
County:	Wetzel
Owner:	Ronald Gene Conley
Intake Latitude:	39.608922
Intake Longitude:	-80.79156
HUC-8 Code:	5030201
Drainage Area (sq miles):	37.52
Regulated Stream:	NO
PWS Within 1 Mile:	NO

Gauged Stream:	NO
Ref Gauge ID:	3114500
Ref Gauge Name:	MIDDLE ISLAND CREEK AT LITTLE, WV
Minimum Gauge Reading (cfs):	71.19
Minimum Passby (cfs):	5.54
Endangered Species:	NO
Mussel Stream:	YES
Maximum Pump Rate (gpm):	1680

Comments:

This withdrawal site shall not be used concurrently with the Little Creek @ Stout location.

- Little Fishing Creek @ Stout

Type:	Stream/River
County:	Wetzel
Owner:	Gwendolyn Stout
Intake Latitude:	39.608317
Intake Longitude:	-80.766594
HUC-8 Code:	5030201
Drainage Area (sq miles):	34.31
Regulated Stream:	NO
PWS Within 1 Mile:	NO

Gauged Stream:	NO
Ref Gauge ID:	3114500
Ref Gauge Name:	MIDDLE ISLAND CREEK AT LITTLE, WV
Minimum Gauge Reading (cfs):	71.24
Minimum Passby (cfs):	5.03
Endangered Species:	NO
Mussel Stream:	YES
Maximum Pump Rate (gpm):	1680

Comments:

This withdrawal site shall not be used concurrently with the Little Creek @ Conley location.

- N. Fork of Fishing Creek @ BIG176 Pad

Type:	Stream/River
County:	Wetzel
Owner:	John W. Kilcoyne
Intake Latitude:	39.560283
Intake Longitude:	-80.560763
HUC-8 Code:	5030201
Drainage Area (sq miles):	8.09

Gauged Stream:	NO
Ref Gauge ID:	3114500
Ref Gauge Name:	MIDDLE ISLAND CREEK AT LITTLE, WV
Minimum Gauge Reading (cfs):	74.52
Minimum Passby (cfs):	2.19

miles):	
Regulated Stream:	NO
PWS Within 1 Mile:	NO

Endangered Species:	NO
Mussel Stream:	YES
Maximum Pump Rate (gpm):	1890

Comments:

- N. Fork of Fishing Creek @ Big 57 Pad

Type:	Stream/River
County:	Wetzel
Owner:	EQT Corporation
Intake Latitude:	39.55316
Intake Longitude:	-80.53064
HUC-8 Code:	5030201
Drainage Area (sq miles):	4.77
Regulated Stream:	NO
PWS Within 1 Mile:	NO

Gauged Stream:	NO
Ref Gauge ID:	3114500
Ref Gauge Name:	MIDDLE ISLAND CREEK AT LITTLE, WV
Minimum Gauge Reading (cfs):	71.71
Minimum Passby (cfs):	1.71
Endangered Species:	NO
Mussel Stream:	YES
Maximum Pump Rate (gpm):	1890

Comments:

- N. Fork of Fishing Creek @ Lydick Property

Type:	Stream/River
County:	Wetzel
Owner:	Les Lydick
Intake Latitude:	39.57795
Intake Longitude:	-80.59221
HUC-8 Code:	5030201
Drainage Area (sq miles):	15.46
Regulated Stream:	NO
PWS Within 1 Mile:	NO

Gauged Stream:	NO
Ref Gauge ID:	3114500
Ref Gauge Name:	MIDDLE ISLAND CREEK AT LITTLE, WV
Minimum Gauge Reading (cfs):	77.33
Minimum Passby (cfs):	3.28
Endangered Species:	NO
Mussel Stream:	YES
Maximum Pump Rate (gpm):	1890

Comments:

- N. Fork of Fishing Creek @ Wildman

Type:	Stream/River
County:	Wetzel
Owner:	Robert K. Wildman
Intake Latitude:	39.585522
Intake Longitude:	-80.617871
HUC-8 Code:	5030201
Drainage Area (sq miles):	32.21
Regulated Stream:	NO

Gauged Stream:	NO
Ref Gauge ID:	3114500
Ref Gauge Name:	MIDDLE ISLAND CREEK AT LITTLE, WV
Minimum Gauge Reading (cfs):	75.93
Minimum Passby (cfs):	4.74
Endangered Species:	NO
Mussel Stream:	YES

PWS Within 1 Mile:	NO
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Maximum Pump Rate (gpm):	1890
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Comments:

This location shall not be used concurrently with the N. Fork of Fishing Creek @ Lydick site.

• Ohio River @ HRE

Type:	Stream/River
County:	Wetzel
Owner:	Hannibal Real Estate LLC
Intake Latitude:	39.699949
Intake Longitude:	-80.846603
HUC-8 Code:	5030201
Drainage Area (sq miles):	25000
Regulated Stream:	YES Ohio River Min. Flow
PWS Within 1 Mile:	YES New Martinsville

Gauged Stream:	YES
Ref Gauge ID:	9999999
Ref Gauge Name:	Ohio River Station: Willow Island Lock & Dam
Minimum Gauge Reading (cfs):	6468
Minimum Passby (cfs):	
Endangered Species:	NO
Mussel Stream:	YES
Maximum Pump Rate (gpm):	2916

Comments:

Refer to the specified station on the National Weather Service's Ohio River forecast website:

<https://forecast.weather.gov/product.php?site=NWS&product=RVF&issuedby=TIR>

• Ohio River @ Select Energy

Type:	Stream/River
County:	Pleasants
Owner:	Select Energy
Intake Latitude:	39.346473
Intake Longitude:	-81.338727
HUC-8 Code:	5030201
Drainage Area (sq miles):	25000
Regulated Stream:	YES Ohio River Min. Flow
PWS Within 1 Mile:	NO

Gauged Stream:	YES
Ref Gauge ID:	9999998
Ref Gauge Name:	Ohio River Station: Racine Dam
Minimum Gauge Reading (cfs):	6468
Minimum Passby (cfs):	
Endangered Species:	NO
Mussel Stream:	YES
Maximum Pump Rate (gpm):	2200

Comments:

Refer to the specified station on the National Weather Service's Ohio River forecast website:

<https://forecast.weather.gov/product.php?site=NWS&product=RVF&issuedby=TIR>

• Ohio River @ The Spielers Club

Type:	Stream/River
County:	Wetzel
Owner:	The Spielers Club
Intake Latitude:	39.709677
Intake Longitude:	-80.826384

Gauged Stream:	YES
Ref Gauge ID:	9999999
Ref Gauge Name:	Ohio River Station: Willow Island Lock & Dam
Minimum Gauge Reading	6468

HUC-8 Code:	5030201
Drainage Area (sq miles):	25000
Regulated Stream:	YES Ohio River Min. Flow
PWS Within 1 Mile:	YES Grandview-Doolin PSD

(cfs):	
Minimum Passby (cfs):	
Endangered Species:	NO
Mussel Stream:	YES
Maximum Pump Rate (gpm):	1680

Comments:

Refer to the specified station on the National Weather Service's Ohio River forecast website: <https://forecast.weather.gov/product.php?site=NWS&product=RVF&issuedby=TIR>. Water shall not be discharged into waters of the State.

- Ohio River @ Westbrook Trucking Site

Type:	Stream/River
County:	Pleasants
Owner:	Stephen R. and Janet Sue Westbrook
Intake Latitude:	39.384455
Intake Longitude:	-81.25645
HUC-8 Code:	5030201
Drainage Area (sq miles):	25000
Regulated Stream:	YES Ohio River Min. Flow
PWS Within 1 Mile:	NO

Gauged Stream:	NO
Ref Gauge ID:	9999999
Ref Gauge Name:	Ohio River Station: Willow Island Lock & Dam
Minimum Gauge Reading (cfs):	6468
Minimum Passby (cfs):	
Endangered Species:	NO
Mussel Stream:	YES
Maximum Pump Rate (gpm):	2520

Comments:

Refer to the specified station on the National Weather Service's Ohio River forecast website: <https://forecast.weather.gov/product.php?site=NWS&product=RVF&issuedby=TIR>

- S. Fork of Fishing Creek @ Carlin Property

Type:	Stream/River
County:	Wetzel
Owner:	Joseph W. Carlin
Intake Latitude:	39.515157
Intake Longitude:	-80.602652
HUC-8 Code:	5030201
Drainage Area (sq miles):	42.71
Regulated Stream:	NO
PWS Within 1 Mile:	NO

Gauged Stream:	NO
Ref Gauge ID:	3114500
Ref Gauge Name:	MIDDLE ISLAND CREEK AT LITTLE, WV
Minimum Gauge Reading (cfs):	71.72
Minimum Passby (cfs):	8.42
Endangered Species:	NO
Mussel Stream:	YES
Maximum Pump Rate (gpm):	1890

Comments:

- S. Fork of Fishing Creek @ Jacksonburg Truck Pad

Type:	Stream/River
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Gauged Stream:	NO
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County:	Wetzel
Owner:	Ronald Anderson
Intake Latitude:	39.52609
Intake Longitude:	-80.6338
HUC-8 Code:	5030201
Drainage Area (sq miles):	45.72
Regulated Stream:	NO
PWS Within 1 Mile:	NO

Ref Gauge ID:	3114500
Ref Gauge Name:	MIDDLE ISLAND CREEK AT LITTLE, WV
Minimum Gauge Reading (cfs):	74.52
Minimum Passby (cfs):	8.86
Endangered Species:	NO
Mussel Stream:	YES
Maximum Pump Rate (gpm):	1890

Comments:

- WV Fork Fish Creek @ Blake

Type:	Stream/River
County:	Wetzel
Owner:	Gay Karen Blake & Joseph F.
Intake Latitude:	39.707725
Intake Longitude:	-80.560959
HUC-8 Code:	5030106
Drainage Area (sq miles):	69.4
Regulated Stream:	NO
PWS Within 1 Mile:	NO

Gauged Stream:	NO
Ref Gauge ID:	3112000
Ref Gauge Name:	WHEELING CREEK AT ELM GROVE, WV
Minimum Gauge Reading (cfs):	52.24
Minimum Passby (cfs):	11.74
Endangered Species:	NO
Mussel Stream:	YES
Maximum Pump Rate (gpm):	1680

Comments:

Stationary Pump and Direct Truck Withdrawal shall not operate concurrently

- Wiley Fork @ Coastal Forest Resources

Type:	Stream/River
County:	Wetzel
Owner:	Coastal Forest Resources
Intake Latitude:	39.581673
Intake Longitude:	-80.584345
HUC-8 Code:	5030201
Drainage Area (sq miles):	15.31
Regulated Stream:	NO
PWS Within 1 Mile:	NO

Gauged Stream:	NO
Ref Gauge ID:	3114500
Ref Gauge Name:	MIDDLE ISLAND CREEK AT LITTLE, WV
Minimum Gauge Reading (cfs):	70.84
Minimum Passby (cfs):	6.46
Endangered Species:	NO
Mussel Stream:	NO
Maximum Pump Rate (gpm):	1500

Comments:

- Moundsville Water Department

Type:	Purchased Water
County:	Marshall

Gauged Stream:	YES
Ref Gauge ID:	9999999

Owner:	Moundsville Water Department
Intake Latitude:	39.929681
Intake Longitude:	-80.7558
HUC-8 Code:	5030106
Drainage Area (sq miles):	25000
Regulated Stream:	YES Ohio River Min. Flow
PWS Within 1 Mile:	NO

Ref Gauge Name:	Ohio River Station: Willow Island Lock & Dam
Minimum Gauge Reading (cfs):	6468
Minimum Passby (cfs):	
Endangered Species:	NO
Mussel Stream:	YES
Maximum Pump Rate (gpm):	

Comments:

This alluvial groundwater well is, to some extent, under the influence of the Ohio River. Please adhere to stated minimum flow requirements on the Ohio River for withdrawals

<https://forecast.weather.gov/product.php?site=NWS&product=RVF&issuedby=TIR>

### Secondary Sources

For each proposed secondary water source identified in your water management plan (i.e. groundwater well, lake/reservoir, recycled frac water, multi-site impoundment, out-of-state source), DEP makes no estimation of the availability of water. These sources may prove to be unsuitable water supplies. Please review the following notes:

- For groundwater supply wells, DEP recommends that the operator contact the local health department prior to drilling any new well; and reminds the operator that all drinking water wells within 1,500 feet of a water supply well shall be flow and quality-tested by the operator at the request of the drinking well owner prior to the operation of the water supply well.
- For each proposed multi-site impoundment water source identified in your water management plan (if applicable), DEP will review the withdrawal limits established in the referenced Water Management Plan for current suitability and provide to the operator these limits for each identified intake. Note that withdrawal limits may be modified as necessary based on changing demands upon that water supply.
- The use of recycled frac water is always encouraged.

- Antero Central Tank Battery

Type:	Purchased Water
County:	Marion
Owner:	Antero Resources
Source Latitude:	39.620162
Source Longitude:	-80.630426
Reference WMP:	

Comments:

- Ascent Resources LLC @ Central Tank Battery

Type:	Purchased Water
County:	Wetzel
Owner:	Ascent Resources LLC
Source Latitude:	39.620162

Source Longitude:	-80.630426
Reference WMP:	

Comments:

Source is located at the Ascent Wileyville Central Tank Battery.

---

- Ascent Resources LLC @ Water Wells

Type:	Purchased Water
County:	Wetzel
Owner:	Ascent Resources LLC
Source Latitude:	39.61825
Source Longitude:	-80.88116
Reference WMP:	

Comments:

Source located at the Ascent Resources Water Wells Site.

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- BIG176 Centralized Freshwater Impoundment

Type:	Centralized Freshwater Impoundment
County:	Wetzel
Owner:	John W. & Florence E. Kilcoyne
Source Latitude:	39.561403
Source Longitude:	-80.561554
Reference WMP:	1322

Comments:

103-FWC-00003

---

- BIG177 Tank Pad

Type:	AST
County:	Wetzel
Owner:	EQT Production
Source Latitude:	39.582212
Source Longitude:	-80.585624
Reference WMP:	2293

Comments:

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- Ball #1 Freshwater Impoundment

Type:	Centralized Freshwater Impoundment
County:	Tyler
Owner:	EQT Production
Source Latitude:	39.5046
Source Longitude:	-80.7546
Reference WMP:	1814

Comments:  
095-FWC-00009

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- Ball #2 Freshwater Impoundment

Type:	Centralized Freshwater Impoundment
County:	Tyler
Owner:	EQT Production
Source Latitude:	39.4991
Source Longitude:	-80.7597
Reference WMP:	1815

Comments:  
095-FWC-00008

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- Berger Centralized Water Facility

Type:	AST
County:	Marshall
Owner:	Berger Family LLC
Source Latitude:	39.87463
Source Longitude:	-80.757728
Reference WMP:	2520

Comments:

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- Carlin Centralized Freshwater Impoundment

Type:	Centralized Freshwater Impoundment
County:	Wetzel
Owner:	Joseph W. Carlin
Source Latitude:	39.51168
Source Longitude:	-80.598605
Reference WMP:	1321

Comments:  
103-FWC-00002

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- Carlin Centralized Freshwater Impoundment #2

Type:	Centralized Freshwater Impoundment
County:	Wetzel
Owner:	Joseph W. Carlin
Source Latitude:	39.51224
Source Longitude:	-80.536391
Reference WMP:	1721

Comments:  
103-FWC-00010

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- Conley Centralized Freshwater Impoundment

Type:	Centralized Freshwater Impoundment
County:	Wetzel
Owner:	Ronald Gene Conley
Source Latitude:	39.608922
Source Longitude:	-80.79156
Reference WMP:	589

Comments:

Water from this impoundment shall not be discharged into waters of the State.

---

- Consol/Murray Energy @ Hibbs Run

Type:	Purchased Water
County:	Marion
Owner:	Consol Energy
Source Latitude:	39.549294
Source Longitude:	-80.388238
Reference WMP:	

Comments:

Owned by Murray Energy, Water Rights Owned By Consol Energy.

---

- Consol/Murray Energy RO Plant

Type:	Purchased Water
County:	Marion
Owner:	Consol Energy
Source Latitude:	39.547812
Source Longitude:	-80.395469
Reference WMP:	

Comments:

Owned by Murray Energy, Water Rights Owned By Consol Energy.

---

- Edgell Centralized Freshwater Impoundment

Type:	Centralized Freshwater Impoundment
County:	Wetzel
Owner:	Kathy Edgell
Source Latitude:	39.58321
Source Longitude:	-80.61994
Reference WMP:	1660

Comments:

103-FWC-00008

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- Farley AST Pad

Type:	AST
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County:	Doddridge
Owner:	Randall & Debbie Farley
Source Latitude:	39.135181
Source Longitude:	-80.821528
Reference WMP:	2137

Comments:

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- GLO76 Freshwater Impoundment

Type:	Centralized Freshwater Impoundment
County:	Marion
Owner:	Robert E. Tonkery
Source Latitude:	39.563943
Source Longitude:	-80.492314
Reference WMP:	2347

Comments:

049-FWC-00035

---

- Groundwater Well TW#1

Type:	Ground Water
County:	Wetzel
Owner:	John W. Kilcoyne
Source Latitude:	39.56059
Source Longitude:	-80.56027
Reference WMP:	

Comments:

---

- Groundwater Well TW#5

Type:	Ground Water
County:	Wetzel
Owner:	EQT Corp.
Source Latitude:	39.553434
Source Longitude:	-80.528871
Reference WMP:	

Comments:

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- Jolliffe Centralized Freshwater Impoundment

Type:	Centralized Freshwater Impoundment
County:	Wetzel
Owner:	Estate of Joe Ben Jolliffe
Source Latitude:	39.656286
Source Longitude:	-80.551964
Reference WMP:	1289

Comments:  
103-FWC-00005

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- Mannington Water Supply Dam

Type:	Lake/Reservoir
County:	Marion
Owner:	City of Mannington
Source Latitude:	39.531683
Source Longitude:	-80.36706
Reference WMP:	

Comments:

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- Mason-Conlon Freshwater Impoundment

Type:	Multi-site impoundment
County:	Wetzel
Owner:	James & Donna Greathouse
Source Latitude:	39.629511
Source Longitude:	-80.728594
Reference WMP:	634

Comments:

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- Maxson Property Test Well #1

Type:	Ground Water
County:	Ritchie
Owner:	Douglas L. Maxson
Source Latitude:	39.14472
Source Longitude:	-80.84664
Reference WMP:	

Comments:

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- McDiffit/Mills Freshwater Impoundment

Type:	Multi-site impoundment
County:	Wetzel
Owner:	Michael and Timothy McDiffit
Source Latitude:	39.532462
Source Longitude:	-80.672435
Reference WMP:	115

Comments:

103-FWC-00027

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- Mobley Centralized Freshwater Impoundment

Type:	Centralized Freshwater
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	Impoundment
County:	Wetzel
Owner:	EQT Production Company
Source Latitude:	39.553653
Source Longitude:	-80.52971
Reference WMP:	1534

Comments:

103-FWC-00006

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- OXF44 Freshwater Impoundment # 2

Type:	Centralized Freshwater Impoundment
County:	Doddridge
Owner:	Arden E. & Carol L. Cogar
Source Latitude:	39.143334
Source Longitude:	-80.813276
Reference WMP:	2005

Comments:

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- Opry AST Facility

Type:	AST
County:	Wetzel
Owner:	Larry D. Roberts, et al
Source Latitude:	39.645116
Source Longitude:	-80.535909
Reference WMP:	2510

Comments:

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- PEN16 Freshwater Impoundment

Type:	Centralized Freshwater Impoundment
County:	Ritchie
Owner:	Heartwood Forestland Fund IV LP
Source Latitude:	39.2504
Source Longitude:	-80.93925
Reference WMP:	2190

Comments:

085-FWC-00005

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- PNG129 Freshwater Impoundment

Type:	Centralized Freshwater Impoundment
County:	Wetzel

Owner:	Coastal Forest Resources Co.
Source Latitude:	39.549024
Source Longitude:	-80.640347
Reference WMP:	2249

Comments:

103-FWC-00025

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- Pribble Centralized Freshwater Impoundment

Type:	Centralized Freshwater Impoundment
County:	Wetzel
Owner:	Raymond Pribble
Source Latitude:	39.685144
Source Longitude:	-80.820002
Reference WMP:	277

Comments:

Water from this impoundment shall not be discharged into waters of the State.

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- Recycled Frac Water

Type:	Recycled Frac Water
County:	
Owner:	
Source Latitude:	
Source Longitude:	
Reference WMP:	

Comments:

Treated and recycled flowback/produced water sources may include, but are not limited to this well pad.

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- Richwood Centralized Freshwater Impoundment

Type:	Centralized Freshwater Impoundment
County:	Wetzel
Owner:	Coastal Forest Resources Company
Source Latitude:	39.551137
Source Longitude:	-80.605342
Reference WMP:	1535

Comments:

103-FWC-00007

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- Scyoc Centralized Freshwater Impoundment

Type:	Centralized Freshwater Impoundment

County:	Wetzel
Owner:	Sharon Ann Sycoc
Source Latitude:	39.56436
Source Longitude:	-80.625644
Reference WMP:	1222

Comments:

103-FWC-00004

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- Taylor Centralized Water Facility

Type:	AST
County:	Marshall
Owner:	Chevron USA Inc.
Source Latitude:	39.853944
Source Longitude:	-80.692211
Reference WMP:	2524

Comments:

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- Weekley FW AST

Type:	AST
County:	Wetzel
Owner:	Larry L. Weekley
Source Latitude:	39.59134
Source Longitude:	-80.777986
Reference WMP:	

Comments:

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- YOHO Centralized Freshwater Impoundment

Type:	Centralized Freshwater Impoundment
County:	Wetzel
Owner:	William C. Yoho
Source Latitude:	39.56092
Source Longitude:	-80.61432
Reference WMP:	1068

Comments:

103-FWC-00001

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West Virginia Department of Environmental Protection

601 57th Street SE

Charleston, WV

**Pollution and Emergency Spills 1-800-642-3074**

03/04/2022  
Page 17 of 18

Release 1.0

