



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

Jim Justice , Governor
Austin Caperton , Cabinet Secretary
www.dep.wv.gov

Tuesday, February 28, 2017
WELL WORK PERMIT
Horizontal 6A / New Drill

EQT PRODUCTION COMPANY (A)
120 PROFESSIONAL PLACE
BUILDING II
BRIDGEPORT, WV 26330

Re: Permit approval for 514368
47-103-03175-00-00

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

Operator's Well Number: 514368
Farm Name: E. T. BLUE GRASS LLC
U.S. WELL NUMBER: 47-103-03175-00-00
Horizontal 6A / New Drill
Date Issued: 2/28/2017

Promoting a healthy environment.

03/03/2017

PERMIT CONDITIONS^{47 100 05105}

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

1. 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.

PERMIT CONDITIONS 47 1 0 3 0 3 1 7 5

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.



west virginia department of environmental protection

Shallow Gas Well Review Board
601 57th Street, SE Charleston, WV 25304
(304)926-0499, Ext 1656

Jim Justice, Governor
Barry K Lay, Chairman

BEFORE THE SHALLOW GAS WELL REVIEW BOARD
OF THE STATE OF WEST VIRGINIA

IN THE MATTER OF THE OBJECTIONS FROM WESTERN
POCAHONTAS PROPERTIES, LP REGARDING THE
DRILLING BY EQT PRODUCTION COMPANY FOR THE
PROPOSED WELLS IDENTIFIED AS THE BIG 209 #515590
AND #515591 TO BE LOCATED IN GRANT DISTRICT,
WETZEL COUNTY, WEST VIRGINIA.

DOCKET NO. 254
ORDER NO. 1

AND

IN THE MATTER OF THE OBJECTIONS FROM WESTERN
POCAHONTAS PROPERTIES, LP REGARDING THE
DRILLING BY EQT PRODUCTION COMPANY FOR THE
PROPOSED WELLS IDENTIFIED AS THE BIG 245 #514366,
#514367, #514368 AND #514369 TO BE LOCATED IN GRANT
DISTRICT, WETZEL COUNTY, WEST VIRGINIA.

DOCKET NO. 255
ORDER NO. 1

ORDER

These matters came on for hearing on January 5, 2017, on the objection of Western Pocahontas Properties, LP (“WPP”) to oil and gas well permits submitted to the West Virginia Department of Environmental Protection (“WV DEP”) by EQT Production Company (“EQT”). With the agreement of the parties, Dockets 254 and 255 were consolidated for purposes of the statutorily required settlement conference, and failing settlement, for hearing.

Specifically, EQT submitted the following applications:

- a. With respect to wells to be drilled on the Big 209 drilling pad to be located in Grant District, Wetzel County, West Virginia, EQT submitted applications for Well Numbers 515590 (API No. 47-103-03160) and 515591 (API No. 47-103-03161) (the “Big 209 Wells”); and

b. With respect to wells to be drilled on the Big 245 drilling pad to be located in Grant District, Wetzel County, West Virginia, EQT submitted applications for Well Numbers 514366 (API No. 47-103-03173), 514367 (API No. 47-103-03174), 514368 (API No. 47-103-03175), and 514369 (API No. 47-103-03176) to be located in Grant District, Wetzel County, West Virginia (the "Big 245 Wells").

WPP objected to all of the foregoing permit applications. At the pre-hearing conference, the Parties reached an agreement to resolve these matters, as follows:

1. EQT cancels and withdraws the pending permit applications for the Big 209 Wells.
2. WPP cancels and withdraws its objections to the pending permit applications for the Big 245 Wells.

The Board having no objection to the agreement of the parties, does hereby ORDER that the permit applications for Big 209 Wells, Well Numbers 515590 (API No. 47-103-03160) and 515591 (API No. 47-103-03161), are withdrawn and cancelled.

The Board further Orders that the permit applications for the Big 245 Wells, being Well Numbers 514366 (API No. 47-103-03173), 514367 (API No. 47-103-03174), 514368 (API No. 47-103-03175), and 514369 (API No. 47-103-03176) are hereby REMANDED to the West Virginia Department of Environmental Protection Office of Oil and Gas for review.

Dated this 31st day of January, 2017.

47-103-03173

SHALLOW GAS WELL REVIEW BOARD

By: Barry K. Lay
Barry K. Lay, Chairman

03/03/2017



Western Pocahontas Properties

Limited Partnership

5260 Irwin Road
Huntington, WV 25705-3247
304-522-5757 • Fax 304-522-5401; 304-302-2370

Certified Mail
No. 7015 1730 0000 4756 7384

November 21, 2016
File: 42-09

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

Re: EQT Production Company
Notice of Permit Application for the following BIG 245 gas wells:

- Well No. 514366, Grant District, Wetzel County – Marcellus Formation 47-103-03173 11/9
- Well No. 514367, Grant District, Wetzel County – Marcellus Formation 47-103-03174 11/9
- Well No. 514368, Grant District, Wetzel County – Marcellus Formation 47-103-03175 11/9
- Well No. 514369, Grant District, Wetzel County – Marcellus Formation 47-103-03176 11/9

Dear Mr. Martin:

Western Pocahontas Properties Limited Partnership respectfully objects to the drilling of the wells represented by the above referenced well drilling applications at this time, pending an opportunity to discuss the well applications in detail with EQT Production Company.

Subject wells are all planned into the Marcellus Formation in close proximity to existing wells (situated within 1500' spacing) and will have a substantial impact to our coal reserves and future mineability. The proposed gas wells are planned in an area of proven Coal Reserves. The gas wells, as proposed will interfere with the development of our Pittsburgh Seam of coal which is currently being developed in the surrounding area and would interfere with the future development of the Pittsburgh Seam of coal in this area.

Western Pocahontas is seeking a dialog with EQT for locating and approving future wells to include a methodology addressing relocation and or mine-through procedures relating to the future development of our coal reserves.

Respectfully submitted,

George Angus
MGT

George Angus
Vice President & Regional Manager

cc: Rick Johnson, GISP, RL
Landman - Coal
EQT Production - Land Department
Building 1 - Schedule 'A'
15 Professional Place
P.O. Box 280
Bridgeport, WV 26330

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

1) Well Operator: EQT Production Company 306686 Wetzel Grant Big Run
Operator ID County District Quadrangle

2) Operator's Well Number: 514368 Well Pad Name: BIG245

3) Farm Name/Surface Owner: E.T. Blue Grass LLC Public Road Access: Rt 19/2

4) Elevation, current ground: 1480 Elevation, proposed post-construction: 1430

5) Well Type (a) Gas Oil Underground Storage
Other

(b) If Gas Shallow Deep
Horizontal

6) Existing Pad: Yes or No no

DMH
11-14-16

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 7532, 53, 2620 PSI, Top of Marcellus 7511

8) Proposed Total Vertical Depth: 7532

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 14082

11) Proposed Horizontal Leg Length: 5261

12) Approximate Fresh Water Strata Depths: 229, 507, 662, 752, 1011

13) Method to Determine Fresh Water Depths: From offset wells

14) Approximate Saltwater Depths: None

15) Approximate Coal Seam Depths: 925, 1024, 1123

16) Approximate Depth to Possible Void (coal mine, karst, other): None

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes No

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

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18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	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	14082	14082	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							

*DMIT
11-14-16*

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20	26	.375	1378	1102	Class A	1.18
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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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 3969'. Kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

*DWH
11-17-16*

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 200,000 barrels of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 200,000 pounds of sand per stage.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 36.41

22) Area to be disturbed for well pad only, less access road (acres): 32.63

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 slurries. .25% Flake Loss Circulation Material (LCM) is used to combat the loss of the cement slurry to a thief zone.
Intermediate (Type 1 Cement): 0-3% Calcium Chloride. Salt is used in shallow, low temperature formations to speed the setting of cement slurries. 0.25% flake. Loss Circulation Material (LCM) is used to combat the loss of whole drilling fluid or cement slurry (not filtrate) to a thief zone.
Production:
Lead (Type H Cement): 0.2% CD-20 (dispersant makes cement easier to mix). .15% SuperFL-300 (fluid loss/lengthens thickening time) .15% SEC-10 (fluid loss) 50:50 POZ (extender)
Tail (Type H Cement): 0.2% Super CR-1 (Retarder). Lengthens thickening time. .3% Super FL-200 (fluid loss) .2% SEC-10 (Fluid loss). .2% SuperFL-350 (fluid loss) Reduces amount of water lost to formation.
60 % Calcium Carbonate. 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.

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

11/8/16

4710305175

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WV Department of
Environmental Protection

03/03/2017

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: 514366, 514367, 514368, 514369

Due to the requirements under 35CSR8 5.11, the permittee is required to review the area surrounding the proposed well pad so as to identify and evaluate potential conduits for unintended fracture propagation. A report is required to be submitted along with a well work permit application.

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

1. Communications with Well Operators

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

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

EQT will recommend to these operators at a minimum to:

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

2. Reporting

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

Well ID	WellStatus	Comp Date	Permit	Operator	Latitude	Longitude	Datum Eleva	SS Depth	TotalDepth	
4710300331	GAS	11/17/1903	00331	PGH & WV GAS	39.588300	-80.568000		1109	-1176	2285
4710300372	GAS-P	3/10/1951	00372	FOSTER MCKENZIE	39.591700	-80.577300		842		
4710300376	GAS	4/11/1952	00376	P C MCKENZIE	39.590700	-80.569800		1265		
4710300380	DRY	5/23/1952	00380	P C MCKENZIE	39.596200	-80.571400		1267		
4710300495	STORAGE	3/15/1963	00495	EPC	39.589000	-80.567800		1109	-1011	2120
47103FC8	P&A		FC8	UNK	39.584100	-80.574400				
47103003710000	GAS-CB	2/1/1951	00371	J C R PETROLEUM INCORPORATED	39.588715	-80.575575		825		530 CONEMAUGH /SERIES/
47103004930000	ABD-GW	12/30/1915	00493	EQUITABLE GAS COMPANY	39.588872	-80.574319		1163		2234 BIG INJUN /SD/
47103004960000	ABD-GW	8/4/1902	00496	PITTSBURGH & W VA GAS	39.586405	-80.567188		844		2785 HAMPSHIRE
47103005090000	ABD-GW	8/4/1919	00509	DUNN-MAR OIL & GAS COMPANY	39.585976	-80.560835		1155		3243 CHEMUNG
47103005200000	ABD-GW	8/2/1919	00520	HOPE NATURAL GAS	39.579415	-80.557138		937		2025 BIG INJUN /SD/
47103005240000	GAS	4/5/1919	00524	EQUITABLE GAS COMPANY	39.584808	-80.556866		972		2882 CHEMUNG
47103005330000	ABD-GW	12/11/1902	00533	PITTSBURGH & W VA GAS	39.584071	-80.568456		829		1928 POCONO
47103005660000	GAS-CB	1/1/1965	00566	J C R PETROLEUM INCORPORATED	39.589598	-80.576384		880		548 CONEMAUGH /SERIES/
47103309890000	ABD-GW	1/17/1917	30989	CARNEGIE NATURAL GAS CORPORATION	39.578108	-80.545784		1200		3221 HURON LOWER
47103005220000	UNKWV		00522	UNKNOWN	39.587566	-80.556866		1214		3154 CHEMUNG
47103005290000	GSTG	5/1/1963	00529	EQUITABLE GAS COMPANY	39.577815	-80.549603		1200		3228 FIFTH SAND
47103031520000	PERMIT		03152	EQT PRODUCTION COMPANY	39.595246	-80.568931		1430		
47103005310000	PSEUDO		00531	EQUITABLE GAS COMPANY	39.577092	-80.553953		1098		
47103008410000	PSEUDO		00841	UNKNOWN	39.598294	-80.560775				
47103011450000	PSEUDO		01145	MEADOW RIDGE DEVELOPMENT LLC	39.583043	-80.558152				
47103301190000	PSEUDO		30119	CARNEGIE NATURAL GAS CORPORATION	39.597714	-80.555904				
47103311450000	PSEUDO		31145	EQUITABLE GAS COMPANY	39.582608	-80.558637				
47103702670000	PSEUDO		70267	HOPE NATURAL GAS	39.589006	-80.557028				
47103704190000	PSEUDO		70419	HOPE NATURAL GAS	39.590457	-80.577635				
47103704230000	PSEUDO		70423	PHILADELPHIA OIL	39.583781	-80.566957				
47103003760000	GAS-CB	4/1/1952	00376	J C R PETROLEUM INCORPORATED	39.592356	-80.572067		1265		1008 CONEMAUGH /SERIES/
47103003800000	D&A-OG	5/1/1952	00380	UNKNOWN	39.593662	-80.573006		1267		1185 CONEMAUGH /SERIES/
47103004570000	D&A-G	1/1/1958	00457	UNKNOWN	39.584228	-80.566062		1108		859 AMES /LM/
47103004510000	ABD-CB	7/1/1957	00451	NORTH FORK DEVELOPMENT	39.582898	-80.566505		817		529 PENNSYLVANIAN
47103004520000	GAS-CB	8/1/1957	00452	NORTH FORK DEVELOPMENT	39.584072	-80.563459		886		614 PITTSBURGH COAL
47103004940000	GSTG		00494	EQUITABLE GAS COMPANY	39.586260	-80.573381		1086		2088 CHEMUNG
47103004990000	GSTG		00499	EQUITABLE GAS COMPANY	39.582898	-80.569315		923		2712 CHEMUNG
47103005340000	GSTG		00534	EQUITABLE GAS COMPANY	39.582608	-80.559011		1067		2880 CHEMUNG
47103008840000	GSTG		00884	UNKNOWN	39.592199	-80.568269		1167		
47103005140000	GSTG	5/1/1962	00514	J A & M OIL & GAS	39.592630	-80.561681		1107		BIG INJUN /SD/
47103005230000	GSTG	1/1/1963	00523	EQUITABLE GAS COMPANY	39.581035	-80.556866		846		BIG INJUN /SD/
47103304200000	ABD-OW	2/16/1918	30420	UNKNOWN	39.598016	-80.556303		1310		3226 HURON LOWER
47103719380000	UNKWV		71938	HOPE NATURAL GAS	39.585232	-80.554406				
47103719390000	UNKWV		71939	UNKNOWN	39.591328	-80.576324				
47103008840001	D&A	11/7/1989	00884	EQUITRANS INCORPORATED	39.592199	-80.568269		1167		2211 GREENBRIER /LM/

NO PERFORATION DATA ON IHS

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Well 514368(BIG245H7)

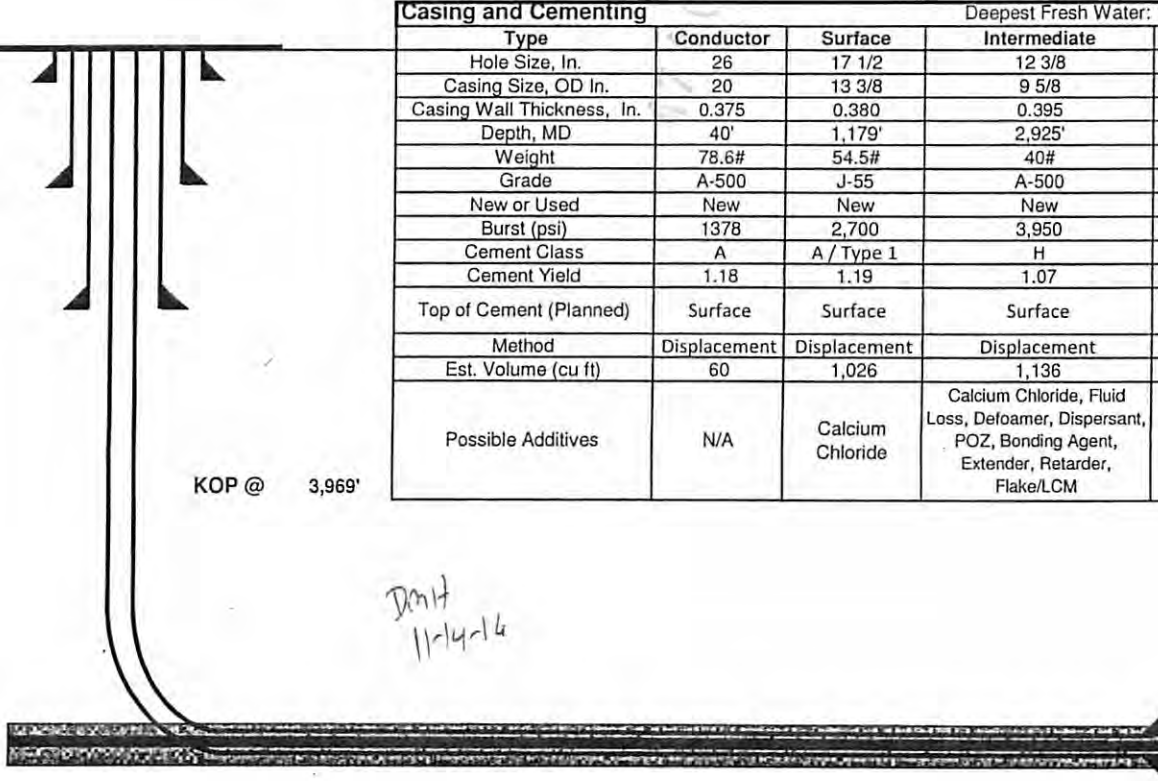
EQT Production
Big Run Quad
Wetzel County, WV

Azimuth 157
Vertical Section 4540

Note: Diagram is not to scale

4710303175

Formations	Top TVD	Base TVD
Conductor	40	
Base Red Rock	967	
Base Fresh Water	1011	
Surface Casing	1179	
Maxton	2332 - 2426	
Big Lime	2463 - 2659	
Weir	2783 - 2875	
Intermediate Casing	2925	
Gantz	2982 - 3055	
Fifty foot	3108 - 3161	
Thirty foot	3195 - 3234	
Gordon	3249 - 3297	
Forth Sand	3307 - 3320	
Bayard	3124 - 3486	
Warren	3884 - 3931	
Speechley	4034 - 4067	
Riley	4897 - 4939	
Benson	5529 - 5586	
Alexander	5882 - 5941	
Sonyea	7087 - 7241	
Middlesex	7241 - 7287	
Genesee	7287 - 7370	
Genesee	7370 - 7403	
Tully	7403 - 7421	
Hamilton	7421 - 7511	
Marcellus	7511 - 7564	
Production Casing	14082 MD	
Onondaga	7564	



Casing and Cementing				Deepest Fresh Water: 1,011'
Type	Conductor	Surface	Intermediate	Production
Hole Size, In.	26	17 1/2	12 3/8	8 1/2
Casing Size, OD In.	20	13 3/8	9 5/8	5 1/2
Casing Wall Thickness, In.	0.375	0.380	0.395	0.361
Depth, MD	40'	1,179'	2,925'	14,082'
Weight	78.6#	54.5#	40#	20#
Grade	A-500	J-55	A-500	P-11
New or Used	New	New	New	New
Burst (psi)	1378	2,700	3,950	12,640
Cement Class	A	A / Type 1	H	H
Cement Yield	1.18	1.19	1.07	1.123/2.098
Top of Cement (Planned)	Surface	Surface	Surface	500' above top Producing Zone
Method	Displacement	Displacement	Displacement	Displacement
Est. Volume (cu ft)	60	1,026	1,136	1,646
Possible Additives	N/A	Calcium Chloride	Calcium Chloride, Fluid Loss, Defoamer, Dispersant, POZ, Bonding Agent, Extender, Retarder, Flake/LCM	Calcium Carbonate, Fluid Loss, Extender, Dispersant, Viscosifier, Defoamer, POZ, Bonding Agent, Retarder, Anti-Settling/Suspension Agent

Office of Oil & Gas
NOV 17 2016

DMH
11-14-16

Land curve @ 7,532' TVD 8,821' MD Est. TD @ 7,532' TVD 14,082' MD



Proposed Well Work:
Drill and complete a new horizontal well in the Marcellus formation.
Drill the vertical to an approximate depth of 3969'.
Kick off and drill curve. Drill lateral in the Marcellus. Cement casing.

5,261' Lateral



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,

James Peterson
Environmental Resources Specialist / Permitting

Promoting a healthy environment.

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WV Department of
Environmental Protection

03/03/2017



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304
(304) 926-0450
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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**

IN THE MATTER OF A VARIANCE FROM) ORDER NO. 2014 - 17
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)

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.

Promoting a healthy environment.

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Environmental Protection
03/03/2017

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

4710305175

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WV Department of
Environmental Protection

03/03/2017

WW-9
(4/16)

47 10303175

API Number 47 - 103 -
Operator's Well No. 514368

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name EQT Production Company OP Code 306686

Watershed (HUC 10) Rockcamp Run of Wiley Fork Quadrangle Big Run

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: N/A

Will a synthetic liner be used in the pit? Yes No If so, what ml.?

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number 0014, 8462, 4037)
- Reuse (at API Number Various)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

DAH
11-14-16

Will closed loop system be used? If so, describe: Yes. The closed loop system will remove drill cuttings from the drilling fluid. The drill cuttings are then prepared for transportation to an off-site disposal facility. _____

Drilling medium anticipated for this well (vertical and horizontal)? 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, removed offsite, etc. Landfill

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-Landfill or offsite name/permit number? See Attached 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 *Victoria J. Roark*

Company Official (Typed Name) Victoria J. Roark

Company Official Title Permitting Supervisor

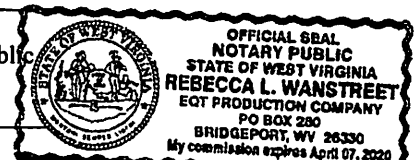
Received
Office of Oil & Gas

NOV 17 2016

Subscribed and sworn before me this 13 day of October, 2016

Rebecca L. Wanstreet Notary Public

My commission expires 4-7-2020



03/03/2017

EQT, Production Company

4710303175

Proposed Revegetation Treatment: Acres Disturbed 32.63 Prevegetation pH 6.3

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type Granular 10-20-20

Fertilizer amount 1/3 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		

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.

Plan Approved by: [Signature]

Comments: [Blank lines for notes]

Title: Oil & Gas Inspector Date: 11-14-16

Field Reviewed? (X) Yes () No

Received Office of Oil & Gas NOV 17 2016

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.

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WV Department of
Environmental Protection
03/03/2017



October 11, 2016

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,

A handwritten signature in blue ink, appearing to read 'Vicki L'.

Vicki Roark
Permitting Supervisor

Enc.

4770505112

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

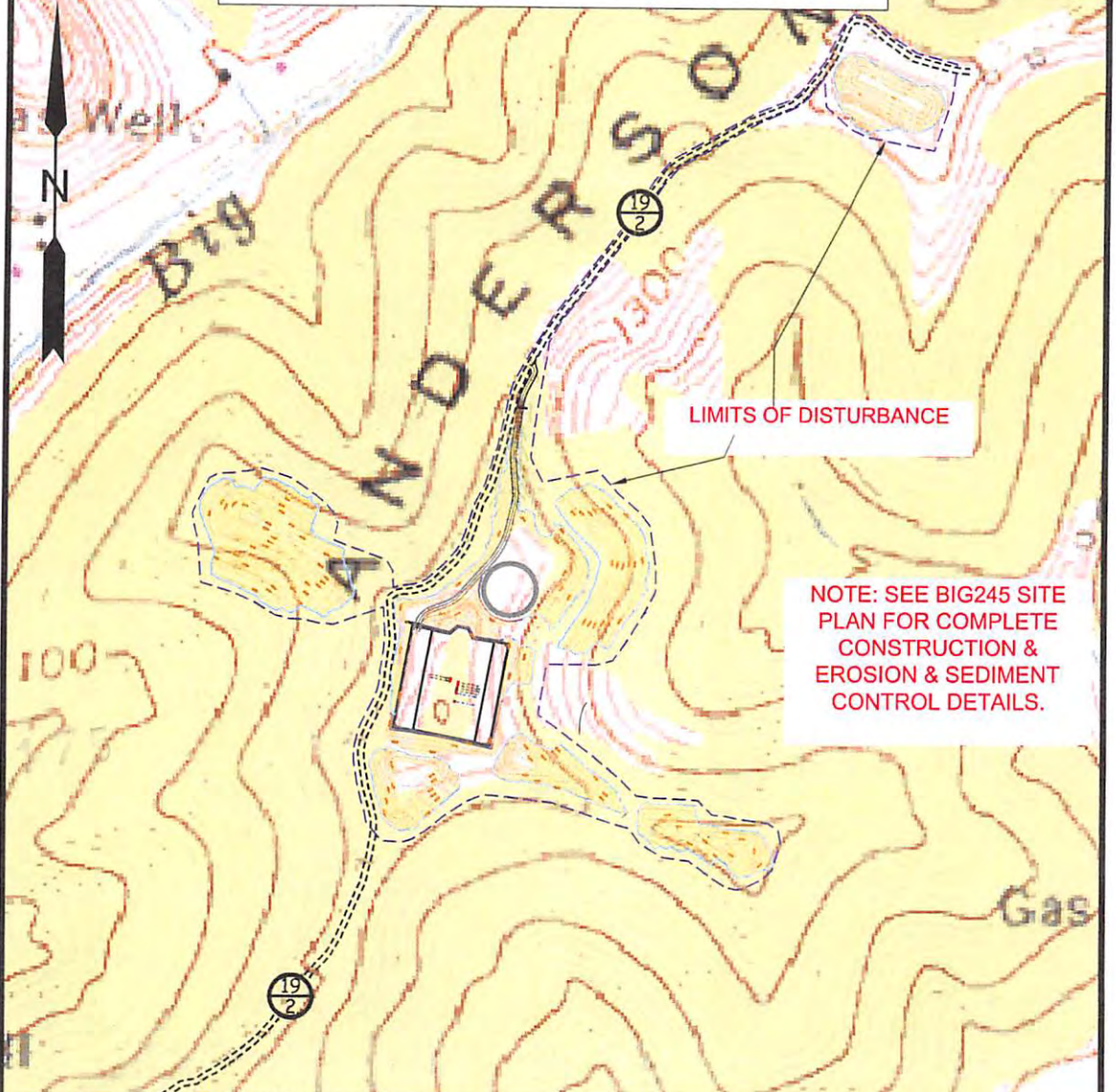
KING EXCAVATING CO.

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

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**WV Department of
Environmental Protection**
03/03/2017



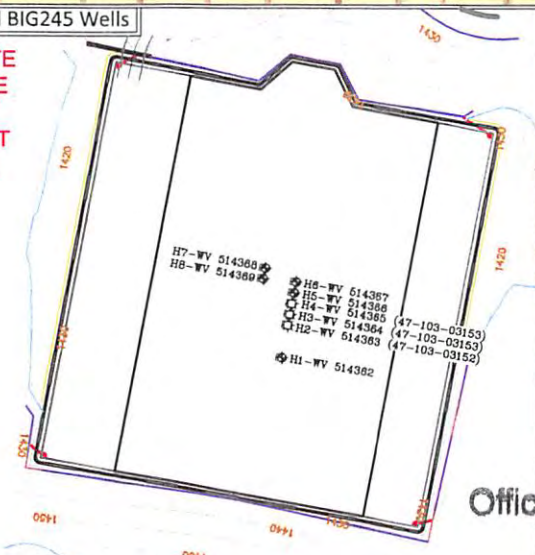
LIMITS OF DISTURBANCE

NOTE: SEE BIG245 SITE PLAN FOR COMPLETE CONSTRUCTION & EROSION & SEDIMENT CONTROL DETAILS.

4710303

Detail Sketch for Proposed BIG245 Wells

NOTE: SEE BIG245 SITE PLAN FOR COMPLETE CONSTRUCTION & EROSION & SEDIMENT CONTROL DETAILS.



Not To Scale

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 www.slsenergy.com

DRAWN BY: K. D. W.	FILE NO. 7812	DATE 11-08-16	CADD FILE: 781286245REDPLAN.dwg
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SCALE: 1" = 500'

Environmental Protection

TOPO SECTION OF BIG RUN
USGS TOPO QUADRANGLE

08/03/2017



4710303175

Where energy meets innovation.™

Site Specific Safety Plan

EQT BIG 245 Pad

Burton
Wetzel County, WV

For Wells:

514366

514367

514368

514369

[Signature]

EQT Production

[Signature]
Permitting Supervisor
Title

Date

10-13-16

Date Prepared:

April 4, 2016

[Signature]
WV Oil and Gas Inspector

[Signature]
Oil + Gas Inspector
Title

Date

11-14-16

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Office of Oil & Gas

NOV 17 2016

03/03/2017

Anticipated Frac Additives
Chemical Names and CAS numbers

47 1 0 3 0 3 1 7 5

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

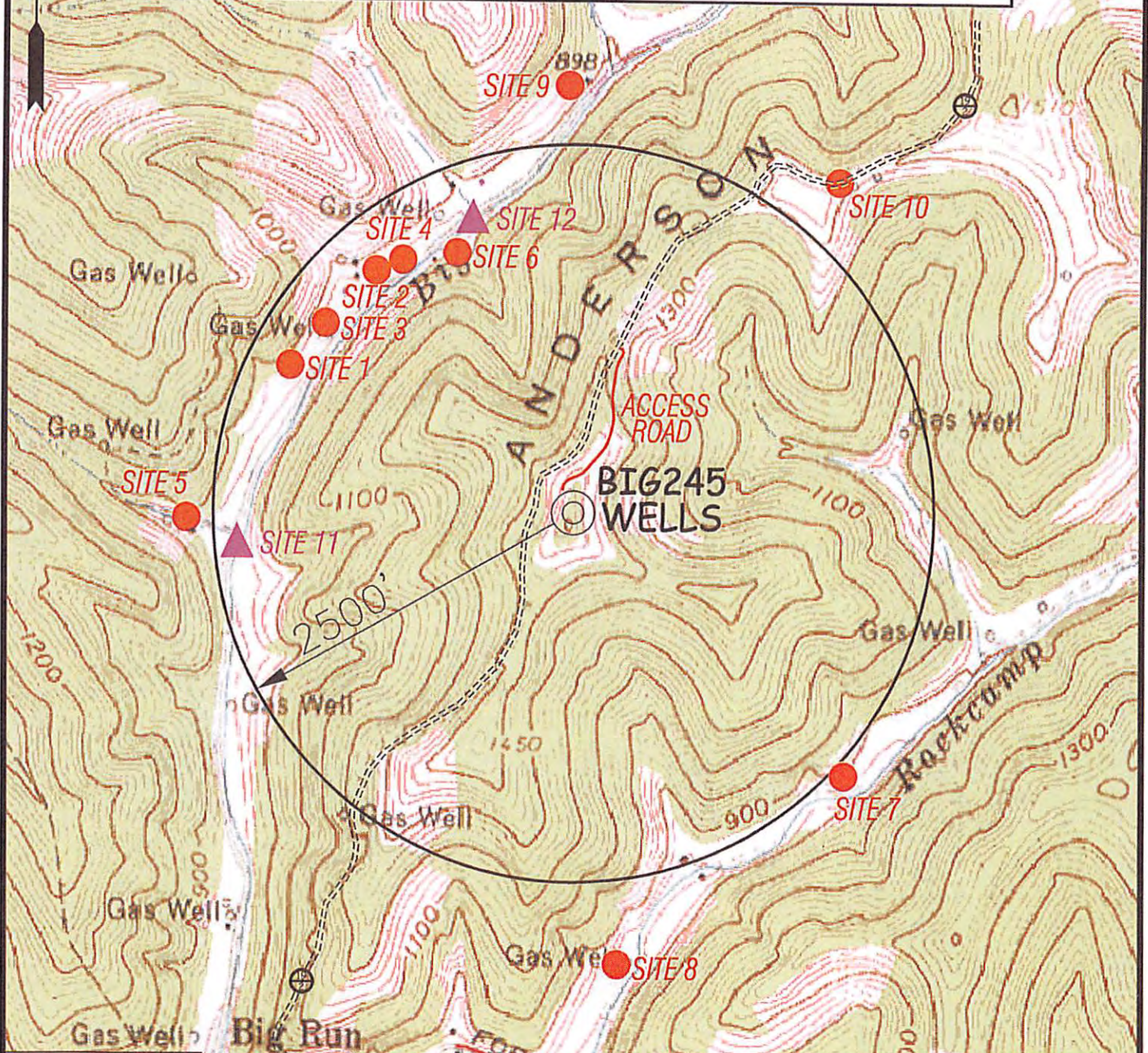
DAM
11-14-16

Received
Office of Oil & Gas

NOV 17 2016

03/03/2017

WATER SOURCE LOCATIONS FOR JOSEPH SHIBEN ET AL LEASE BIG245 WELLS



LEGEND

- WATER WELL
- ▲ CREEK

SCALE: 1-INCH=1000-FEET

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Solutions from the ground up.
P.O. Box 150 • 12 Vannoy Drive • Columbia, WV 25701 • 304.462.5034
www.slsusa.com

DRAWN BY: K.D.W.
FILE NO.: 7812
DATE: 11/08/16
CADD FILE: 7812WSBG245-R.dwg

TOPO SECTION OF:
BIG RUN, WV 7.5' QUAD

DISTRICT	COUNTY	TAX MAP-PARCEL NO.
GRANT	WETZEL	08-22

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Office of Oil and Gas
EQT PRODUCTION COMPANY
115 PROFESSIONAL PLACE
P.O. BOX 280
BRIDGEPORT, WV 26330

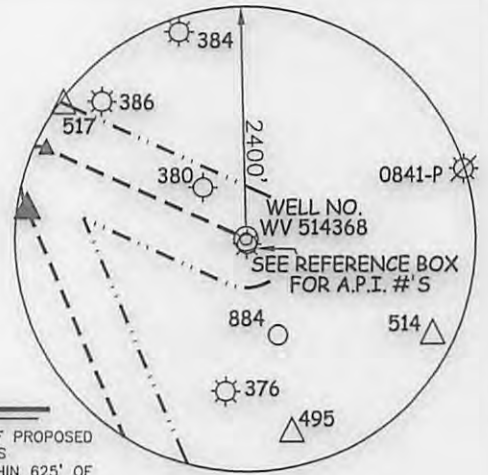
NOV 09 2016
WV Department of
Environmental Protection

03/03/2017

BIG245
WV 514368
EQT PRODUCTION COMPANY

G-TM-3-30	THOMAS & CHERYL LEASURE	51.80 ACRES±
G-TM-8-1	DANNY STOCKSLAGER ET AL	170 ACRES±
G-TM-8-2	MIKE & MADELINE WHITE	40.13 ACRES±
G-TM-8-7	JAMES & MARTIN STONEKING	19.12 ACRES±
G-TM-8-8	WANDA BYARD	59.16 ACRES±
G-TM-8-8.1	GARNET GAS CORPORATION	0.47 ACRES±
G-TM-8-10	GARLAND MINOR	48.1 ACRES±
G-TM-8-11	BONNIE HENTHORNE	63.5 ACRES±
G-TM-8-12	SHIRLEY TITUS	41.9 ACRES±
G-TM-8-12.1	DALH SAPP ET AL	10.1 ACRES±
G-TM-8-13	NEAL UTT	3.75 ACRES±
G-TM-8-13.1	DUANE GOODRICH	3.56 ACRES±
G-TM-8-14	NEAL UTT	51 ACRES±
G-TM-8-15	JOHN M. BYARD	71.60 ACRES±
G-TM-8-18	COASTAL FOREST RESOURCES CO. d/b/a COASTAL TIMBERLANDS CO.	337 ACRES±
G-TM-8-19	PHILLIP & KIMBERLY SHREVE	46.45 ACRES±
G-TM-8-21	IKBY JOE WILLEY	76.27 ACRES±
G-TM-8-22	ET BLUE GRASS LLC	138.93 ACRES±
G-TM-8-23	DALE DULANEY ET AL	70.81 ACRES±
G-TM-8-23.1	JAMES DULANEY	3.19 ACRES±
G-TM-8-24	DORN HIGGINBOTHAM ET AL	7.1 ACRES±
G-TM-8-25	JAMES YOHO	6.25 ACRES±
G-TM-8-26	JAMES YOHO	23.25 ACRES±
G-TM-8-27	JAMES YOHO	21.75 ACRES±
G-TM-8-28	JAMES & FLORENCE YOHO	61 ACRES±
G-TM-8-30	JAMES & JIM YOHO	7.50 ACRES±
G-TM-8-32	JOE PIGG	82.4 ACRES±
G-TM-8-38	DALE & SHERRY DULANEY	28.82 ACRES±
G-TM-8-38.1	JAMES DULANEY	0.137 ACRES±
G-TM-8-39	DORN HIGGINBOTHAM ET AL	23.62 ACRES±
G-TM-8-39.1	HENRY WILLEY	0.12 ACRES±
G-TM-8-40	JAMES & JIM YOHO	0.50 ACRES±
G-TM-8-41	DORN HIGGINBOTHAM ET AL	72 SQ. RODS±
G-TM-8-44	ELIAS LEASURE JR	1.6 ACRES±
G-TM-8-51	HENRY WILLEY	2.34 ACRES±
G-TM-8-51.1	HENRY WILLEY	0.19 ACRES±
G-TM-8-51.2	GERALD & EMMA WHITE	2.82 ACRES±
G-TM-8-52	HENRY WILLEY	0.26 ACRES±
G-TM-8-53	DORN HIGGINBOTHAM	196.21 ACRES±
G-TM-8-55	MANSEL McDIFFITT ET AL	9.25 ACRES±
G-TM-13-07	MANSEL McDIFFITT ET AL	51.8 ACRES±
G-TM-13-08	ROBERT & ALFRED COLE	36 ACRES±
G-TM-13-09	MARY HIGGINBOTHAM	30.1 ACRES±
G-TM-13-17	MARY HIGGINBOTHAM	112 ACRES±

ROYALTY OWNERS		
SHIBEN ESTATES, INC. ET AL	160 AC±	LEASE NO. 102836
DEWEY J. TAYLOR ET AL	3 AC±	LEASE NO. 125370
MARGARET DOUGLAS MASTIN ELROD ET AL	52 AC±	LEASE NO. 125430
BONNIE M. HENTHORNE	64 AC±	LEASE NO. 125426
ACROPOLIS INC. ET AL	74 AC±	LEASE NO. 121160
TRIO PETROLEUM AND WACO OIL & GAS	26 AC±	LEASE NO. 125383
FREDRIC G. RICHTER ET AL	40 AC±	LEASE NO. 106285
ERNA E. SOLE JR.	10 AC±	LEASE NO. 125369



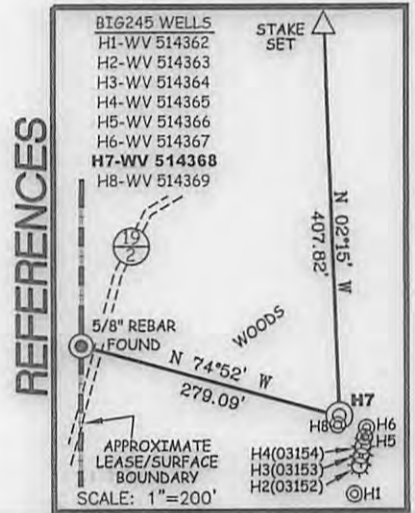
NOTES ON SURVEY

1. NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
2. WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'.

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD'27 S.P.C.(FT)	N. 400,756.18	E. 1,698,760.82
NAD'27 GEO.	LAT-(N) 39.595388	LONG-(W) 80.569007
NAD'83 UTM (M)	N. 4,382,948.80	E. 537,021.90
LANDING POINT		
NAD'27 S.P.C.(FT)	N. 401,064.77	E. 1,696,488.05
NAD'27 GEO.	LAT-(N) 39.596161	LONG-(W) 80.577084
NAD'83 UTM (M)	N. 4,383,031.23	E. 536,327.90
BOTTOM HOLE		
NAD'27 S.P.C.(FT)	N. 396,221.75	E. 1,698,543.83
NAD'27 GEO.	LAT-(N) 39.582933	LONG-(W) 80.569585
NAD'83 UTM (M)	N. 4,381,566.22	E. 536,978.80

TH



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 849 *C. Victor Moyers*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE OCTOBER 04, 20 16
 REVISED _____, 20 ____
 OPERATORS WELL NO. WV 514368
 API WELL NO. 47 - 103 - 03175 HUA
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 7812P514368R.dwg
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE SEE NOTE 2

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

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: (GROUND) (PROPOSED)
 ELEVATION 1,480' 1,430' WATERSHED TRIBUTARY OF ROCKCAMP RUN
 DISTRICT GRANT COUNTY WETZEL QUADRANGLE BIG RUN 7.5'

SURFACE OWNER ET BLUE GRASS LLC ACREAGE 138.93±
 ROYALTY OWNER SHIBEN ESTATES INC. ACREAGE 140± **03/03/2017**

PROPOSED WORK:
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION MARCELLUS
 ESTIMATED DEPTH 7,532'

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY
 ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330 ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330

BOTTOM HOLE LONGITUDE 80°32'30" 147'

987.10'

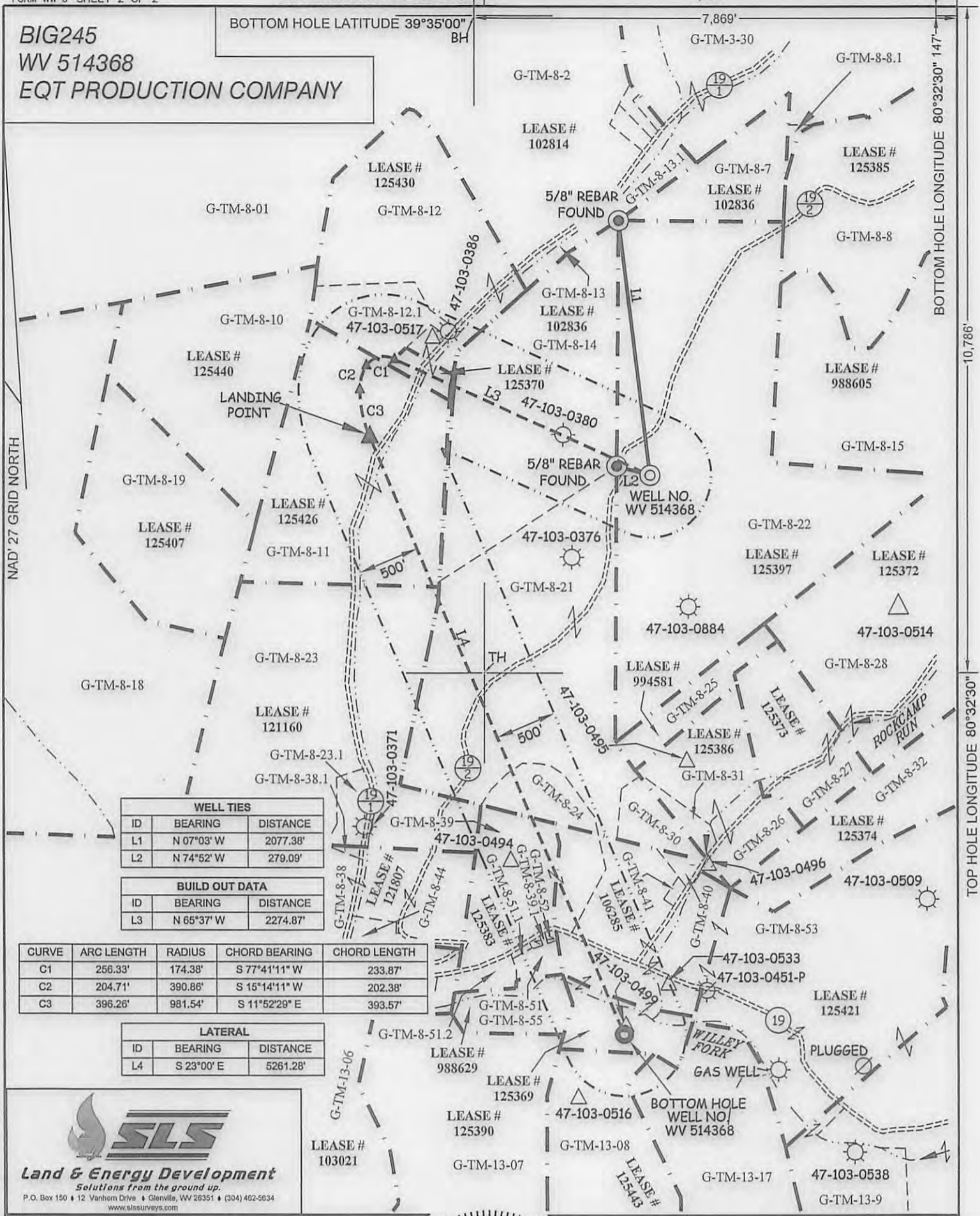
TOP HOLE LONGITUDE 80°32'30"

COUNTY NAME

PERMIT

BIG245
WV 514368
EQT PRODUCTION COMPANY

BOTTOM HOLE LATITUDE 39°35'00" BH



WELL TIES		
ID	BEARING	DISTANCE
L1	N 07°03' W	2077.38'
L2	N 74°52' W	279.09'

BUILD OUT DATA		
ID	BEARING	DISTANCE
L3	N 65°37' W	2274.87'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	256.33'	174.38'	S 77°41'11" W	233.87'
C2	204.71'	390.86'	S 15°14'11" W	202.38'
C3	396.26'	981.54'	S 11°52'29" E	393.57'

LATERAL		
ID	BEARING	DISTANCE
L4	S 23°00' E	5261.28'

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 www.slsurveyors.com

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD'27 S.P.C.(FT) N. 400,756.18 E. 1,698,760.82
 NAD'27 GEO. LAT-(N) 39.595388 LONG-(W) 80.569007
 NAD'83 UTM (M) N. 4,382,948.80 E. 537,021.90
LANDING POINT
 NAD'27 S.P.C.(FT) N. 401,064.77 E. 1,696,488.05
 NAD'27 GEO. LAT-(N) 39.596161 LONG-(W) 80.577084
 NAD'83 UTM (M) N. 4,383,031.23 E. 536,327.90
BOTTOM HOLE
 NAD'27 S.P.C.(FT) N. 396,221.75 E. 1,698,543.83
 NAD'27 GEO. LAT-(N) 39.582933 LONG-(W) 80.569585
 NAD'83 UTM (M) N. 4,381,566.22 E. 536,978.80

SCALE 1" = 1000' FILE NO. 7812P514368R
 DATE OCTOBER 04, 2016
 REVISED _____, 20____
 OPERATORS WELL NO. WV 514368
 API WELL NO. 47-103-03175
 NO. STATE COUNTY PERMIT

VICTOR MOYERS
 LICENSED
 No. 849
 STATE OF
 WEST VIRGINIA
 PROFESSIONAL SURVEYOR

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

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

LEGEND

- LEASE LINE
- SURFACE LINE
- WELL LATERAL
- OFFSET LINE
- TIE LINE
- CREEK
- ROAD
- COUNTY ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- STORAGE WELL
- GRANT DISTRICT TAX MAP-PARCEL

03/03/2016

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY
 ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280
 BRIDGEPORT, WV 26330 BRIDGEPORT, WV 26330

NAD'27 GRID NORTH

BOTTOM HOLE LONGITUDE 80°32'30" 147'

10,786'

TOP HOLE LONGITUDE 80°32'30"

COUNTY NAME PERMIT

**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

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

Well Operator: EQT Production Company
 By: Victoria J Roark
 Its: Permitting Supervisor

Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
125397	<u>ET Blue Grass LLC, et al. (current royalty owner)</u>		***	
	Joseph Shiben, et al.	Equitable Gas Company		DB 44A/224
	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
	<u>Shiben Estates, Inc. (Current Royalty Owner)</u>		***	
102836	S I Robinson	The Philadelphia Company		DB 47/469
	The Philadelphia Company	Pittsburgh and West Virginia Gas Co.		DB 146/98
	Pittsburgh and West Virginia Gas Co.	Equitable Gas Company		DB 187/374
	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
	<u>Dewey J. Taylor, et al. (Current Royalty Owner)</u>		***	
125370	Austa B. Utt, et al.	Equitable Gas Company		DB 52A/173
	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
	<u>Margaret Douglas Mastin Eirod, et al. (Current Royalty Owner)</u>		***	
125430	Marion D. Smith, et al.	P.C. McKenzie Co.		LB 40A/331
	P.C. McKenzie Co.	Pemco Gas Incorporated		LB 43A/118
	Pemco Gas Incorporated	Equitable Gas Company		LB 44A/445
	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
	<u>Bonnie M. Henthorne (Current Royalty Owner)</u>		***	
125426	William Swisher, et ux.	Hope Natural Gas Company		LB 5A/128
	Hope Natural Gas Company	Equitable Gas Company		LB 44A/380
	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
	<u>Acropolis, Inc., et al. (Current Royalty Owner)</u>		***	
121160	A. C. Higginbotham, et al.	Pittsburgh & West Virginia Gas Company		LB 39A/236
	Pittsburgh & West Virginia Gas Company	Equitable Gas Company		LB 187/374
	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
	<u>Trio Petroleum and Waco Oil and Gas (Current Royalty Owner)</u>		***	
125383	Dora Kohn, et al.	Equitable Gas Company		LB 44A/87
	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
	<u>Fredric G. Richter, et al. (Current Royalty Owner)</u>		***	
106285	John E. Snider & Mahala A. Snider	John Lavelle		DB 76/239
	John Lavelle	PH Glover		Unrecorded Assignment
	PH Glover	The Philadelphia Co of West Virginia		Unrecorded Assignment
	The Philadelphia Co of West Virginia	Pittsburgh and West Virginia Gas Co.		O&G 22A/352
	Pittsburgh and West Virginia Gas Co.	Equitable Gas Company		DB 187/374
	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

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***We certify that we will pay a minimum one-eighth of the total amount paid to or received by or allowed to the owner of the working interest at the wellhead for the oil or gas so extracted, produced or marketed before deducting the amount to be paid to or set aside for the owner of the oil or gas in place, on all such oil or gas to be extracted, produced or marketed from the well.

ASSIGNMENT OF LEASE.

KNOW ALL MEN BY THESE PRESENTS, That John Lavelli party of the first part, for and in

consideration of the sum of One Dollar, and other valuable consideration lawful money of the United States, to him duly paid, by P.H. Glover of Marion County County of Wayne and State of West Virginia

have sold, and by these presents do grant, convey, assign, transfer and set over unto the said P.H. Glover

party of the second part, a certain indenture of lease, bearing date the 11th day of January 1887, made by John C. Sanders & Mahalia Sanders his wife whereby they lease to said John Lavelli

all that certain leasehold estate situate in the District of Grant County of Wayne and State of West Virginia

bounded and described as follows, to-wit:

On the North by the lands of John C. Sanders

On the East by the lands of Leaac Higginbothams heirs

On the West by the lands of Kebles Widdler

On the South by the lands of John C. Sanders

containing 70 acres, be the same more or less, with all and singular the premises therein mentioned and described, together with the appurtenances thereto and therewith belonging.

To have and to hold the same unto the said party of the second part and his assigns, from the 15th day of August 1887, for and during all the rest and residue and remainder yet to come, of and in the term of five years mentioned in said lease, and all rights and privileges of the party of the first part in and under said lease; subject, nevertheless, to the rents, covenants, conditions and provisions therein also mentioned.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 15th day of August 1887

Sealed and delivered in the presence of John Lavelli [SEAL] Nathan Phillips [SEAL]

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Use this acknowledgment for West Virginia land.

State of West Virginia, County of Wetzel, to-wit:

I, S. A. Barnard a Notary Public
of the said county of Wetzel do certify that Johna Lovelle

and _____ his wife, whose names are signed
to the writing above, bearing date the 15th day of August 1902, have
this day acknowledged the same before me in my said county.

_____ my hand this 16th day of August 1902
S. A. Barnard
Notary Public

Use this acknowledgment for Ohio land.

State of Ohio, County of _____, to-wit:

Before me, a _____ in and for said County, personally
appeared the above named _____

_____ who acknowledged that he did sign the
foregoing instrument, and that the same was his voluntary act and deed.

In testimony whereof, I have hereunto set my hand and official seal, this
day of _____, A. D. 189

ASSIGNMENT OF LEASE	FROM	TO	Date	Term	Acres	LOCATION.	District of	County of	Admitted to record	Recorded in Deed Book	Page	LAY BARK US COMMERCIAL LAW COMPANY 21 BANK BUILDING WHEELING, W. VA.
			<u>189</u>	<u>years.</u>					<u>189</u>			

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03/03/2017

THIS INDENTURE, Made this 25th day of August, A. D. 1902, between P. H. GLOVER, of Uniontown, Wetzel County, West Virginia, party of the first part, and THE PHILADELPHIA COMPANY OF WEST VIRGINIA, a corporation of West Virginia, party of the second part;

WITNESSETH, That the said party of the first part, for and in consideration of the sum of One Dollar (\$1.00), to him in hand paid by the said party of the second part, at and before the sealing and delivery hereof, the receipt whereof is hereby acknowledged, and other ^{valuable} considerations to him moving, has granted, bargained, sold, assigned and transferred, and by these presents does grant, bargain, sell, assign and transfer unto the said The Philadelphia Company of West Virginia, its successors and assigns, the two (2) following described leases, for oil and gas purposes, of lands situate in Grant District, Wetzel County, West Virginia, containing 65 acres, more or less, to-wit:

1st. Lease of E. K. Willey and Drusilla Willey, his wife, to W. J. Anderson, of a tract of land containing 25 acres, more or less, dated August 8th, 1902;

2nd. Lease of John E. Snider and Mahala A. Snider, his wife, to John Lavelle, of a tract of land containing 40 acres, more or less, dated January 11th, 1902;

TOGETHER with all the rights, estate, title, interest, property, claim and demand thereby granted to the said lessees in, of and to the said tracts of land, leaseholds and term of years therein mentioned; reserving, however, an undivided one-sixteenth (1/16) part or share of all the oil which may be produced and saved from said leases, or either of them, after the royalty under the same due and payable to the lessors has been deducted; the said one-sixteenth (1/16) part or share of the oil to be delivered, free of charge, to the party of the first part in the pipe lines and tanks of the Company or Companies transporting and storing the oil produced from either or both of the said leases.

TO HAVE and TO HOLD the leasehold gas and gas rights and the rights hereby conveyed in the said leases unto and for the use of the said The Philadelphia Company of West Virginia, its successors and assigns, under the rents, agreements and covenants reserved and contained, on the part of the lessees therein named to be paid, kept and performed.

AND FURTHER IT IS UNDERSTOOD BETWEEN THE PARTIES HERETO, That the

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party of the second part shall commence a well upon some one of the above leases within sixty (60) days from the date hereof, and complete the same without unnecessary delay; it is also understood that, before abandoning the wells that may be drilled upon said premises by the party of the second part, one well shall be drilled through what is known as the Gordon sand.

IN WITNESS WHEREOF, The said P. H. Glover has hereunto set his hand and seal, and the said The Philadelphia Company of West Virginia has caused this indenture to be signed by its General Manager, the day and year first above written.

Signed, sealed and delivered)
in the presence of)

W R Farby

P H Glover (SEAL)

THE PHILADELPHIA COMPANY
OF WEST VIRGINIA

By [Signature]
General Manager.

State of Pennsylvania,)
(ss.
County of Allegheny.)

I, E. W. Newell, a Notary Public of said County, do certify that P. H. Glover, whose name is signed to the writing above, bearing date the 25th day of August, A. D. 1902, has this day acknowledged the same before me in my said County.

Given under my hand this 25th day of August, A. D. 1902.

E. W. Newell
Notary Public.

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MY COMMISSION EXPIRES FEB

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CONSIDERATION \$50 PER LEASE
2 LEASES
65 ACRES

6 1/2 OIL

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03/03/2017



October 12, 2016

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

Re: BIG245 well pad, well number 514368
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,

A handwritten signature in blue ink, appearing to read 'Vicki Roark'.

Vicki Roark
Permitting Supervisor-WV

47304053

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

Date of Notice Certification: 11-8-16

API No. 47- 103 - _____
Operator's Well No. 514388
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: <u>WV</u>	UTM NAD 83 Easting: <u>537021.90</u>
County: <u>Wetzel</u>	Northing: <u>4382948.80</u>
District: <u>Grant</u>	Public Road Access: <u>Rt 19/2</u>
Quadrangle: <u>Big Run</u>	Generally used farm name: <u>E.T. Bluegrass LLC</u>
Watershed: <u>Rockcamp Run of Wiley Fork</u>	

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.

<p>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:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 100px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p>OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
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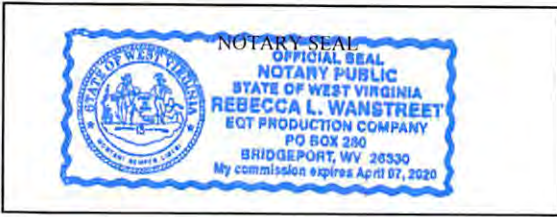
Required Attachments:

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 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:

THEREFORE, I *Victoria J Roark*, 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:	<u>EQT Production Company</u>	Address:	<u>115 Professional Place PO Box 280</u>
By:	<u>Victoria J Roark</u>		<u>Bridgeport WV 26330</u>
Its:	<u>Permitting Supervisor</u>	Facsimile:	<u>304-848-0041</u>
Telephone:	<u>304-848-0076</u>	Email:	<u>vroark@eqt.com</u>



Subscribed and sworn before me this 13 day of October 2016.

Rebecca L Wanstreet Notary Public

My Commission Expires 4-7-2020

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.

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice: 11/8/10 Date Permit Application Filed: 11/8/10

Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which 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)
Name: See Attached
Address: _____
Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: See Attached
Address: _____
 COAL OPERATOR
Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: See Attached
Address: _____
Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)
Name: See Attached
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

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*Please attach additional forms if necessary

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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 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.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing 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 electronic means, 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 relating to 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 thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written 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

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 <http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx> 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.

WW-6A
(8-13)

API NO. 47- 103 -
OPERATOR WELL NO. 514368
Well Pad Name: BIG245

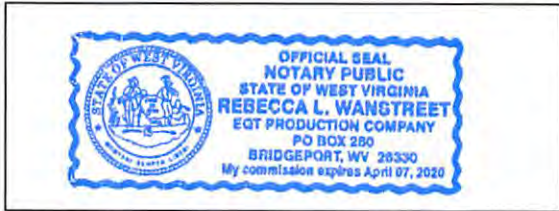
Notice is hereby given by:

Well Operator: EQT Production Company
Telephone: 304-848-0076
Email: vroark@eqt.com

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 depprivacyofficer@wv.gov.



Subscribed and sworn before me this 13 day of October 2016 .

Rebecca L. Wanstreet Notary Public

My Commission Expires 4-7-2020

5270305175

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03/03/2017

Surface Owners:

ET Blue Grass LLC
625 Liberty Ave Suite 1700
Pittsburgh PA 15222

W

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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

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Comment and Waiver Provisions

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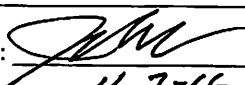
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VOLUNTARY STATEMENT OF NO OBJECTION

I, John Damato, hereby state that I have read the Instructions to Persons Named 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:	<u>WV</u>	UTM NAD 83 Easting:	<u>537021.90</u>
County:	<u>Wetzel</u>	UTM NAD 83 Northing:	<u>4382948.80</u>
District:	<u>Grant</u>	Public Road Access:	<u>Rt 19/2</u>
Quadrangle:	<u>Big Run</u>	Generally used farm name:	<u>E.T. Bluegrass LLC</u>
Watershed:	<u>Rockcamp Run of Wiley Fork</u>		

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.

<p>*Please check the box that applies</p> <p><input checked="" type="checkbox"/> SURFACE OWNER</p> <p><input checked="" type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input checked="" type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input checked="" type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input type="checkbox"/> COAL OPERATOR</p> <p><input type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p>FOR EXECUTION BY A NATURAL PERSON</p> <p>Signature: _____</p> <p>Print Name: _____</p> <p>Date: _____</p>
	<p>FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: <u>ET Blue Grass LLC</u></p> <p>By: <u>John Damato</u></p> <p>Its: <u>Regional Land Director</u></p> <p>Signature: </p> <p>Date: <u>11.7-16</u></p>

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03/03/2017

Surface Owners (Road or other Disturbance):

ET Blue Grass LLC
 625 Liberty Ave Suite 1700
 Pittsburgh PA 15222

Wanda L. Byard
 1250 Meadowlane Drive
 Lewisport KY 42351

Neal Utt
 1204 Big Run Road
 Burton WV 26562

7015 0640 0005 9572 5060

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Adult Signature Restricted Delivery \$

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 26330-1155

Wanda L. Byard
 1250 Meadowlane Drive
 Lewisport KY 42351
 BIG245 Permit App and Planned Op

RW

For instructions

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Neal Utt
 1204 Big Run Road
 Burton WV 26562
 BIG245 Permit App and Planned Op

RW

Instructions

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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
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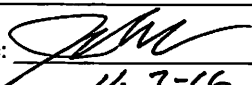
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Surface Owners (Pits, Impoundments, or AST):

ET Blue Grass LLC
625 Liberty Ave Suite 1700
Pittsburgh PA 15222

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

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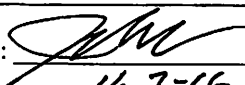
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WV Department of
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Coal Owner

ET Blue Grass LLC
625 Liberty Ave 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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<input type="checkbox"/> Return Receipt (electronic)	\$
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<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

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Total Postage

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Western Pocahontas Properties LLC
5260 Irwin Road
Huntington WV 25705
Attn: George Angus
BIG245 Permit App

PS Form 3800, April 2015

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<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

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Total Postage

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Street and

City, State,

Postmark Here

CNX Land LLC
Engineering Operations Support Dept. Coal
1000 Consol Energy Drive
Canonsburg PA 15317
Attn: Ryan Arp
BIG245 Permit App

PS Form 3800, April 2015

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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
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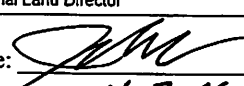
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County:	<u>Wetzel</u>	UTM NAD 83 Northing:	<u>4382948.80</u>
District:	<u>Grant</u>	Public Road Access:	<u>R1 19/2</u>
Quadrangle:	<u>Big Run</u>	Generally used farm name:	<u>E.T. Bluegrass LLC</u>
Watershed:	<u>Rockcamp Run of Wiley Fork</u>		

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.

<p>*Please check the box that applies</p> <p><input checked="" type="checkbox"/> SURFACE OWNER</p> <p><input checked="" type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input checked="" type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input checked="" type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input type="checkbox"/> COAL OPERATOR</p> <p><input type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p>FOR EXECUTION BY A NATURAL PERSON</p> <p>Signature: _____</p> <p>Print Name: _____</p> <p>Date: _____</p> <p>FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: <u>ET Blue Grass LLC</u></p> <p>By: <u>John Damato</u></p> <p>Its: <u>Regional Land Director</u></p> <p>Signature: </p> <p>Date: <u>11-7-16</u></p>
---	--

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 of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

RECEIVED
Office of Oil and Gas
November 9, 2016
WV Department of
Environmental Protection
03/03/2017

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: 09/30/2016 **Date Permit Application Filed:** 10/10/2016

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

- HAND DELIVERY CERTIFIED MAIL 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
Address: _____

Name: See Attached
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: <u>WV</u>	UTM NAD 83	Easting: <u>537021.90</u>
County: <u>Wetzel</u>		Northing: <u>4382948.80</u>
District: <u>Grant</u>	Public Road Access: <u>Rt 19/2</u>	
Quadrangle: <u>Big Run</u>	Generally used farm name: <u>E.T. Bluegrass LLC</u>	
Watershed: <u>Rockcamp Run of Wiley Fork</u>		

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
Address: 115 Professional Place PO Box 280
Bridgeport WV 26330
Telephone: 304-848-0076
Email: vroark@eqt.com
Facsimile: 304-848-0041

Authorized Representative: Victoria Roark
Address: 115 Professional Place PO Box 280
Bridgeport WV 26330
Telephone: 304-848-0076
Email: vroark@eqt.com
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 depprivacyofficer@wv.gov.

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WV Department of
Environmental Protection
09/30/2017

Surface Owners:

ET Blue Grass LLC
625 Liberty Ave Suite 1700
Pittsburgh PA 15222

W

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Office of Oil and Gas
NOV 09 2016
WV Department of
Environmental Protection
09/03/2017

Surface Owners (Pits, Impoundments, or AST):

ET Blue Grass LLC
625 Liberty Ave Suite 1700
Pittsburgh PA 15222

✓

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Environmental Protection
03/03/2017

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, John Damato, 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:	<u>WV</u>	UTM NAD 83	Easting:	<u>537021.90</u>
County:	<u>Wetzel</u>		Northing:	<u>4382948.80</u>
District:	<u>Grant</u>	Public Road Access:		<u>Rt 19/2</u>
Quadrangle:	<u>Big Run</u>	Generally used farm name:		<u>E.T. Bluegrass LLC</u>
Watershed:	<u>Rockcamp Run of Wiley Fork</u>			

Name: ET Blue Grass LLC
Address: 625 Liberty Ave Suite 1700
Pittsburgh PA 15222

Signature: 
Date: 9.29-16

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 deprivacyofficer@wv.gov.

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Office of Oil and Gas
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WV Department of
Environmental Protection
03/03/2017

Surface Owners (Road or other Disturbance):

ET Blue Grass LLC
625 Liberty Ave Suite 1700
Pittsburgh PA 15222

Wanda L. Byard
1250 Meadowlane Drive
Lewisport KY 42351

Neal Utt
1204 Big Run Road
Burton WV 26562

RECEIVED
Office of Oil and Gas
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WV Department of
Environmental Protection
03/03/2017

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, WIB, 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:	<u>WV</u>	UTM NAD 83	Easting:	<u>537021.90</u>
County:	<u>Wetzel</u>		Northing:	<u>4382948.80</u>
District:	<u>Grant</u>	Public Road Access:		<u>Rt 19/2</u>
Quadrangle:	<u>Big Run</u>	Generally used farm name:		<u>E.T. Bluegrass LLC</u>
Watershed:	<u>Rockcamp Run of Wiley Fork</u>			

Name: WANDA BYARD
Address: 1250 Meaplow Ave Dr.
Spencer, Ky 42351

Signature: Wanda L Byard
Date: 10-6-16

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.

RECEIVED
Office of Oil and Gas
NOV 09 2016
WV Department of
Environmental Protection
03/03/2017

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, Neal S UTT, 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:	<u>WV</u>	UTM NAD 83	Easting:	<u>537021.90</u>
County:	<u>Wetzel</u>		Northing:	<u>4382948.80</u>
District:	<u>Grant</u>	Public Road Access:		<u>Rt 19/2</u>
Quadrangle:	<u>Big Run</u>	Generally used farm name:		<u>E.T. Bluegrass LLC</u>
Watershed:	<u>Rockcamp Run of Wiley Fork</u>			

Name: Neal S UTT
Address: 1204 Big Run Rd.
Burton WV 26562

Signature: Neal S UTT
Date: 9/29/16

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.

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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.**

Date of Notice: 11/8/10 **Date Permit Application Filed:** 11/8/10

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
Address: _____

Name: See Attached
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:	<u>WV</u>	UTM NAD 83	Easting:	<u>537021.90</u>
County:	<u>Wetzel</u>		Northing:	<u>4382948.80</u>
District:	<u>Grant</u>	Public Road Access:		<u>Rt 19/2</u>
Quadrangle:	<u>Big Run</u>	Generally used farm name:		<u>E.T. Bluegrass LLC</u>
Watershed:	<u>Rockcamp Run of Wiley Fork</u>			

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-and-gas/pages/default.aspx.

Well Operator: EQT Production Company
Telephone: 304-848-0076
Email: vroark@eqt.com

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 depprivacyofficer@wv.gov.

RECEIVED
Office of Oil and Gas
NOV 09 2016
WV Department of
Environmental Protection
03/03/2017

Surface Owners:

ET Blue Grass LLC
625 Liberty Ave Suite 1700
Pittsburgh PA 15222

U

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.

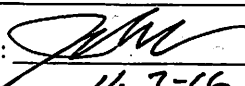
Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except 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, John Damato, hereby state that I have read the Instructions to Persons Named 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:	<u>WV</u>	UTM NAD 83 Easting:	<u>537021.90</u>
County:	<u>Wetzel</u>	UTM NAD 83 Northing:	<u>4382948.80</u>
District:	<u>Grant</u>	Public Road Access:	<u>Rt 19/2</u>
Quadrangle:	<u>Big Run</u>	Generally used farm name:	<u>E.T. Bluegrass LLC</u>
Watershed:	<u>Rockcamp Run of Wiley Fork</u>		

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.

<p>*Please check the box that applies</p> <p><input checked="" type="checkbox"/> SURFACE OWNER</p> <p><input checked="" type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input checked="" type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input checked="" type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input type="checkbox"/> COAL OPERATOR</p> <p><input type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p>FOR EXECUTION BY A NATURAL PERSON</p> <p>Signature: _____</p> <p>Print Name: _____</p> <p>Date: _____</p>
	<p>FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: <u>ET Blue Grass LLC</u></p> <p>By: <u>John Damato</u></p> <p>Its: <u>Regional Land Director</u></p> <p>Signature: </p> <p>Date: <u>11.7-16</u></p>

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NOV 09 2016
WV Department of Environmental Protection
03/03/2017

Surface Owners (Road or other Disturbance):

ET Blue Grass LLC
625 Liberty Ave Suite 1700
Pittsburgh PA 15222

Wanda L. Byard
1250 Meadowlane Drive
Lewisport KY 42351

Neal Utt
1204 Big Run Road
Burton WV 26562

7015 0640 0005 9572 5060

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee
\$

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage
\$

Postmark Here
NOV 0 2015

Wanda L. Byard
1250 Meadowlane Drive
Lewisport KY 42351
BIG245 Permit App and Planned Op

RW

for Instructions

7015 0640 0005 9572 5053

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee
\$

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage
\$

Postmark Here
NOV 0 2015

Neal Utt
1204 Big Run Road
Burton WV 26562
BIG245 Permit App and Planned Op

RW

Instructions

Surface Owners (Pits, Impoundments, or AST):

ET Blue Grass LLC
625 Liberty Ave Suite 1700
Pittsburgh PA 15222

47 05 05 173

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

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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.

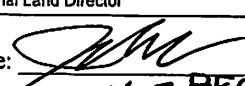
Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except 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, John Damato, hereby state that I have read the Instructions to Persons Named 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:	<u>WV</u>	UTM NAD 83 Easting:	<u>537021.90</u>
County:	<u>Wetzel</u>	UTM NAD 83 Northing:	<u>4382948.80</u>
District:	<u>Grant</u>	Public Road Access:	<u>R1 19/2</u>
Quadrangle:	<u>Big Run</u>	Generally used farm name:	<u>E.T. Bluegrass LLC</u>
Watershed:	<u>Rockcamp Run of Wiley Fork</u>		

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.

<p>*Please check the box that applies</p> <p><input checked="" type="checkbox"/> SURFACE OWNER</p> <p><input checked="" type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input checked="" type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input checked="" type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input type="checkbox"/> COAL OPERATOR</p> <p><input type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p>FOR EXECUTION BY A NATURAL PERSON</p> <p>Signature: _____</p> <p>Print Name: _____</p> <p>Date: _____</p>
	<p>FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: <u>ET Blue Grass LLC</u></p> <p>By: <u>John Damato</u></p> <p>Its: <u>Regional Land Director</u></p> <p>Signature: </p> <p>Date: <u>11-7-2016</u></p> <p style="text-align: right;">RECEIVED Office of Oil and Gas</p>

Oil and Gas Privacy Notice:

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NOV 09 2016
WV Department of
Environmental Protection



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
Division of Highways

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

Earl Ray Tomblin
Governor

Paul A. Mattox, Jr., P. E.
Secretary of Transportation/
Commissioner of Highways

November 7, 2016

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

514362 BIG245H1	514363 BIG245H2	514364 BIG245H3	514365BIG245H4
514366 BIG245H5	514367 BIG245H6	514368 BIG245H7	514369 BIG245H8
514370 BIG245H9	514371 BIG245H10	514372 BIG245H11	514373 BIG245H12
515606 BIG245H13	515607 BIG245H14	515608 BIG245H15	515609 BIG245H16
516520 BIG245H17	516521 BIG245H18	516522 BIG245H19	516523 BIG245H20
516524 BIG245H21	516525 BIG245H22	516526 BIG245H23	516527 BIG245H24
516528 BIG245H25	516529 BIG245H26	516530 BIG245H27	516531 BIG245H28
516532 BIG245H29	516533 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,

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

RECEIVED
Office of Oil and Gas

NOV 09 2016

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

WV Department of
Environmental Protection

Anticipated Frac Additives
Chemical Names and CAS numbers

<u>Material</u>	<u>Ingredient</u>	<u>CAS Number</u>
Water		
Sand	Hydrotreated light petroleum distillate	14808-60-7
Friction Reducer	Tributyl tetradecyl phosphonium 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

RECEIVED
Office of Oil and Gas
NOV 09 2016
WV Department of
Environmental Protection
03/03/2017

APPROVED
WVDEP OOG
4/28/2016

EQT BIG 245 SITE PLAN EQT PRODUCTION COMPANY

PROPOSED WELL NO. H1-WV 514362, H2-WV 514363, H3-WV 514364, H4-WV 514365

SITUATED ON THE WATERS OF BIG RUN, A TRIBUTARY OF
WILLEY FORK, GRANT DISTRICT, WETZEL COUNTY, WV

PROJECT INFORMATION

PROJECT NAME: EQT BIG 245
TAX PARCEL:
GRANT DISTRICT, WETZEL COUNTY, WV
MAP 08 PARCELS 14, 21, 22

SURFACE OWNER:

NEAL UTT
MAP 08, PARCEL 14
GRANT DISTRICT, WETZEL COUNTY, WV
TOTAL PROPERTY AREA: 51.0 +/- ACRES
TOTAL DISTURBANCE AREA: 6.1 +/- ACRES

KEYE JOE WILLEY
MAP 08, PARCEL 21
GRANT DISTRICT, WETZEL COUNTY, WV
TOTAL PROPERTY AREA: 78.27 +/- ACRES
TOTAL DISTURBANCE AREA: 0.2 +/- ACRES

ET BLUE GRASS LLC
MAP 08, PARCEL 22
GRANT DISTRICT, WETZEL COUNTY, WV
TOTAL PROPERTY AREA: 128.00 +/- ACRES
TOTAL DISTURBANCE AREA: 30.9 +/- ACRES

OIL AND GAS ROYALTY OWNER:

SHIBEN ESTATE, INC.
GRANT DISTRICT, WETZEL COUNTY, WV
TOTAL PROPERTY AREA: 140.0 +/- ACRES

SITE LOCATION:

THE EQT BIG 245 ACCESS ROAD ENTRANCE IS LOCATED 4.427 +/-
NORTHEAST OF THE JUNCTION OF CO RT. 19 AND CO. RT. 192.
THE WELL PAD IS LOCATED 1.9 MILES +/- NORTHEAST OF THE
JUNCTION OF CO. RT. 15 AND CO. RT. 19.

LOCATION COORDINATES

EQT BIG 245 CONSTRUCTION ENTRANCE
LATITUDE: 39.59338 LONGITUDE: 80.505747 (NAD 83)

EQT BIG 245 WELL PAD CENTER
LATITUDE: 39.595312 LONGITUDE: 80.568705 (NAD 83)

EQT BIG 245 AST PAD CENTER
LATITUDE: 39.545498 LONGITUDE: 80.266501 (NAD 83)

GENERAL DESCRIPTION

THE WELL PAD, ACCESS ROAD AND TANK PAD ARE BEING CONSTRUCTED
TO AID IN THE DEVELOPMENT OF INDIVIDUAL MARCELLUS SHALE GAS
WELLS.

SITE DISTURBANCE COMPUTATIONS

WELL PAD MAIN ACCESS ROAD = 4.8 +/- ACRES
AST PAD ACCESS ROAD = 3.1 +/- ACRES
STOCKPILES = 20.8 +/- ACRES
TOTAL SITE DISTURBANCE AREA = 38.4 +/- ACRES

ENTRANCE PERMIT

EQT PRODUCTION COMPANY WILL OBTAIN AN ENCROACHMENT PERMIT (FORM
M-102) FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS, PRIOR TO COMMENCEMENT OF CONSTRUCTION
ACTIVITIES.

MISS UTILITY STATEMENT

MISS UTILITY OF WEST VIRGINIA WAS NOTED FOR THE LOCATING OF
UTILITIES PRIOR TO THIS PROJECT DESIGN. TICKET #132596935
IN ADDITION, MISS UTILITY WILL BE CONTACTED PRIOR TO START OF THE
PROJECT.

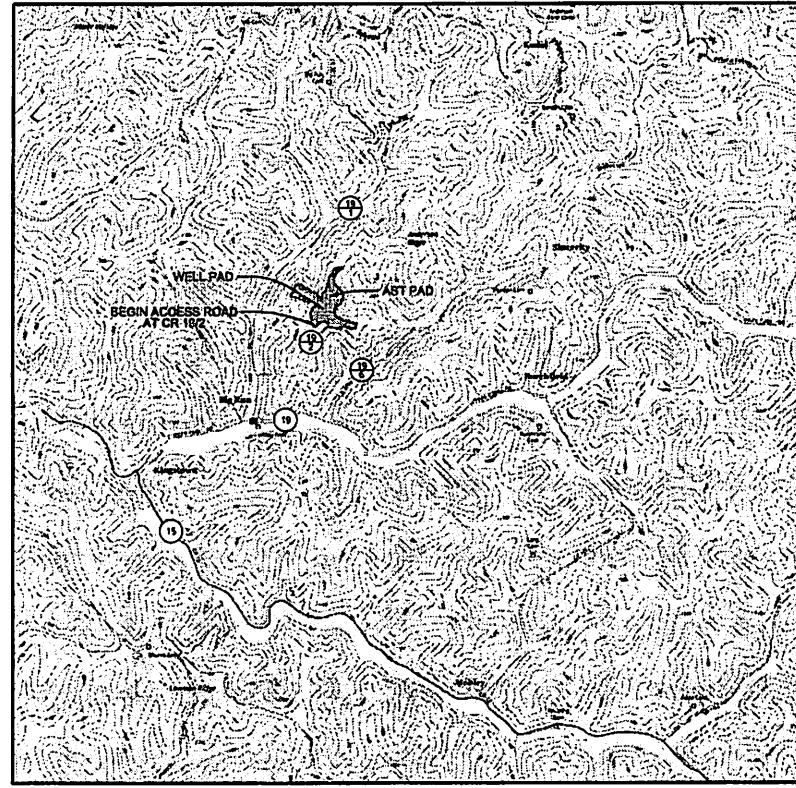
GEOTECHNICAL NOTES

A SUBSURFACE INVESTIGATION HAS BEEN PERFORMED FOR THIS SITE AND
GEOTECHNICAL REPORT HAS BEEN PREPARED BY LARSON DESIGN GROUP
DATED 10/23/10. THE ENGINEER AND SURVEYOR ARE NOT RESPONSIBLE
FOR UNOBSERVED SUBSURFACE IRREGULARITIES CAUSING ADDITIONAL
WORK OR ADDITIONAL CONSTRUCTION MEASURES REQUIRED BEYOND
THOSE STANDARD PRACTICES SHOWN ON THIS PLAN AS A RESULT OF ANY
OTHER GEOTECHNICAL COMPLICATIONS ENCOUNTERED DURING CONSTRUCTION.

ENVIRONMENTAL NOTES

A WETLAND DELINEATION WAS PERFORMED ON JULY 7, 2011, MAY 30, 2012, AUGUST 14,
2012, MARCH 11-13, 2015, APRIL 3, 2015, AND MAY 8, 2015, BY POTESTA & ASSOCIATES TO
REVIEW THE SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE
REGULATORY JURISDICTION OF THE U.S. ARMY CORPS OF ENGINEERS (USACE) AND/OR THE
WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP). THE MAY, 27
2015 REPORT FOR THE BIG 245 SITE WAS PREPARED BY POTESTA & ASSOCIATES, INC.,
SUMMARIZES THE RESULTS OF THE FIELD DELINEATION. THE REPORT DOES NOT, IN ANY
WAY, REPRESENT A JURISDICTIONAL DETERMINATION OF THE LANDWARD LIMITS OF
WATERS AND WETLANDS WHICH MAY BE REGULATED BY THE USACE OR THE WVDEP. IT IS
STRONGLY RECOMMENDED THAT THE AFORESAID AGENCIES BE CONSULTED IN AN
EFFORT TO OBTAIN WRITTEN CONFIRMATION OF THE DELINEATION DESCRIBED BY THIS
REPORT PRIOR TO ENGAGING CONSTRUCTION ON THE PROPERTY DESCRIBED HEREIN.
THE DEVELOPER SHALL OBTAIN THE APPROPRIATE PERMITS FROM THE FEDERAL AND/OR
STATE REGULATORY AGENCIES PRIOR TO ANY PROPOSED IMPACTS TO WATERS OF THE
U.S., INCLUDING WETLAND FILLS AND STREAM CROSSINGS.

GRID NORTH AND ELEVATIONS
ESTABLISHED BY SURVEY
GRADE GPR



RESTRICTIONS NOTES

1. THERE ARE INTERMITTENT STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE PROJECT LOD. THERE ARE WETLANDS WITHIN 100 FEET OF THE LOD, AND A WAIVER FROM THE WVDEP WILL BE APPLIED FOR THROUGH THE ARMY CORPS OF ENGINEERS BY EQT PRODUCTION COMPANY.
2. THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300 FEET OF THE PAD AND LOD.
3. THERE ARE NO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1000 FEET OF THE PAD AND LOD.
4. THERE ARE NO EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF THE WELLS(B) BEING DRILLED. STANTEC AND SMITH LAND SURVEYING ARE NOT RESPONSIBLE FOR ANY EXISTING WATER WELL DEVELOPED SPRINGS DISCOVERED DURING CONSTRUCTION.
5. THERE ARE NO OCCUPIED DWELLING STRUCTURES WITHIN 450 FEET OF THE CENTER OF THE PAD.
6. THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2500 SQUARE FEET OF THE CENTER OF THE PAD.

MISS Utility of West Virginia
1-800-345-4545
West Virginia State Law
(Section 20-2, Chapter 24-C)
Requires that you call them
business days before you dig in
the state of West Virginia.
IT'S THE LAW!

LIST OF DRAWINGS	
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES
3	OVERALL PLAN SHEET INDEX
4-7	WELL PAD LAYOUT
8	ACCESS ROAD PROFILES
9	WELL PAD PROFILES
10-12	ACCESS ROAD CROSS SECTIONS
13-16	WELL PAD CROSS SECTIONS
17-20	AST TANK PAD CROSS SECTION
21-22	EXCESS MATERIAL STOCKPILE PROFILES
23-30	EXCESS MATERIAL STOCKPILE CROSS SECTIONS
40-43	RECLAMATION PLAN
44	TYPICAL ACCESS ROAD CROSS SECTIONS
45-47	CONSTRUCTION DETAILS
48	CONSTRUCTION QUANTITIES

LEGEND			
EX. INDEX CONTOUR	--- 1550 ---	PROP. INDEX CONTOUR	--- 1500 ---
EX. INTERMEDIATE CONTOUR	--- 1550 ---	PROP. INTERMEDIATE CONTOUR	--- 1500 ---
EX. BOUNDARY LINE	---	PROP. CUT LINE	---
EX. EDGE OF ROAD PAVEMENT	---	PROP. FILL LINE	---
EX. GUARDRAIL	---	PROP. LIMITS OF DISTURBANCE	---
EX. FENCELINE	---	ENVIRONMENTAL ASSESSMENT	---
EX. GATE	---	AREA OF DELINEATION	---
EX. OVERHEAD UTILITY	---	PROP. WELL HEAD	---
EX. OVERHEAD UTILITY RW	---	PROP. CONTAMMENT BERM	---
EX. UTILITY POLE	---	PROP. ROAD CENTERLINE	---
EX. GUY WIRE	---	PROP. V-DITCH WITH CHECK DAMS	---
EX. TELEPHONE LINE	---	PROP. CULVERT	---
EX. GASLINE	---	PROP. RIP-RAP OUTLET PROTECTION	---
EX. GASLINE RW	---	PROP. RIP-RAP INLET PROTECTION	---
EX. WATERLINE	---	PROP. COMPOST FILTERSOCK	---
EX. WATER WELL	---	PROP. TREELINE	---
EX. GAS WELL	---	PROP. STONE CONSTRUCTION ENTRANCE	---
EX. TREELINE	---	X-SECTION GRID INDEX	---
EX. DELINEATED STREAM	---	X-SECTION GRID INTERMEDIATE	---
EX. DELINEATED WETLAND	---	X-SECTION PROPOSED GRADE	---
EX. BUILDING	---	X-SECTION EXISTING GRADE	---

OPERATOR

EQT PRODUCTION COMPANY
OPERATOR ID: 305666
P.O. BOX 380
BRIDGEPORT, WV 26630
PHONE: (304) 348-3870

ENGINEER

STANTEC CONSULTING INC.
111 ELKINS STREET
FARMINGTON, WV 26564
PHONE: (304) 387-0401

SURVEYOR

SMITH LAND SURVEYING, INC.
PO BOX 150
228 WEST MAIN STREET
GLENNVILLE, WV 26033
PHONE: (304) 482-9834



4/28/16
THIS DOCUMENT WAS
PREPARED BY
STANTEC
FOR EQT PRODUCTION COMPANY

TITLE SHEET
EQT BIG 245
GRANT DISTRICT
WETZEL COUNTY, WV

DATE: 02-25-2016

SCALE: AS SHOWN

DESIGNED: KDB
CHECKED: CFM
REVIEWED: RLD
FILE NO: SL2712
SHEET 1 OF 48
REV: 04-25-2016

