

west virginia department of environmental protection

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

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

Thursday, August 2, 2018 WELL WORK PERMIT Horizontal 6A / New Drill

EQT PRODUCTION COMPANY 625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit approval for BIG 245 H17 47-103-03236-00-00

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: BIG 245 H17

Farm Name: ET BLUE GRASS, LLC

U.S. WELL NUMBER: 47-103-03236-00-00

Horizontal 6A New Drill Date Issued: 8/2/2018

API Number:	
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PERMIT CONDITIONS 4710303236

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

CONDITIONS

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

API Number:	
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4710303236

PERMIT CONDITIONS

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

API NO. 47-103 - 03 3 0 OPERATOR WELL NO. BIG245H17
Well Pad Name: BIG245

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

1) Well Operator: EQT Produc	tion Company	306686	Wetzel	Grant	Big Run
		Operator ID	County	District	Quadrangle
2) Operator's Well Number: BIG	3245H17	Well Pa	d Name: BIG	G245	2019/2019/01
3) Farm Name/Surface Owner:	E.T. Bluegrass	Public Ro	ad Access: R	t. 19/2	
4) Elevation, current ground:	1480 El	evation, proposed	post-constru	ction: 1430	
5) Well Type (a) Gas × Other	Oil	Un	derground Sto	rage	
(b)If Gas Shal Hori	llow X	Deep			Dott
6) Existing Pad: Yes or No NO					5-18-18
 Proposed Target Formation(s) Marcellus, 7532, 53, 2620 PSI 	, Depth(s), Antic	ipated Thickness	and Expected	Pressure(s):	
8) Proposed Total Vertical Depth	n: 7532				
9) Formation at Total Vertical D	epth: Marcellus	S			
10) Proposed Total Measured De	epth: 18990				
11) Proposed Horizontal Leg Le	ngth: 8332	10.000			
12) Approximate Fresh Water St	rata Depths:	229, 507, 662,	752, 1011		
13) Method to Determine Fresh	Water Depths:	From offset well	3		
14) Approximate Saltwater Dept	hs: none				
15) Approximate Coal Seam De	pths: 925, 1024	, 1132			1
16) Approximate Depth to Possi	ble Void (coal m	ine, karst, other):	none		
17) Does Proposed well location directly overlying or adjacent to				No X	
(a) If Yes, provide Mine Info:	Name:				
and all the same and a second	Depth:				
	Seam:			11 200	
	Owner:				11 - 50

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OPERATOR WELL NO. BIG245H17
Well Pad Name: BIG245

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20	New	A-500	78.6	40	40	60 ft^3 / CTS
Fresh Water	13 3/8	New	J-55	54.5	1179	1179	1026 ft^3 / CTS
Coal							
Intermediate	9 5/8	New	A-500	40	2925	2925	1136 ft^3 / CTS
Production	5 1/2	New	P-110	20	18990	18990	500' above top producing zone
Tubing	2 3/8		J-55	4.7		May not be nin, if run set 40' above top perf or 80° anchination	
Liners				70	ii siamaninam	The state of the s	

DMH 5-18-18

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	17	Class A	1.18
Fresh Water	13 3/8	17 1/2	.38	2700	2160	See Variance	1.19
Coal							
Intermediate	9 5/8	12 3/8	.395	3950	3160	Class H	1.07
Production	5 1/2	8 1/2	.361	12640	10112	Class H	1.123/2.098
Tubing	2 3/8	NA	.19	7700			
Liners			1				

PACKERS

Kind:		
Sizes:		
Depths Set:		

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API NO. 47-103	03230
OPERATOR WE	LL NO. BIG245H17
Well Pad Name	e: 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 5477'. Kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

DMH 5-18/18

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of chemicals (including 15% Hydrochloric acid, gelling agent, gel breaker, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum anticipated internal casing pressure is expected to be approximately 10000 psi, maximum anticipated treating rates are expected to average approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 350,000 barrels of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 400,000 pounds of sand per stage.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): no additional
- 22) Area to be disturbed for well pad only, less access road (acres): no additional
- 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)
Intermediate (Class H Cement): 0-3% Calcium Chloride. Used to speed the setting of cement sturries, 25% Flake Loss Circulation Material (LCM)
Intermediate (Class H Cement): 0-3% Calcium Chloride. Used to speed the setting of cement sturries, 25% Flake Loss Circulation Material (LCM)
Intermediate (Class H Cement): 0-2% CD-20 (dispersion; makes cement easier to mix). .15% SuperFL-300 (fluid loss) flowers in the cement of the cement o

25) Proposed borehole conditioning procedures:

Surface: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.

Intermediate: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.

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

*Note: Attach additional sheets as needed.

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Well (BIG245H17) EQT Production Big Run Quad

Wetzel County, WV

Azimuth 335 Vertical Section 8381

Note: Diagram is not to scale Deepest Fresh Water: 1,011 Casing and Cementing Top Base Intermediate Production Surface Conductor Type TVD TVD Formations 12 3/8 17 1/2 Hole Size, In 26 40 Conductor 5 1/2 9 5/8 13 3/8 Casing Size, OD In. 20 0.361 0.375 0.395 0.380 Casing Wall Thickness, In. 18,990" 2,925 Depth, MD 40' 967 Base Red Rock 40# 20# Weight 78.6# 54.5# 1011 Base Fresh Water J-55 A-500 P-110 Grade A-500 1179 Surface Casing New New New New or Used New 12,640 1378 2,700 3,950 Burst (psi) Maxton 2332 - 2426 Н A / Type 1 H Cement Class **Big Lime** 2463 - 2659 1.123/2.098 1.07 1.18 1.19 Cement Yield 2783 - 2875 Weir 500' above top Producing Zone 2925 Surface Surface Intermediate Casing Top of Cement (Planned) Surface 2982 - 3055 Gantz Displacement Displacement Displacement Displacement Method 3108 - 3161 Fifty foot 2.883 1,136 Est. Volume (cu ft) 60 1,026 Thirty foot 3195 - 3234 Calcium Chloride, Fluid Calcium Carbonate, Fluid Loss, 3249 - 3297 Gordon Loss, Defoamer, Extender, Dispersent, Viscosifier, 3307 - 3320 Calcium Forth Sand Dispersant, POZ, Bonding Defoamer, POZ, Bonding Agent, N/A Possible Additives 3124 - 3486 Chloride Bayard Agent, Extender, Retarder, Retarder, Anti-Settling/Suspension - 3931 3884 Warren Flake/LCM Agent 5,477 KOP@ - 4067 4034 Speechley 4897 - 4939 Riley 5529 - 5586 Benson 5882 - 5941 Alexander 7087 - 7241 Sonyea Middlesex 7241 - 7287 7287 - 7370 Genesee 7370 - 7403 Geneseo 7403 - 7421 Tully 7421 - 7511 Hamilton 7511 - 7564 Marcellus 18990 MD **Production Casing** 7564 Onondaga

> Land curve @ 7,532' TVD 10,658' MD

Est. TD @

8,332' Lateral

7,532' TVD 18,990' MD

Proposed Well Work:

Drill and complete a new horizontal well in the Marcellus formation. Drill the vertical to an approximate depth of 5477.

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

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May 9, 2018

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

Re: Casing plan on Wells (BIG245)

Dear Mr. Smith,

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

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

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Rebecca Wanstreet

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Enc.

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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.

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.

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W Department of Environmental Protection

Promoting a healthy environment.

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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MAY 17 2018

EQT Production

Hydraulic Fracturing Monitoring Plan

Pad ID: BIG245

County Wetzel

4/01/18

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Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Wetzel County, WV prior to hydraulic fracturing at the following EQT wells on BIG245 pad: BIG245H8, BIG245H16, BIG245H17.

Due to the requirements under 35CSR8 5.11, the permittee is required to review the area surrounding the proposed well pad so as to identify and evaluate potential conduits for unintended fracture propagation.

A report is required to be submitted along with a well work permit application.

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

1. Communications with Well Operators

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

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

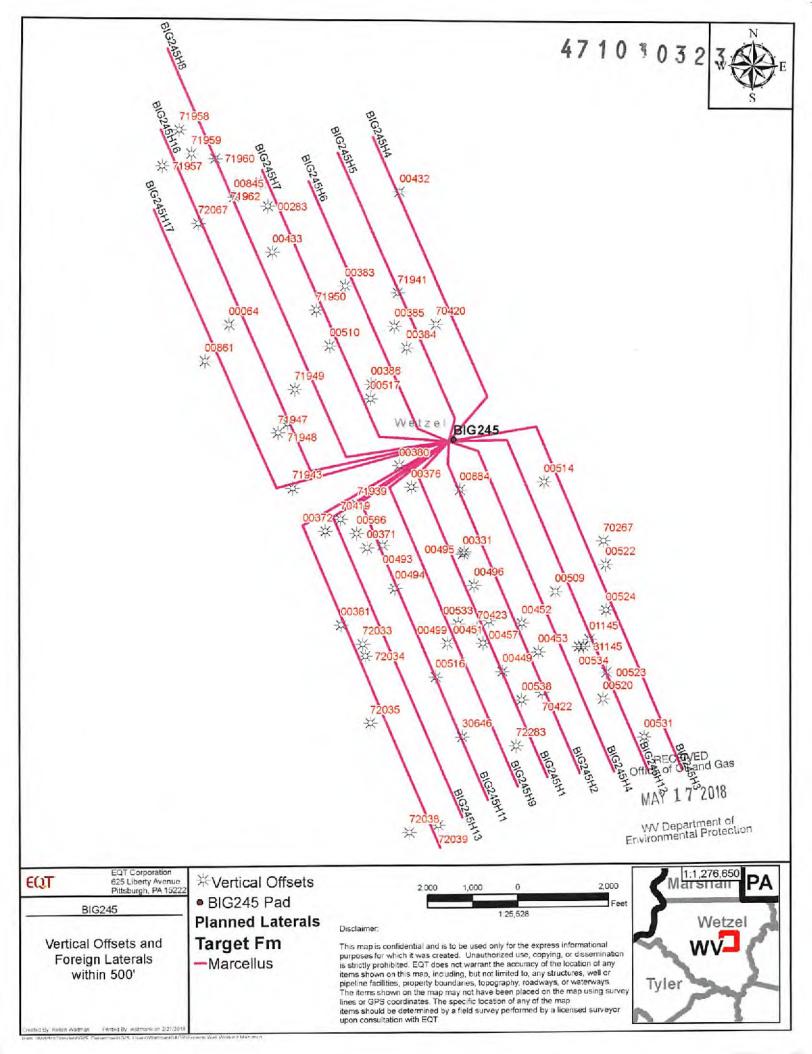
EQT will recommend to these operators at a minimum to:

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

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2. Reporting

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



API Number 47 - 103 - 03
Operator's Well No. BIG245H17

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Watershed (HUC 10) Rockcamp Run of Wiley Fork Quadrangle Big Run Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No Will a pit be used? Yes No If so, please describe anticipated pit waste: N/A Will a synthetic liner be used in the pit? Yes No Proposed Disposal Method For Treated Pit Wastes: Land Application Underground Injection (UIC Permit Number 0014, 8462, 4037 Proposed Disposal (Supply form WW-9 for disposal location) Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain Yes, The closed loop system will remove drill cuttings from the drilling fluid. The drill cuttings are then prepared for transportation to an off-site disposal facility.
Will a pit be used? Yes No V If so, please describe anticipated pit waste: N/A Will a synthetic liner be used in the pit? Yes No V If so, what ml.? Proposed Disposal Method For Treated Pit Wastes: Land Application Underground Injection (UIC Permit Number 0014, 8462, 4037) Reuse (at API Number Various) Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain Yes, The closed loop system will remove drill cuttings from the drilling fluid. The drill cuttings are then prepared for transportation to an off-site disposal facility.
If so, please describe anticipated pit waste: N/A Will a synthetic liner be used in the pit? Yes No ✓ If so, what ml.? Proposed Disposal Method For Treated Pit Wastes: Land Application Underground Injection (UIC Permit Number 0014, 8462, 4037) Reuse (at API Number Various) Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain
Proposed Disposal Method For Treated Pit Wastes: Land Application Underground Injection (UIC Permit Number
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Land Application Underground Injection (UIC Permit Number 0014, 8462, 4037) Reuse (at API Number Various) Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain Yes, The closed loop system will remove drill cuttings from the drilling fluid. The drill cuttings are then prepared for transportation to an off-site disposal facility.
Underground Injection (UIC Permit Number 0014, 8462, 4037) Reuse (at API Number Various) Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain Yes, The closed loop system will remove drill cuttings from the drilling fluid. The drill cuttings are then prepared for transportation to an off-site disposal facility.
Reuse (at API Number Various Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain Yes, The closed loop system will remove drill cuttings from the drilling fluid. The drill cuttings are then prepared for transportation to an off-site disposal facility.
Other (Explain Yes, The closed loop system will remove drill cuttings from the drilling fluid. The drill cuttings are then Will closed loop system be used? If so, describe: Yes, The closed loop system will remove drill cuttings from the drilling fluid. The drill cuttings are then prepared for transportation to an off-site disposal facility.
Will closed loop system be used? If so, describe: prepared for transportation to an off-site disposal facility.
D. W
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. See Attached
-If oil based, what type? Synthetic, petroleum, etc. Synthetic Mud
Additives to be used in drilling medium? See Attached Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill -If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc.
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A -Landfill or offsite name/permit number? See Attached List
-Landfill or offsite name/permit number? See Attached List
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature Company Official Title Regional Land Supervisor
Subscribed and sworn before me this 15 day of May , 20 18
My commission expires 4-7-3G3G Notary Public Notary Publi

WW-9 Attachment

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

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

Additives to be used in drilling medium?

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

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Form WW-9 Operator's Well No. BJG245H17 **EQT Production Company** Proposed Revegetation Treatment: Acres Disturbed no additional Prevegetation pH Tons/acre or to correct to pH 6.5 Fertilizer type Granular 10-20-20 Fertilizer amount 1/3 lbs/acre Mulch 2 Seed Mixtures Temporary Permanent Seed Type lbs/acre Seed Type lbs/acre KY-31 40 **Orchard Grass** 15 5 5 Alsike Clover Alsike Clover Annual Rye 15 Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Comments: Date: 5-18-18 RECEIVED Office of Oil and Gas Field Reviewed?

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EQT Production Water plan Offsite disposals for Marcellus wells

47 10 303236

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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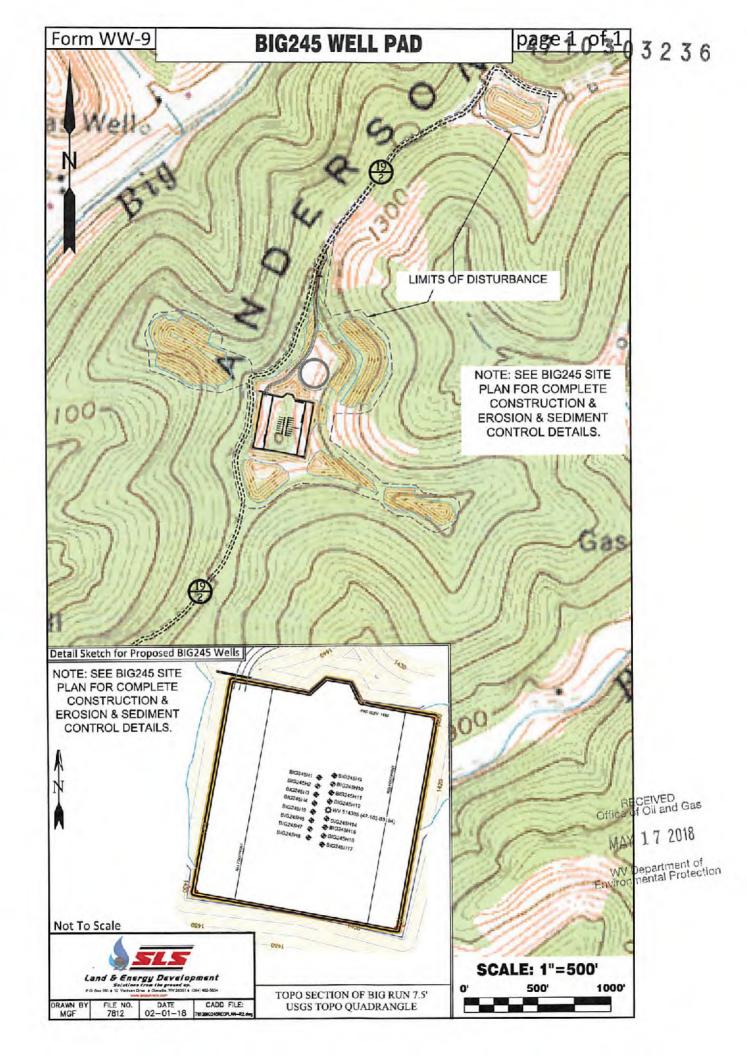
Site Specific Safety and Environmental Plan

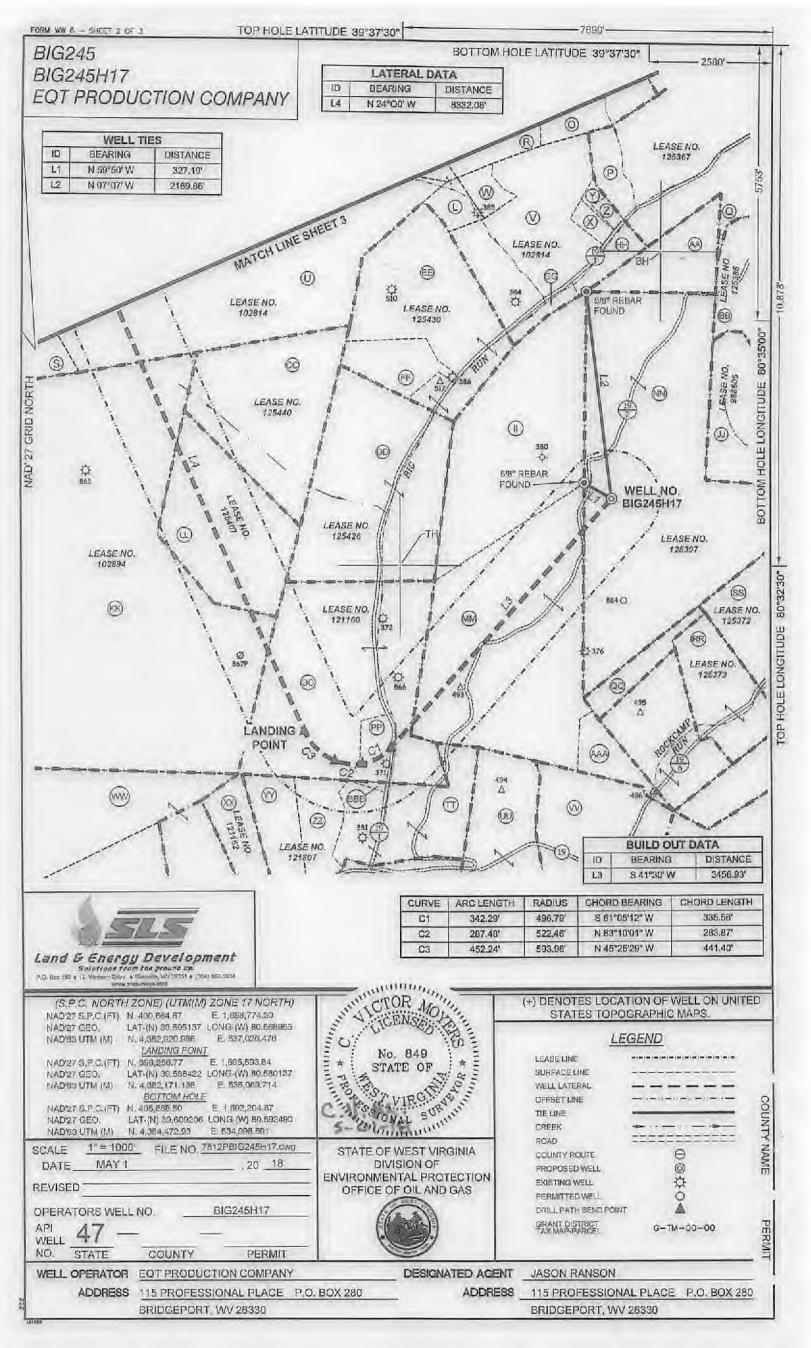
EQT BIG245 Pad Burton Wetzel County, WV

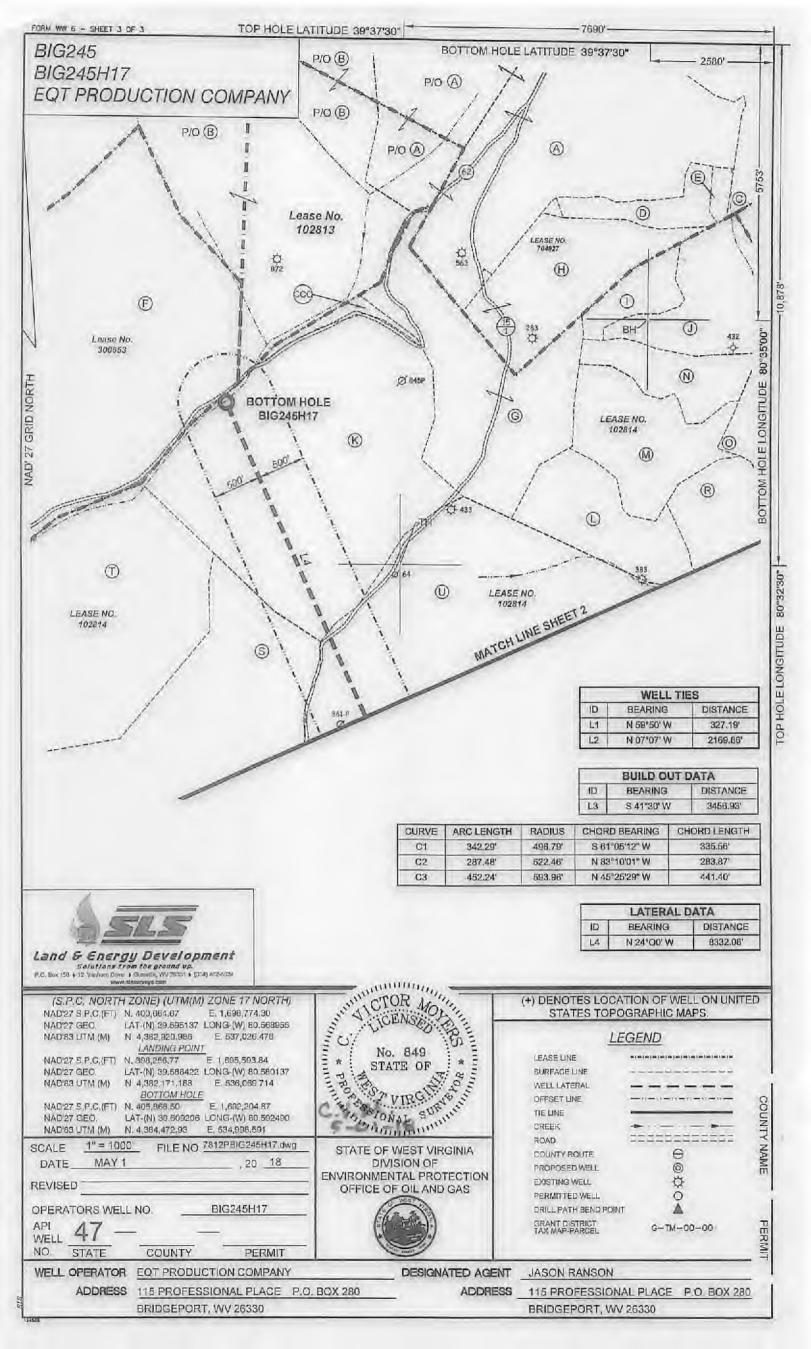
1G245H17	For Wells:
Date Prepared: February 23, 2018	
EQT Production	WV Oil and Gas Inspector
Regional Land Supervisor	Title Tiggs chr
5/10/18 Date	S-18-18 Date
	1777

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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

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WV Department of Environmental Protection

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

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

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

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

Well Operator: EQT Production Company

By:

Erin Spine

Its:

Regional Land Supervisor

** Per West Virginia Code Section 22-6-8.

Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
	Shiben Estates, Inc., et al. (current royalty owner)		**	
<u>125397</u>	Joseph Shiben, et al. (Original Lease)	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
TMP 04-8-21	Ikey Joe Willey	EQT Production Company	n/a	DB 123/99 Subsurfa
	Acropolis, Inc., et al. (Current Royalty Owner)		**	
121160	A. C. Higginbotham, et al. (Original Lease)	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
102894	Ridgetop Capital, L.P. & Ridgetop Capital II, L.P.	EQT Prouction Company	fee	DB 433/401
	Norma Jean Phillips Riggs, et al. (Current Royalty Owner)		**	
125407	Ray E. Shreve, et al. (Original Lease)	Equitable Gas Company		LB 52A/199
	Equitable Gas Company	Equitrans, Inc.		LB 71A/453
	Equitrans, Inc.	Equitrans, LP		DB 105/908
	Equitrans, LP	EQT Production Company		O&G 131A/81
102814	Joseph Shiben and Minnie Shiben Estate, et al.	EQT Production Company	••	DB 182A/84

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

315

EQUITABLE PRODUCTION COMPANY

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

ENTITY NUMBER: 2980374

MICROFILM NUMBER: 2001032

1297-1300

C T CORP SYSTEM COUNTER

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200132 - 1297

Microfilm Number		Fled with the Dep	ariment of Sta	4PR 3 0 200
Entity Number 29 6037		Mr.	Lypr	julk
•		Şeçre	tary of the Con	ımonwealth
ARTICLES OF A		ESTIC BUSINESS CO 1926 (Rov 90)	RPORATION	
In compliance with the requirements of 15 cusiness corporations, desiring to effect a merc	Pa.C.S. § 1926 (rel jer. hereby state ti	ating to articles of merg	jer or consolida	rilan), the undersigned
. The name of the corporation surviving the m	erger is: Equitable	Production Company		
(Check and complete one of the following): **Entry surviving corporation is a domestic land the commonwealth or (b) name of its carry Department is hereby authorized to contain.	business corporation mercial registered	office provider and the	county of venu	e is (the
(a) Number and Street	City	State	Zip	County
(b) c/o: CT Corporation System			A	Meghany
Name of Commercial Registe	red Office Provide	ır		County
to conform to the records of the Depart	ment]:			
(a) Number and Street	City	State	Zlp	County
(b) c/o:	and Office Bearing			County
For a corporation represented by a commercial recorporation is located for venue and official public. The surviving corporation is a nonqualification and the address of its principal office units.	egstered office provided in a control of the contro	der, the county in (b) shall to s corporation incorpora	ted under the l	
Number and Street	City	State	Ζtp	
The name and the address of the registered provider and the county of venue of each which is a party to the plan of merger are a	office in this Com other domestic but	monwealth or name of siness corporation and	lts commercial qualified foreig	registered office n business corporation
			red Office Provide	er County
Name of Corporation Address of Re	egidered Office or No	una el Commercial Regista em	red Office Provid	
	egistered Office or No CT Corporation System	Sin.		Allegheny Allegheny

DSC8:15-1926 (Rev 90)-2

(Check, and if appropriate complete, one of the fo				•
The plan of merger shall be effective upon filing	g these Articles of A	Aerger in the Dep	artment of St	ate.
X The plan of merger shall be effective on: April	30, 2001 Date	a1	·	Hour
The manner in which the plan of merger was adop	ted by each dome	stic corporation is	as follows:	•
Name of Carporation	Manner of Adoption			
Equitable Production Company	Adapted by Bo	ard of Directors pu	remant to Sec.	1924 of the PA BCL
(Sirike out this paragraph if no foreign corporation approved, as the case may be, by the foreign bus the plan in accordance with the laws of the jurisdi			ras cuthorized elgn business	i, adopted or corporations] party to
(Check, and if appropriate complete, one of the fo	ilowing):		_	
X The plan of merger is set farth in full in Exhibit A	attached hereto d	ind made a part	hereof.	
A the plan of merger is set locally in the ballow.	•			hione if any of the
Pursuant to 15 Pa.C.S. § 1901 (relating to omiss plan of merger that amend or constitute the deflect subsequent to the effective date of the hereof. The full text of the plan of merger is or address of which is:	ilon of certain provi operative Articles o	sions from filed pla fincorporation of	ons) the proving	AIA AAA MAAB O CUI
Pursuant to 15 Pa.C.S. § 1901 (relating to omiss plan of merger that amend or constitute the offect subsequent to the effective date of the hereof. The full text of the plan of merger is or address of which is:	ilon of certain provi operative Articles o	sions from filed pla fincorporation of	ons) the proving	ain ana maab a cui
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Pursuant to 16 Pa.C.S. § 1901 (relating to amiss plan of merger that amend or constitute the affect subsequent to the effective date of the hereof. The full text of the plan of merger is or address of which is: Number and Street IN TESTIMONY WHEREOF, the undersigned corporaterger to be signed by a duty authorized officer the	clon of certain proving perative Articles of a plan are set forth in file at the principal city. City ration or each under this	sions from filed plant incorporation of incorporation of in full in Exhibit A call place of busines State Ensigned corporation day of April April State Production	ins) the proving of the surviving of the	County ed these Articles of 2001
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Pursuant to 15 Pa.C.S. § 1901 (relating to amiss plan of merger that amend or constitute the offsect subsequent to the effective date of the hereof. The full text of the plan of merger is or address of which is: Number and Street IN TESTIMONY WHEREOF, the undersigned corporaterger to be signed by a duty authorized officer the	clon of certain proving perative Articles of a plan are set forth in file at the principal city. City Tation or each under this	sions from filed plot incorporation of in full in Exhibit A on place of business State State State ensigned corporation day of April putable Production (No. 1) Try E Keich	company Com	County County d these Articles of 2001 Cration)

PASS - 18/14/99 CT System Online

200132 - 1299

AGREEMENT AND PLAN OF MERGER

BETWEEN

EQUITABLE PRODUCTION – EASTERN STATES, INC.

AND

EQUITABLE PRODUCTION COMPANY

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

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

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

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

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

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

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

Office of Oil and Gas

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Emirronmantal Protact

the surviving corporation until the and repealed as therein provided.

WY Department of the directors and of continue in the surviving corporation until the and repealed as therein provided.

The directors and of continue in the continue in the surviving corporation until the surviving The by-laws of the surviving corporation as they shall exist on the effective date of this Agreement shall be and remain the by-laws of the surviving corporation until the same shall be altered, amended

The directors and officers of the surviving corporation shall continue in office until the next annual meeting of the shareholders (c)

and until their successors shall have been elected and qualified.

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

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

ATTEST:

EQUITABLE PRODUCTION – EASTERN STATES, INC.

BLE PRODUCTION COMPANY

COMMONWEALTH OF PENNSYLVANIA

DEPARTMENT OF STATE

APRIL 30, 2001

TO ALL WHOM THESE PRESENTS SHALL COME. GREETING:

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JUL 2 5 2018

EQUITABLE PRODUCTION COMPANY

WV Department of Environmental Protection

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

which appear of record in this department



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

Secretary of the Commonwealth

DPOS



4710303236

EQT Production Company 2400 Ansys Drive, Suite 200 Canonsburg, PA 15317 www.eqt.com

Todd Klaner Regional Land Manager, Permitting tklaner@egt.com

Via E-Mail

May 9, 2018

WV DEP Reviewer

RE: EQT Production Company

PAD ID - BIG245

Well# - BIG245H8, BIG245H16,

BIG245H17

Wetzel County

Dear Reviewer.

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

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

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

Regards,

Todd Klaner

Regional Land Manager, Permitting

EQT Production Company

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MAY 1 7 2018

MEMORANDUM OF SUBSURFACE RIGHT-OF-WAY AND EASEMENT AGREEMENT

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

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

1. NAME AND ADDRESS OF GRANTOR:

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

2. NAME AND ADDRESS OF GRANTEE:

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

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

Tax Map and Parcel(s) 8-21

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5. TERM: The Agreement shall run with the land and shall remain in full force and effect until released and relinquished by the Grantee back to the Grantor, in writing. MAY 17 2018

WV Department of (REMAINDER OF PAGE LEFT BLANK INTENTIONALLY Environmental Protection

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

<u>GRANTOR</u> :	EQT Production Company
Lkey for Wellow. key Joe Willey	By: Jason M. Ranson Its Attorney-in-Fact
STATE OF WEST VIRGINIA; COUNTY OF WETZEL:	
I. Bryon Jack , a commission of the said instrument as a free act and deed for uses a	ity aforesaid, and acknowledged and delivered
Given under my hand this 15th day of J My Commission expires: Jan. 1 202	UNE, 2017. 1.
OFFICIAL SEAL COMMISSIONER FOR WEST VIRGINIA Bryson J. Karp Weston, WV My Commission Expires January 1, 2021	Commissioner for West Virginia
STATE/COMMONWEALTH OF WEST VIRG	INIA;
I, Karthy L. Preston, a Not do hereby certify that YISM H. Karty M., per name is subscribed to the foregoing instrument Company, appeared before me this day in persacknowledged and delivered the said instrument to therein set forth on behalf of said company.	and the Attorney in fact of EQT Production son in the State and County aforesaid, and
Given under my hand this day of My Commission expires:	1940, 20 17 1941
OFFICIAL SEAL ROTARY PUBLIC STATE OF WEST VINCOMA KATELYN L. PRESTON BOT PRODUCTION COMPANY 115 PROPESSORAL PLACE ESPECIFORT WY 2000 by Commission Expert by 1, 5, 504	Notary Public L. Noshu



May 8, 2018

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

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

Dear Mr. Martin,

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

Sincerely,

Todd Klaner

Regional Land Manager

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

Date of Notice	ce Certification: 05/10/2018	API No.	API No. 47- 103 -			
		Operato	Operator's Well No. BIG245H17			
		Well Pad Name: BIG245				
Notice has b						
Pursuant to th	ne provisions in West Virginia Code §	22-6A, the Operator has provided the	required parties v	with the Notice Forms listed		
	tract of land as follows:					
State:	W	UTM NAD 83 Easting:				
County:	Wetzel	Northing				
District:	Grant	Public Road Access:	Rt. 19/2			
Quadrangle: Watershed:	Big Run	Generally used farm name	E.T. Bluegrass L	<u></u> .		
watersned:	Rockcamp Run of Wiley Fork					
it has provide information re of giving the requirements Virginia Code	ed the owners of the surface describe equired by subsections (b) and (c), se surface owner notice of entry to su of subsection (b), section sixteen o	hall contain the following information: bed in subdivisions (1), (2) and (4), s ction sixteen of this article; (ii) that the rvey pursuant to subsection (a), section f this article were waived in writing the mender proof of and certify to the secretary.	ubsection (b), see requirement was on ten of this arti by the surface ov	ction ten of this article, the deemed satisfied as a result icle six-a; or (iii) the notice wner; and Pursuant to West		
that the Ope	West Virginia Code § 22-6A, the Op rator has properly served the require ECK ALL THAT APPLY	erator has attached proof to this Notic d parties with the following:	e Certification	OOG OFFICE USE ONLY		
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BEG SEISMIC ACTIVITY WAS CONDU		☐ RECEIVED/ NOT REQUIRED		
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	YEY or 🔳 NO PLAT SURVEY WAS	CONDUCTED	☐ RECEIVED		
■ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRED BEG NOTICE OF ENTRY FOR PLAT SU WAS CONDUCTED or		RECEIVED/ NOT REQUIRED		
		WRITTEN WAIVER BY SUR (PLEASE ATTACH)				
■ 4. NO	TICE OF PLANNED OPERATION	R	ECEIVED Gas of Oil and Gas	RECEIVED		
■ 5. PUE	BLIC NOTICE	Office	17 2018	RECEIVED		
■ 6. NO	TICE OF APPLICATION	<i>W</i>	W Department of Department of Departmental Protect	RECEIVED		
		CN	711/2			

Required Attachments:

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

Certification of Notice is hereby given:

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

Well Operator: EQT Production Company

By:

Erin Spine

Its: Telephone: Regional Land Supervisor

304-848-0035

Address:

115 Professional Place PO Box 280

Bridgeport WV 26330

Facsimile: 304-848-0041 Email:

espine@eqt.com

NOTARY PUBLIC STATE OF WEST VIRGINIA REBECCA L. WANSTREET PO BOX 280 BRIDGEPORT, WV 26330

Subscribed and sworn before me this 15 day of No.

My Commission Expires

Oil and Gas Privacy Notice:

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

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API NO. 47- 103 OPERATOR WELL NO BIG245417
Well Pad Name: BIG245 0 3 2 3 6

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

NOU	5/10/18	
Date	e of Notice: Date Permit Application Filed:	5/16/18
Noti	ice of:	
V	PERMIT FOR ANY CERTIFICATE OF APPL	ROVAL FOR THE
		AN IMPOUNDMENT OR PIT
	WELL WORK CONSTRUCTION OF A	AN IMPOUNDMENT OR FIT
Deli	very method pursuant to West Virginia Code § 22-6A-10	(b)
	PERSONAL REGISTERED METHO	OD OF DELIVERY THAT REQUIRES A
	SERVICE MAIL RECEI	PT OR SIGNATURE CONFIRMATION
sedin the soil a desc oper more well impo have prov prop subs reco prov Code	ment control plan required by section seven of this article, and the surface of the tract on which the well is or is proposed to be localled and gas leasehold being developed by the proposed well work, if wribed in the erosion and sediment control plan submitted pursual rator or lessee, in the event the tract of land on which the well proposed seams; (4) The owners of record of the surface tract or traction work, if the surface tract is to be used for the placement, construction of the surface tract is to be used for the placement, construction of this article; (5) As a water well, spring or water supply source located within one traction (b) of this section hold interests in the lands, the applicant rats of the sheriff required to be maintained pursuant to section exists of this article to the contrary, notice to a lien holder is not	resignature confirmation, copies of the application, the erosion and the well plat to each of the following persons: (1) The owners of record of the surface tract or tracts overlying the other surface tract is to be used for roads or other land disturbance as the surface tract is to be used for roads or other land disturbance as the surface tract is to be used for roads or other land disturbance as the surface tract is to be used for roads or other land disturbance as the surface owner, opposed to be drilled is located [sic] is known to be underlain by one or cets overlying the oil and gas leasehold being developed by the proposed uction, enlargement, alteration, repair, removal or abandonment of any any surface owner or water purveyor who is known to the applicant to thousand five hundred feet of the center of the well pad which is used to (6) The operator of any natural gas storage field within which the elements in common or other co-owners of interests described in the may serve the documents required upon the person described in the eight, article one, chapter eleven-a of this code. (2) Notwithstanding any notice to a landowner, unless the lien holder is the landowner. W. Va. rovide the Well Site Safety Plan ("WSSP") to the surface owner and any as provided in section 15 of this rule.
Ø A	Application Notice WSSP Notice E&S Plan Notice	☑ Well Plat Notice is hereby provided to:
	URFACE OWNER(s)	☐ COAL OWNER OR LESSEE
	ne: See Altached	Name: See Attached
Add	ress:	Address:
Nan	ne'	COAL OPERATOR
	lress:	
		Name: RECEIVED Gas Address: Office of Oil and Gas
☑ SI	URFACE OWNER(s) (Road and/or Other Disturbance)	1 7018
Nan	ne: See Attached	SURFACE OWNER OF WATER WELL MAY 17 2018
Add	lress:	AND/OR WATER PURVEYOR(s)
		Name: See Attached W Departmental Protection
Nan	ne:	AND/OR WATER PURVEYOR(s) Name: See Attached
Add	fress:	- OPEN (MOD OF 1) NAVALENIN II OLO OMOD (OPEN)
- ~	LIBEACE ON THE CANADA	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
	URFACE OWNER(s) (Impoundments or Pits)	Name:
	ne: See Attached	Address:
Add	dress:	*Please attach additional forms if necessary
		. 19409 utubil udulilolidi lolillo li liberosutj

MAY 17 2018

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.deparv.gov/oil-nE-Clark and Gas Office of Oil and Gas

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

the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

WW-6A (8-13) API NO. 47 10 3 0 3 2 3 6

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

MAY 17 2018

WV Department of Environmental Protection

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

WW-6A (8-13)

API NO. 47- 103 -

OPERATOR WELL NO. BIG245H17

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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MAY 17 2018

WW-6A (8-13) API NO. 47-103 OPERATOR WELLING BIG 45 17 2 3 6 Well Pad Name: BIG245

Notice is hereby given by:

Well Operator: EQT Production Company

Telephone: 304-848-0035 Email: espine@eqt.com Address: 115 Professional Place PO Box 280

Bridgeport WV 26330

Facsimile: 304-848-0041

Oil and Gas Privacy Notice:

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

NOTATY PUBLIC
STATE OF WEST VIRIGINIA
REBECCA L. WANSTREET
EOT PRODUCTION COMPANY
PO BOX 260
BRIDGEPORT, WV 26230
My commission expires April 07, 2020

Subscribed and sworn before me this 15 day of May 2018.

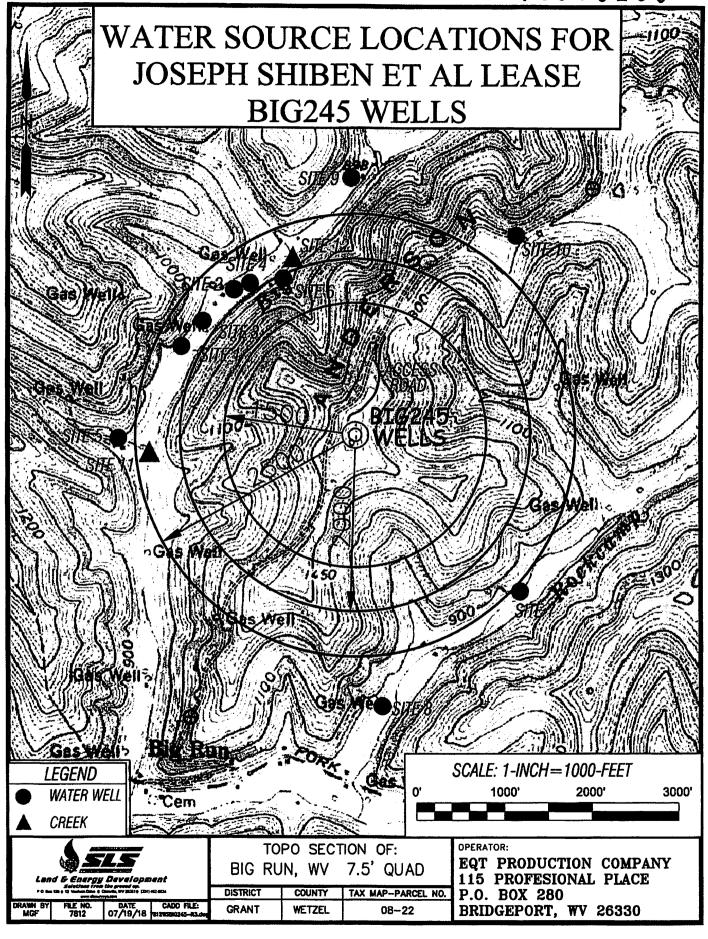
Notary Public

My Commission Expires

Office of Oil and Gas

MAY 17 2018

WV Department of Environmental Protection



Surface Owners:

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

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

Surface Owners (road or other disturbance):

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

Wanda L. Byard 1250 Meadowlane Drive Lewisport, KY 42351

Neal Utt 1204 Big Run Road Burton, WV 26562

Surface Owners (Pits or impoundments or AST):

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

Coal Owner

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

Western Pocahontas Properties LLC 5260 Irwin Road Huntington, WV 25705

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

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

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Quadrangle:	Big Run G	Generally used farm name:		E.T. Bluegrass LLC
Watershed:	Rockcamp Run of Wiley Fork			
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Oil and Gas Privacy Notice:

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

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

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

Surface Owners:

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

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

Surface Owners (road or other disturbance):

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

Wanda L. Byard 1250 Meadowlane Drive Lewisport, KY 42351

Neal Utt 1204 Big Run Road Burton, WV 26562

Surface Owners (Pits or impoundments or AST):

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

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Office of Oil and Gas
MAY 17 2018
WW Department of
Environmental Protection

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.

notice require	ments under West Virginia Code			l above and hereby waive the llows:
State:	w	LITM NIAD 92	Easting:	537026.48
County:	Wetzel	UTM NAD 83	Northing:	4382920.99
District:	Grant	Public Road Ace	cess:	Rt. 19/2
Quadrangle:	Big Run	Generally used t	farm name:	E.T. Bluegrass LLC
Watershed:	Rockcamp Run of Wiley Fork			
			11.	1
	Ranson- Director, Drilling Land	Signature:	CLA	
Address: 625 L	liberty Ave, Suite 1700		7 '	
Pittsburgh, PA 15	222	Date:	/	
			Jason	n M. Ranson

Oil and Gas Privacy Notice:

Oil and Gas Privacy Notice:

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

RECEIVED Office of Oil and Gas

Director, Drilling Land

MAY 1 7 2018.

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS 3 0 3 2 3 6 NOTICE OF PLANNED OPERATION

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			or has developed a planned
UTM NAD 8	Easting:	537026.48	as follows:
Public Road	Northing:	4382920.99 Rt. 19/2	
	ed farm name:	E.T. Bluegra	nee IIC
denorally us	ed farm frame.	E. I. Didegro	55 220
owner whose ation agreeme amages are come om the Secre	e land will be nt containing a compensable un- tary, at the WV	used in con n offer of c der article s / Departme	on; (2) The information required njunction with the drilling of a ompensation for damages to the six-b of this chapter. Additional ent of Environmental Protection siting www.dep.wv.gov/oil-and-
			RECEIVED Office of Oil and Gas
Address:	115 Professional P	lace PO Box 28	
Address:	115 Professional P Bridgeport WV 263		MAY 1 7 2018
	The state of the s		

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.

Surface Owners:

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

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

Surface Owners (road or other disturbance):

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

Wanda L. Byard 1250 Meadowlane Drive Lewisport, KY 42351

Neal Utt 1204 Big Run Road Burton, WV 26562

Surface Owners (Pits or impoundments or AST):

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

> RECEIVED Office of Oil and Gas

4710303236

MAY 17 2018

4710303236 STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS OLUNTARY STATEMENT OF NO

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

I. E.T. Bluegrass LLC

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

, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated

	<u>w</u>	JTM NAD 83 Easting:	Rt. 19/2	
County:	Wetzel	Northing:		
District:		ublic Road Access:		
Quadrangle:		Generally used farm name:	E.T. Bluegrass LLC	
Watershed:	Rockcamp Run of Wiley Fork			
*Please chec	k the box that applies	FOR EXECUT	ION BY A NATURAL PERSON	
SURFACE OWNER (Road and/or Other Disturbance)		Signature:		
		Date:		
	CE OWNED (I			
SURFA	CE OWNER (Impoundments/Pits)	FOR EVECUTE	TON DV A CODDOD LEIGHT FEE	
	OWNER OR LESSEE	FOR EXECUT Company: E.T. Blu	ON BY A CORPORATION FAC.	
COAL		Ite: Director Drilling	egrass LLC RECOI and GATC. Office of Oil and GATC.	
COAL C	OWNER OR LESSEE	Ite: Director Drilling		

Oil and Gas Privacy Notice:

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



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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

Reissued July 18, 2018

Jill M. Newman Deputy Commissioner

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

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

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

Dear Mr. Martin,

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

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

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Nick Bumgardner

EQT Production Company

CH, OM, D-6, File

103-03230

Anticipated Frac Additives Chemical Names and CAS numbers

<u>Material</u>	<u>Ingredient</u>	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

DA H 5-18-18

RECEIVED
Office of Oil and Gas

MAY 25 2018

MAP DE PARCEL TH DRANT DISTRICT, WEITEL COUNTY, WY TOTAL DISTURBANCE AREA 4 NO + LACRES

NEAL OTT MATUR PARCEL 14 GRAIN LISTRICT, WETZEL COUNTY WY TOTAL PROPERTY AREA: 51,0 14-ACRES TOTAL DISTURBANCE AREA: 6,14 4-ACRES BEY I'VE WILLEY MAP OF PARCEL 21 GRANT DETRICT, WEIZEL COUNTY MY TOTAL PROPERTY AREAS ALEST OF ACRES TOTAL DISTURBANCE AREAS OF A CARRES

ET BLUE GRASS LLC MAP OR PARCEL IZ GRANT DISTRICT, WEIZEL COMMITY WY TOTAL PROPERTY AREA: 134 M AL ACRES TOTAL DISTURBANCE AREA: 29.07 M ACRES OF AND GAS BOYALTY DWNER.

SHIBEN ESTATER INC. IRANT DISTRICT WETZEL COUNTY, W. TOTAL PROPERTY AREA: 148.6 14 ACRES

SITE LOCATION THE EDIT BIG LAS ACCESS UPAD ENTRANCE IS LOCATED & 427-1 NORTHEAST OF THE JUNCTION OF CO.R.T. 19 AND CO.R.T. 192.
THE WELL PAD IS LOCATED 19 MILES IN MORTHEAST OF THE AUNCTION OF CO.R.T. 19 AND CO.R.T. 19.

LOCATION COORDINATES FIRE RIGIDISCONSTRUCTION INTRANCE LATE LIDE: BILLYUNG: CONGITUDE: NO SEPANO (MAC NA)

EQT BIG 245 WELL PAG CENTER
LATITUDE: 10.505411 LONGITUDE: -10.50040.00 (MAD 6.1)

LATE DOES BY ENGLISHED LONGITUDE -80.59789463 (MAD 83)

GENERAL DESCRIPTION

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

SITE DISTURBANCE COMPUTATIONS

WHELE PADE 5.78 (ALACRES)
AST PADE 5.70 (ALACRES)
MAN ACCESS NOADES 11 (ALCRES)
STOCKPIES > 25.31 (ALCRES)
STOCKPIES > 25.31 (ALCRES)
TOTAL SITE DETURBANCE AREA = 10.35 (ALACRES)

ENTRANCE PERMIT

ENT PRODUCTION COUPANY WILL OBTAIN AN ENGRUAGHMENT FE/MIT (FORM LAW-INS) FIGUR THE WEST VIRISHIA DEPARTMENT OF TRANSPORTATION DIVISION OF RESILIVATE PRIOR TO COMMERCE MENT OF CONSTRUCTION

MISS UTILITY STATEMENT

MISS LITELTY OF WEST VIRIUNIA WAS NOTED FOR THE LOCATING OF UTILITIES PRIOR TO THIS PROJECT DESIGN TICKET #12259999. IN ADDITION, MES UTILITY WILL BE CONTACTED PRIOR TO START OF THE

GEOTECHNICAL NOTES

A SUBSURFACE INVESTIGATION HAS BEEN FERFORMED FOR THIS SITE AND DESTREMENDAL REPORT HAS SEEN PROMED BY LARRON DESIGN CROWN CROWN CATCH TO THE STORM CROWN FOR THE PROMED BY THE PROMED BY SUBSURFACE WITH THE PROMED BY THE PROMED WORK OR ADDITIONAL CONSTRUCTION MEASURES REQUIRED REVOND THOSE STANDARD FENCTIONS SHOWN ON THIS PLANAS A RESULT OF ANY OTHER DEOTETHNICAL COMPLICATIONS FRICD, INTERED DURING CONSTRUCTION

ENVIRONMENTAL NOTES

REPORT ROJECT O ENCACHAGE CONSTRUCTION OF THE PROPERTY DESCRIBES HEREN.
THE DEVELOPER SHALL COTAN THE APPROPRIATE PERMITS FROM THE FEDERAL AND/OR
STATE REGILATORY AGENCES PRICE TO ANY PROPROSED MEMOLTS TO WATERS OF THE
U.S. PICLUDING WETLAND FILES AND STREAM CROSSINGS.

EQT BIG 245 SITE PLAN EQT PRODUCTION COMPANY

PERMITTED WELL NO. WV 514365, API 47-103-03154 PROPOSED WELL NO. BIG245H1. BIG245H2, BIG245H3, BIG245H4, BIG245H5, BIG245H6, BIG245H7, BIG245H8, BIG245H9, BIG245H10. BIG245H11. BIG245H12. BIG245H14. BIG245H15. BIG245H16. BIG245H17

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



I, THERE ARE INTERMITTENT STREAMS, DAKES POWER OR RESURVOIRS WITHIN 100 FET TO THE PROJECT LOD. THERE

IN THE PART OF TREATMENT STREAMS, LAKES, POWER, OR RESERVOIPES WITHIN 1907 EET OF THE MIDDLED FACT. THERE
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S. THERE ARE NO MORICULTURAL BUILDINGS LANGER THAN JOHN SQUARE FEET OF THE CENTER OF THE PAD.

APPROVED WVDEP OOG

7/21 7/25 2018

	LIST OF DRAWINGS
SHEET NO.	DESCRIPTION
-1"	COVERBNEET
2	GENERAL NOTES
. 3	OVERALL PLAN SHEET HIDER
4-8	WELL-PAD LAYOUT
3	ACCESS HOAD PROFILES
10	WELL PAD PHOFILES
11-12	ACCESS PUAD CROSS SECTIONS
18.17	MELL PAD CROSS SECTIONS
18-22	AST TANK PAD CRUSS SECTIONS
25-24	EXCESS MATERIAL STOCKPILE PROFILES
25-44	EXCESS MATERIAL STOCKPULE CROSS SECTIONS
47	RECLAMATION PLAN.
46	TYPICAL ACCESS ROAD CROSS-SECTIONS
49-51	CONSTRUCTION DETAILS
52	CONSTRUCTION DUANTITIES

RECEASMATION QUANTITIES

LEGEND			
EX. INDEX GONTOUR EX. INTERNEDIATE CONTOUR EX. ROTOR OF ROAD PAVIEWENT EX. CAPE EX. CAPE EX. CAPE EX. CAPE EX. OATE EX. WATERISIE	PROF. INDEX CONTOUR PROF. CUT LINE PROF. CUT LINE PROF. CUT LINE PROF. CUT LINE PROF. CONTAINMENT SERM PROF. HOND CENTERLINE WITH CHECK DAMS PROF. PROF. CONTAINMENT SERM PROF. PROF. CONTAINMENT SERM PROF. HOND CENTERLINE WITH CHECK DAMS PROF. PLAYER? PROF. BRIFARP OUTLET PROTECTION		
EX. WATER WELL EX. TREBLINE EX. TREBLINE EX. TREBLINE EX. TREBLINE EX. TREBLINE EX. TREBLINE EX. DELMEATED STREAM EX. DOLINEATED WETLAND EX. BUILDING	PROP, NIN-RAPIME I PROFESTION PROP, COUPOST FILTERSOCK PROP, TOLERONE PROP, STONE CONSTRUCTION ENDANCE XANCTION CHICANOL PROP. XANCTION CHICANOL PROP.		

OPERATOR

EDT PRODUCTION COMPANY OPERATOR ID UMOM P.C. BOX 280 BRIDGEPORT, WY 26514 PHONE COD 345-1970

ENGINEER

STANTEC CONSULTING, INC. FHONE: (804) 367-940

SURVEYOR

SMITH LAND SURVEYING, INC. PO BOX 150 236 WEST MAIN ETREET GLENVILLE WV 2635 PRIDATE COM 442-56 M

Stante









BIG EQT

CALL OF THE OWN CHECKEN COM

PRE 1491 (12-7912 MEET 1 25 31

