

west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Wednesday, August 1, 2018 WELL WORK PERMIT Horizontal 6A / New Drill

EQT PRODUCTION COMPANY 625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit approval for BIG245H16 47-103-03235-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin Chief alt. Operator's Well Number: BIG245H16 Farm Name: ET BLUE GRASS, LLC U.S. WELL NUMBER: 47-103-03235-00-00 Horizontal 6A New Drill Date Issued: 8/1/2018

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API Number: **4710303235 PERMIT CONDITIONS**

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

API Number: 4710303235 **PERMIT CONDITIONS**

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

API NO. 47-103 - 07	3235
OPERATOR WELL NO.	BIG245H16

Well Pad Name: BIG245

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

1) Well Operator: EQT Produc	tion Company	306686	Wetzel	Grant	Big Run
		Operator ID	County	District	Quadrangle
2) Operator's Well Number: BIG	245H16	Well	Pad Name: BIC	3245	
3) Farm Name/Surface Owner: [E.T. Bluegrass	Public I	Road Access: F	Rt. 19/2	
4) Elevation, current ground:	1480 El	evation, propos	ed post-constru	ction: 1430	
5) Well Type (a) Gas <u>×</u> Other	Oil	U	nderground Sto	orage	
(b)If Gas Shal Hori	low <u>x</u> izontal X	Deep			DmH
6) Existing Pad: Yes or No NO					5-18-18
7) Proposed Target Formation(s) Marcellus, 7532, 53, 2620 PSI	, Depth(s), Antic	ipated Thickne	ss and Expected	l Pressure(s):	
8) Proposed Total Vertical Depth	n: 7532				
9) Formation at Total Vertical D	epth: Marcellus	3			
10) Proposed Total Measured De	epth: 19040				
11) Proposed Horizontal Leg Lei	ngth: 9873				
12) Approximate Fresh Water St	rata Depths:	229, 507, 66	2, 752, 1011		
13) Method to Determine Fresh	Water Depths:	From offset we	lls		
14) Approximate Saltwater Dept	hs: none				
15) Approximate Coal Seam Dep	pths: 925, 1024	, 1132	4		
16) Approximate Depth to Possi	ble Void (coal m	ine, karst, other): none	101	
17) Does Proposed well location directly overlying or adjacent to		ms Yes		No <u>X</u>	
(a) If Yes, provide Mine Info:	Name:				
	Depth:			100.7	
	Seam:				
	Owner:				

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API NO. 47-103 - 03235

OPERATOR WELL NO. BIG245H16 Well Pad Name: BIG245

WW-6B (04/15)

18)

CASING AND TUBING PROGRAM

TYPE	<u>Size</u> (in)	<u>New</u> or Used	<u>Grade</u>	<u>Weight per ft.</u> (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	<u>CEMENT:</u> <u>Fill-up</u> (Cu. Ft.)/CTS
Conductor	20	New	A-500	78.6	40	40	60 ft^3 / CTS
Fresh Water	13 3/8	New	J-55	54.5	1179	1179	1026 ft^3 / CTS
Coal							
Intermediate	9 5/8	New	A-500	40	2925	2925	1136 ft^3 / CTS
Production	5 1/2	New	P-110	20	19040	19040	500° above top producing zone
Tubing	2 3/8		J-55	4.7		May not be run, if run set 40' above top perf or 80° inclination	
Liners							

Dm H 5-18-18

TYPE	<u>Size (in)</u>	<u>Wellbore</u> Diameter (in)	<u>Wall</u> <u>Thickness</u> (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	<u>Cement</u> <u>Type</u>	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	20	26	.375	1378	17	Class A	
Fresh Water	13 3/8	17 1/2	.38	2700	2160	See Variance	1.19
Coal							
Intermediate	9 5/8	12 3/8	.395	3950	3160	Class H	1.07
Production	5 1/2	8 1/2	.361	12640	10112	Class H	1.123/2.098
Tubing	2 3/8	NA	.19	7700			
Liners							

PACKERS

Kind:		
Sizes:	 	
Depths Set:		

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WV Department of Environmental Protection

WW-6B (10/14)

API NO. 47-103 -03235
OPERATOR WELL NO. BIG245H16
Well Pad Name: BIG245

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 to an approximate depth of 2995'. Kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

Dmy 5-18-18

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 0.3%) of chemicals (including 15% Hydrochloric acid, gelling agent, gel breaker, 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 10000 psi, maximum anticipated treating rates are expected to average approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 350,000 barrels of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 400,000 pounds of sand per stage.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres):

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

23) Describe centralizer placement for each casing string:

Surface: Bow spring centralizers – One at the shoe and one spaced every 500'.

- Intermediate: Bow spring centralizers

 One cent at the shoe and one spaced every 500'.
- Production: One solid body cent 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 (Type 1 Cement): 0-3% Calcium Chloride: Used to speed the setting of cement sturnes, .25% Flake Loss Circulation Material (LCM) .6% Super FL-300 (fluid loss/lengthens thickening time) the mediate (Class H Cement): 0-3% Calcium Chloride: Used to speed the setting of cement sturnes, 0.25% flake Loss Circulation Material (LCM) .6% Super FL-300 (fluid loss/lengthens thickening time)

Production: Lead (Class H Cement): 0.2% CD-20 (dispersant makes cement easier to mix). 15% SuperFL-300 (fluid loss/rengthens thickening time). 15% SEC-10 (fluid loss) 50:50 POZ (extender) Tail (Class H Cement): 0.2% Super CR-1 (Retarder). Lengthens thickening time. 3% Super FL-200 (fluid loss). 2% SEC-10 (Fluid loss). 2% Super FL-300 (fluid loss) Reduces amount of water test to fermation. 60 % Calculm Carbonale. Acid solubility

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: Pump marker sweep with nut plug to determine actual hole washout. Calculate a gauge holes bottoms up volume. Perform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are clean. Check volume of cuttings coming across the shakers every 15 minutes.

*Note: Attach additional sheets as needed.

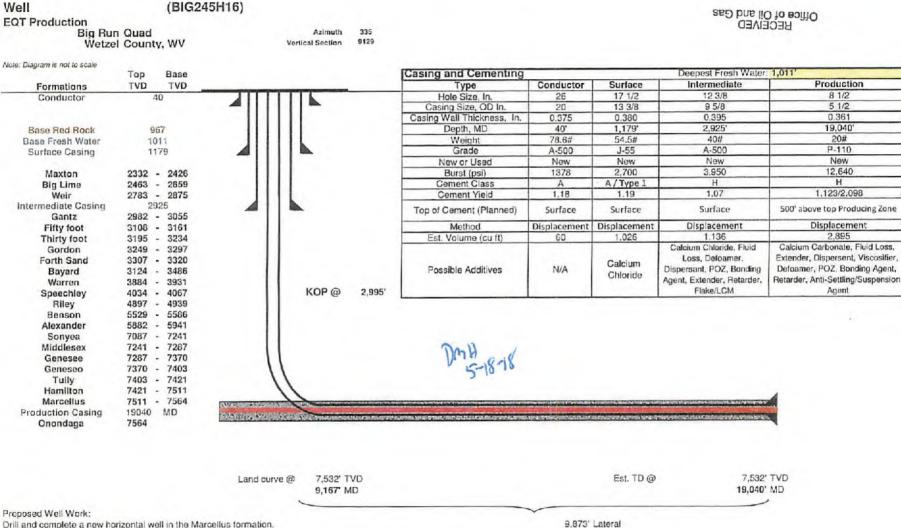
Office of Oil and Gas

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Environmental Protection WV Department of

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Drill and complete a new horizontal well in the Marcellus formation.

Drill the vertical to an approximate depth of 2995'.

Kick off and drill curve. Drill lateral in the Marcellus. Cement casing.

08/03/2018



May 9, 2018

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

Re: Casing plan on Wells (BIG245)

Dear Mr. Smith,

EQT is requesting the 13-3/8" surface casing be set at 1179' KB, 50' below the deepest mineable Pittsburgh Coal. We will set the 9-5/8" intermediate string at 2925' KB, 50' below the base of the Weir formation.

If you have any questions, please do not hesitate to contact me at (304) 848-0076.

Sincerely,

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Rebecca Wanstreet Landman I

Enc.



west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary dep.wv.gov

March 18, 2014

Nabors Completion & Production Services Company 1380 Route 286 Hwy E #121 Indiana PA 15701

Re: Cement Variance Request

Dear Sir or Madam,

This agency is approving a variance request for the cement blend listed below to be used on surface and coal protection strings for the drilling of oil and gas wells in the state of West Virginia. The variance cannot be used without requesting its use on a permit application and approval by this agency:

Type 1 (2% Calcium Chloride-Accelerator, 0.25% Super Flake-Lost Circulation, 5.2% Water, 94% Type "1" Cement)

If you have any questions regarding this matter feel free to contact me at 304-926-0499, ext. 1653.

Sincerely ane James Peterson

Environmental Resources Specialist / Permitting

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Office of Oil and Gas 601 57th Street, SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C, Huffman, Cabinet Secretary dep.wv.gov

BEFORE THE OFFICE OF OIL AND GAS DEPARTMENT OF ENVIRONMENTAL PROTECTION STATE OF WEST VIRGINIA

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IN THE MATTER OF A VARIANCE FROM REGULATION 35 CSR § 4-11.4/11.5/14.1 AND 35 CSR § 8-9.2.h. 4/5/6/8 OF THE THE OPERATIONAL REGULATIONS OF CEMENTING OIL AND GAS WELLS ORDER NO. 2014 - 17

REPORT OF THE OFFICE

Nabors Completion & Production Services Co. requests approval of a different cement blend for use in cementing surface and coal protection casing of oil and gas wells.

FINDINGS OF FACT

- 1.) Nabors Completion & Production Services Co. proposes the following cement blend:
 - 2% Calcium Chloride (Accelerator)
 - 0.25 % Super Flake (Lost Circulation)
 - 94% Type "1" Cement
 - 5.20 % Water
- 2.) Laboratory testing results indicate that the blend listed in Fact No.1 will achieve a 500 psi compressive strength within 6 hours and a 2,435 psi compressive strength within 24 hours.

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CONCLUSIONS OF LAW

Pursuant to Articles 6 and 6A, Chapter 22 of the Code of West Virginia, the Office of Oil and Gas has jurisdiction over the subject matter embraced in said notice, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

Pursuant to 35 CSR § 4-11.5 and 35 CSR § 8-9.2.h.8 the Chief of the Office of Oil and Gas may approve different cement blends upon the well operator providing satisfactory proof that different cement types are adequate.

ORDER

It is ordered that Nabors Completion & Production Services Co. may use the cement blend listed in Findings of Fact No.1 for the cementing of surface and coal protection casing of oil and gas wells in the State as may be requested by oil and gas operators. The waiting time on the cement blend shall be 8 hours. The cement blend shall be mixed in strict accordance with the specifications for each blend and weight measurements made on-site to assure the cement slurries meet the minimum weight specifications. A sample shall be collected and, if after 8 hours the cement is not set up, additional time will be required. Nabors Completion & Production Services Co. shall keep a record of cement blend jobs in which the cement blend approved under this order is to be used and made available to the Office of Oil and Gas upon request.

Dated this, the 18th day of March, 2014.

IN THE NAME OF THE STATE OF WEST VIRGINIA

OFFICE OF OIL AND GAS DEPARTMENT OF ENVIRONMENTAL PROTECTION OF THE STATE OF WEST VIRGINIA

James Martin, Chief Office of Oil and Gas

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

4/01/18

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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 BIG245 pad: BIG245H8, BIG245H16, BIG245H17.

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 prefrac well conditions
- 2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure
- 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, OFSEWED Gas 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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4710300331 11/17/1903 PGH & WV GAS 1109 GR GAS 39.5883 +80.568 2285 00331 47103000540000 5/21/1934 3/1/1932 PITTSBURGH & W VA GAS 1505 GR ABD-GW 39.6022 +80.568 1/16/1932 1/16/1932 1/31/1932 FOURTH SAND 3634 00064 47103002830001 7/13/1944 STANDARD OIL COMPANY INCORPORATED 1515 GR GAS 39.6093 +80.5833 1374 H L & I UTT 5/29/1946 6/13/1944 GORDON 3289 00281 47103003710000 2/1/1951 J C R PETROLEUM INCORPORATED 825 GR GAS-CB 39.5887 +80.5756 1 S B HIGGINBOTHAM 1/12/1951 CONEMAUGH / SERIES/ 300 00371 47103003760000 8/7/1963 3/1/1951 UNKNOWN 842 GR ABD-CB 39.5927 +80.5778 1/15/1952 3/2/1952 CONEMAUGH / SERIES/ 1008 00376 47103003810000 7/6/1952 5/1/1952 UNKNOWN 1267 GR D&A-OG 39.5937 +80.5778 3/17/1952 4/1/1952 CONEMAUGH / SERIES/ 108 0380 471030038100000 6/2/41952 J C R PETROLEUM INCORP	API Number	Abandoned Date Co	ompletion Date Current Operator	Elevation Elevation Referen	ce Final Status	Lat Long	Well Name	Permit Date SPUD Date TD Formation	Total Depth Permit
47103002830001 7/13/1944 STANDARD OIL COMPANY INCORPORATED 1515 GR GAS 39.6093 +80.5833 1374 H L & I UTT E 5/29/1944 6/13/1944 GORDON 3289 00283 47103003710000 2/1/1951 J C R PETROLEUM INCORPORATED 825 GR GAS 39.5887 +80.5756 1 S B HIGGINBOTHAM ET AL 12/18/1950 1/2/1951 CONEMAUGH /SERIES/ 530 00371 47103003720000 8/7/1963 3/1/1951 UNKNOWN 842 GR ABD-CB 39.5897 +80.5788 1/15/1951 1/30/1951 PITTSBURGH COAL 523 00372 47103003760000 4/1/1952 J C R PETROLEUM INCORPORATED 1265 GR GAS-CB 39.5924 +80.5776 1 S J ROBINSON ET AL 2/16/1952 3/2/1952 CONEMAUGH /SERIES/ 1030 00376 47103003800000 7/6/1952 5/1/1952 UNKNOWN 1267 GR D&A-CG 39.5937 +80.5776 1 S B HIGGINBOTHAM 5/10/1952 4/1/1952 CONEMAUGH /SERIES/ 1180 00380 47103003810000 6/24/1952 J C R PETROLEUM INCORPORATED 818 GR GAS-CB 39.6045 +80.5776 1 S B HIGGINBOTHAM 5/10/1952 5/25/1952 PITTSBURGH COAL 515 00381 471030038400000 5	4710300331		11/17/1903 PGH & WV GAS	1109 GR	GAS	39.5883 -80.5	68		2285 00331
47103003710000 2/1/1951 J C R PETROLEUM INCORPORATED B25 GR GAS-CB 39.5847 60.5756 1 S B HIGGINBOTH MET AL 12/18/1950 <t< td=""><td>47103000640000</td><td>5/21/1934</td><td>3/1/1932 PITTSBURGH & W VA GAS</td><td>1505 GR</td><td>ABD-GW</td><td>39.6022 -80.58</td><td>63 5403 J P ASHCRAFT</td><td>1/16/1932 1/31/1932 FOURTH SAND</td><td>3634 00064</td></t<>	47103000640000	5/21/1934	3/1/1932 PITTSBURGH & W VA GAS	1505 GR	ABD-GW	39.6022 -80.58	63 5403 J P ASHCRAFT	1/16/1932 1/31/1932 FOURTH SAND	3634 00064
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47103003800000 7/6/1952 5/1/1952 UNKNOWN 1267 GR D&A-OG 39.5937 -80.5730 3/17/1952 4/1/1952 CONEMAUGH /SERIES/ 1185 00380 47103003810000 6/24/1952 J C R PETROLEUM INCORPORATED 818 GR GAS-CB 39.5937 -80.5770 15 B HIGGINBOTHAM 5/10/1952 5/25/1952 PITTSBURGH COAL 515 00381 47103003830000 4/10/1953 J C R PETROLEUM INCORPORATED 960 GR GAS-CB 39.6045 +80.5774 1J C ASHCRAFT 10/6/1952 10/21/1952 CONEMAUGH /SERIES/ 686 00383 471030038400000 5/1/1953 J C R PETROLEUM INCORPORATED 855 GR GAS-CB 39.6004 +80.5774 1J /7.1953 4/1/1953 CONEMAUGH /SERIES/ 686 00383 47103003850000 8/1/1953 J C R PETROLEUM INCORPORATED 905 GR GAS-CB 39.6021 +80.5724 3J P ASHCRAFT 3/17/1953 4/11/1953 CONEMAUGH /SERIES/ 647 00385 47103003850000 8/1/1953 J C R PETROLEUM INCORPORATED 905 GR GAS-CB 39.6021	47103003720000	8/7/1963	3/1/1951 UNKNOWN	842 GR	ABD-CB	39.5897 -80.57	88	1/15/1951 1/30/1951 PITTSBURGH COAL	523 00372
47103003810000 6/24/1952 J C R PETROLEUM INCORPORATED 818 GR GAS-CB 39.5841 -80.5776 1 5 B HiggINBOTHAM 5/10/1952 5/25/1952 PITTSBURGH COAL 515 00381 47103003830000 4/10/1953 J C R PETROLEUM INCORPORATED 960 GR GAS-CB 39.6045 -80.5776 1 J C ASHCRAFT 10/6/1952 10/21/1952 CONEMAUGH /SERIES/ 686 00383 47103003840000 5/1/1953 J C R PETROLEUM INCORPORATED 855 GR GAS-CB 39.6045 -80.5774 3/17/1953 4/1/1953 CONEMAUGH /SERIES/ 586 00384 47103003850000 8/1/1953 J C R PETROLEUM INCORPORATED 905 GR GAS-CB 39.6021 +80.5774 3/17/1953 4/1/1953 CONEMAUGH /SERIES/ 580 00384 47103003850000 8/1/1953 J C R PETROLEUM INCORPORATED 905 GR GAS-CB 39.6021 +80.5734 3 J P ASHCRAFT 3/17/1953 CONEMAUGH /SERIES/ 647 00385 47103003850000 6/1/1955 G1/1955 GAS<	47103003760000	1	4/1/1952 J C R PETROLEUM INCORPORATED	1265 GR	GAS-CB	39.5924 -80.57	21 2 S J ROBINSON ET AL	2/16/1952 3/2/1952 CONEMAUGH /SERIES/	1008 00376
47103003830000 4/10/1953 J C R PETROLEUM INCORPORATED 960 GR GAS-CB 39.6045 + 80.5773 1 J C ASHCRAFT 10/6/1952 10/21/1952 CONEMAUGH /SERIES/ 686 00383 47103003840000 5/1/1953 J C R PETROLEUM INCORPORATED 855 GR GAS-CB 39.6045 + 80.5773 1 J C ASHCRAFT 3/17/1953 4/1/1953 CONEMAUGH /SERIES/ 585 00384 47103003850000 8/1/1953 J C R PETROLEUM INCORPORATED 905 GR GAS-CB 39.6021 + 80.5734 3 J P ASHCRAFT 6/17/1953 7/2/1953 CONEMAUGH /SERIES/ 647 00385 47103003850000 6/1/1953 EQT PRODUCTION COMPANY 847 GR GAS-CB 39.5986 + 80.5752 1 H L SMITH 4/17/1953 5/2/1953 CONEMAUGH /SERIES/ 570 00386 47103004320000 7/18/1956 6/1/1955 UNKNOWN 994 GR D&A 39.6102 + 80.5730 4/17/1956 5/2/1956 TIONESTA /SD/ 1495 00432	47103003800000	7/6/1952	5/1/1952 UNKNOWN	1267 GR	D&A-OG	39.5937 -80.57	30	3/17/1952 4/1/1952 CONEMAUGH /SERIES/	1185 00380
47103003840000 5/1/1953 J C R PETROLEUM INCORPORATED 855 GR GAS-CB 39.6008 -80.5724 2 J P ASHCRAFT 3/17/1953 4/1/1953 CONEMAUGH /SERIES/ 585 00384 47103003850000 8/1/1953 J C R PETROLEUM INCORPORATED 905 GR GAS-CB 39.6002 +80.5724 2 J P ASHCRAFT 6/17/1953 4/1/1953 CONEMAUGH /SERIES/ 647 00385 47103003850000 6/1/1953 EQT PRODUCTION COMPANY 847 GR GAS-CB 39.5986 +80.5752 1 H L SMITH 4/17/1953 5/2/1953 CONEMAUGH /SERIES/ 570 00386 47103004320000 7/18/1956 6/1/1956 UNKNOWN 994 GR D&A 39.6102 +80.5730 4/17/1956 5/2/1956 TIONESTA /SD/ 1495 00432	47103003810000	1	6/24/1952 J C R PETROLEUM INCORPORATED	818 GR	GAS-CB	39.5841 -80.57	76 1 S B HIGGINBOTHAM	5/10/1952 5/25/1952 PITTSBURGH COAL	515 00381
47103003850000 8/1/1953 J C R PÉTROLEUM INCORPORATED 905 GR GAS-CB 33.6021 -80.5734 3 J P ASHCRAFT 6/17/1953 CONEMAUGH /SERIES/ 647 00385 47103003850000 6/1/1953 EQT PRODUCTION COMPANY 847 GR GAS-CB 39.5986 -80.5752 1 H L SMITH 4/17/1953 CONEMAUGH /SERIES/ 570 00386 47103004320000 7/18/1956 6/1/1956 UNKNOWN 994 GR D&A 39.6102 -80.5730 4/17/1956 5/2/1956 TIONESTA /SD/ 1495 00432	47103003830000	1	4/10/1953 J C R PETROLEUM INCORPORATED	960 GR	GAS-CB	39.6045 -80.57	73 1 J C ASHCRAFT	10/6/1952 10/21/1952 CONEMAUGH /SERIES/	686 00383
47103003860000 6/1/1953 EQT PRODUCTION COMPANY 847 GR GAS-CB 39.5986 -80.5752 1 H L SMITH 4/17/1953 5/2/1953 CONEMAUGH /SERIES/ 570 00386 47103004320000 7/18/1956 6/1/1956 UNKNOWN 994 GR D&A 39.6102 -80.5730 4/17/1956 5/2/1956 TIONESTA /SD/ 1495 00432	47103003840000)	5/1/1953 J C R PETROLEUM INCORPORATED	855 GR	GAS-CB	39.6008 -80.57	24 2 J P ASHCRAFT	3/17/1953 4/1/1953 CONEMAUGH /SERIES/	585 00384
47103004320000 7/18/1956 6/1/1956 UNKNOWN 994 GR D&A 39.6102 -80.5730 4/17/1956 5/2/1956 TIONESTA /SD/ 1495 00432	47103003850000	1	8/1/1953 J C R PETROLEUM INCORPORATED	905 GR	GAS-CB	39.6021 -80.57	34 3 J P ASHCRAFT	6/17/1953 7/2/1953 CONEMAUGH /SERIES/	647 00385
	47103003860000		6/1/1953 EQT PRODUCTION COMPANY	847 GR	GAS-CB	39.5986 -80.57	52 1 H L SMITH	4/17/1953 5/2/1953 CONEMAUGH /SERIES/	570 00386
47103004330000 8/1/1956 J C R PETROLEUM INCORPORATED 1509 GR GAS-CB 39.6066 -80.5830 7 J P ASHCRAFT 6/17/1956 7/2/1956 CONEMAUGH /SERIES/ 1235 00433	47103004320000	7/18/1956	6/1/1956 UNKNOWN	994 GR	D&A	39.6102 -80.57	30	4/17/1956 5/2/1956 TIONESTA /SD/	1495 00432
	47103004330000		8/1/1956 J C R PETROLEUM INCORPORATED	1509 GR	GAS-CB	39.6066 -80.58	30 7 J P ASHCRAFT	6/17/1956 7/2/1956 CONEMAUGH /SERIES/	1235 00433
47103004490000 6/15/1957 NORTH FORK DEVELOPMENT 827 GR GAS-CB 39.5812 -80.5650 5/18/1957 6/2/1957 PENNSYLVANIAN 537 00449	47103004490000		6/15/1957 NORTH FORK DEVELOPMENT	827 GR	GAS-CB	39.5812 -80.56	50	5/18/1957 6/2/1957 PENNSYLVANIAN	537 00449
47103004510000 1/1/1965 7/1/1957 NORTH FORK DEVELOPMENT 817 GR ABD-CB 39.5829 -80.5665 2 J HERBERT HIGGINBOTHAM 5/17/1957 6/1/1957 PENNSYLVANIAN 529 00451	47103004510000	1/1/1965	7/1/1957 NORTH FORK DEVELOPMENT	817 GR	ABD-CB	39.5829 -80.56	65 2 J HERBERT HIGGINBOTHAM	5/17/1957 6/1/1957 PENNSYLVANIAN	529 00451
47103004520000 8/1/1957 NORTH FORK DEVELOPMENT 886 GR GAS-CB 39.5841 -80.5635 3 J HERBERT HIGGINBOTHAM 6/17/1957 7/2/1957 PITTSBURGH COAL 614 00452	47103004520000		8/1/1957 NORTH FORK DEVELOPMENT	886 GR	GAS-CB	39.5841 -80.56	35 3 J HERBERT HIGGINBOTHAM	6/17/1957 7/2/1957 PITTSBURGH COAL	614 00452
47103004530000 11/16/1957 10/1/1957 UNKNOWN 979 GR D&A 39.5823 -80.5622 8/17/1957 9/1/1957 PENNSYLVANIAN 725 00453	47103004530000	11/16/1957	10/1/1957 UNKNOWN	979 GR	D&A	39.5823 -80.56	22	8/17/1957 9/1/1957 PENNSYLVANIAN	725 00453
47103004570000 2/14/1958 1/1/1958 UNKNOWN 1108 GR D&A-G 39.5842 -80.5661 11/17/1957 12/2/1957 AMES/LM/ 859 00457	47103004570000	2/14/1958	1/1/1958 UNKNOWN	1108 GR	D&A-G	39.5842 -80.56	61	11/17/1957 12/2/1957 AMES /LM/	859 00457
47103004930000 10/4/1953 12/30/1915 EQUITABLE GAS COMPANY 1163 GR ABD-GW 39.5889 -80.5743 5131 S I ROBINSON 2 10/31/1915 11/15/1915 BIG INJUN /SD/ 2234 00493	47103004930000	10/4/1953	12/30/1915 EQUITABLE GAS COMPANY	1163 GR	ABD-GW	39.5889 -80.57	43 5131 S I ROBINSON 2	10/31/1915 11/15/1915 BIG INJUN /SD/	2234 00493
47103004940000 EQUITABLE GAS COMPANY 1085 GR GSTG 39.5863 -80.5734 5431 D KOHN 1/1/1801 1/1/1801 CHEMUNG 2088 00494	47103004940000		EQUITABLE GAS COMPANY	1085 GR	GSTG	39.5863 -80.57	34 5431 D KOHN	1/1/1801 1/1/1801 CHEMUNG	2088 00494
47103004950001 11/19/1952 6/19/1946 PITTSBURGH & W VA GAS 1109 GR D&A-G 39.5884 -80.5679 1768 J M SNIDER 1 5/5/1946 5/20/1946 BIG INJUN /SD/ 2285 00495	47103004950001	11/19/1952	6/19/1946 PITTSBURGH & W VA GAS	1109 GR	D&A-G	39.5884 -80.56	79 1768 J M SNIDER 1	5/5/1946 5/20/1946 BIG INJUN /SD/	2285 00495
47103004960000 1/1/1935 8/4/1902 PITTSBURGH & W VA GAS 844 GR ABD-GW 39.5864 -80.5672 1737 S I ROBINSON 6/5/1902 6/20/1902 HAMPSHIRE 2785 00496	47103004960000	1/1/1935	8/4/1902 PITTSBURGH & W VA GAS	844 GR	ABD-GW	39.5864 -80.56	72 1737 S I ROBINSON	6/5/1902 6/20/1902 HAMPSHIRE	2785 00496
47103004990000 EQUITABLE GAS COMPANY 923 GR GSTG 39.5829 -80.5693 5434 SOLE 1/1/1801 1/1/1801 CHEMUNG 2712 00499	47103004990000		EQUITABLE GAS COMPANY	923 GR	GSTG	39.5829 -80.56	93 5434 SOLE	1/1/1801 1/1/1801 CHEMUNG	2712 00499
47103005090000 6/19/1948 8/4/1919 DUNN-MAR OIL & GAS COMPANY 1155 GR ABD-GW 39.5860 -80.5608 5398 ISAAC HIGGINBOTHAM 1 12/8/1918 12/23/1918 CHEMUNG 3243 00509	47103005090000	6/19/1948	8/4/1919 DUNN-MAR OIL & GAS COMPANY	1155 GR	ABD-GW	39.5860 -80.56	08 5398 ISAAC HIGGINBOTHAM 1	12/8/1918 12/23/1918 CHEMUNG	3243 00509
47103005100000 8/1/1961 PEMCO GAS INCORPORATED 934 GR GAS-CB 39.6009 -80.5784 2 H L SMITH 6/17/1961 7/2/1961 CONEMAUGH /SERIES/ 662 00510	47103005100000		8/1/1961 PEMCO GAS INCORPORATED	934 GR	GAS-CB	39.6009 -80.57	84 2 H L SMITH	6/17/1961 7/2/1961 CONEMAUGH /SERIES/	662 00510
47103005140000 5/1/1962 JA & M Oil & GAS 1107 GR GSTG 39.5926 -80.5617 5447 C A LONG 3/17/1962 4/1/1962 BIG INJUN /SD/ 00514	47103005140000		5/1/1962 JA & M OIL & GAS	1107 GR	GSTG	39.5926 -80.56	17 5447 C A LONG	3/17/1962 4/1/1962 BIG INJUN /SD/	00514
47103005160000 J A & M OIL & GAS 1034 GR UNKWN 39.5809 -80.5703 5448 L B 5MITH 1 1/1/1801 1/1/1801 BIG INJUN /SD/ 2090 00516	47103005160000		JA&MOIL&GAS	1034 GR	UNKWN	39.5809 -80.57	03 5448 L B SMITH 1	1/1/1801 1/1/1801 BIG INJUN /SD/	2090 00516
47103005170000 6/1/1962 EQUITABLE GAS COMPANY 869 GR GSTG 39.5977 -80.5753 5449 M D SMITH 4/17/1962 5/2/1962 BIG INJUN /SD/ 00517	47103005170000		6/1/1962 EQUITABLE GAS COMPANY	869 GR	GSTG	39.5977 -80.57	53 5449 M D SMITH	4/17/1962 5/2/1962 BIG INJUN /SD/	00517
47103005200000 1/1/1964 8/2/1919 HOPE NATURAL GAS 937 GR ABD-GW 39.5794 -80.5571 5532 J M BROWN 6/18/1919 7/3/1919 BIG INJUN /SD/ 2025 00520	47103005200000	1/1/1964	8/2/1919 HOPE NATURAL GAS	937 GR	ABD-GW	39.5794 -80.55	71 5532 J M BROWN	6/18/1919 7/3/1919 BIG INJUN /SD/	2025 00520
47103005220000 UNKNOWN 1214 GR UNKWN 39.5876 -80.5569 5441 FRANCES SHREVES 1/1/1801 1/1/1801 CHEMUNG 3154 00522	47103005220000		UNKNOWN	1214 GR	UNKWN	39.5876 -80.55	69 5441 FRANCES SHREVES	1/1/1801 1/1/1801 CHEMUNG	3154 00522
47103005230000 1/1/1963 EQUITABLE GAS COMPANY 846 GR GSTG 39.5810 -80.5569 5451 F SHREVE 11/17/1962 12/2/1962 BIG INJUN /SD/ 00523	47103005230000		1/1/1963 EQUITABLE GAS COMPANY	846 GR	GSTG	39.5810 -80.55	69 5451 F SHREVE	11/17/1962 12/2/1962 BIG INJUN /SD/	00523
47103005240000 4/5/1919 EQUITABLE GAS COMPANY 972 GR GAS 39,5848 -80.5569 5296 SILAS 5HREVES 1 1/7/1919 1/22/1919 CHEMUNG 2882 00524	47103005240000		4/5/1919 EQUITABLE GAS COMPANY	972 GR	GAS	39.5848 -80.55	69 5296 SILAS SHREVES 1	1/7/1919 1/22/1919 CHEMUNG	2882 00524
47103005310000 1/1/1962 EQUITABLE GAS COMPANY 1098 GR PSEUDO 39.5771 -80.5540 5440 C E BROWN ETAL 1 00531	47103005310000	1/1/1962	EQUITABLE GAS COMPANY	1098 GR	PSEUDO	39.5771 -80.55	40 5440 C E BROWN ETAL 1		00531
47103005330000 1/1/1962 12/11/1902 PITTSBURGH & W VA GAS 829 GR ABD-GW 39,5841 -80.5685 1751 JOHN E SNYDER 10/12/1902 10/27/1902 POCONO 1928 00533	47103005330000	1/1/1962	12/11/1902 PITTSBURGH & W VA GAS	829 GR	ABD-GW	39.5841 -80.56	85 1751 JOHN E SNYDER	10/12/1902 10/27/1902 POCONO	1928 00533
47103005340000 EQUITABLE GAS COMPANY 1067 GR GSTG 39,5826 -80,5590 5443 SOLE 1/1/1801 1/1/1801 CHEMUNG 2880 00534	47103005340000		EQUITABLE GAS COMPANY	1067 GR	GSTG	39.5826 -80.55	90 5443 SOLE	1/1/1801 1/1/1801 CHEMUNG	2880 00534
47103005380000 EQUITABLE GAS COMPANY 836 GR UNKWN 39.5794 80.5635 5454 ELVA R KING 1/1/1801 1/1/1801 BIG INJUN /SD/ 1850 00538	47103005380000		EQUITABLE GAS COMPANY	836 GR	UNKWN	39.5794 -80.56	35 5454 ELVA R KING	1/1/1801 1/1/1801 BIG INJUN /SD/	1850 00538
47103005660000 1/1/1965 J C R PETROLEUM INCORPORATED 880 GR GAS-CB 39.5896 80.5764 3 S B HIGGINBOTHAM HRS 11/17/1964 12/2/1964 CONEMAUGH /SERIES/ 548 00566	47103005660000		1/1/1965 J C R PETROLEUM INCORPORATED	880 GR	GAS-CB	39.5896 -80.57	54 3 S B HIGGINBOTHAM HRS	11/17/1964 12/2/1964 CONEMAUGH /SERIES/	548 00566
47103008450000 11/7/1990 9/22/1905 PITTSBURGH & W VA GAS 1290 GR ABD-GW 39.6099 80.5860 1847 J P ASHCRAFT 7/5/1905 7/20/1905 3112 00845	47103008450000	11/7/1990	9/22/1905 PITTSBURGH & W VA GAS	1290 GR	ABD-GW	39.6099 -80.58	50 1847 J P ASHCRAFT	7/5/1905 7/20/1905	3112 00845
47103008610000 6/29/1990 EQUITABLE GAS COMPANY 1000 GR UNKWN 39.6000 -80.5882 5198 ASHCRAFT 1/1/1801 1/1/1801 UNKNOWN 3500 00861	47103008610000	6/29/1990	EQUITABLE GAS COMPANY	1000 GR	UNKWN	39.6000 -80.58	82 5198 ASHCRAFT	1/1/1801 1/1/1801 UNKNOWN	3500 00861
47103008840001 11/7/1989 EQUITRANS INCORPORATED 1167 GR D&A 39.5922 -80.5683 5426 D/R LUMBER CO 10/17/1989 11/1/1989 GREENBRIER /LM/ 2211 00884	47103008840001		11/7/1989 EQUITRANS INCORPORATED	1167 GR	D&A	39.5922 -80.56	B3 5426 D/R LUMBER CO	10/17/1989 11/1/1989 GREENBRIER /LM/	2211 00884

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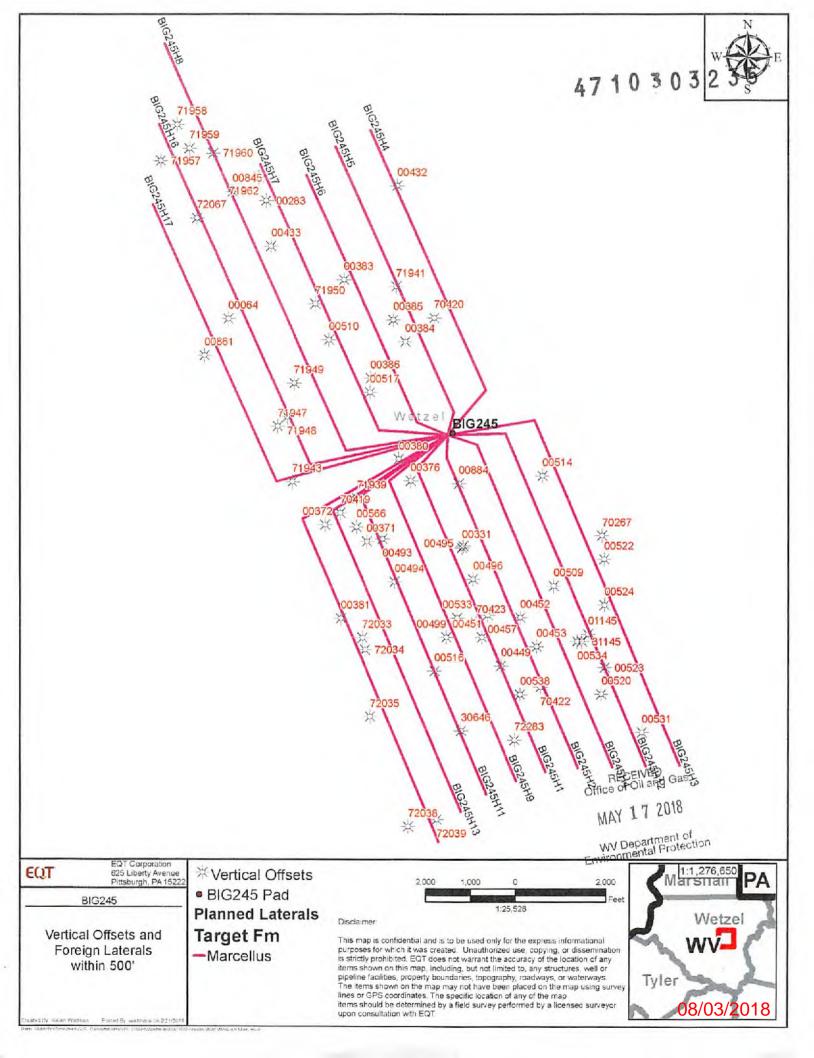
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47103011450000		MEADOW RIDGE DEVELOPMENT LLC	GR	PSEUDO	39.5830 -80.5582 122 MILLS	01145
47103306460000	1/1/1948	3/19/1915 DUNN-MAR OIL & GAS COMPANY	1197 GR	ABD-GW	39.5772 -80.5682 3725 F L HIGGINBOTHAM 1/10/1915 1/25/1915 HAMPSHIRE	3339 30646
47103311450000	1/1/1962	EQUITABLE GAS COMPANY	0 GR	PSEUDO	39.5826 -80.5586 5443 ADDA M SOLE 1	31145
47103702670000		HOPE NATURAL GAS	GR	PSEUDO	39.5890 -80.5570 4983 SILAS SHREVE	70267
47103704190000		HOPE NATURAL GAS	GR	PSEUDO	39.5905 -80.5776 1 S B HIGGINBOTHAM	70419
47103704200000		PHILADELPHIA OIL	GR	PSEUDO	39.6022 -80.5701 1 J P ASHCRAFT ET AL	70420
47103704220000		HOPE NATURAL GAS	GR	PSEUDO	39.5799 -80.5619 1 L HIGGINBOTHAM	70422
47103704230000		PHILADELPHIA OIL	GR	PSEUDO	39.5838 -80.5670 1 ISRAEL SNYDER	70423
47103719390000		UNKNOWN	GR	UNKWN	39.5913 -80.5763 1 S B HIGGINBOTHAM	71939
47103719410000		PHILADELPHIA OIL	GR	UNKWN	39.6041 -80.5731 385 J F UTT	71941
47103719430000		UNKNOWN	GR	UNKWN	39.5923 -80.5814 2 J B HICKS	71943
47103719470000		UNKNOWN	GR	UNKWN	39.5957 -80.5825 1 JAMES SHIRLEY	71947
47103719480000		UNKNOWN	GR	UNKWN	39.5963 -80.5818 1 JAMES SHIRLEY	71948
47103719490000		UNKNOWN	GR	UNKWN	39.5983 -80.5812 5933 JOLLY MINOR	71949
47103719500000		PEMCO GAS INCORPORATED	GR	UNKWN	39.6031 -80.5795 5247 M & J SHIVEN HEIRS 10	71950
47103719570000		UNKNOWN	GR	UNKWN	39.6118 -80.5916 1787 OLLIE SIX 1	71957
47103719580000		UNKNOWN	GR	UNKWN	39.6140 -80.5903 5304 OLLIE SIX	71958
47103719590000		UNKNOWN	GR	UNKWN	39.6125 -80.5893 1 OLLIE SIX	71959
47103719600000		UNKNOWN	GR	UNKWN	39.6122 -80.5875 1 OLLIE SIX	71960
47103719620000		UNKNOWN	GR	UNKWN	39.6108 -80.5839 1736 THOMAS UTT	71962
47103720330000		UNKNOWN	GR	UNKWN	39.5829 -80.5759 1 C BROOKOVER	72033
47103720340000		CARNEGIE NATURAL GAS CORPORATION	GR	UNKWN	39.5822 -80.5758 747 C BROOKOVER 1	72034
47103720350000		UNKNOWN	GR	UNKWN	39.5781 -80.5754 5307 JAMES JOHNSON 1	72035
47103720380000		PHILADELPHIA OIL	GR	UNKWN	39.5714 -80.5724 5287 CHARLES BREWER	72038
47103720390000		UNKNOWN	GR	UNKWN	39.5719 -80.5701 1 R BARR	72039
47103720670000		EQUITRANS INCORPORATED	GR	UNKWN	39.6083 -80.5888 1770 M & J SHIBEN HEIRS	72067
47103722830000		HOPE NATURAL GAS	GR	UNKWN	39.5767 -80.5640 852 F L HIGGINBOTHAM	72283

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(4/16)		API Number 47 - 103 - 0323	5
	DEPARTMENT OF ENV	Operator's Well No. BIG245H18 F WEST VIRGINIA VIRONMENTAL PROTECTION OF OIL AND GAS	RECEIVED Office of Oil and Gas
	FLUIDS/ CUTTINGS DIS	POSAL & RECLAMATION PLAN	MAY 2 5 2018
Operator Name_EQT P	oduction Company	OP Code 306686	WV Department of Environmental Protection
Watershed (HUC 10)_	Rockcamp Run of Wiley Fork	Quadrangle Big Run	
Will a pit be used?	g more than 5,000 bbls of water to com 'es No escribe anticipated pit waste: N/A	aplete the proposed well work? Yes 🔽 No [
	ic liner be used in the pit? Yes	No 🖌 If so, what ml.?	
	oosal Method For Treated Pit Wastes:		DmH 5-18-18
	Land Application Underground Injection (UIC Pern	nit Number 0014 8462 4037	5-18-18
)
		/W-9 for disposal location)	
Will closed loop system	n be used? If so, describe:	ed loop system will remove drill cuttings from the drilling fluid. The drill cutting ransportation to an off-site disposal fadility.	gs are then
Drilling medium antic	pated for this well (vertical and horizo	ntal)? Air, freshwater, oil based, etc. See Attached	
-If oil based,	what type? Synthetic, petroleum, etc	Synthetic Mud	
Additives to be used in	drilling medium? See Attached		
Drill cuttings disposal	method? Leave in pit, landfill, remove	ed offsite, etc. Landfill	
-If left in pit :	nd plan to solidify what medium will b	be used? (cement, lime, sawdust) N/A	
-Landfill or o	ffsite name/permit number? See Attach	ned List	

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

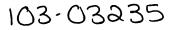
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company	Official	Signature_	1.	2
			Edia	mater

Company Official (Typed Name) Erin Spine

Company Official Title Regional Land Supervisor

Subscribed and sworn before me this 15 day of May	, 20_18	Terror Constants
My commission expires 4-7-2020	Notary Public	DFFIGML BEAL NOTARY PUBLIC STATE OF WEST VIRGINIA REBECCA L. WANSTREET EOT PRODUCTION COMPANY PO BOX 280 BRIDGEPORT, WY 26330 Wy commission egymess April 07, 2030



WW-9 Attachment

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.

• Air is used to drill the top-hole sections of the wellbore (surface, intermediate, and pilot). Water based mud may be necessary depending on hole conditions to stabilize and drill the intermediate section. The pilot hole, curve, and lateral sections will be drilled with either air, water based mud, or oil based mud.

Additives to be used in drilling medium?

Air - biodegradable oil lubricant, detergent, defoaming, water. Water based mud – Barite, viscosifer, alkalinity control, lime, filtration control, deflocculates, biodegradable oil lubricant, defoaming, walnut shell, salt, x-cide, carbonates. Oil based mud – synthetic base oil, emulsifier, salt, lime, viscosifer, alkalinity control, filtration control, deflocculates, biodegradable oil lubricant, defoaming, carbonates.

WV Department of Environmental Protection Office of Oil and Ge MAY 2.5 2018

Operator's Well No. BIG245H16

Form	WW-9
rorm	11 41 -2

FOT Production Company -

roposed Revegetation Trea	tment: Acres Disturbed no	additional Prevegetation p	н
Lime 3	Tons/acre or to correct	to pH 6.5	
Fertilizer type Gra	anular 10-20-20		
Fertilizer amount	/3	Ibs/acre	
Mulch 2		Tons/acre	
т	emporary	<u>Seed Mixtures</u> Perm	anent
To Seed Type	emporary Ibs/acre		anent Ibs/acre
		Perm	
Seed Type	lbs/acre	Perm Seed Type	lbs/acre

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Comments:		RECEIVED Office of Oil and G
		MAY 2.5 2018
		WV Department Environmental Prote
Fitle: Oil + 605 Inspector	Date: 5-18-18	
Field Reviewed?	() No	

EQT Production Water plan Offsite disposals for Marcellus wells

CWS TRUCKING INC.

P.O. Box 391 Williamstown, WV 26187 740-516-3586 Noble County/Noble Township Permit # 3390

LAD LIQUID ASSETS DISPOSAL INC.

226 Rankin Road Washington, PA 15301 724-350-2760 724-222-6080 724-229-7034 fax Ohio County/Wheeling Permit # USEPA WV 0014

TRI COUNTY WASTE WATER MANAGEMENT, INC.

1487 Toms Run Road Holbrook, PA 15341 724-627-7178 Plant 724-499-5647 Office Greene County/Waynesburg Permit # TC-1009

Waste Management - Meadowfill Landfill

Rt. 2, Box 68 Dawson Drive Bridgeport, WV 26330 304-326-6027 Permit #SWF-1032-98 Approval #100785WV

Waste Management - Northwestern Landfill

512 E. Dry Road Parkersburg, WV 26104 304-428-0602 Permit #SWF-1025 WV-0109400 Approval #100833WV

BROAD STREET ENERGY LLC

37 West Broad Street Suite 1100 Columbus, Ohio 43215 740-516-5381 Washington County/Belpre Twp. Permit # 8462

TRIAD ENERGY

P.O. Box 430 Reno, OH 45773 740-516-6021 Well 740-374-2940 Reno Office Jennifer Nobel County/Jackson Township Permit # 4037

KING EXCAVATING CO.

Advanced Waste Services 101 River Park Drive New Castle, Pa. 16101 Facility Permit# PAR000029132

> RECEIVED Office of Oil and Gas

MAY 17 2018

WV Department of Environmental Protection

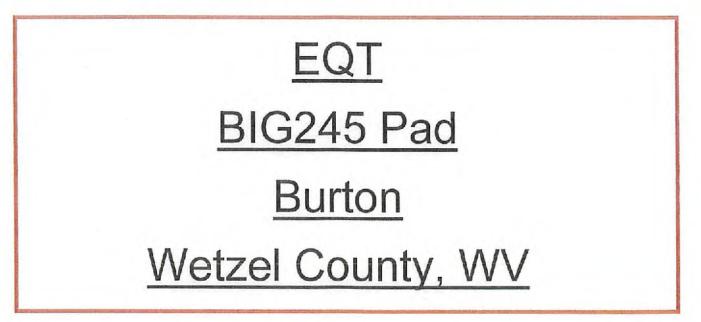
08/03/2018

4710303235

103-03235



Site Specific Safety and **Environmental Plan**



BG245HIU

For Wells:

RECEIVED Office of Oil and Gas

Date Prepared: February 23, 2018

EQT Production

Keybral Land Supervisor

5/10/18 Date

WV Oil and Gas Inspector

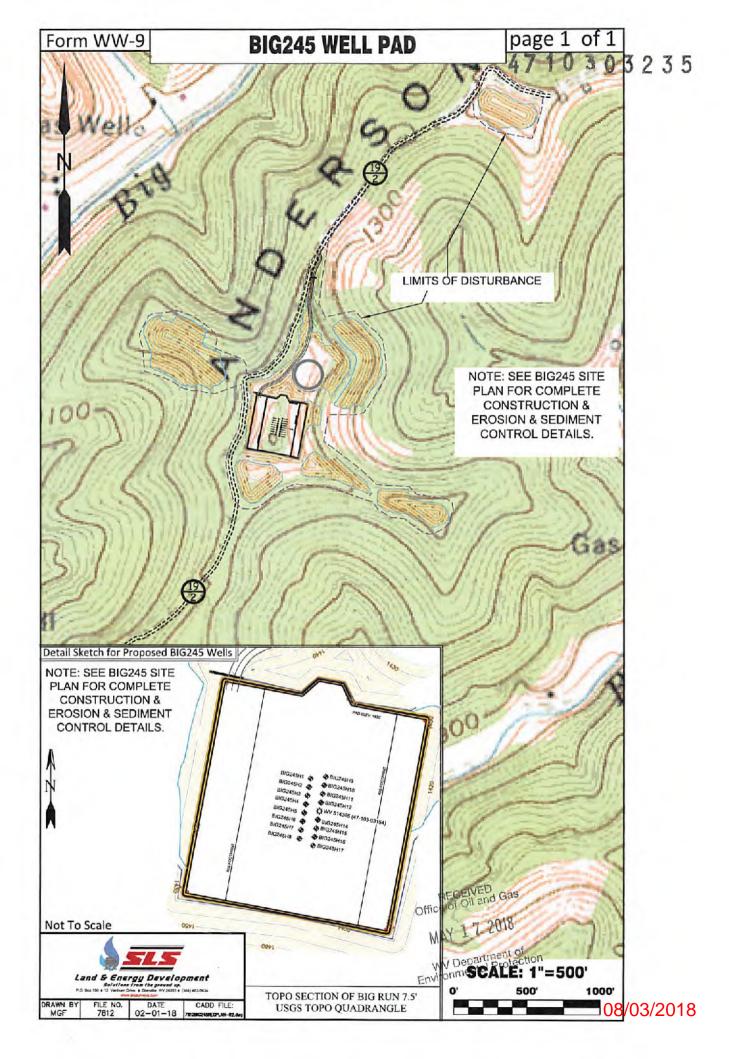
Dil +64 Inspector

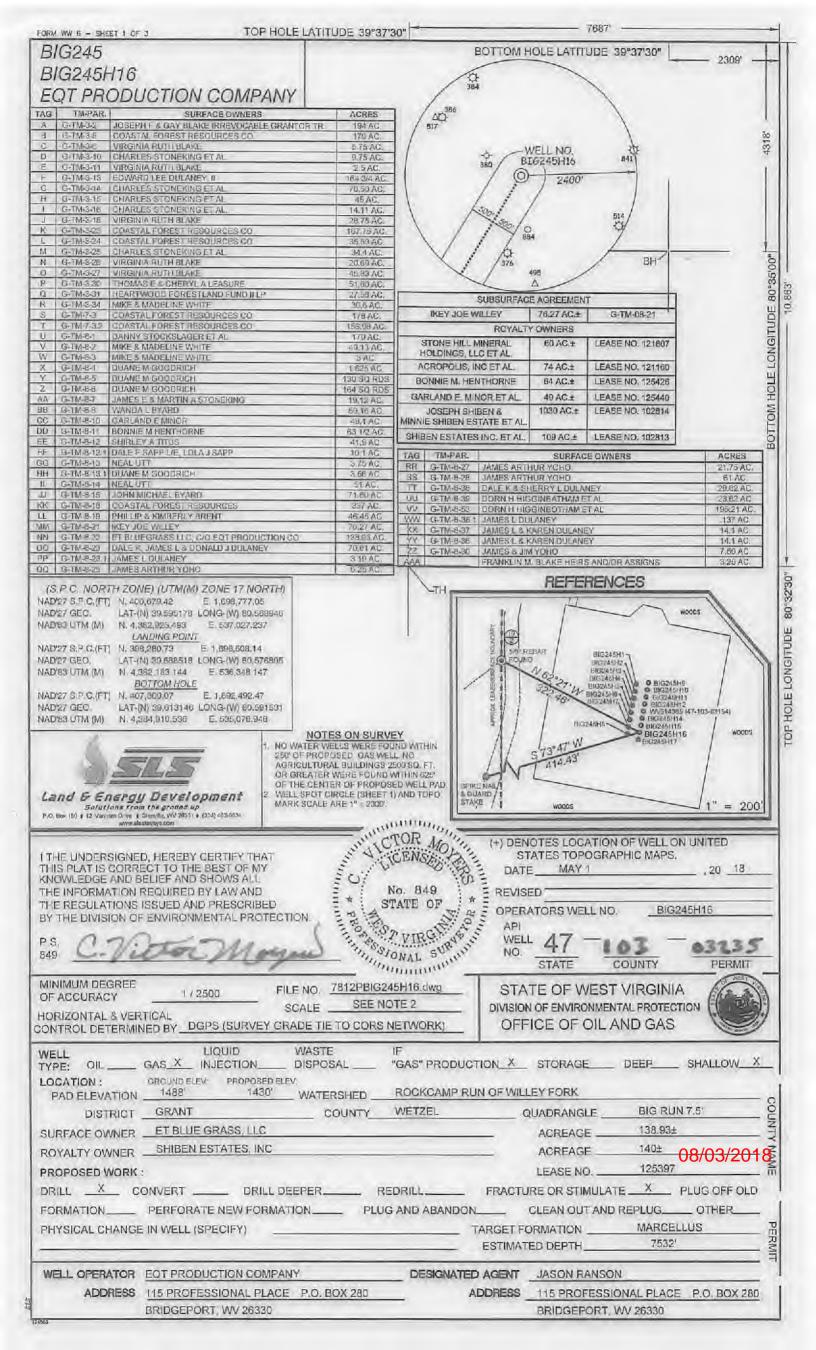
<u>5-18-18</u> Date

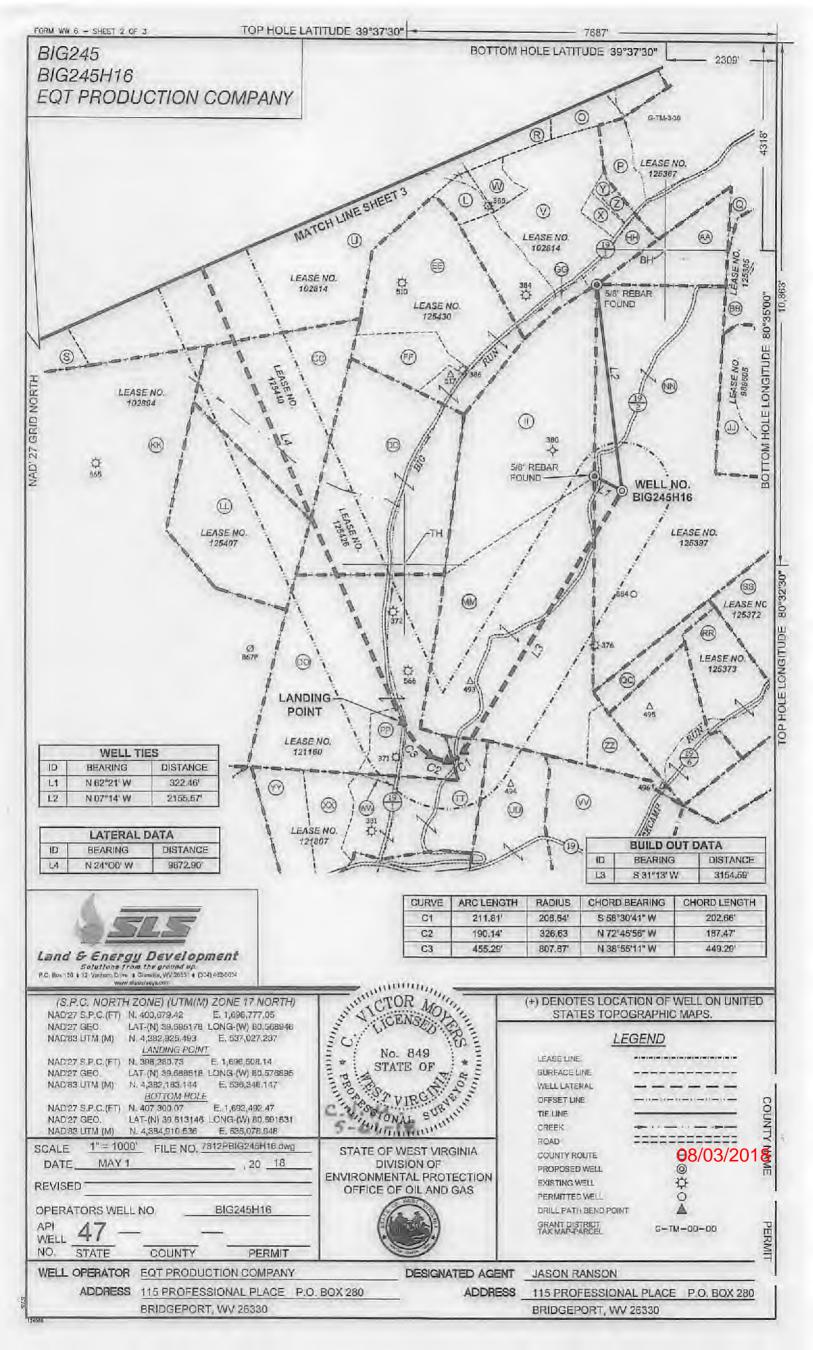
MAY 2 5 2018

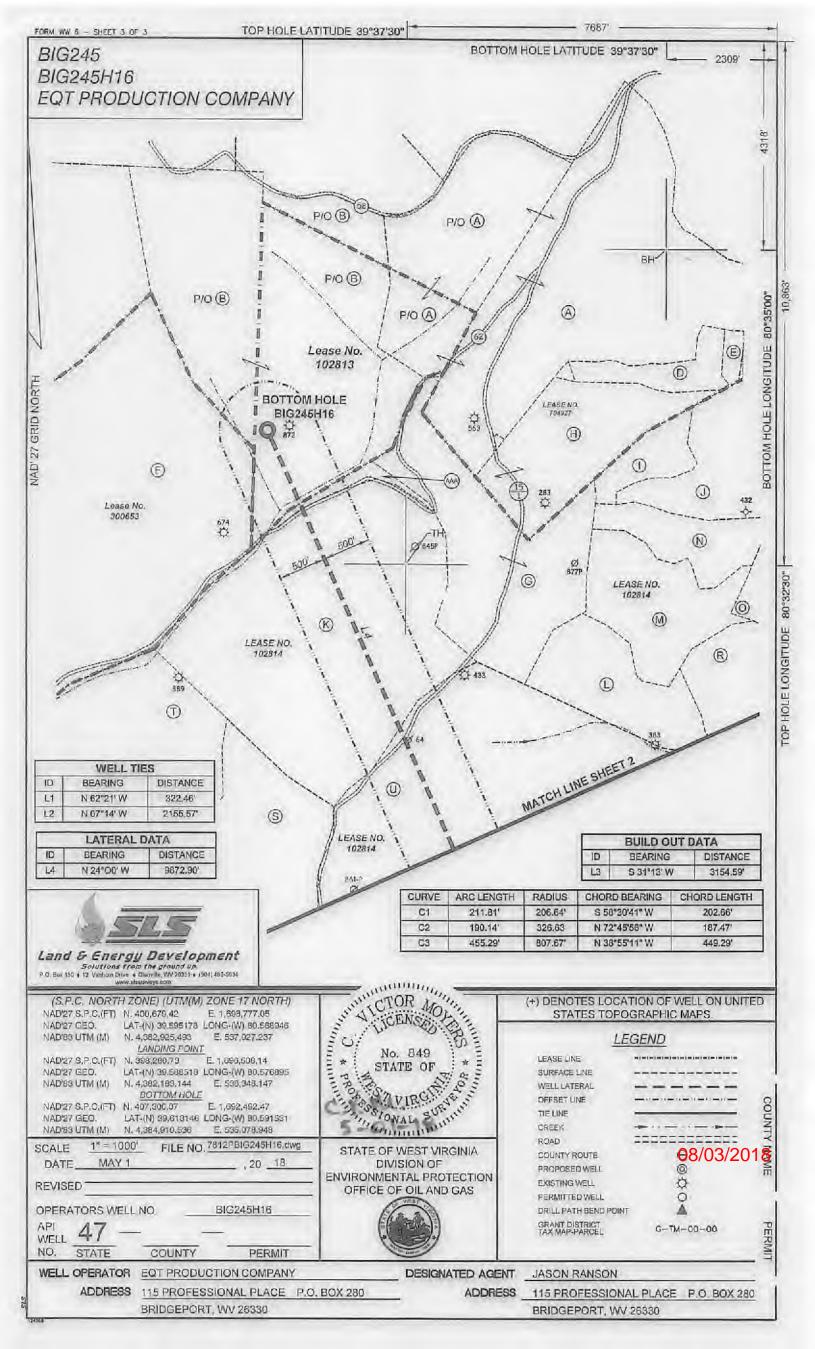
WV Department of Environmental Protection

1









WW-6A1 (5/13)

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or				
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page

See Attached

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- · WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator:	EQT Production Company		
By:	Erin Spine 2. This		
Its:	Regional Land Supervisor		

Page 1 of 2

MAY 1 7 2018 WV Department of Environmental Protection

RECEIVED Office of Oil and Gas

WW-6A1 attachment		Operator's Well No.	BIG245H16	
Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
	Chihan Estatos Inc. et al (surrent reveltu surren)		**	
495907	Shiben Estates, Inc., et al. (current royalty owner) Joseph Shiben, et al. (Original Lease)	Equitable Cae Company		DB 44A/224
<u>125397</u>		Equitable Gas Company		0&G 71A/453
	Equitable Gas Company	Equitrans, Inc.		DB 105/908
	Equitrans, Inc.	Equitrans, LP		
	Equitrans, LP	EQT Production Company		O&G 131A/81
<u>TMP 04-8-21</u>	Ikey Joe Willey	EQT Production Company	n/a	DB 123/99 Subsurface
<u>121807</u>	Stone Hill Mineral Holdings, LLC, et al. (current royalty	owner)		
	A.C. Higginbotham, et ux, et al. (Original Lease)	Pittsburgh & West Virginia Gas Company		LB 39A/233
	Pittsburgh & West Virginia Gas Company	Equitable Gas Company		DB187/321
	Equitable Gas Company	Equitrans, Inc.		DB 71A/453
	Equitrans, Inc.	Equitrans, LP		DB 105/908
	Equitrans, LP	EQT Production Company		O&G 131A/81
			**	
	Acropolis, Inc., et al. (Current Royalty Owner)	Dittaturate & March Minister Case Component		LB 39A/236
<u>121160</u>	A. C. Higginbotham, et al. (Original Lease)	Pittsburgh & West Virginia Gas Company		LB 187/374
	Pittsburgh & West Virginia Gas Company	Equitable Gas Company		
	Equitable Gas Company	Equitrans, Inc.		O&G 71A/453
	Equitrans, Inc.	Equitrans, LP		DB 105/908
	Equitrans, LP	EQT Production Company		O&G 131A/81
	Bonnie M. Henthorne (Current Royalty Owner)		**	
125426	William Swisher, et ux.	Hope Natural Gas Company		LB 5A/128
120140	Hope Natural Gas Company	Equitable Gas Company		LB 44A/380
	Equitable Gas Company	Equitrans, Inc.		O&G 71A/453
	-	Equitrans, LP		DB 105/908
	Equitrans, Inc.	EQT Production Company		O&G 131A/81
	Equitrans, LP	EQT 1 locuoion company		
	Garland E. Minor, et al. (Current Royalty Owner)		**	
<u>125440</u>	Flossie D. Murphy, et al. (Original Lease)	Equitable Gas Company		LB 52A/287
	Equitable Gas Company	Equitrans, Inc.		LB 71A/453
	Equitrans, Inc.	Equitrans, LP		DB 105/908
	Equitrans, LP	EQT Production Company		O&G 131A/81
<u>102814</u>	Joseph Shiben and Minnie Shiben Estate, et al.	EQT Production Company F Office	of Oil and	DB 182A/84 Gas
	Shiben Estates, Inc., et al. (Current Royalty Owner)	MA	Y 17 20)18
<u>102813</u>	J.P. Ashcraft (Original Lease)	Oxford Oil Company		DB 39/483
102013	Oxford Oil Company	The Philadelphia Company WV	Departme	nt 08, 47/553
	The Philadelphia Company	The Philadelphia Company W The Philadelphia Company Environ The Philadelphia Company of West Virgin	imentai Fi	DB 47/561
	The Philadelphia Company of West Virginia	Pittsburgh & West Virginia Gas Company		LB22A/352
	Pittsburgh & West Virginia Gas Company	Equitable Gas Company		DB187/321
	Equitable Gas Company	Equitrans, Inc.		LB 71A/453
	Equitrans, Inc.	Equitrans, LP		DB 105/908
	Equitrans, LP	Equitable Production-Eastern States, Inc.		AB 342/24 Tyler Co.
	Equitable Production-Eastern States, Inc.	Equitable Production Company		See Attached
	Equitable Production Company	EQT Production Company		CB 13/14
	** Per West Virginia Code Section 22-6-8.			



EQT Production Company 2400 Ansys Drive. Suite 200 Canonsburg, PA 15317 www.eqt.com Todd Kläner Regional Land Manager, Permitting tklaner@eqt.com

Via E-Mail

May 9, 2018

WV DEP Reviewer

RE: EQT Production Company PAD ID – BIG245 Well# - BIG245H8, BIG245H16, BIG245H17 Wetzel County

Dear Reviewer,

This well indicated by this permit application contains a Subsurface Easement Agreement for nonproductive portions of the well bore. Attached is a Memorandum of Subsurface Use Agreement which gives EQT the right to drill below the surface of the tract 8/21 shown on the well plat.

EQT Production understands that the WVDEP will issue the permit in the normal process subject to the completeness of the requirements of the Office of Oil and Gas and does not take a position with regards to the property rights under this agreement.

EQT Production agrees that the WVDEP's issuance of the permit is in no way an affirmance or validation of EQT Production's claimed rights.

Regards,

Todd Klaner Regional Land Manager, Permitting EQT Production Company

RECEIVED Office of Oil and Gas MAY 17 2018 WV Department of Environmental Protection

MEMORANDUM OF SUBSURFACE RIGHT-OF-WAY AND EASEMENT AGREEMENT

County Clerk please also index under the following: [LIST MINERAL OWNERS]

4-8-21 Appalachian Royalty, Mensore Trust, McCall Trust

1. NAME AND ADDRESS OF GRANTOR:

Ikey Joe Willey 12359 Willey Fork Road Pine Grove, WV 26419-9735

2. NAME AND ADDRESS OF GRANTEE:

EQT Production Company 625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222

- 3. SUBSURFACE **RIGHT-OF-WAY** AND EASEMENT AGREEMENT A SUBSURFACE RIGHT-OF-WAY AND EASEMENT **REFERENCE:** AGREEMENT ("Agreement") dated the 15th day of June, 2017, was entered into for good and valuable consideration by and between Ikey Joe Willey ("Grantor", whether one or more) and EQT Production Company ("Grantee"). Upon completion of any wellbore within the subsurface area underlying the Property (as defined in Section 4), this subsurface easement in the area of the wellborc and the one hundred (100') feet on each side of the wellbore that parallels it shall become an exclusive right of way and easement in that area. The final wellbore locations are as described in a final, as-built map(s) filed with the West Virginia Department of Environmental Protection (the "DEP") for well(s) located on EQT's PAD ID BIG 245. If an as-built map is not available for a wellbore within the subsurface area underlying the Property, any third-party with the right to operate within such area may contact Grantee's land department for a copy of such as-built map. Grantee shall provide notice of additional wellbores located within the subsurface area underlying the Property by filing an amendment, affidavit or other appropriate document.
- 4. <u>DESCRIPTION OF PREMISES</u>: That certain tract or parcel of land containing 76.27 acres, more or less, located in Grant District in Wetzel County, West Virginia, being the same lands conveyed to Grantor by Will dated the 29th day of October, 1971, of record in the Office of the Clerk of the County Commission of Wetzel County, West Virginia in Will Book 29, at Page 40 ("the Property").

Tax Map and Parcel(s) 8-21

5. <u>TERM</u>: The Agreement shall run with the land and shall remain in full force and effect until released and relinquished by the Grantee back to the Grantor, in writing.

(REMAINDER OF PAGE LEFT BLANK INTENTIONAL OF PAGE LEFT BLANK I

IN WITNESS WHEREOF, the parties have signed their names hereto as of the date of the Agreement referenced in Section 3 above.

GRANTOR:

GRANTEE: EQT Production Company

ason M. Ranson

Its Attorney-in-Fact

STATE OF WEST VIRGINIA; COUNTY OF WETZEL:

I. <u>Brycon Warz</u>, a commissioner, in and for said State and County, do hereby certify that Ikey Joe Willey, personally known to be the same person(s) that signed above, appeared before me this day in person in the State and County aforesaid, and acknowledged and delivered the said instrument as a free act and deed for uses and purposes therein set forth.

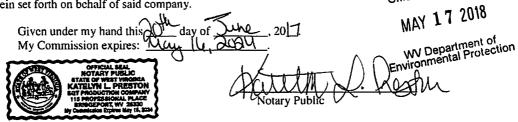
Given under my hand this $\frac{15^{\text{de}}}{J_{\text{AN}}}$ day of $\frac{1}{J_{\text{AN}}E}$, 2017. My Commission expires: $\frac{1}{J_{\text{AN}}}$, $\frac{1}{2021}$.

OFFICIAL SEAL COMMISSIONER FOR WEST VIRGINIA Bryson J. Karp Weston, WV My Commission Expires January 1, 2021

Commissioner for West Virginia

STATE/COMMONWEALTH OF WEST VIRGINIA; COUNTY OF Hanson:

I, <u>Katching L. PrestDin</u>, a Notary Public, in and for said State and County, do hereby certify that <u>Custa H. Ranscin</u>, personally known to be the same person whose name is subscribed to the foregoing instrument and the Attorney in fact of EQT Production Company, appeared before me this day in person in the State and County aforesaid and D acknowledged and delivered the said instrument to be his free act and deed for uses and public before and Gas therein set forth on behalf of said company.



This instrument was prepared by EQT Production Company, 625 Liberty Avenue, Pittsburgh, PA 15222

315

PENNSYLVANIA DEPARTMENT OF STATE CORPORATION BUREAU ROOM 308 NORTH OFFICE BUILDING P.O. BOX 8722 HARRISBURG, PA 17105-8722

EQUITABLE PRODUCTION COMPANY

THE CORPORATION BUREAU IS HAPPY TO SEND YOU YOUR FILED DOCUMENT. PLEASE NOTE THE FILE DATE AND THE SIGNATURE OF THE SECRETARY OF THE COMMONWEALTH. THE CORPORATION BUREAU IS HERE TO SERVE YOU AND WANTS TO THANK YOU FOR DOING BUSINESS IN PENNSYLVANIA. IF YOU HAVE ANY QUESTIONS PERTAINING TO THE CORPORATION BUREAU, CALL (717) 787-1057.

ENTITY NUMBER: 2980374

MICROFILM NUMBER: 2001032

1297-1300

RECEIVED Office of Oil and Gas

JUL 2 5 2213

WV Department of Environmental Protection

C T CORP SYSTEM COUNTER

:

200132 • 129

Microfilm Number

Entity Number

APR 3 0 2001

Hed with the Department of State on

Secretary of the Commonwealth

ARTICLES OF MERGER-DOMESTIC BUSINESS CORPORATION DSCB:15-1925 (Rev 90)

In compliance with the requirements of 15 Pa.C.S. § 1926 (relating to articles of merger or consolidation), the undersigned business corporations, desiring to effect a merger, hereby state that:

1. The name of the corporation surviving the merger is: Equitable Production Company

2. (Check and complete one of the following):

"K. The surviving corporation is a domestic business corporation and the (a) address of its current registered office in this Commonwealth or (b) name of its commercial registered office provider and itse county of venue is (the Department is hereby authorized to correct the following information to conform to the records of the Department):

(d) Number and Street	City	State	Zip	County	
(b) c/o: CT Corporation System				Allegheny	
Name of Commercial Regi	sterad Office Provider			County	

For a corporation represented by a commercial registered affice provider, the county in (b) shall be deemed the county in which the corporation is located for venue and official publication purposes.

The surviving corporation is a qualified foreign business corporation incorporated under the laws of and the (a) address of its current registered office in this Commonwealth or (b) name of its commercial registered office provider and the county of venue is (the Department is hereby authorized to correct the following information to conform to the records of the Departmentl:

(a) Number and Street	City	State	Zip	County
(b) c/o: Name of Commercial Registered	Office Provider	<u></u>		County

For a corporation represented by a commercial registered office provider, the county in (b) shall be deemed the county in which the corporation is located for venue and afficial publication purposes.

The surviving corporation is a nonqualified foreign business corporation incorporated under the laws of and the address of its principal office under the laws of such domiciliary jurisdiction is:

Number and Street	City	State	Zip	

3. The name and the address of the registered office in this Commonwealth or name of its commercial registered office provider and the county of venue of each other domestic business corporation and qualified foreign business corporation which is a party to the plan of merger are as follows:

Name of Corporation	Address of Regidered Office or Name of Commercial Registered Office Prov	ider County
Equitable Production Company	CT Corporation System	Allegheny
Equitable Production-E	astern States, Inc. CT Corporation System	Allegheny

PA025 - 10/1		• ਮ੍ਰ
/70°4	bk 30 by 5: 29 arrs	4 100Z

80/2014

DSCB:15-1926 (Rev 90)-2

4. (Check, and il appropriate complete, one of the following):

The plan of merger shall be effective upon filing these Articles of Merger in the Department of State.

			at
	Y The plan of merger shall be effective on: April 30,	Date	Hour .
5.	The manner in which the plan of merger was adopted	by each domestic corporation	ion is as follows:
	Name of Corporation	Manner of Adoption	
	Equitable Production Company	Adopted by Board of Directo	rs pursuant to Sec. 1924 of the PA BCL
	(Strike out this paragraph if no foreign corporation is a approved, as the case may be, by the foreign busines the plan in accordance with the laws of the jurisdiction	on in which it is incorporated.	an was authorized, acopted or e fareign business corporations) party to
7.	. (Check, and if appropriate complete, one of the follow	wing):	
	V the plan of memory is set forth in full in Exhibit A att	tached hereto and made a	part hereof.
	A_ING LIGHT OF THE SET OF A 1901 (relating to omission)	of certain provisions from file	ad plans) the provisions. If any, of the

Pursuant to 15 Pa.C.S. § 1901 (relating to omission of certain provisions from filed plans) the provisions, if any, of the plan of merger that amend or constitute the operative Articles of incorporation of the surviving corporation as in effect subsequent to the effective date of the plan are set forth in full in Echibit A attached hereto and made a part hereof. The full text of the plan of merger is on file at the principal place of business of the surviving corporation, the address of which is:

Number and Street City State Zip	County
----------------------------------	--------

IN TESTIMONY WHEREOF, the undersigned corporation or each undersigned corporation has caused these Articles of Merger to be signed by a duly authorized officer thereaf this 26 th day of April .

Equitable Production Company (Name of Corporation) BY: Jisignary e) Henry B Reich, MILE: Vice President Equitable Production - Bastern States, Inc. di Corporationi Udom

84 1:10(signature) Johanna G. 0 MLE Corporate Secretary

AGREEMENT AND PLAN OF MERGER

BETWEEN

EQUITABLE PRODUCTION - EASTERN STATES, INC.

AND

EQUITABLE PRODUCTION COMPANY

AGREEMENT AND PLAN OF MERGER, dated this 30th day of April 2001, pursuant to Section 251 of the General Corporation Law of the State of Delaware between Equitable Production – Eastern States, Inc., a Delaware corporation, and Equitable Production Company, a Pennsylvania corporation.

WHEREAS, the constituent corporations desire to merge into a single corporation.

NOW, THEREFORE, the corporations, parties to this Agreement, in consideration of the mutual covenants, agreements and provisions hereinafter contained, do hereby prescribe the terms and conditions of said merger and mode of carrying the same into effect as follows:

FIRST: Effective on April 30, 2001, Equitable Production Company. hereby merges into itself Equitable Production – Eastern States, Inc., and Equitable Production Company shall be the surviving corporation.

SECOND: The Articles of Incorporation of Equitable Production Company as heretofore amended and as in effect on the date of the merger provided in this Agreement, shall continue in full force and effect as the Articles of Incorporation of the corporation surviving this merger.

THIRD: The outstanding shares of the capital stock of Equitable Production – Eastern States, Inc. shall be cancelled as of the effective date of the merger pursuant to this Agreement and no new shares issued therefor.

FOURTH: The terms and conditions of the merger are as follows:

- (a) The by-laws of the surviving corporation as they shall exist on the effective date of this Agreement shall be and remain the by-laws of the surviving corporation until the same shall be altered, amended and repealed as therein provided.
- (b) The directors and officers of the surviving corporation shall continue in office until the next annual meeting of the shareholders

and until their successors shall have been elected and qualified.

(c) Upon the merger becoming effective, all the property, rights, privileges, franchises, patents, trademarks, licenses, registrations and other assets of every kind and description of the merged cornoration shall be transferred to, vested in and devolved upon the surviving corporation without further act or deed and all property. rights, and every other interest of the surviving corporation and the merged corporation shall be effectively the property of the surviving corporation as they were of the surviving and the merged corporations, respectively. The merged corporation hereby agrees from time to time, as and when requested by the surviving corporation or by its successors or assigns, to execute and deliver or cause to be executed and delivered all such deeds and instruments and to take or cause to be taken such further or other action as the surviving corporation may deem to be necessary or desirable in order to vest in and confirm to the surviving corporation title to and possession of any property of the merged corporation acquired or to be acquired by reason of or as a result of the merger herein provided for and otherwise to carry out the intent and purposes hereof and the proper officers and directors of the merged corporation and the proper officers and directors of the surviving corporation are fully authorized in the name of the merged corporation or otherwise to take any and all such action.

IN WITNESS WHEREOF, the parties to this agreement, pursuant to the approval and authority duly given by resolutions adopted by their Board of Directors have caused these presents to be executed by the President of each party hereto as the respective act, deed and agreement of said corporations on this 30th day of April 2001.

ATTEST:

ATTEST

EQUITABLE PRODUCTION --EASTERN STATES, INC.

By: President

EOUITABLE PRODUCTION COMPANY TAN) By:

COMMONWEALTH OF PENNSYLVANIA

DEPARTMENT OF STATE

APRIL 30, 2001

TO ALL WHOM THESE PRESENTS SHALL COME. GREETING:

EQUITABLE PRODUCTION COMPANY

I. Kim Pizzingrilli. Secretary of the Commonwealth of Pennsylvania do hereby certify that the foregoing and annexed is a true and correct photocopy of Articles of Merger

which appear of record in this department



IN TESTIMONY WHEREOF. I have hereunto set my hand and caused the Seal of the Secretary's Office to be affixed, the day and year above written.

you pulling

Secretary of the Commonwealth DPOS

4710303235



May 8, 2018

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

Re: BIG245H8, BIG245H16, BIG245H17 Grant District, Wetzel County

Dear Mr. Martin,

EQT Production Company is submitting an application for a new well work permit for the above well number. Upon information and belief, Operator's lease and/ or other real property rights permit it to conduct drilling operations for the subject well in the location shown on the plat, including under any public roads that the well lateral crosses.

Sincerely,

Todd Klaner Regional Land Manager

RECEIVED Office of Oil and Gas MAY 17 2018 WV Department of Environmental Protection

STATE OF WEST VIRGINIA **4710303235** DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS **03235** <u>NOTICE CERTIFICATION</u>

Date of Notice Certification: 05/09/2018

API No. 47- 103	•
Operator's Well No	BIG245H16
Well Pad Name:	BIG245

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State:	W	UTM NAD 83	Easting:	537027.24
County:	Wetzel	UTMINAD 85	Northing:	4382925.49
District:	Grant	Public Road Acc	cess:	Rt. 19/2
Quadrangle:	Big Run	Generally used f	arm name:	E.T. Bluegrass LLC
Watershed:	Rockcamp Run of Wiley Fork			

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:	OOG OFFICE USE
*PLEASE CHECK ALL THAT APPLY	ONLY
□ 1. NOTICE OF SEISMIC ACTIVITY or ■ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/ NOT REQUIRED
□ 2. NOTICE OF ENTRY FOR PLAT SURVEY or ■ NO PLAT SURVEY WAS CONDUCTED	
3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	RECEIVED/ NOT REQUIRED
WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
4. NOTICE OF PLANNED OPERATION RECEIVED Office of Oil and Gas	- RECEIVED
I S. POBLIC NOTICE	E RECEIVED
6. NOTICE OF APPLICATION WV Department o Environmental Protect	RECEIVED

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

Certification of Notice is hereby given:

4710303235

THEREFORE, I <u>Erin Spine</u>, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A. I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator: EQT Production Company		Address:	115 Professional Place PO Box 280	
By:	Erin Spine 2:21		Bridgeport WV 26330	
Its:	Regional Land Supervisor	Facsimile:	304-848-0041	
Telephone:	304-848-0035	Email:	espine@eqt.com	
	STATE OF WEST VIRGINIA REBECCA L. WANSTREET EGT PRODUCTION COMPANY PO BOX 280	Commission Ex	11	

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at <u>depprivacyofficer@wv.gov</u>.

RECEIVED Office of Oil and Gas

MAY 17 2018

WV Department of Environmental Protection

WW	W-6A			API NO. 47- 103 -		
(9-1	13)			OPERATOR WELL NO. BIG:	245H16	
	DEPART	MENT OF ENVIRO	TATE OF WEST VIRGINIA NMENTAL PROTECTION, OI OTICE OF APPLICATION	Well Pad Name: BIG245 4710 FFICE OF OIL AND GAS	3032	3 5
Dat	5/10/18		no later than the filing date of per 5//0/18 1 Filed:	mit application.		
Ø	PERMIT FOR ANY WELL WORK		TE OF APPROVAL FOR THE CTION OF AN IMPOUNDMENT (DR PIT		
Deli	livery method pursuant	to West Virginia Code	§ 22-6A-10(b)			
	PERSONAL SERVICE	REGISTERED MAIL	METHOD OF DELIVERY TH RECEIPT OR SIGNATURE OF			
certi regis sedin the s oil a desc oper more well impo	tificate of approval for the of istered mail or by any meth iment control plan required surface of the tract on which and gas leasehold being de- cribed in the erosion and se- trator or lessee, in the event re coal seams; (4) The own Il work, if the surface tract is boundment or pit as describ- re a water well, spring or wa	construction of an impou od of delivery that requir I by section seven of this ch the well is or is propose veloped by the proposed ediment control plan subr t the tract of land on whice ers of record of the surfa- is to be used for the place red in section nine of this ater supply source located	the filing date of the application, the application or pit as required by this articles a receipt or signature confirmation article, and the well plat to each of the ted to be located; (2) The owners of rewell work, if the surface tract is to be nitted pursuant to subsection (c), sect the the well proposed to be drilled is located to tracts overlying the oil and sment, construction, enlargement, alter article; (5) Any surface owner or wald d within one thousand five hundred five hu	le shall deliver, by personal service, copies of the application, the erose e following persons: (1) The owne ecord of the surface tract or tracts of used for roads or other land distur- ion seven of this article; (3) The co- cated [sic] is known to be underla- gas leasehold being developed by ration, repair, removal or abandon er purveyor who is known to the a- pet of the center of the well pad wh	e or by sion and ers of record of overlying the rbance as oal owner, in by one or the proposed ment of any upplicant to hich is used to	

provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice	WSSP Notice	E&S Plan Notice	Well Plat Notice	is hereby provided to:
--------------------	-------------	-----------------	------------------	------------------------

SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name: See Attached	Name: See Attached
Address:	Address:
Name:	COAL OPERATOR
Address:	Name:
	Address:
SURFACE OWNER(s) (Road and/or Other Disturbance)	Address:
Name: See Attached	
Address:	AND/OR WATER PURVEYOR(s) MAY 1 7 2018
	Name Cos Allached
Name:	Address: WV Department of Environmental Protection
Address:	Environmental Protector
	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
☑ SURFACE OWNER(s) (Impoundments or Pits)	Name:
Name: See Attached	Address:
Address:	
	*Please attach additional forms if necessary

API NO. 47- 103 OPERATOR WELL NO. BIG245H16 Well Pad Name: BIG245 4710303235

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Departmentor the Berner of the Secretary at the WV Departmentor of the Secretary at the Secretary at the WV Departmentor of the Secretary at the Secreta and-gas/pages/default.aspx. MAY 1 7 2018

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured hor and the fifty feet measured hor demostic animal sector and the fifty feet measured hor demostic animal sector and the fifty feet measured hor demostic animal sector and the fifty feet measured hor demostic animal sector and the fifty feet measured hor demostic animal sector and the fifty feet measured hor demostic animal sector and the fifty feet measured hor demost and the fifty water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

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examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds (rlaging to 3 5 drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

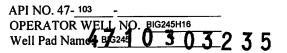
Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within the secretary days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) make the comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304 (304) 926-0450 MAY 17 2018 WV Department of Environmental Protection

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

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Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site <u>http://www.dep.wv.gov/oil-and-gas/Horizontal-</u> <u>Permits/Pages/default.aspx</u> and the applicant will automatically be forwarded an email notice that such comments have been

submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

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WW-6A (8-13)

API NO. 47- 103	-								
OPERATOR WE									
Well Pad Name:	B)G245	4	0	2	0	-7	0	-	-
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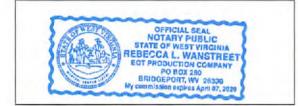
Notice is h	ereby given by:	5.
Well Opera	tor: EQT Production Company	1
Telephone:	304-848-0035	
Email: espin	e@eqt.com	

	5.	31	
- XI-	5	op	-

Address: 115 Professional Place PO Box 280 Bridgeport WV 26330 Facsimile: 304-848-0041

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at <u>depprivacyofficer@wv.gov</u>.

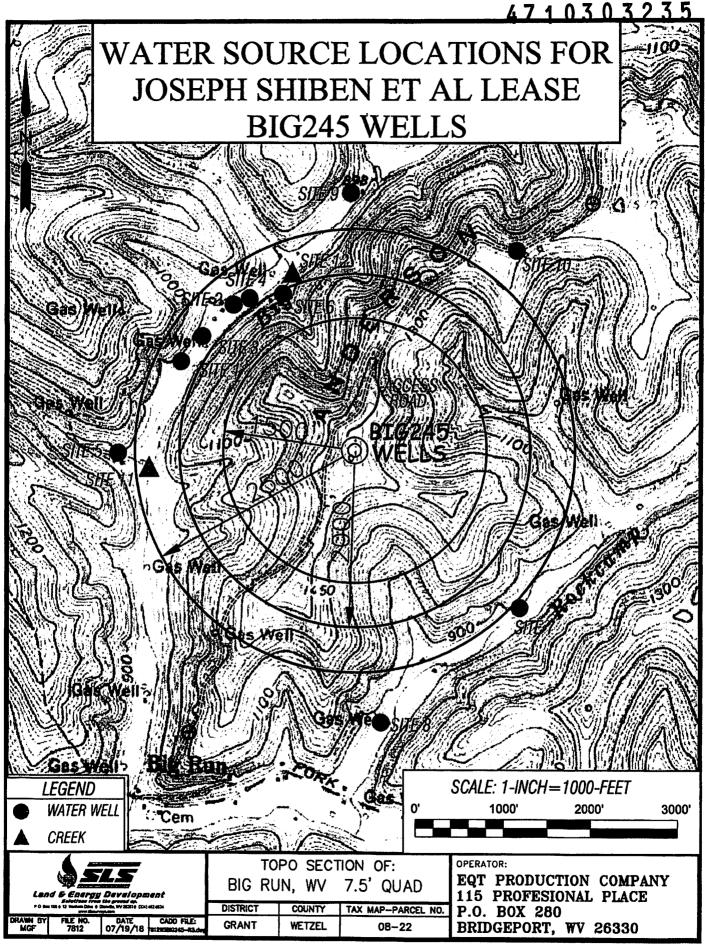


Subscribed and sworn before n	ne this 15 day of Mc	2018.
Beliecca XI	ian street	_ Notary Public
My Commission Expires	4.7-2020	

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MAY 17 2018

WV Department of Environmental Protection



Surface Owners:

ET Blue Grass LLC 625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222

Ikey J. Willey 12359 Willey Fork Road Pine Grove, WV 26419

Surface Owners (road or other disturbance):

ET Blue Grass LLC 625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222

Wanda L. Byard 1250 Meadowlane Drive Lewisport, KY 42351

Neal Utt 1204 Big Run Road Burton, WV 26562

Surface Owners (Pits or impoundments or AST):

ET Blue Grass LLC 625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222

Coal Owner

ET Blue Grass LLC 625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222

Western Pocahontas Properties LLC 5260 Irwin Road Huntington, WV 25705

CNX Land LLC Engineering Operations Support Dept. Coal 1000 Consol Energy Drive Canonsburg, PA 15317

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MAY 17 2018

WV Department of Environmental Protection

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08/03/2018

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

Rockcamp Run of Wiley Fork

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: Provided, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION

I, E.T. Bluegrass	LLC , hereby state that I have read	the Instructions to	Persons Na	med on Page WW-6A and the associated				
provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form								
WW-6A and attachments consisting of pages one (1) through, including the erosion and sediment control plan, if								
required, and the well plat, all for proposed well work on the tract of land as follows:								
State:	w		Easting:	537027.24				
County:	Wetzel	UTM NAD 83	Northing:	4382925.49				
District:	Grant	Public Road Acc	ess:	Rt. 19/2				
Ouadrangle:	Big Run	Generally used f	arm name.	ET Bluegrass IIC				

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

Ail and Cas Privacy Notice	Director, Drilling Land
OPERATOR OF ANY NATURAL GAS STORAGE FIELD	Signature: WV Depresent of Date: Jason M. Ramson Protection
□ WATER PURVEYOR	Signature: MAY 1 / Joins
COAL OPERATOR	Its: Director, Drilling Land
COAL OWNER OR LESSEE	FOR EXECUTION BY A CORPORATION, ETC. Company: E.T. Bluegrass LLC RECEIVED By: Jason Ranson Office of Oil and Gas
SURFACE OWNER (Impoundments/Pits)	
SURFACE OWNER (Road and/or Other Disturbance)	Print Name: Date:
SURFACE OWNER	Signature:
*Please check the box that applies	FOR EXECUTION BY A NATURAL PERSON

Watershed:

Oil and Gas Privacy Notice: The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Operator Well No.		BIG245H16						
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STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application. Date of Notice: 01/25/2018 Date Permit Application Filed: 02/04/2018

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

🛛 HAND	CERTIFIED MAIL
DELIVERY	RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: Provided, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: Provided, however, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name: See Attached	Name: See Attached
Address:	Address:

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	W	LITMANIAD 02	Easting:	537027.24	
County:	Wetzel	UTM NAD 83	Northing:	4382925.49	
District:	Grant	Public Road Ac	cess:	Rt. 19/2	
Quadrangle:	Big Run	Generally used t	farm name:	E.T. Bluegrass LLC	
Watershed:	Rockcamp Run of Wiley Fork				

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator:	EQT Production Company	Authorized Representative:	Erin Spine
Address:	115 Professional Place PO Box 280	Address:	115 Professional Place PO Box 280
Bridgeport WV 2633	30	Bridgeport WV 26330	
Telephone:	304-848-0035	Telephone:	304-848-0035 RECEIVED
Email:	espine@eqt.com	Email:	espine@eqt.com
Facsimile:	304-848-0041	Facsimile:	304-848-00MAY 17 2010

Oil and Gas Privacy Notice: The Office of Oil and Gas processes your personal information, such as name, address and telephone fumber, as part of our regulatory duties. Your personal information may be disclosed to util. duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Surface Owners:

ET Blue Grass LLC 625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222

Ikey J. Willey 12359 Willey Fork Road Pine Grove, WV 26419

Surface Owners (road or other disturbance):

ET Blue Grass LLC 625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222

Wanda L. Byard 1250 Meadowlane Drive Lewisport, KY 42351

Neal Utt 1204 Big Run Road Burton, WV 26562

Surface Owners (Pits or impoundments or AST):

ET Blue Grass LLC 625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222 4710303235

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STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

WAIVER

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: Provided, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: Provided, however, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Surface Owner Waiver:

I. E.T. Bluegrass LLC , hereby state that I have read the notice provisions listed above and hereby waive the notice requirements under West Virginia Code § 22-6A-16(b) for the tract of land as follows:

State: County:	w	UTMANAD 92	Easting:	537027.24	-	
	Wetzel	UTM NAD 83	Northing:	4382925.49		
District:	Grant	Public Road Acc	ess:	Rt. 19/2		
Quadrangle:	Big Run	Generally used fa	arm name:	E.T. Bluegrass LLC		
Watershed:	Rockcamp Run of Wiley Fork					
				11		
	Ranson- Director, Drilling Land	Signature:	4	95		
Address: 6251	Liberty Ave, Suite 1700		/ /			
Pittsburgh, PA 15222		Date:				
			Jason	M. Ranson		
			Director	Drilling Land		

Oil and Gas Privacy Notice:

And Attorney in Fact The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

RECEIVED Office of Oil and Gas MAY 17 2018 WV Department of Environmental Protection

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. 5 10 18 Date Permit Application Filed: 5/10/18 Date of Notice:

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

CERTIFIED MAIL	HAND
RETURN RECEIPT REQUESTED	DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name: See Attached	Name:		
Address:	Address:		

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	wv	UTM NAD 83 Easting:	537027.24	
County:	Wetzel	Northing:	4382925.49	
District:	Grant	Public Road Access:	Rt. 19/2	
Quadrangle:	Big Run	Generally used farm name:	E.T. Bluegrass LLC	
Watershed:	Rockcamp Run of Wiley Fork			

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-andgas/pages/default.aspx.

Vell Operator: EQT Production Company Address:	Address: 11	115 Professional Place PO Box 280RECEIVED		
Telephone:	304-848-0035	Br	ridgeport WV 26330	Office of On and the
Email:	espine@eqt.com	Facsimile: 30	04-848-0041	MAY 1 7 2018

Oil and Gas Privacy Notice:

Oil and Gas Privacy Notice: The Office of Oil and Gas processes your personal information, such as name, address and telephone with the protection www.bepartment.of duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Surface Owners:

ET Blue Grass LLC 625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222

Ikey J. Willey 12359 Willey Fork Road Pine Grove, WV 26419

Surface Owners (road or other disturbance):

ET Blue Grass LLC 625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222

Wanda L. Byard 1250 Meadowlane Drive Lewisport, KY 42351

Neal Utt 1204 Big Run Road Burton, WV 26562

Surface Owners (Pits or impoundments or AST):

ET Blue Grass LLC 625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222

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MAY 17 2018

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W Department of Environmental Protection

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: Provided, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION

I, E.T. Bluegra	ass LLC , hereby state that I have re	read the Instructions to Persons Named on Page WW-6A and the associate
provisions		of a Notice of Application, an Application for a Well Work Permit on Forr
WW-6A at	nd attachments consisting of pages one (1) th	through, including the erosion and sediment control plan,
required, an	nd the well plat, all for proposed well work on th	the tract of land as follows:
C		

State:	w	UTM NAD 83	Easting:	537027.24	
County:	Wetzel	UTM NAD 83	Northing:	4382925.49	
District:	Grant	Public Road Access: Generally used farm name:		Rt. 19/2	
Quadrangle:	Big Run			E.T. Bluegrass LLC	
Watershed:	Rockcamp Run of Wiley Fork				

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

*Please check the box that applies	FOR EXECUTION BY A NATURAL PERSON		
SURFACE OWNER	Signature:		
SURFACE OWNER (Road and/or Other Disturbance)	Print Name: Date:		
SURFACE OWNER (Impoundments/Pits)			
COAL OWNER OR LESSEE	FOR EXECUTION BY A CORPORATION, ETC. Company: E.T. Bluegress LLC Office of Oil and Gas		
COAL OPERATOR	Its: Director. Drilling Land MAY 1.7 2018		
□ WATER PURVEYOR	Signature: Wy Department of		
□ OPERATOR OF ANY NATURAL GAS STORAGE FIELD	Signature: Date: Jason M. Ranson Director, Drilling Land		
01-10-R	Director, Drilling Land		

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

08/03/2018



4710303235

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

Reissued July 18, 2018

Thomas J. Smith, P. E. Secretary of Transportation/ Commissioner of Highways

> Jill M. Newman Deputy Commissioner

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protection 601 57th Street, SE Charleston, WV 25304

Subject: DOH Permit for the BIG245 Pad Site, Wetzel County

	BIG245H1	BIG245H2	BIG245H3	BIG245H4		
	BIG245H5	BIG245H6	BIG245H7	BIG245H8		
	BIG245H9	BIG245H10	BIG245H11	BIG245H12		
	BIG245H13	BIG245H14	BIG245H15	BIG245H16		
	BIG245H17	BIG245H18	BIG245H19	BIG245H20		
	BIG245H21	BIG245H22	BIG245H23	BIG245H24		
	BIG245H25	BIG245H26	BIG245H27	BIG245H28		
	BIG245H29	BIG245H30				

Dear Mr. Martin,

This well site will be accessed from existing Permit # 06-2016-0430 issued to EQT Production Company for access to the State Road for a well site located off of Wetzel County Route 19/2 SLS.

The operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

Garý K. Clayton, P.E. Regional Maintenance Engineer Central Office O&G Coordinator

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JUL 25 2018

WV Department of Environmental Protection

Cc: Nick Bumgardner EQT Production Company CH, OM, D-6, File

E.E.O./AFFIRMATIVE ACTION EMPLOYER

103-03235

Anticipated Frac Additives Chemical Names and CAS numbers

<u>Material</u>	Ingredient	CA5 Number
Water		
Sand Hydrotreated light petroleum distillate Tributyl tetradecyl phosphonium		14808-60-7
Friction Reducer	chloride	64742-47-8
Biocide	Ammonium chloride	81741-28-8
Scale Inhibitor	Hydrochloric Acid	12125-02-9
15% Hydrochloric Acid	Propargyl Alcohol	7647-01-0
Corrosion Inhibitor	Methanol	107-19-7
Corrosion Inhibitor	Guar Gum	67-56-1
Gelling Agent	Sodium Persulfate	9000-30-0
Oxidizing Breaker	Potassium Carbonate	7775-27-1
Buffering Agent		584-08-7

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DMH 5-18-18

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MAY 2 5 2018

WV Department of Environmental Protection

EQT BIG 245 SITE PLAN PROJECT INFORMATION APPROVED EQT PRODUCTION COMPANY ENCLED NAMELEGT BIG 211 U TAX PARCEL: DRANT DISTRICT, WEIZEL COUNTY, WY MAP DE PARCELS 06: 14, 21, 22 T IN THE PARTY OF Stante WVDEP OOG EURFACE COMIER PERMITTED WELL NO. WV 514365, API 47-103-03154 PROPOSED WELL NO. BIG245H1 WANDA L. BY ARD MAP RE, PARCEL DR DRANT DISTRICT, WETZEL, COUNTY, V 13 7 25 2018 BIG245H2, BIG245H3, BIG245H4, BIG245H5, BIG245H6, BIG245H7, BIG245H8, BIG245H9, TOTAL PROPERTY AREA. SILLE * ACRES BIG245H10. BIG245H11. BIG245H12. BIG245H14. BIG245H15. BIG245H16. BIG245H17 TUTAL DISTURBANCE AREA 4.05 +CACRES MEAL JITT MAP OS DADREL 14 MAP 08, PARGEL 14 THANT DISTRICT WEITHEL COUNTY, WY TOTAL PROPERTY AREA 51,0 V-ACHES TOTAL DISTURBANCE AREA 51,0 V-ACHES 0 SITUATED ON THE WATERS OF BIG RUN. A TRIBUTARY OF LIST OF DRAWINGS WILLEY FORK.GRANT DISTRICT. WETZEL COUNTY. 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STATE REGULATORY AGENCIES PRIOR TO ANY PROPOSE 5 IMPACTS TO WATERS OF THE U.S. IVOLUDING WETLAND FILLS AND STREAM CROSSINGS. 5. THERE ARE NO AURICUL TURAL BUILDING LURGES TVAN MOTOQUARE FEET OF THE CENTER OF THE FAD. 111 ELKINS STREET PO ECX 150 DESIGNETS CALL DHUCKUD CAL REVIEWED FLO P.C. BCX 280 BRIDGEPORT WY 26510 226 WEST MARY STREET It's that of West Virginia IT'S THE LAWIT (H-CINE (201) 387-0401 CLEDWILLE WAL26351 PHONE (304) 548-3870 PHONE: 1641402-5634 THE NO LEADER A STATE DESCRIPTION OF THE AL are solars

