

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 514369

47-103-03176-00-00

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: 514369 Farm Name: E. T. BLUE GRASS LLC

U.S. WELL NUMBER: 47-103-03176-00-00

Horizontal 6A / New Drill

Date Issued: 2/24/2017

Promoting a healthy environment.

API Number:	

PERMIT CONDITIONS 10362173

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

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.

API Number:	

PERMIT CONDITIONS 10303176

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 3/5 day of January, 2017.

SHALLOW GAS WELL REVIEW BOARD

Rome May Chairma



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 41-103-03173
 Well No. 514367, Grant District, Wetzel County – Marcellus Formation 41-103-03174
 Well No. 514368, Grant District, Wetzel County – Marcellus Formation 41-103-03175
 Well No. 514369, Grant District, Wetzel County – Marcellus Formation 41-103-03176

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

Vice President & Regional Manager

George augus

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

RECEIVED Office of Oil and Gas

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WV Department of Environmental elocation

WW-6B . (04/15)

4710303176 A

API NO. 47- 103 -	
OPERATOR WELL	NO. 514389
Well Pad Name:	BIG245

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

1) Well Operator	EQT P	roduction (Company	306686	Wetzel	Grant	D: D
-, on operator			- Inparty	Operator ID	County	Grant District	Big Run
2) Operator's We	ell Number	: 514369		_	id Name: BIG		Quadrangle
-							
3) Farm Name/Si	urface Owi	ner: E.I.Bi	ue Grass	LLC Public Ro	ad Access: R	t 19/2	
4) Elevation, curi	rent ground	d: <u>1480</u>	El	evation, proposed	post-construc	tion: 1430	
5) Well Type ((a) Gas	X	Oil		lerground Stor		
(Other						
(b)If Gas	Shallow	X	Deep			
		Horizontal	X				044
6) Existing Pad: `							D134 11-14+1
7) Proposed Targ	get Formati	on(s), Depth	n(s), Antic	ipated Thickness	and Expected	Pressure(s):	1/1716
Marcellus, 753	2, 53, 2620	PSI, Top of	Marcellus	7511			
8) Proposed Tota		• —					
9) Formation at T	Total Vertic	cal Depth:	Marcellus				
10) Proposed Tot	tal Measure	ed Depth:	14032				
11) Proposed Ho	rizontal Le	g Length:	4883				
12) Approximate	Fresh Wat	ter Strata De	pths:	229, 507, 662,	752, 1011		
13) Method to De	etermine F	resh Water I	Depths: F	rom offset wells			
14) Approximate	Saltwater	Depths: No	one				
15) Approximate	Coal Sean	n Depths: 9	25, 1024,	1123			
l 6) Approximate	Depth to I	Possible Voi	d (coal mi	ne, karst, other):	None		
17) Does Propose	ed well loc	ation contain	n coal sear	ne			
directly overlying	g or adjace	nt to an activ	ve mine?	Yes	N	Io X	
(a) If Yes, provi	ide Mine II	nfo: Name	:				
		Depth	:				
		Seam	:				
		Owne			ceived		
				Office n	^{। । । ।} Gas		

WW-6B
(04/15)

4710303176

API	NO.	47-	103	

OPERATOR WELL	NO.	514369
Well Pad Name:	BIG24	5

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	<u>Grade</u>	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	14032	14032	500' above top producing zone
Tubing	2 3/8		J-55	4.7		May not be run, if run set 40'	
Liners						above top perf or 80° inclination.	

11-14-16 Dm4

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	
Fresh Water	13 3/8	17 1/2	.38	2700	2160	See Variance	
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	
Tubing	2 3/8	NA	.19	7700			
Liners							

PACKERS

Kind:		
Sizes:		
Depths Set:		

Received
Office of Oil R. Gas

NOV 17 2016

WW-6B	
(10/14)	

API NO. 47- 103	Α	ΡI	NO.	47-	103
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OP	ERAT	OR	WELL	NO.	514369	

4710303176

Well Pad Name: BIG245

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill and complete a new horizontal well in the Marcellus Formation. Drill the vertical to an approximate depth of 2995'. Kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

11-14-16

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 sturries, .25% Flake Loss Circulation Material (LCM) is used to combat the loss of the cement sturry 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 sturries. 0.25% flake. Loss Circulation Material (LCM) is used to combat the loss of whole drilling fluid or cement sturry (not filtrate) to a thief zone.

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.

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.

Received

Office of OHR Gas

*Note: Attach additional sheets as needed.

NOV 1.7 2016

Page 3 of 3 03/03/2017

Well

514369(BIG245H8)

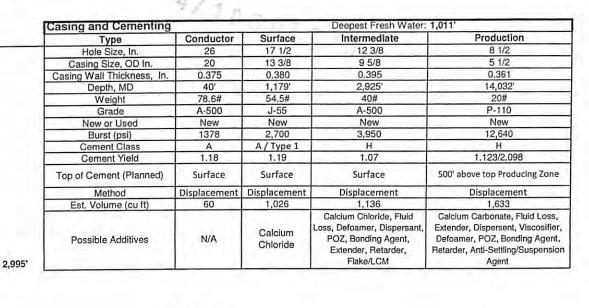
EQT Production

Big Run Quad Wetzel County, WV Azimuth

157 4150 Vertical Section

Note:	Diagram	is not to	scale	

Base Red Rock 967	VC	ile. Diagram is not to scale	Тор	Base
Base Red Rock Base Fresh Water Surface Casing Maxton Big Lime Weir Jeff Surface Casing Meir Jeff Surface Casing Maxton Big Lime Jeff Surface Casing Gantz Jeff Surface Casing Gantz Jeff Surface Casing Gantz Jeff Surface Casing Jeff Surface C		Formations	TVD	TVD
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Tully 7403 - 742* Hamilton 7421 - 751* Marcellus 7511 - 7564*		Genesee	7287	7370
Hamilton 7421 - 7511 Marcellus 7511 - 7564		Geneseo	7370	- 7403
Marcellus 7511 - 7564		Tully	7403	7421
			7421	- 7511
Production Casing 14032 MD		Marcellus	7511	7564
		Production Casing	14032	MD
Onondaga 7564				



Land curve @

7,532' TVD 9,149' MD

KOP@

Est. TD@

7,532' TVD 14,032' MD

Office of Oil & Gas

Proposed Well Work:

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

Drill the vertical to an approximate depth of 2995'.

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

4,883' Lateral

EQT Production

Hydraulic Fracturing Monitoring Plan

Pad ID: BIG245

Wetzel County, WV

11/8/16

REGEIVED
Office of Oil and Gas

NOV 0 9 2016

WV Department of 2 Environmental Protection 3/03/2017

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:

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

2. Reporting

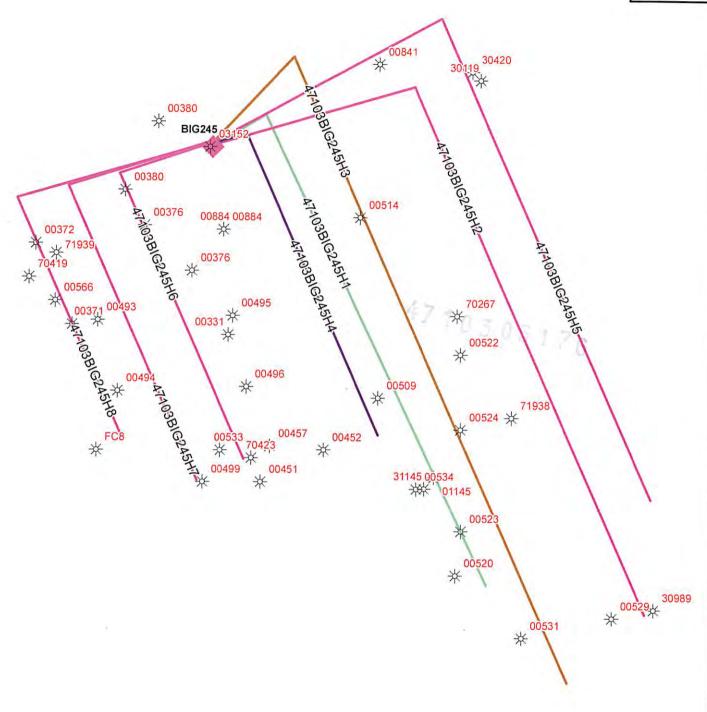
EQT will provide information relating to the hydraulic fracturing schedule, communication with other operators, and ongoing monitoring of the work upon request of OOG or immediately in the event of any noted abnormalities.

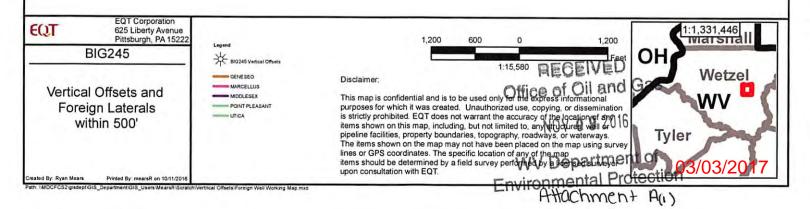
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WV Department Of 2 of 2 Environmental Protection 1/9 / 03/2017







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NO PERFORATION DATA ON IHS

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	110	9 -117	5	2285	
4710300372	GAS-P	3/10/1951	00372	FOSTER MCKENZIE	39.591700	-80.577300	84	2			
4710300376	GAS	4/11/1952	00376	P C MCKENZIE	39.590700	-80.569800	126	5			
4710300380	DRY	5/23/1952	00380	P C MCKENZIE	39.596200	-80.571400	126	7			
4710300495	STORAGE	3/15/1963	00495	EPC	39.589000	-80.567800	110	9 -101:	L	2120	
47103FC8	P&A		FC8	UNK	39.584100	-80.574400					
47103003710000		2/1/1951	00371	J C R PETROLEUM INCORPORATED	39.588715	-80.575575	82	5		530 C	ONEMAUGH /SERIES/
47103004930000	ABD-GW	12/30/1915	00493	EQUITABLE GAS COMPANY	39.588872	-80.574319	116	3		2234 BI	G INJUN /SD/
47103004960000		8/4/1902	00496	PITTSBURGH & W VA GAS	39.586405	-80.567188	84	4		2785 H	AMPSHIRE
47103005090000	ABD-GW	8/4/1919	00509	DUNN-MAR OIL & GAS COMPANY	39.585976	-80.560835	115	5		3243 CI	HEMUNG
47103005200000		8/2/1919	00520	HOPE NATURAL GAS	39.579415	-80.557138	93	7		2025 BI	G INJUN /SD/
47103005240000	GAS	4/5/1919	00524	EQUITABLE GAS COMPANY	39.584808	-80.556866	97	2		2882 CI	HEMUNG
47103005330000	ABD-GW	12/11/1902	00533	PITTSBURGH & W VA GAS	39.584071	-80.568456	82	9		1928 PC	DCONO
47103005660000	GAS-CB	1/1/1965	00566	J C R PETROLEUM INCORPORATED	39.589598	-80.576384	88	0		548 C	ONEMAUGH /SERIES/
47103309890000	A8D-GW	1/17/1917	30989	CARNEGIE NATURAL GAS CORPORATION	39.578108	-80.547584	120	0		3221 H	URON LOWER
47103005220000	UNKWN		00522	UNKNOWN	39.587566	-80.556866	121	4		3154 C	HEMUNG
47103005290000	GSTG	5/1/1963	00529	EQUITABLE GAS COMPANY	39.577815	-80.549603	120	0		3228 FI	FTH SAND
47103031520000	PERMIT		03152	EQT PRODUCTION COMPANY	39.595246	-80.568931	143	0			
47103005310000	PSEUDO		00531	EQUITABLE GAS COMPANY	39.577092	-80.553953	109	8			
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	126	5		1008 C	ONEMAUGH /SERIES/
47103003800000	D&A-OG	5/1/1952	00380	UNKNOWN	39.593662	-80.573006	126	7		1185 CC	ONEMAUGH /SERIES/
47103004570000	D&A-G	1/1/1958	00457	UNKNOWN	39.584228	-80.566062	110	8		859 AI	MES /LM/
47103004510000	ABD-CB	7/1/1957	00451	NORTH FORK DEVELOPMENT	39.582898	-80.566505	81	7			ENNSYLVANIAN
47103004520000	GAS-CB	8/1/1957	00452	NORTH FORK DEVELOPMENT	39.584072	-80.563459	88	-			TTSBURGH COAL
47103004940000	GSTG		00494	EQUITABLE GAS COMPANY	39.586260	-80.573381	108	6			HEMUNG
47103004990000	GSTG		00499	EQUITABLE GAS COMPANY	39.582898		92	3			HEMUNG
47103005340000	GSTG		00534	EQUITABLE GAS COMPANY	39.582608	-80.559011	106	7		2880 CH	HEMUNG
47103008840000	GSTG		00884	UNKNOWN	39.592199	-80.568269	116				
47103005140000	GSTG	5/1/1962		J A & M OIL & GAS	39.592630		110				G INJUN /SD/
47103005230000	GSTG	1/1/1963		EQUITABLE GAS COMPANY	39.581035	-80.556866					G INJUN /SD/
47103304200000	ABD-OW	2/16/1918		UNKNOWN	39.598016		131	0		3226 H	URON LOWER
47103719380000			71938	HOPE NATURAL GAS	39.585232						
47103719390000	UNKWN		71939	UNKNOWN	39.591328						
47103008840001	28 A	11/7/1989	00884	EQUITRANS INCORPORATED	39.592199	-80.568269	116	7		2211 G	REENBRIER /LM/

AT103719390000 UNKWN AT103008840001 Dil and Gas

NOV 0 9 2016

WV Deplationental Protection

Environmental Protection



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.

Sincercis

James Peterson

Environmental Resources Specialist / Permitting

Promoting a healthy environment.

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

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

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
- 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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CONCLUSIONS OF LAW

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

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

ORDER

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

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

IN THE NAME OF THE STATE OF WEST VIRGINIA

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

James Martin, Chief Office of Oil and Gas

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> > NOV 0 9 2016

WV Department of Environmental Protection/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,

Vicki Roark

Permitting Supervisor

Enc.

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4710303176

API Number 47 - 103	-
Operator's Well No.	514369

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name EQT Production Company	OD G. L. OCCOO	
Watershed (HUC 10) Rockcamp Run of Wiley Fork	OP Code 306686 Quadrangle Big Run	
Do you anticipate using more than 5,000 bbls of water to complete		
Will a pit be used? Yes No V	te the proposed well work? Yes V 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 N Reuse (at API Number Various	Number0014, 8462, 4037	
Off Site Disposal (Supply form WW-9	9 for disposal location)	
Other (Explain	D	١.
Will closed loop system be used? If so, describe: Yes, The closed loop then prepared for to	op system will remove drill cuttings from the drilling fluid. The drill cuttings are ransportation to an off-site disposal facility.	•
Drilling medium anticipated for this well (vertical and horizontal)		' '
-If oil based, what type? Synthetic, petroleum, etc. Synthetic		
Additives to be used in drilling medium? See Attached		
Drill cuttings disposal method? Leave in pit, landfill, removed of	ffsite, etc. Landfill	
-If left in pit and plan to solidify what medium will be us	sed? (cement, lime, sawdust) N/A	
-Landfill or offsite name/permit number? See Attached Li	ist	
Permittee shall provide written notice to the Office of Oil and Gas West Virginia solid waste facility. The notice shall be provided wwhere it was properly disposed.	s of any load of drill cuttings or associated waste rejected at any rithin 24 hours of rejection and the permittee shall also disclose	
on August 1, 2005, by the Office of Oil and Gas of the West Virg provisions of the permit are enforceable by law. Violations of a law or regulation can lead to enforcement action. I certify under penalty of law that I have personally e application form and all attachments thereto and that, based obtaining the information, I believe that the information is true penalties for submitting false information, including the possibilit Company Official Signature	nditions of the GENERAL WATER POLLUTION PERMIT issued inia Department of Environmental Protection. I understand that the any term or condition of the general permit and/or other applicable examined and am familiar with the information submitted on this on my inquiry of those individuals immediately responsible for e, accurate, and complete. I am aware that there are significant by of fine or imprisonment.	
Company Official (Typed Name) Victoria J. Roark	NOV 1 7 2016	
Company Official Title Permitting Supervisor	1104 1 4 5010	
Subscribed and sworn before me this 13 day of C)ctaber, 20 16	
- Fallea & Wanstreet	Notary Public OFFICIAL SEAL	×
My commission expires 4-7-2020	NOTARY PUBLIC STATE OF WEST VIRGING REPORT OF WEST VIRGING REPORT OF THE PORT	A EET

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.

Dm }} | 1-14-16

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Office of Oil & Gas

NOV 1 7 2016

	ompany	47 1 0 3 0 3 1 7	6
Proposed Revegetation Treat	tment: Acres Disturbed 3	2.63 Prevegetation pH	6.3
Lime 3	Tons/acre or to correct	ct to pH 6.5	
Fertilizer type Gra	anular 10-20-20	****	
Fertilizer amount_1	/3	lbs/acre	
Mulch_2		_Tons/acre	
		0.110	
Te	emporary	Seed Mixtures Permai	2024
Seed Type	lbs/acre		•
KY-31	40	Seed Type Orchard Grass	lbs/acre 15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15	- 7 ISING CIOVEI	
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acreage, of the land application	on area.	I application (unless engineered plans includ lude dimensions (L x W x D) of the pit, and	ing this info have been dimensions (L x W), and a
Photocopied section of invol	on area. ved 7.5' topographic sheet.	lude dimensions (L x W x D) of the pit, and	ing this info have been dimensions (L x W), and a
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Photocopied section of involved and Approved by:	on area. ved 7.5' topographic sheet.	Date:	Received

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

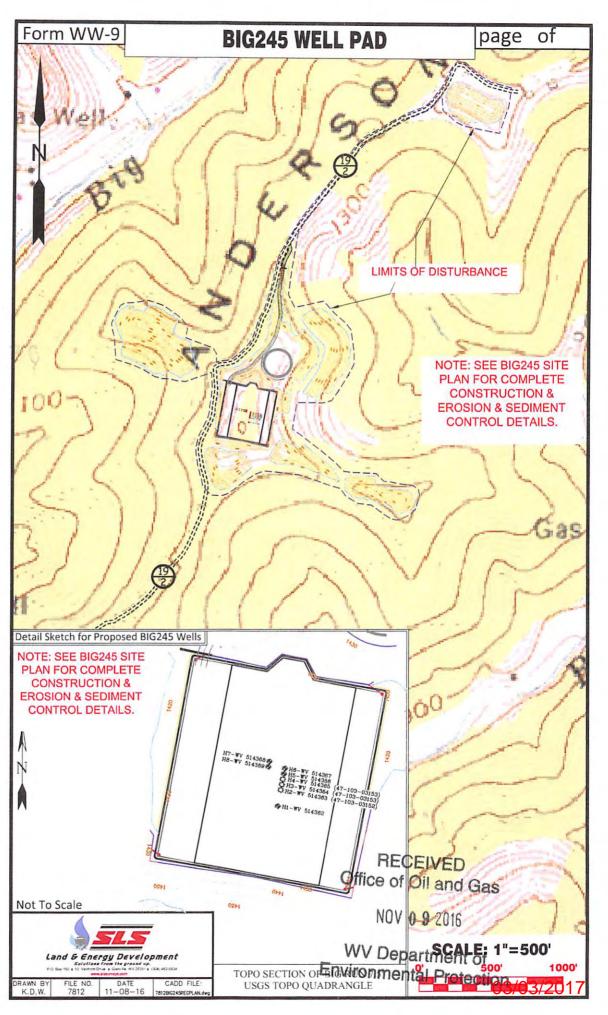
KING EXCAVATING CO.

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

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WV Department of Environmental Protections/2017



4710303176



Site Specific Safety Plan

EQT BIG 245 Pad

Burton Wetzel County, WV

	For Well	s:
_514366	<u>514367</u> <u>514368</u> <u>5</u>	514369
		
/ /	Date Prepared:	April 4, 2016
7/1.1/		67-18-
EQT Production		WW 21 12 1
// ///	2	WV Oil and Gas Inspector
Senmiting y	reculsor	Dilter France
Title		Title
10-13-16		11-14-16
Date		Date

Office of Oil & Gas NOV 1 7 2016

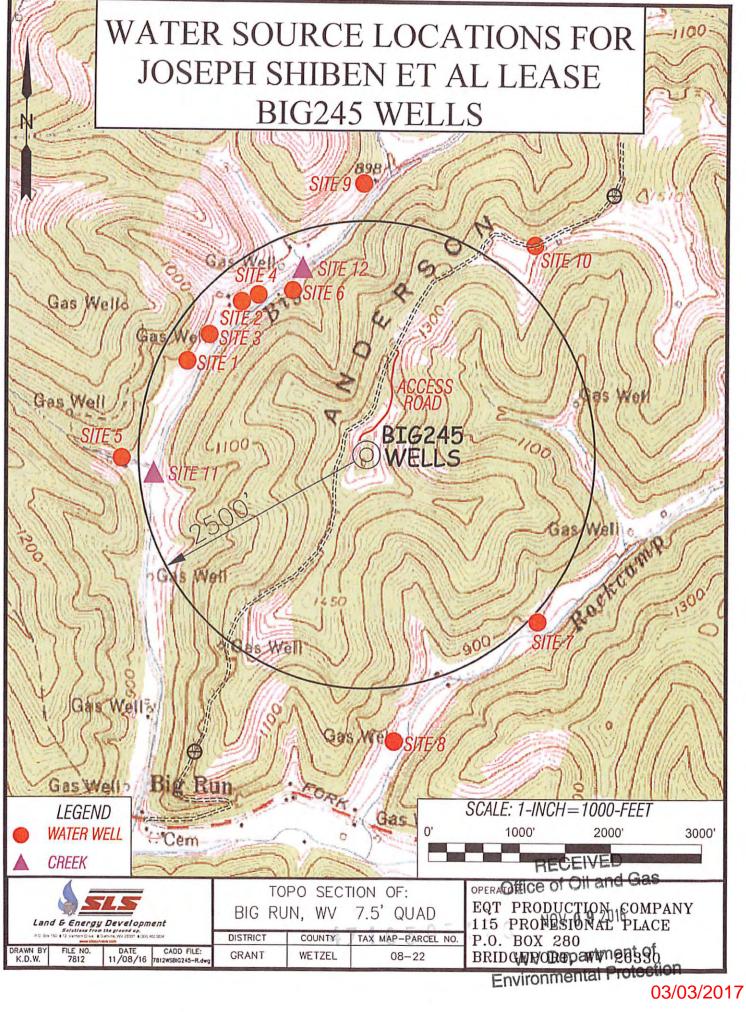
Anticipated Frac Additives Chemical Names and CAS numbers

4710303176

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

PM12 (1-14-16

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NOV 17 2016



BIG245 WV 514369 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	DALE 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	IKEY 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-8-35	DEBORAH FRONCZEK ET AL	15.50 ACRES±
G-TM-8-36	JAMES & KAREN DULANEY	14.1 ACRES±
G-TM-8-37	JAMES & KAREN DULANEY	14.1 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 & ЛІМ 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-8-52	DORN HIGGINBOTHAM	196.21 ACRES±
G-TM-8-55	MANSEL McDIFFTT ET AL	9.25 ACRES±
G-TM-13-07	MANSEL McDIFFITT ET AL	
G-TM-13-08	ROBERT & ALFRED COLE	51.8 ACRES±

ROYALTY OV	VNERS	
SHIBEN ESTATES, INC. ET AL	160.12 AC.±	LEASE NO. 102836
DEWEY J. TAYLOR ET AL	3 AC.±	LEASE NO. 125370
BONNIE M. HENTHORNE	64 AC.±	LEASE NO. 125426
MICHAEL JAY MYERS ET AL	119 AC.±	LEASE NO. 125440
ACROPOLIS INC. ET AL	74 AC.±	LEASE NO. 121160
CHESAPEAKE APPALACHIA LLC ET AL	60 AC.±	LEASE NO. 121807
TRIO PETROLEUM AND WACO OIL & GAS	26 AC.±	LEASE NO. 125383



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

MINIMUM DEGREE OF ACCURACY

1/2500

FILE NO

No. 849
STATE OF
VIRCHAIN
7812P514369R.dwg 7812P514369R.dwg

BH

TH

HORIZONTAL & VERTICAL

SEE NOTE 2 SCALE

DGPS (SURVEY GRADE TIE TO CORS NETWORK) CONTROL DETERMINED BY

8,872 LATITUDE 39°37'30" 80°32'30 **P**384 ONGITUDE ₩386 0841-P WV 514369 SEE REFERENCE BOX 8840 ₩376 NOTES ON SURVEY A495 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'.

-7,706'-

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH) NAD'27 S.P.C.(FT) N. 400,746.35 E. 1,698,758.99 NAD'27 GEO. LAT-(N) 39.595361 LONG-(W) 80.569013 NAD'83 UTM (M) N. 4,382,945.79 E. 537,021.40 LANDING POINT

E. 1,695,639.36 NAD'27 S.P.C.(FT) N. 401,272.62 NAD'27 GEO. LAT-(N) 39.596703 LONG-(W) 80.580105 NAD'83 UTM (M) N. 4,383,090.24 E. 536,068.28 **BOTTOM HOLE**

E. 1,697,547.43 NAD'27 S.P.C.(FT) N. 396,777.59 NAD'27 GEO. LAT-(N) 39.584426 LONG-(W) 80.573143 NAD'83 UTM (M) N. 4,381,730.49 E. 536,672.41

> BIG245 WELLS H1-WV 514362 STAKE 4 H2-WV 514363 H3-WV 514364 H4-WV 514365 H5-WV 514366 REFERENCES H6-WV 514367 H8 0H6 H5 H5 H3(03153) H2(03152)

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS. DATE OCTOBER 04

REVISED_ , 20

WV 514369 OPERATORS WELL NO. API

WELL STATE COUNTY

PERMIT

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



14,779

LIQUID WASTE WELL OIL "GAS" PRODUCTION X STORAGE INJECTION_ DISPOSAL DEEP_ SHALLOW_ TYPE: LOCATION: (GROUND) (PROPOSED) **ELEVATION** 1,481' 1,430' TRIBUTARY OF ROCKCAMP RUN WATERSHED GRANT WETZEL **BIG RUN 7.5'** COUNTY QUADRANGLE SURFACE OWNER _ ET BLUE GRASS LLC 138.93± ACREAGE SHIBEN ESTATES INC ROYALTY OWNER -ACREAGE 03/03/2017 125397 PROPOSED WORK: LEASE NO. . _ CONVERT _ _ DRILL DEEPER__ REDRILL FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION. PERFORATE NEW FORMATION ___ PLUG AND ABANDON. CLEAN OUT AND REPLUG_ OTHER

WELL OPERATOR EQT PRODUCTION COMPANY

PHYSICAL CHANGE IN WELL (SPECIFY)

ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280

BRIDGEPORT, WV 26330

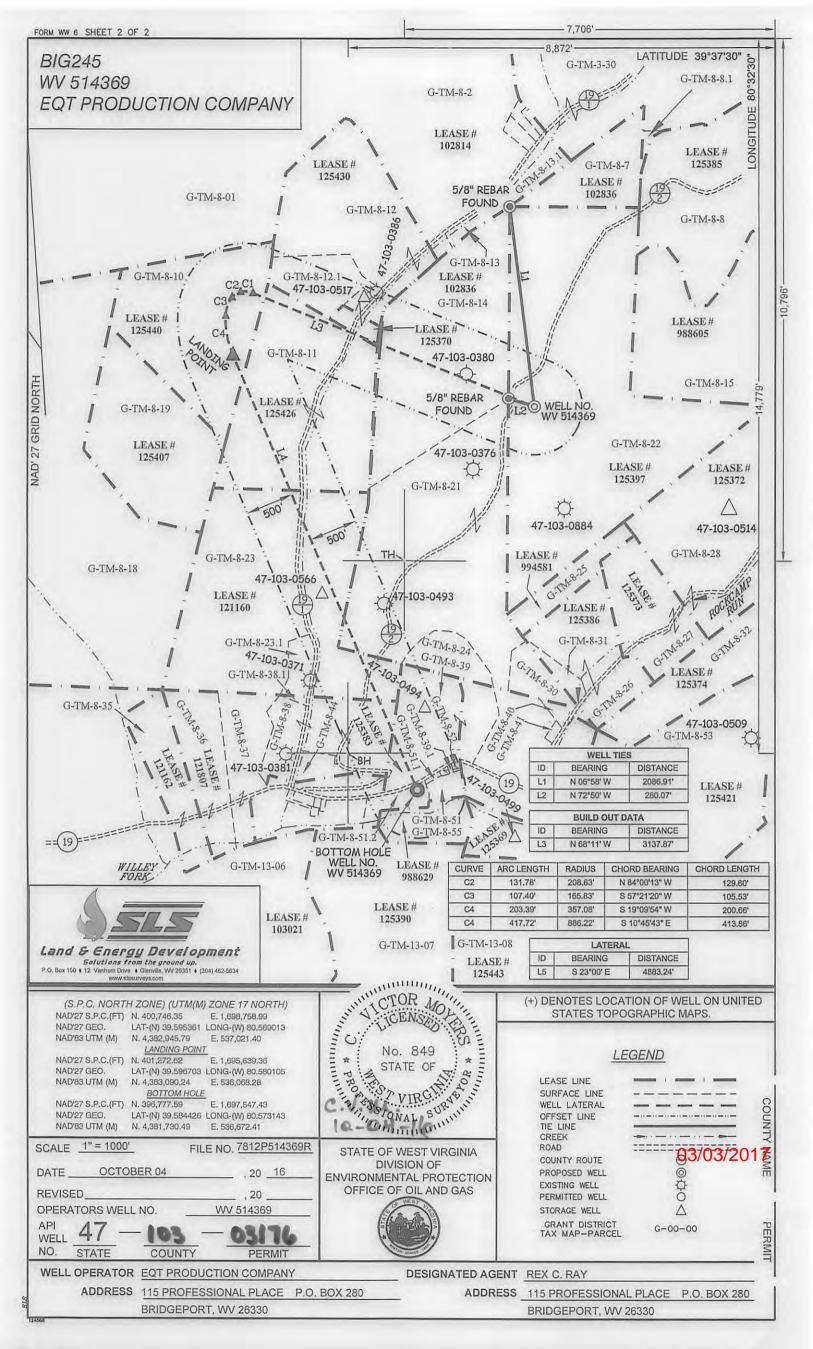
DESIGNATED AGENT REX C. RAY

TARGET FORMATION _ ESTIMATED DEPTH_

ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280

MARCELLUS

BRIDGEPORT, WV 26330



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

17 0 3

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 recovered the possibility of the need for permits and/or approvals from local, state, or federal entities intaddition to the application 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

NOV 0 9 2016

WV Department of Environmental Protection

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

Well Operator: EQT Production Company

By: Victoria J Roark

permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Its: Permitting Supervisor

Page 1 of 2

produced or marketed from the well.

Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
			·	
<u>125397</u>	ET Blue Grass LLC, et al. (current royalty owner)	••	**	
	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
	Shihan Fetatan Ing (Quanta Baratta Quanta			
102836	Shiben Estates, Inc. (Current Royalty Owner) S I Robinson		**	DD 47/400
102,000	The Philadelphia Company	The Philadelphia Company Pittsburgh and West Virginia Gas Co.		DB 47/469
	Pittsburgh and West Virginia Gas Co.	Equitable Gas Company		DB 146/98 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
105270	Dewey J. Taylor, et al. (Current Royalty Owner)	For the Occount	••	
<u>125370</u>	Austa B. Utt, et al.	Equitable Gas Company		DB 52A/173
	Equitable Gas Company	Equitrans, Inc.		O&G 71A/453
	Equitrans, Inc. Equitrans, LP	Equitrans, LP		DB 105/908
	Equipm 6, EF	EQT Production Company		O&G 131A/81
	Margaret Douglas Mastin Eirod, et al. (Current Royalt	y Owner)	••	
<u>125430</u>	Marion D. Smith, et al.	P.C. McKenzie Co.		LB 40A/331
	P.C. McKenzie Co.	Pemco Gas Incorporated		LB 43A/118
	Pernco 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
	Bonnie M. Henthorne (Current Royalty Owner)	••	••	
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
	Acropolis, Inc., et al. (Current Royalty Owner)	80	••	
<u>121160</u>	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
	Chesapeake Appalachia LLC, et al. (Current Royalty C)wner)	•	
121807	A. C. Higginbotham, et al.	Pittsburgh & West Virginia Gas Company		LB 39A/233
141441	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
105300	Trio Petroleum and Waco Oil and Gas (Current Royalt		•	1 D 444/a=
<u>125383</u>	Dora Kohn, et al.	Equitable Gas Company		LB 44A/87
	Equitable Gas Company Equitrans, Inc.	Equitrans, Inc. Equitrans, LP		O&G 71A/453
	Equitans, LP	EQT Production Company		DB 105/908
	***We certify that we will pay a minimum one-eighth of t		o the	O&G 131A/8
	owner of the working interest at the wellhead for the oil of			
	the amount to be paid to or set aside for the owner of the produced or marketed from the well.	on or gas in place, on all such oil or gas to be extrac	cted,	

WV Department of Environmental Protection



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 514369 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

Vicki Roark

Permitting Supervisor-WV

4710======

RECEIVED
Office of Oil and Gas

NOV 0 9 2016

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

Date of Notic	ce Certification: 11810	API No. 47- 103	API No. 47- 103 -			
Operator's Well No. 514369			No. 514369			
		Well Pad Name	: BIG245			
Notice has b						
Pursuant to the	e provisions in West Virginia Coc tract of land as follows:	le § 22-6A, the Operator has provided the required	parties with the Notice Forms listed			
State:	w_	Easting: 5370	21.40			
County:	Wetzel	UIMINAD 83	945.79			
District:	Grant	Public Road Access: Rt 19	/2			
Quadrangle:	Big Run	Generally used farm name: E.T.	Bluegrass LLC			
Watershed:	Rockcamp Run of Wiley Fork					
information re of giving the requirements Virginia Code	ed the owners of the surface desceptions (b) and (c), surface owner notice of entry to of subsection (b), section sixteen	d shall contain the following information: (14) A coribed in subdivisions (1), (2) and (4), subsection section sixteen of this article; (ii) that the requirer survey pursuant to subsection (a), section ten of this article were waived in writing by the still tender proof of and certify to the secretary that the cant.	n (b), section ten of this article, the ment was deemed satisfied as a resulf this article six-a; or (iii) the notice surface owner; and Pursuant to Wes			
Pursuant to V	West Virginia Code § 22-6A, the crator has properly served the requ	Operator has attached proof to this Notice Certific ired parties with the following:	ation			
*PLEASE CHE	CK ALL THAT APPLY	-	OOG OFFICE USE ONLY			
□ 1. NOT	TICE OF SEISMIC ACTIVITY	or NOTICE NOT REQUIRED BECAUSE N SEISMIC ACTIVITY WAS CONDUCTED	NO RECEIVED/ NOT REQUIRED			
☐ 2. NOT	TICE OF ENTRY FOR PLAT SUI	RVEY or 🔳 NO PLAT SURVEY WAS CONDU	JCTED RECEIVED			
■ 3. NOT	CICE OF INTENT TO DRILL O	NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	☐ RECEIVED/ NOT REQUIRED			
		☐ WRITTEN WAIVER BY SURFACE OF (PLEASE ATTACH)	WNER			
■ 4. NOT	TICE OF PLANNED OPERATION	N	. 🗆 RECEIVED			
■ 5. PUB	LIC NOTICE		☐ RECEIVED			
■ 6. NOT	TCE OF APPLICATION		□ RECEIVED			

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall 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 finder 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.

WV Department of Environmental Protection Certification of Notice is hereby given:

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

Well Operator:EQT Production CompanyAddress:115 Professional Place PO Box 280By:Victoria J RoarkBridgeport WV 26330Its:Permitting SupervisorFacsimile:304-848-0041Telephone:304-848-0076Email:vroark@eqt.com



Subscribed and sworn before me this 13 day of October 2016

Schelea & wanstreet Notary Pub

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 deprivacyofficer@wv.gov.

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Office of Oil and Gas

NOV 0 9 2016

WV Department of Environmental Protection 03/03/2017

API NO. 47-103 -	_
OPERATOR WELL NO.	514369
Well Pad Name: BIG245	

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

Noti	ice Time Requirem	ent: notice shall be provide	ed no later tha	m the filing date of permit application.	
	e of Notice: <u> 8 (</u> ice of:	Date Permit Application	on Filed: \\	βμω	
7	PERMIT FOR AN			PROVAL FOR THE AN IMPOUNDMENT OR PIT	
Deli	very method pursu	ant to West Virginia Cod	le § 22-6A-10	(b)	
	PERSONAL	REGISTERED	☑ метн	OD OF DELIVERY THAT REQUIRES A	
	SERVICE	MAIL		PT OR SIGNATURE CONFIRMATION	
regis sedir the soil are described well important important properties. The subserving record proving Code sediments and sediments are considered as a sediment of the subserving record	treate of approval for tered mail or by any innent control plan requestrace of the tract on and gas leasehold being ribed in the erosion and ator or lessee, in the expectation control of the surface to the expectation of the surface to the expectation (b) of this section of this article to the expectation of the expectation of the expectation of this article to the expectation of the expec	the construction of an impo- method of delivery that requ- uired by section seven of thi which the well is or is prop- g developed by the proposed and sediment control plan sul- event the tract of land on whowners of record of the surf- ract is to be used for the place scribed in section nine of thi- or water supply source locat ption by humans or domesti- ty is to take place. (c)(1) If ro- ion hold interests in the land ired to be maintained pursual the contrary, notice to a lier- uires, in part, that the operat-	bundment or pi ires a receipt of a article, and to osed to be located well work, if bmitted pursuation the well properties article; (5) Ared within one canimals; and more than three ls, the applicare ant to section of the holder is not or shall also properties.	of the application, the applicant for a permit for any we take a required by this article shall deliver, by personal so or signature confirmation, copies of the application, the he well plat to each of the following persons: (1) The cotted; (2) The owners of record of the surface tract or tracticles; (3) The owners of the surface tract or to the surface tract is to be used for roads or other land of the surface tract is to be used for roads or other land of the surface tract is to be used for roads or other land of the surface tract is to be used for roads or other land of the surface overlying the oil and gas leasehold being develope uction, enlargement, alteration, repair, removal or abandary surface owner or water purveyor who is known to thousand five hundred feet of the center of the well part (6) The operator of any natural gas storage field withing tenants in common or other co-owners of interests deat may serve the documents required upon the person death, article one, chapter eleven-a of this code. (2) No notice to a landowner, unless the lien holder is the landowide the Well Site Safety Plan ("WSSP") to the surface as provided in section 15 of this rule.	ervice or by e erosion and owners of record of acts overlying the listurbance as he coal owner, derlain by one or d by the proposed indonment of any the applicant to d which is used to n which the escribed in lescribed in the twithstanding any downer. W. Va.
			Plan Notice	☑ Well Plat Notice is hereby provided to:	
	JRFACE OWNER(s e: See Attached)		COAL OWNER OR LESSEE Name: See Attached	
Addı				Address:	
Nam	e:			☐ COAL OPERATOR	
				Name:	
				Address:	(%)
) (Road and/or Other Distu	ırbance)		
	e: See Attached			SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)	
7 IGGI				Name:	
Nam	e:			Address:	
Addı	ess:				
				OPERATOR OF ANY NATURAL GAS STOR	AGE FIELD
) (Impoundments or Pits)		Name:	n
	e: See Attached			Address: 网络CEIVE	4 Coo
	C55			*Please attach additional forms if necessary	

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WV Department of Environmental Protection/2017

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API NO. 47- 103 -OPERATOR WELL NO. 514369

Well Pad Name: BIG245

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 Engineers within any waters of the state engineers. in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple colleged if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Update in the part of 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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API NO. 47-103

OPERATOR WELL NO. 514369

Well Pad Name: BIG245

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

RECEIVED

Such persons may request, at the time of submitting written comments, notice of inflication of the company of the comments of

NOV 0 9 2016

WW-6A (8-13)

API NO. 47-_103

OPERATOR WELL NO. 514369

Well Pad Name: BIG245

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.

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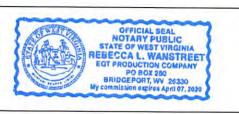
API NO. 47- 103 OPERATOR WELL NO. 514369
Well Pad Name: BIG245

Notice	is	hereby	given	hv.
TOTICE	13	nerchy	Siven	Dy.

Well Operator: EQT Production CompanyAddress: 115 Professional Place PO Box 280Telephone: 304-848-0076Bridgeport WV 26330Email: vroark@eqt.comFacsimile: 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 deprivacyofficer@wv.gov.



Subscribed and sworn before me this 13 day of October2016

Agueria & Wanstreet

Notary Public

My Commission Expires 4-7-2020

Office of Oil and Gas

NOV 0 9 2016

Surface Owners:

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

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WV Department of Environmental Protection

API NO. 47- 103 -	
OPERATOR WELL NO.	514369
Well Pad Name: BIG245	

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

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

WW-6A and required, and State: County: District: Quadrangle: Watershed:	, hereby state that I have rested above, and that I have received copies of attachments consisting of pages one (1) the well plat, all for proposed well work on the www. Www. Wetzel Grant Big Run Rockeamp Run of Wiley Fork	a Notice of A rough te tract of land UTM NAI Public Roa Generally	pplication, an Apping including including in as follows: Base Easting: Northing: Access: Sed farm name:	blication for a Well Work Permit on Form the erosion and sediment control plan, if 537021.40 4382945.79 Rt 19/2 E.T. Bluegrass LLC
issued on thos	that I have no objection to the planned work of the materials. the box that applies	described in the		
riease check	t the box that applies		FOR EXECUT	ON BY A NATURAL PERSON
SURFACE	CE OWNER		Signature	
■ SURFAC	CE OWNER (Road and/or Other Disturban	nce)	Print Name:	
SURFACE	CE OWNER (Impoundments/Pits)		•	
■ COAL C	OWNER OR LESSEE		Company: ET Blue	ON BY A CORPORATION, ETC.
□ COAL O	PERATOR		By: John Damato Its: Regional Land Di	rector
□ WATER	PURVEYOR		Signature:	Hon
☐ OPERA?	TOR OF ANY NATURAL GAS STORAG	GE FIELD	Date:	11.7-16
Oil and Cas l	Privacy Natice			RECEIVED

Oil and Gas Privacy Notice:

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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





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API NO. 47- 103 -	
OPERATOR WELL NO.	514369
Well Pad Name: BIG245	

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

VOLUNTARY STATEMENT OF NO OBJECTION

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VOLUNTARY STATEMENT OF NO OBJECTION

*Please check the box that applies SURFACE OWNER SURFACE OWNER (Road and/or Other Disturbance) SURFACE OWNER (Road and/or Other Disturbance) SURFACE OWNER (Impoundments/Pits) COAL OWNER OR LESSEE COAL OPERATOR WATER PURVEYOR OPERATOR OF ANY NATURAL GAS STORAGE FIELD FOR EXECUTION BY A NATURAL PERSON Signature: Print Name: Date: FOR EXECUTION BY A CORPORATION, ETC. Company: ET Blue Grass LLC By: John Damato Its: Regional Land Director Signature: Date: // 7-/6 RECEIVED	required, and State: County: District: Quadrangle: Watershed:	, hereby state that I have reacted above, and that I have received copies of a attachments consisting of pages one (1) through the well plat, all for proposed well work on the www. Wetzel Grant Big Run Rockcamp Run of Wiley Fork that I have no objection to the planned work do se materials.	a Notice of A ough tract of land UTM NAD Public Roa Generally	pplication, an App including to as follows: Easting: Northing: d Access: used farm name:	blication for a Well Work Permit on Form the erosion and sediment control plan, if 537021.40 4382945.79 Rt 19/2 E.T. Bluegrass LLC
■ SURFACE OWNER (Road and/or Other Disturbance) ■ SURFACE OWNER (Impoundments/Pits) ■ COAL OWNER OR LESSEE □ COAL OPERATOR □ WATER PURVEYOR □ OPERATOR OF ANY NATURAL GAS STORAGE FIELD Signature: Print Name: Date: Print Name: Date: Date: Print Name: Date: Print Name: Date: Date: Print Name: Date: Date: Print Name: Date: Date: Date: Print Name: Date: Dat	*Please check	the box that applies		FOR EXECUTI	ON BY A NATURAL PERSON
■ SURFACE OWNER (Road and/or Other Disturbance) ■ SURFACE OWNER (Impoundments/Pits) ■ COAL OWNER OR LESSEE □ COAL OPERATOR □ WATER PURVEYOR □ OPERATOR OF ANY NATURAL GAS STORAGE FIELD	■ SURFAC	CE OWNER		Signature:	
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☐ COAL OPERATOR ☐ WATER PURVEYOR ☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD Its: Regional Land Director Signature: Date: /// 7-/6 RECEIVED				Company: ET Blue	ON BY A CORPORATION, ETC. Grass LLC
□ WATER PURVEYOR □ OPERATOR OF ANY NATURAL GAS STORAGE FIELD Signature: Date: 17.7-16 RECEIVED	□ COAL O	PERATOR		· -	rector
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Oil and Gas Privacy Notice:

Office of Oil and Gas

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Fryironmental Protection

Surface Owners (Pits, Impoundments, or AST):

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

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WV Department of Environmental Protection

API NO. 47- <u>103</u> -	
OPERATOR WELL NO.	514369
Well Pad Name: BIG245	

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

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WW-6A and required, and state: County: District: Quadrangle: Watershed:	Rockcamp Run of Wiley Fork that I have no objection to the planned work d	a Notice of Agough e tract of land a UTM NAD Public Roa Generally t	pplication, an App , including t as follows: Basting: Northing: d Access: used farm name:	blication for a Well Work Permit on Form the erosion and sediment control plan, if 537021.40 4382945.79 Rt 19/2 E.T. Bluegrass LLC
*Please check	the box that applies		FOR EXECUTI	ON BY A NATURAL PERSON
■ SURFACE	CE OWNER			
■ SURFAC	E OWNER (Road and/or Other Disturban	ıce)	Print Name:	
■ SURFAC	CE OWNER (Impoundments/Pits)		Date:	
	WNER OR LESSEE		FOR EXECUTI Company: ET Blue	ON BY A CORPORATION, ETC. Grass LLC
□ COAL O	PERATOR		By: John Damato Its: Regional Land Dir	
□ WATER	PURVEYOR			Hha.
□ OPERAT	TOR OF ANY NATURAL GAS STORAC	E FIELD	Signature:	11.7-16

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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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API NO. 47-103 -	
OPERATOR WELL NO.	514369
Well Pad Name: BIG245	

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

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*Please check	the box that applies	F	FOR EXECUTI	ON BY A NATURAL PERSON
■ SURFAC	CE OWNER		Signaturo:	
■ SURFAC	E OWNER (Road and/or Other Disturban	ce) I	rint Name:	
■ SURFAC	E OWNER (Impoundments/Pits)	1	Jate:	
	WNER OR LESSEE		FOR EXECUTI Company: ET Blue (ON BY A CORPORATION, ETC. Grass LLC
□ COAL O	PERATOR		3y: John Damato ts: Regional Land Dir	rector
□ WATER	PURVEYOR	1		Hha.
□ OPERAT	TOR OF ANY NATURAL GAS STORAG		Signature:	16.7-16

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Operator	Well No.	514369

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 Date of Notice	Requirement: Notice shall be provid ce: 09/30/2016 Date	ed at least TEN (10) days prior to filing a Permit Application Filed: 10/10/2016	permit application.
Delivery me	thod pursuant to West Virginia Cod	e § 22-6A-16(b)	
☐ HAND	CERTIFIED MAIL		
DELIVE	RETURN RECEIPT	REQUESTED	
receipt request drilling a hor of this subsect subsection ma	sted or hand delivery, give the surface izontal well: <i>Provided</i> , That notice gition as of the date the notice was provay be waived in writing by the surface	owner notice of its intent to enter upon t ven pursuant to subsection (a), section to ided to the surface owner: Provided, how	, an operator shall, by certified mail return he surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this lude the name, address, telephone number, or's authorized representative.
Notice is he	reby provided to the SURFACE	OWNER(s):	
Name: See Atta	ched	Name: See Attached	
Address:		Address:	
State: County: District: Quadrangle:	Wetzel Grant Big Run	UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:	537021.40 4382945.79 Rt 19/2
Quadrangle: Watershed:	Rockcamp Run of Wiley Fork	Generally used farm name:	E.T. Bluegrass LLC
Pursuant to V facsimile nun related to hor	nber and electronic mail address of t izontal drilling may be obtained from	he operator and the operator's authorize the Secretary, at the WV Department of	ess, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
	reby given by:		
	EQT Production Company	Authorized Representative:	Victoria Roark
Address:	115 Professional Place PO Box 280	Address:	115 Professional Place PO Box 280
Bridgeport WV 26 Telephone:		Bridgeport WV 26330	
eiepnone: Email:	304-848-0076	Telephone:	304-848-0076
	vroark@eqt.com	Email:	vroark@eqt.com
acsimile:	304-848-0041	Facsimile:	304-848-0041
	Privacy Notice:		GEIVED

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 (1) 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.

Surface Owners:

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

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> > NOV 0 9 2016

WV Department of Environmental Protection

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 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.

County:			Easting:	537021.40
County.	Wetzel	UTM NAD 83	Northing:	4382945.79
District:	Grant	Public Road Acc	ess:	Rt 19/2
Quadrangle:	Big Run	Generally used f	arm name:	E.T. Bluegrass LLC
Watershed:	Rockcamp Run of Wiley Fork			

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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

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Surface Own I,	• • •	read the notice pro	ovisions listed t of land as fo	above and hereby waive the llows:
State:	w	11771 4 3 1 4 75 0 0	Easting:	537021.40
County:	Wetzel	UTM NAD 83	Northing:	4382945.79
District:	Grant	Public Road Acc		Rt 19/2
Quadrangle:	Big Run	Generally used f	farm name:	E.T. Bluegrass LLC
Watershed:	Rockcamp Run of Wiley Fork	•		
	anda Byard 250 Meadowlane DR wisport, Ky 42351	Signature:	Wane 10-6	da L Byard

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State:	W	UTM NAD 83	Easting:	537021.40
County:	Wetzel	UTWINAD 63	Northing:	4382945.79
District:	Grant	Public Road Acc	cess:	Rt 19/2
Quadrangle:	Big Run	Generally used to	farm name:	E.T. Bluegrass LLC
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Office of Oil and Gas

NOV 0 9 2016

WW-6A5 (1/12)

Operator Well No. 514369

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

	ce: 11 8 110 Date Permit	Application Filed: 1	rione -	
Delivery me	thod pursuant to West Virginia Code	§ 22-6A-16(c)	•	
	FIED MAIL RN RECEIPT REQUESTED] HAND DELIVERY		
the planned required to b drilling of a damages to t	t requested or hand delivery, give the sur operation. The notice required by this e provided by subsection (b), section ten horizontal well; and (3) A proposed sur he surface affected by oil and gas operati	face owner whose land subsection shall include of this article to a surfa rface use and compensions to the extent the da	will be used for le: (1) A copy ace owner whose ation agreemer mages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter. sted in the records of the sheriff at the time
Notice is her (at the address Name: See Atta	reby provided to the SURFACE OWNI is listed in the records of the sheriff at the	time of notice):	ee Attached	
Pursuant to V operation on State: County:	Vest Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose wwwetzel	of drilling a horizontal UTM NAD 83	well on the tra Easting: Northing:	ct of land as follows: 537021.40 4382945.79
Notice is her Pursuant to V operation on State: County: District: Quadrangle: Watershed:	Vest Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose w	of drilling a horizontal	well on the tra Easting: Northing:	ct of land as follows: 537021.40
Pursuant to Voperation on State: County: District: Quadrangle: Watershed: This Notice Solution of the provide the provide the provide the provident of the prov	Vest Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose www. Wetzel Grant Big Run Rockcamp Run of Wiley Fork Shall Include: Vest Virginia Code § 22-6A-16(c), this need by W. Va. Code § 22-6A-10(b) to a sell; and (3) A proposed surface use and ceed by oil and gas operations to the exteelated to horizontal drilling may be obtocated at 601 57th Street, SE, Chair	of drilling a horizontal UTM NAD 83 Public Road A Generally used otice shall include: (1)/ surface owner whose ompensation agreement the damages are contained from the Secreta	well on the tra Easting: Northing: Access: d farm name: A copy of this cland will be ut toontaining an impensable undury, at the WV	ct of land as follows: 537021.40 4382945.79 Rt 19/2
Pursuant to Voperation on State: County: District: Quadrangle: Watershed: This Notice Sursuant to Voto be provide horizontal we surface affect information readquarters, gas/pages/def	West Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose www. Wetzel Grant Big Run Rockcamp Run of Wiley Fork Shall Include: Vest Virginia Code § 22-6A-16(c), this need by W. Va. Code § 22-6A-10(b) to a cill; and (3) A proposed surface use and ceed by oil and gas operations to the exterelated to horizontal drilling may be obtolocated at 601 57th Street, SE, Characault.aspx.	of drilling a horizontal UTM NAD 83 Public Road A Generally used otice shall include: (1) surface owner whose ompensation agreement the damages are contained from the Secretar releston, WV 25304 (2)	well on the tra Easting: Northing: Access: d farm name: A copy of this cland will be ut toontaining an impensable undury, at the WV	ct of land as follows: 537021.40 4382945.79 Rt 19/2 E.T. Bluegrass LLC code section; (2) The information required ased in conjunction with the drilling of a offer of compensation for damages to the er article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-
Pursuant to Voperation on State: County: District: Quadrangle: Watershed: This Notice Sursuant to Voto be provide thorizontal we surface affect information readquarters, gas/pages/def	Vest Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose wwwetzel Grant Big Run Rockcamp Run of Wiley Fork Shall Include: Vest Virginia Code § 22-6A-16(c), this need by W. Va. Code § 22-6A-10(b) to a cell; and (3) A proposed surface use and cell; and (3) A proposed surface use and cell you illustrated to horizontal drilling may be obtolocated at 601 57th Street, SE, Characult.aspx.	of drilling a horizontal UTM NAD 83 Public Road A Generally used otice shall include: (1)/ surface owner whose ompensation agreement the damages are contained from the Secretarleston, WV 25304 (2) Address:	well on the tra Easting: Northing: Access: d farm name: A copy of this cland will be ut containing an impensable undury, at the WV 304-926-0450) 115 Professional Pla Bridgeport WV 26334	ct of land as follows: 537021.40 4382945.79 Rt 19/2 E.T. Bluegrass LLC code section; (2) The information required is ed in conjunction with the drilling of a offer of compensation for damages to the er article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-ce-po-box-280

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.

RECEIVED
Office of Oil and Gas

NOV 0 9 2016

WV Department of Environmental Protection

Surface Owners:

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

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Office of Oil and Gas

NOV 0 9 2016

WV Department of Environmental Protection

API NO. 47- 103 -	
OPERATOR WELL NO.	514369
Well Pad Name: BIG245	

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

WW-6A and	, hereby state that I have reacted above, and that I have received copies of attachments consisting of pages one (1) that the well plat, all for proposed well work on the work well work on the well work of the well grant Big Run Rockcamp Run of Wiley Fork	a Notice of A rough te tract of land UTM NAD Public Roa	pplication, an Appin including as follows: Easting: Northing:	plication for a Well Work Permit on Form the erosion and sediment control plan, if 537021.40 4382945.79 Rt 19/2
issued on thos	that I have no objection to the planned work of the materials.	described in the		I have no objection to a permit being ION BY A NATURAL PERSON
■ SURFAC	CE OWNER			
	CE OWNER (Road and/or Other Disturbar	nce)	Print Name:	
SURFACE	CE OWNER (Impoundments/Pits)		•	
■ COAL C	WNER OR LESSEE		Company: ET Blue	ION BY A CORPORATION, ETC. Grass LLC
□ COAL O	PERATOR		By: John Damato Its: Regional Land Di	rector
□ WATER	PURVEYOR		Signature:	Hhr_
□ OPERA?	TOR OF ANY NATURAL GAS STORAG	GE FIELD	Date:	167-16

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NOV 0 9 2016

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





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Office of Oil and Gas

NOV 0 9 2016

WV Department of Environmental Protection

API NO. 47- <u>103</u> -	
OPERATOR WELL NO.	514369
Well Pad Name: BIG245	

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VOLUNTARY STATEMENT OF NO OBJECTION

I, John Damato , hereby state the provisions listed above, and that I have receive WW-6A and attachments consisting of pages required, and the well plat, all for proposed we State: County: Wetzel District: Grant Quadrangle: Big Run Watershed: Big Run Watershed: Rockcamp Run of Wiley Fork I further state that I have no objection to the platissued on those materials.	red copies of a Notice of Applicates one (1) through	ation, an App , including to lows: Easting: Northing: dess: arm name:	the erosion and sediment control plan, if 537021.40 4382945.79 Rt 19/2 E.T. Bluegrass LLC
*Please check the box that applies	FOI	EXECUTI	ON BY A NATURAL PERSON
SURFACE OWNERSURFACE OWNER (Road and/or Other	Sign er Disturbance)	ature: t Name:	
■ SURFACE OWNER (Impoundments/P	Date	::	
■ COAL OWNER OR LESSEE	R EXECUTI pany: ET Blue John Damato	ON BY A CORPORATION, ETC. Grass LLC	
☐ COAL OPERATOR		Regional Land Di	rector
☐ WATER PURVEYOR	Sign	ature:	Hon
☐ OPERATOR OF ANY NATURAL GA	AS STORAGE FIELD Date	:	16.7-16

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Surface Owners (Pits, Impoundments, or AST):

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

W

RECEIVED
Office of Oil and Gas

NOV 0 9 2016

WV Department of Environmental Protection

API NO. 47- 103 -	
OPERATOR WELL NO.	514369
Well Pad Name: BIG245	

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State: County: District: Quadrangle: Watershed:	attachments consisting of pages one (1) thr the well plat, all for proposed well work on the WW Wetzel Grant Big Run Rockcamp Run of Wiley Fork	UTM NAD 8 Public Road A Generally use	follows: Basting: Northing: Access: d farm name:	537021.40 4382945.79 Rt 19/2 E.T. Bluegrass LLC
issued on tho			materials, and	I have no objection to a permit being
i icase check	the box that applies	F	OR EXECUT	ON BY A NATURAL PERSON
■ SURFA	••	S P	ignature: rint Name:	ON BY A NATURAL PERSON
SURFACE SURFACE COAL COAL COAL COAL COAL COAL COAL COAL	CE OWNER	S P D	ignature: rint Name: Date:	ON BY A CORPORATION, ETC.

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Office of Oil and Gas.

NOVWY Department of Environmental Protection 3/03/2017



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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		516530 BIG245H27	516531 BIG245H28
516532 BIG245H29	516533 BIG245H30		

Dear Mr. Martin,

Earl Ray Tomblin

Governor

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 Engineer Central Office O&G Coordinator

Ce: Nick Bumgardner

EQT Production Company

CH, OM, D-6, File

Anticipated Frac Additives Chemical Names and CAS numbers

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

RECEIVED Office of Oil and Gas

NOV 0 9 2016

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, WY TOTAL PROPERTY AREA: 51.0 +/- ACRES TOTAL DISTURBANCE AREA: 6.1 +/- ACRES

KEY JOE WILLEY MAP 08 PARCEL 21 GRANT DISTRICT, WETZEL COUNTY, WY TOTAL PROPERTY AREA: 76.27 +/- ACRES TOTAL DISTURBANCE AREA: 0.2 +/- ACRES

ET BLUE GRASS LLC. MAP OR PARCEL 22 GRANT DISTRICT, WETZEL COUNTY, WY TOTAL PROPERTY AREA: 138.93 +/- ACRES TOTAL DISTURBANCE AREA: 30.5 +/- ACRES

OIL AND GAS ROYALTY OWNER SHIBEN ESTATER, INC.
GRANT DISTRICT, WETZEL COUNTY, WY 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. 19/2 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: 39.59388 LONGITUDE: 80.569747 (NAD 83)

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

EQT BIG 245 AST PAD CENTER LATITUDE: 39,545496 LONGITUDE: 80,866501 (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

SITE DISTURBANCE COMPUTATIONS

WELL PAD/ MAIN ACCESS ROAD= 4.6 +/- ACRES AST PAD/AST ACCESS ROAD = 3.1 +/- ACRES STOCKPILES = 30.6 +/- ACRES TOTAL SITE DISTURBANCE AREA = 38.4 +/- ACRES

ENTRANCE PERMIT

EQT PRODUCTION COMPANY WILL OBTAIN AN ENCROACHMENT PERMIT (FORM MM-109) 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

GEOTECHNICAL NOTES

A SUBSURFACE INVESTIGATION HAS BEEN PERFORMED FOR THIS SITE AND GEOTECHNICAL REPORT HAS BEEN PRPARED BY LARSON DESIGN GROUP DATED 10/23/2015. THE ENGINEER AND SURVEYORARE NOT RESPONSIBLE DATES 1922/2015. THE ENGINEER REGULARITIES CAUSING ADDITIONAL WORK OR ADDITIONAL CONSTRUCTION MEASURES REQUIRED BEYOND HOSE STANDARD PRACTICES SHOWN ON THIS PLAMAS A RESULT OF ANY OTHER GEOTECHNICAL COMPLICATIONS ENCOUNTERED DURING CONSTRUCTION.

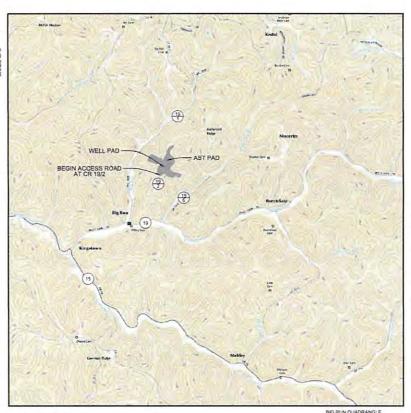
ENVIRONMENTAL NOTES

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 A ASSOCIATES TO REVIEW THE SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE REGULATORY PURVIEW OF THE U.S. ARMY CORPS OF ENGINEERS (USAGE) ANDOR THE WEST VIRGINAL DEPARTMENT OF ENVIRONMENTAL PROTECTION (WODEP). THE MMY, 27 2015 REPORT FOR THE BIG 245 SITE WAS PREPARED BY POTESTA & ASSOCIATES. INC. 2015 REPORT FOR RESIDENCE THE MISSION OF THE MISSION OF THE REPORT OF THE REPORT OF THE MISSION OF THE MISSION OF THE MISSION OF THE REPORT OF 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.

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



RESTRICTIONS NOTES

1. THERE ARE INTERMITTENT STREAMS, LAXES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE PROJECT LOD. THERE ARE WEILANDS WITHIN 100 FEET OF THE LOD, AND A WAYNER FROM THE WADER WILL BE APPLIED FOR THROUGH THE ARMY COPPS OF ENGINEERS BY SCIP PROGUCTION COMPANY. 2. THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300 FEET OF THE PAD AND LOD.

LITEME AND THAT UND THAT PRODUCING THOUT STREAMS WITHIN 300 FEET OF THE PAO AND LOD.
J. THERE ARE NO GROUNDWINATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1000 FEET OF THE PAO AND LOD.
4. THERE ARE NO EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF THE WELLIS) BEING DRILLED.
STANTEC AND SMITH LAND SURVEYING ARE NOT RESPONSIBLE FOR ANY EXISTING WATER WELL DEVELOPED SPRING DISCOVERED DURING CONSTRUCTION.

5. THERE ARE NO OCCUPIED DWELLING STRUCTURES WITHIN 650 FEET OF THE CENTER OF THE PAD.
6. THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2500 SQUARE FEET OF THE CENTER OF THE PAD.

7.5 MINUTE SERIES

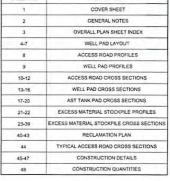
MISS Utility of West Virginia 1-800-245-4848 West Virginia State Law (Section XIV, Chapter 24-C) Requires that you call two business days before you dig in the state of West Virginia, IT'S THE LAW!

APPROVED WVDEP OOG

4/28/2016

LIST OF DRAWINGS

SHEET NO DESCRIPTION COVER SHEET GENERAL NOTES OVERALL PLAN SHEET INDEX WELL PAD LAYOUT 4-7 ACCESS ROAD PROFILES WELL PAD PROFILES ACCESS ROAD CROSS SECTIONS WELL PAD CROSS SECTIONS 13-16 AST TANK PAD CROSS SECTIONS 17-20 EXCESS MATERIAL STOCKPILE PROFILES. 40-43 TYPICAL ACCESS ROAD CROSS SECTIONS 44



<u>LEGEND</u>			
EX, INDEX CONTOUR		PROP, INDEX CONTOUR	1550
EX, INTERMEDIATE CONTOUR	1550	PROP. INTERMEDIATE CONTOUR	
EX, BOUNDARY LINE		PROP, CUT LINE	C
EX, EDGE OF ROAD PAVEMENT		PROP. FILL LINE	- F-
EX. GUARDRAIL	-	PROP. LIMITS OF DISTURBANCE	
EX, FENCELINE	_xx_	ENVIRONMENTAL ASSESSMENT	
EX, GATE	0-0	AREA OF DELINEATION	
EX. OVERHEAD UTILITY	- E -	PROP. WELL HEAD	-
EX. OVERHEAD UTILITY R/W			-
EX. UTILITY POLE	-0-	PROP. CONTAINMENT BERM	
EX. GUY WIRE	\longrightarrow	PROP. ROAD CENTERLINE	
EX. TELEPHONE LINE	- T -	PROP, V-DITCH	
EX. GASLINE		WITH CHECK DAMS	
EX, GASLINE R/W		PROP, CULVERT	_
EX, WATERLINE	— w —	PROP. RIP-RAP OUTLET PROTECT	ION ASS
EX, WATER WELL	0	PROP. RIP-RAP INLET PROTECTION	N ES
EX. GAS WELL	*	PROP, COMPOST FILTERSOCK	—-CF
EX. TREELINE	~~	PROP, TREELINE	· · · · ·
EX. REFERENCE TREE	\Diamond	PROP, STONE CONSTRUCTION ENTRANCE	
EX. DELINEATED STREAM		v acoriou care wacy	
EX. DELINEATED WETLAND	F-A-K-A-K	X-SECTION GRID INDEX	
		X-SECTION GRID INTERMEDIATE	
EX, BUILDING		X-SECTION PROPOSED GRADE	
		X-SECTION EXISTING GRADE	

OPERATOR

EQT PRODUCTION COMPANY OPERATOR ID: 306686 P.O. BOX 280 BRIDGEPORT, WV 26630 PHONE: (304) 348-3870

ENGINEER

STANTEC CONSULTING INC. 111 FLKINS STREET

SURVEYOR

SMITH LAND SURVEYING, INC. PO BOX 150 226 WEST MAIN STREET GLENVILLE, WV 26351 PHONE: (304) 462-5634

Stantec







245 BIG GRANT EQT

DATE: 02-25-2016 SCALE AS SHOWN

ESIGNED: KDS HECKED: CSH EVIEWED: RLG FILE NO.: SLS-7812 SHEET 1 OF 48

