

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

Harold D. Ward, Cabinet Secretary www.dep.wv.gov

Monday, August 16, 2021 WELL WORK PERMIT Horizontal 6A / New Drill

EQT PRODUCTION COMPANY 625 LIBERTY AVE., SUITE 1700 PITTSBURGH, PA 15222

Re: Permit approval for BIG245 106H 47-103-03442-00-00

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.

ames A Martin Chief

Operator's Well Number: BIG245 106H Farm Name: ET BLUE GRASS LLC U.S. WELL NUMBER: 47-103-03442-00-00 Horizontal 6A New Drill Date Issued: 08/16/2021

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PERMIT CONDITIONS

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

CONDITIONS

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

PERMIT CONDITIONS

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

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08/27/2021

API NO. 47 1 0 3 0 3 4 4 2

WW-6B (04/15)

OPERATOR WELL NO. 106H 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: 106	6H	Well Pad	Name: BIG24	5	
3) Farm Name/Surface Owner:	ET Blue Grass L	LC Public Road	d Access: CR	19/2	
4) Elevation, current ground:	1430' El	evation, proposed j	post-construction	on: <u>1430'</u>	
5) Well Type (a) Gas X Other	Oil	Unde	erground Storag	;e	
(b)If Gas Shal Hori	llow X izontal X	Deep			
6) Existing Pad: Yes or No Yes	j				
7) Proposed Target Formation(s) Marcellus, 7,548', 19', 2,620 PS		ipated Thickness a	nd Expected Pr	essure(s):	
8) Proposed Total Vertical Depth	n: 7,548'				
9) Formation at Total Vertical D		3			
10) Proposed Total Measured De	epth: 15,256'				
11) Proposed Horizontal Leg Ler	ngth: 7,189'				
12) Approximate Fresh Water St	rata Depths:	243', 521', 676',	766', 1025'		
13) Method to Determine Fresh	Water Depths:	Offset Wells - 47-	103-00376 & 4	7-103-003	380
14) Approximate Saltwater Dept	hs: None				
15) Approximate Coal Seam Dep	pths: <u>939'-940',</u>	1038'-1047', 113	7'-1143'		RECEIVED Office of Oil and Gas
16) Approximate Depth to Possi	ble Void (coal mi	ine, karst, other):	300'		JUL 14 2021
17) Does Proposed well location directly overlying or adjacent to		ms Yes X	No	Env	WV Department of Vironmental Protection
(a) If Yes, provide Mine Info:	Name: Harri	son Co. Mine			
	Depth: 300'				
	Seam: Pitts	burgh			
	Owner: ACN	R Resources, Inc			



API NO. 47 1 0 3 0 3 4 4 2

OPERATOR WELL NO. 106H

Well Pad Name: BIG245

WW-6B (04/15)

18)

CASING AND TUBING PROGRAM

ТҮРЕ	<u>Size</u> (in)	<u>New</u> <u>or</u> <u>Used</u>	Grade	<u>Weight per ft.</u> (lb/ft)	<u>FOOTAGE: For</u> <u>Drilling (ft)</u>	INTERVALS: Left in Well (ft)	<u>CEMENT:</u> <u>Fill-up</u> (Cu. Ft.)/CTS
Conductor	26	New	A-500	85.6	40	40	50 ft^3 / CTS
Fresh Water	13 3/8	New	J-55	54.5	1193	1193	1000 ft^3 / CTS
Coal							
Intermediate	9 5/8	New	J-55	36	2651	2651	1000 ft^3 / CTS
Production	5 1/2	New	P-110	20	15256	15256	500' above intermediate casing
Tubing							
Liners							
<u></u>	<u> </u>	•	L		<u> </u>	Busan t	am
						Buyan H 7-12-2	. 1

ТҮРЕ	Size (in)	<u>Wellbore</u> Diameter (in)	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	Burst Pressure (psi)	<u>Anticipated</u> <u>Max. Internal</u> <u>Pressure (psi)</u>	<u>Cement</u> <u>Type</u>	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	26	30	0.312	1050	18	Class A	1.18
Fresh Water	13 3/8	17 1/2	0.380	2730	2184	Class A / Type 1	1.13 - 1.19
Coal							
Intermediate	9 5/8	12 3/8	0.352	3520	2816	Class A / Type 1	1.13 - 1.19
Production	5 1/2	8 1/2	0.361	14360	11488	Class A/H	1.04 - 2.10
Tubing							
Liners							

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Kind:		Environmental Protection
Sizes:		
Depths Set:		

8)

WW-6B (10/14)

OPERATOR WELL NO. 106H Well Pad Name: BIG245

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

Drill and complete a new horizontal well in the Marcellus Formation. Drill the vertical, kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

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

Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.1%) of chemicals (including 15% Hydrochloric acid, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum anticipated internal casing pressure is expected to be approximately 10,000 psi, maximum anticipated treating rates are expected to average approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 350,000 gallons of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 200,000-600,000 pounds of proppant per stage.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 44.22

22) Area to be disturbed for well pad only, less access road (acres): 43.58

23) Describe centralizer placement for each casing string:

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

Intermediate: Bow spring centralizers
 — One centralizer at the shoe and one spaced every 500'.

• Production: One solid body centralizer spaced every joint from production casing shoe to KOP.

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24) Describe all cement additives associated with each cement type:	
Conductor: Class A no additives Surface: Calcium Chloride. Used to speed the setting of cement slurries Intermediate: Calcium Chloride. Used to speed the setting of cement slurries. Production: Calcium Carbonate, Fluid Loss, Extender, Dispersent, Viscosifier, Defoamer, POZ, Anti-Settling/Suspension Agent	UL 1 4 2021 WV Department of Environment at Bonding Agent, Relatesction

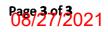
25) Proposed borehole conditioning procedures:

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

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

Production: Perform a cleanup cycle by pumping 3-8 bottoms up or until the shakers are clean. Check volume of cuttings coming across the shakers every 15 minutes.

*Note: Attach additional sheets as needed.





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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

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

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

Sincerely JC8 enson by anas James Peterson

James Peterson Environmental Resources Specialist / Permitting Office of Oll and Gas

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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 Sccretary dep.wv.gov

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

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

REPORT OF THE OFFICE

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

FINDINGS OF FACT

1.) Nabors Completion & Production Services Co. proposes the following cement blend:

- 2% Calcium Chloride (Accelerator)
- 0.25 % Super Flake (Lost Circulation)
- 94% Type "1" Cement
- 5.20 % Water

Laboratory testing results indicate that the blend listed in Fact No.1 will achieve a 500
psi compressive strength within 6 hours and a 2,435 psi compressive strength within 24
hours.

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CONCLUSIONS OF LAW

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

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

ORDER

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

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

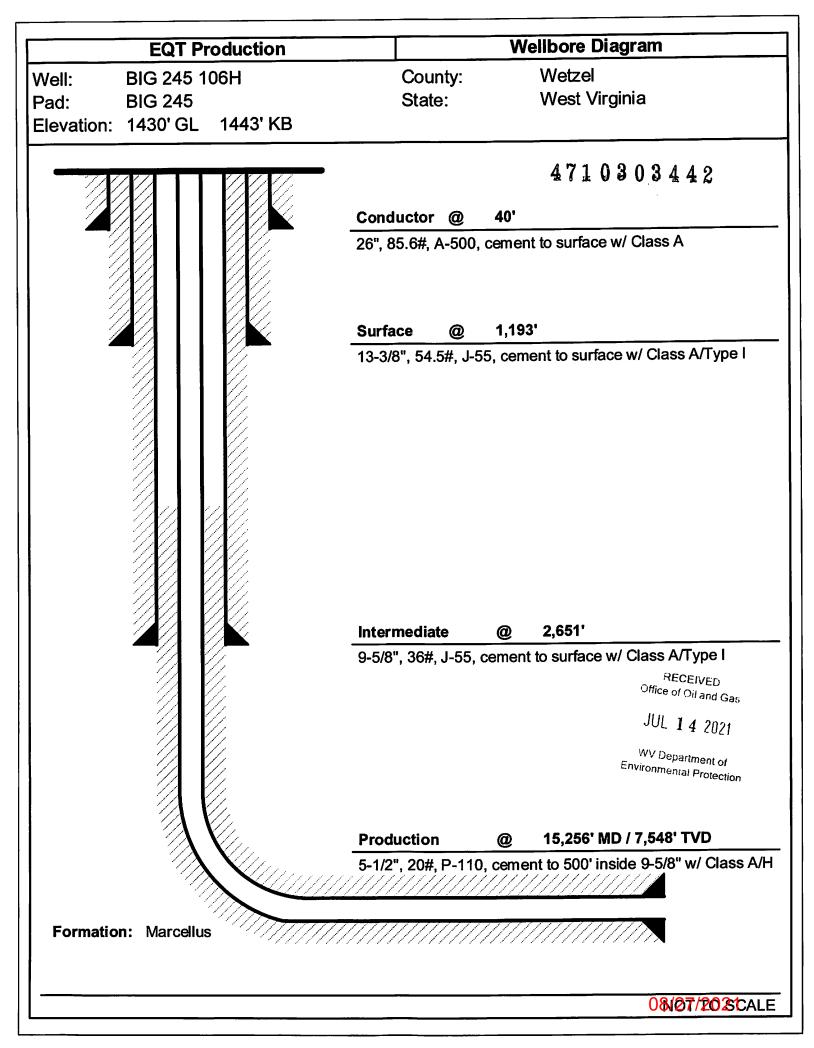
IN THE NAME OF THE STATE OF WEST VIRGINIA

OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
RECEIVED
OF THE STATE OF WEST VIRGINIA
Office of Oil and Gas

James Martin, Chief Office of Oil and Gas JUL 1 4 2021

WV Department of Environmental Protection





County:	Marcellus Wetzel		BIG245	
County: Quad:	Wetzel			
Quad:			S-000221	
Elevation:	Big Run			
	1443 KB		1430 GL	
Design of the level	TBD D		Recommended LP to T	D. TRD
Recommended Azimuth	TBD Deg	rees	Recommended LP (6)	0: 160
Proposed Logging Suite:	Not	t needed		
ESTIMATED FORMATION TO		Discontraction and the	Comments	
Formation	Top (TVD)	Base (TVD) Lithology	Comments	
Fresh Water Zone	1	1025	FW at 243,521,676,766,1025,	
Waynesburg Coal	939	940 Coal		
Mapletown Coal	1038	1047 Coal		
Pittsburgh Coal	1137	1143 Coal	There are no known past, present, or future mining and/or permits	
STORAGE ZONE	2383	2439 Sandstone	STORAGE ZONE	
Maxton	2310	2351 Sandstone	Base of Offset Well Perforations at 1171' TVD	
Big Lime	2364	2434 Limestone		
Big Injun	2434	2601 Sandstone		
Int Casing	2651			
Weir	2770	2810 Silty Sand		
Top Devonian	2986			
Gordon	3168	3207 Silty Sand		
Forth Sand	3226	3270 Silty Sand		
Bayard	3274	3504 Silty Sand		it is a minute
Speechley	3896	4118 Silty Sand		Top RR Base RR
Riley	4689	4921 Silty Sand		225 238
Benson	5385	5533 Silty Sand		273 285
Alexander	5847	6163 Silty Sand		288 298
Elks	6163	7068 Gray Shales and Silts		320 338
Sonyea	7068	7145 Gray shale		381 391
Middlesex	7233	7285 Shale	Depth as seen on Previous BIG 245 Well H17	491 503
Genesee	7285	7372 Gray shale interbedded	Depth as seen on Previous BIG 245 Well H17	563 583
Geneseo	7372	7395 Black Shale	Depth as seen on Previous BIG 245 Well H17	820 829
Tully	7395	7418 Limestone	Depth as seen on Previous BIG 245 Well H17	825 831
Hamilton	7418	7512 Gray shale with some	Depth as seen on Previous BIG 245 Well H17	858 865
Marcellus	7512	7531 Black Shale	Depth as seen on Previous BIG 245 Well H17	976 981 Base
Purcell	7531	7533 Limestone	Depth as seen on Previous BIG 245 Well H17	Red
Lateral Zone		7548		
Cherry Valley	7543	7545 Limestone		
Onondaga	7565	Limestone		
	19 feet	m		
Target Thickness	10 feet	Env		



EQT PRODUCTION COMPANY 400 Woodcliff Drive | Canonsburg, PA 15317 P: 724-746-9073 | www.eqt.com

July 6, 2021

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

Re: Casing on BIG245 106H

Dear Mr. Brewer,

The 13-3/8" surface casing will be set at 1,193' KB, 50' below the deepest workable coal seam and 168' below the deepest fresh water. The 9-5/8" intermediate string will be set at 2,651' KB, 50' below the base of the Big Injun formation.

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

Sincerely,

John Zavatchan Project Specialist - Permitting

Enc.

Office of Oil and Gas JUL 1 4 2021 WV Department of Environmental Protection EQT Production Hydraulic Fracturing Monitoring Plan Pad ID: BIG245 County: Wetzel

> RECEIVED Office of Oil and Gas

July 9, 2021

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JUL 1 4 2021

WV Department of Environmental Protection

Page 1 of 2



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Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Wetzel County, WV prior to hydraulic fracturing at the following EQT wells on the BIG245 pad: 102H, 104H, 106H, 108H, 110H, 112H & 114H.

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

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

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

1. Communications with Well Operators

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

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

EQT will recommend to these operators at a minimum to:

JUL 1 4 2021

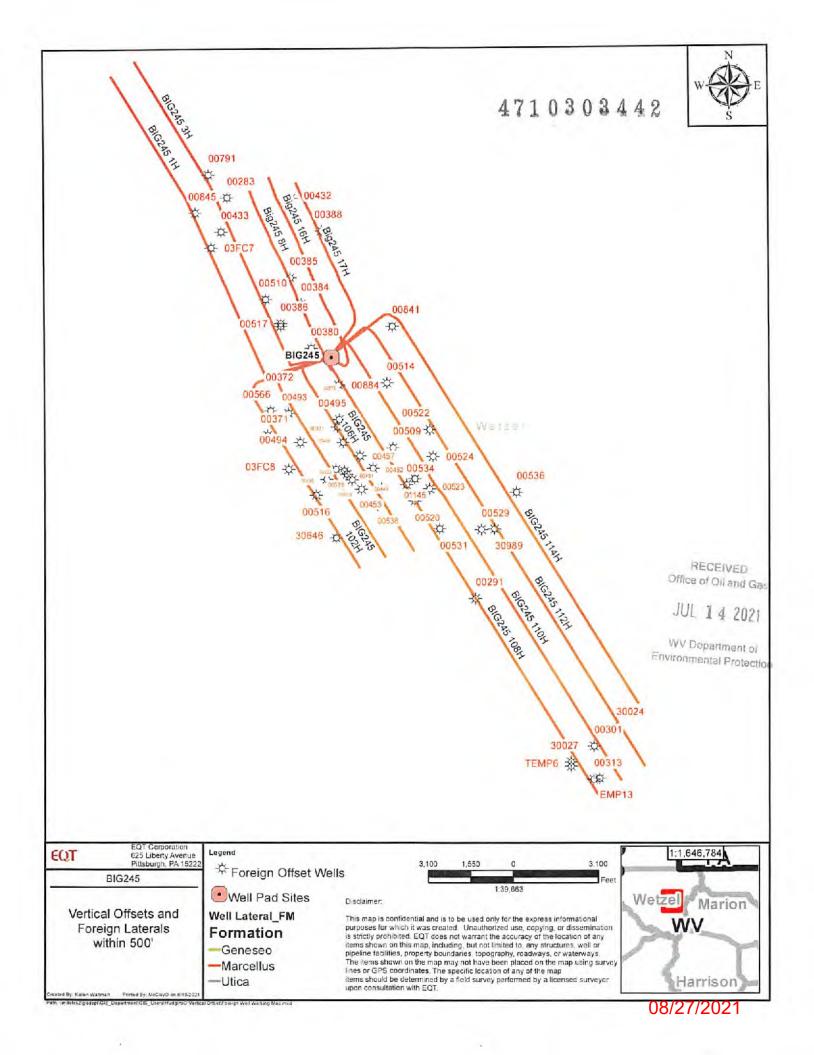
WV Department of

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

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

Page 2 of 2

08/27/2021



Total Depth 3289,0000 651,0000 651,0000 627,0000 543,0000 543,0000 1135,0000 1135,0000 647,0000 647,0000 647,0000 570,0000 647,0000 647,0000 570,0000 647,0000 570,0000 570,0000 571,0000 522,00000 522,00000 522,00000 522,00000 522,00000 522,0000000000	662.0000 2092.0000 2015.0000 1844.0000 3151.0000 3151.0000 32707.0000 3228.0000 2707.0000 1814.0000 2105.0000 1814.0000 2963.0000 1850.0000
	272.0000 -985.0000 -975.0000 -975.0000 -1088.0000 -1088.0000 -1735.0000 -2028.0000 -2028.0000 -2028.0000 -107.0000 -107.0000 -1014.0000
	934.0000 1107.0000 869.0000 937.0000 937.0000 972.0000 1221.0000 1221.0000 846.0000 1222.0000 1200.0000 1208.0000 836.0000 836.0000
Targetfm	
Latitude 39.5711 39.5563 39.5563 39.5563 39.5583 39.5875 39.5877 39.6077 39.6077 39.6077 39.6077 39.6077 39.5887 39.5887 39.5887 39.5887 39.5887 39.5887 39.5887 39.5887 39.5888 39.5887 39.5887 39.5887	39.6011 39.5927 39.5815 39.5815 39.5820 39.5821 39.5821 39.5781 39.5817 39.5825 39.5817 39.5825 39.5817 39.5825 39.5817
	-80.5772 -80.5616 -80.5709 -80.5763 -80.5561 -80.5562 -80.5557 -80.5549 -80.5549 -80.5549 -80.5549 -80.5592 -80.5592 -80.55629
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WellStatus GAS GAS-P GAS-P GAS-P GAS GAS GAS GAS GAS GAS GAS GAS GAS GAS	gas storage storage storage storage storage storage storage storage storage
WellID 4710300283 4710300281 47103003313 4710300371 4710300375 4710300386 4710300386 4710300388 4710300388 4710300388 4710300388 4710300493 4710300495 4710300495 4710300495 4710300495 4710300495 4710300495 4710300495 4710300495	4710300510 4710300514 4710300515 4710300517 4710300520 4710300523 4710300523 4710300533 4710300533 4710300533 4710300538

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332.0000	0000.66666-	0000.66666-	-1822.0000	-1044.0000	-1023.0000	-1101.0000	-1894.0000	-2142.0000	-2021.0000	0000.66666-	0000.66666-	0000.66666-	0000.66666-	0000.66666-	0000.66666-
880.000	0.000	1020.0000	1290.0000	1167.0000	1067.0000	1229.0000	0000.068	1197.0000	1200.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.000
39.5900		39.5983	39.6098	39.5925		39.5581				39.5839	39.6063	39.5841	39.5831	39.5531	39.5543
-80.5767	-80.5844	-80.5608	-80.5862	-80.5679	-80.5581	-80.5322	-80.5381	-80.5683	-80.5478	-80.5672	-80.5842	-80.5744	-80.5662	-80.5344	-80.5381
FOSTER MCKENZIE	EPC	EPC	EPC	EQUITRANS	EPC	HOPE NAT GAS	OPER IN MIN.OWN	DUNN-MAR O & G	CARNEGIE NAT GAS	PHILADELPHIA O	UNK	UNK	UNK		
00566	00791	00841	00845	00884	01145	30024	30027	30646	30989	70423	03FC7	03FC8	03FC9	EMP13	TEMP6
			LOWER HURON SHALE				LOWER HURON SHALE		LOWER HURON SHALE						
1/20/1965		9/14/1903	9/22/1905 L	9/26/1922	10/19/1962			3/19/1915	1/17/1917						
GAS	GAS	GAS-P	P&A	STORAGE	STORAGE	GAS	OIL	GAS	GAS	P&A	UNK	P&A	P&A	UNK	UNK
4710300566	4710300791	4710300841	4710300845	4710300884	4710301145	4710330024	4710330027	4710330646	4710330989	4710370423	47103FC7	47103FC8	47103FC9	47103TEMP13	47103TEMP6

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W	W-9
(4)	(16)

API Number 47 - _____-Operator's Well No. BIG245 106H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name EQT Production Company	OP Code 306686
Watershed (HUC 10) Rockcamp Run of Willey Fork Quadrangle	Big Run
Do you anticipate using more than 5,000 bbls of water to complete the proposed w Will a pit be used? Yes <u>No</u>	vell work? Yes 🖌 No
If so, please describe anticipated pit waste: N/A	
Will a synthetic liner be used in the pit? Yes No 🖌 If	so, what ml.? N/A
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
 Underground Injection (UIC Permit Number 0014, 84 	62, 4037)
Reuse (at API Number Various)
 Off Site Disposal (Supply form WW-9 for disposal loc 	ation)
Other (Explain	
Will closed loop system be used? If so, describe: Yes, The closed loop system will remove then prepared for transportation to an of	e drill cuttings from the drilling fluid. The drill cuttings are f-site disposal facility.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwate	er, 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. Land	501
-If left in pit and plan to solidify what medium will be used? (cement, lin	ne, sawdust) N/A
-Landfill or offsite name/permit number? See Attached List	

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

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

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

Company Official Signature	= 4 2071
Company Official (Typed Name) John Zavatchan	Environ
Company Official Title Project Specialist - Permitting	Protect
Company Official Title Troject operation Terminang	

Subscribed and sworn before me this 13th day of The	, 20 2 1
My commission expires March 9,2024	O Notary Public Commonwealth of Pennsylvania - Notary Sea Rebacca Shrum, Notary Public Beaver County My commission expires March 9, 2024 Commission number 1267706
	Member, Portagia Association of Notarias

Proposed Revegetation Trea	tment: Acres Disturbed	Prevegetation pH	
Lime 3	Tons/acre or to correc	et to pH 6.5	
Fertilizer type Gra			
Fertilizer amount_5	600	lbs/acre	
Mulch 2		_Tons/acre	
		Seed Mixtures	
Т	emporary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		

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: Buyen Ham

Comments: Pre-seed/mulch all disturbed areas as soon as reasonably possible,

per regulation.	Upgrade E&S as necessary p	per WV DEP E&S Manual.
1 0	10 91	

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Inspeder Title: Field Reviewed?

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 synthetic 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.
- Synthetic mud synthetic base oil, emulsifier, salt, lime, viscosifer, alkalinity control, filtration control, deflocculates, biodegradable oil lubricant, defoaming, carbonates.

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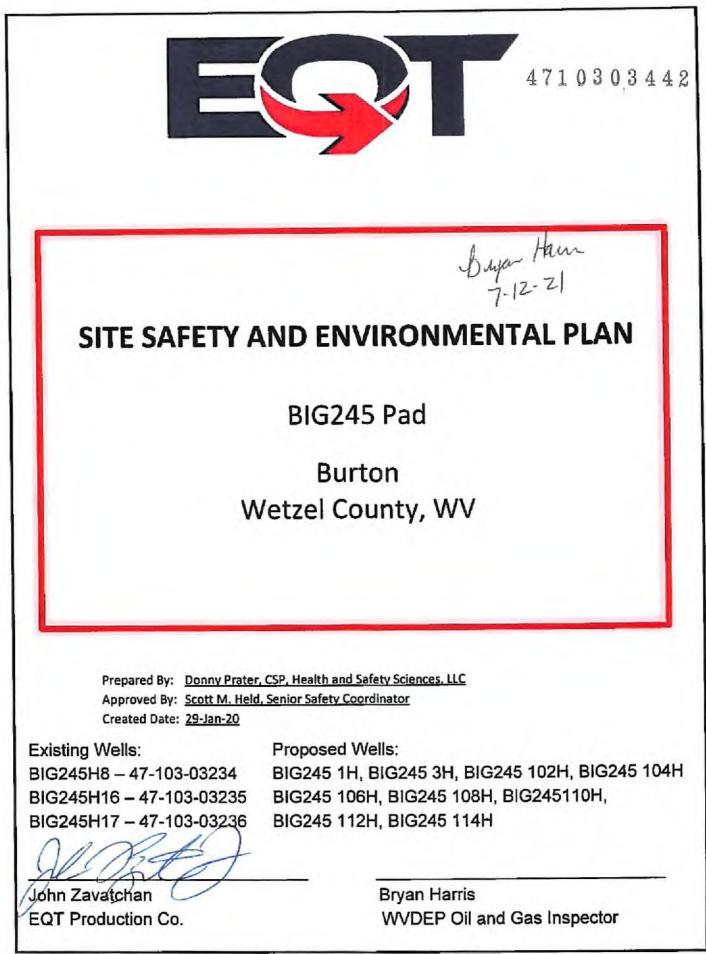
1 <u>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 </u>			-	roduction Water Pla						
			-	sals for Unconventio						
Facility Name	Address	Addr	ess 2	City	State	Zip	Phone	County	State	Permit Number
CWS Trucking Inc.	P.O. Box 391			Williamstown	wv	26187	740-516-3586	Noble	ОН	3390
Broad Street Energy LLC	37 West Broad Street	Suite	1100	Columbus	ОН	43215	740-516-5381	Washingotn	ОН	8462
LAD Liquid Assets Disposal Inc.	226 Rankin Road			Washington	PA	15301	724-350-2760	Ohio	wv	USEPA WV 0014
							1			
Triad Energy	PO Box 430			Reno	ОН	45773	740-516-6021	Noble	ОН	4037
							740-374-2940			
ri County Waste Water Management, Inc.	1487 Toms Run Road		_	Holbrook	PA	15341	724-627-7178	Greene	PA	TC-1009
							724-499-5647			
King Excavating Co. Advance Waste Services	101 River Park Drive			New Castle	PA	16101	· · · · · · · · · · · · · · · · · · ·	Lawrence	PA	PAR000029132
Waste Management - Meadowfill Landfill	Rt. 2, Box 68 Dawson Drive			Bridgeport	wv	16330	304-326-6027	Harrison	wv	SWF-1032-98
B				Dind Beport		10000	001 000 0021		<u> </u>	Approval #100785WV
· · · · · · · · · · · · · · · · · · ·										
Vaste Management - Northwestern Landfill	512 E. Dry Road			Parkersburg	w	26104	304-428-0602	Wood	lwv	SWF-1025 WV-0109400
Haste Management - Northwestern Eanann	512 C. Dry Nobb		1.00	Farkersburg		20104	304-428-0002	*****		500-1025 00-0105400
APEX Landfill	11 County Road 78		lox 57	Amsterdam	ОН	43903	740-543-4389	lofforcon	он	06-08438
			01 37	Ainsteruam		43903	740-343-4365	Jenerson		00-00438
Advanced Disposal - Chestnut Valley Landfill	1184 McClellandtown Road	_		A de Clallen de auro	PA	15450	774 427 7226	Fauratta	PA	100419
Auvanceu Disposal - Chestnut Vaney Canolin	1164 Witchenandtown Road	_		McClellandtown		15458	724-437-7336	Payelle	PA	100415
Alastan and Capitana Land 611		_			-	45949				100277
Westmoreland Sanitary Landfill	901 Tyrol Boulevard	_		Belle Vernon	PA	15012	/24-929-7694	Westmoreland	PA	100277
					_ <u>_</u>	10000				
Austin Master Services	801 North 1st Street			Martins Ferry	ОН	43935	740-609-3800	Belmont	ОН	2014-541
		_			-			<u> </u>		
Selmont Solids Control	77505 Cadiz-New Athers Road	_		Cadiz	ОН	43907	740-942-1739	Harrison	он	2015-511
					-					
Diversified Resources	3111 Braun Rd.			Belpre	ОН	45714	740-401-0413	Washington	он	
							740-610-1512			34-031-27177
				Coshocton	он	43812	724-591-4393		он	34-031-27178
Buckeye Brine	23986 Airport Road						724 352 4355	Coshocton		34-031-27241
Central Environmental Services	28333 West Belpre Pike			Coolville	ОН	45723	304-488-0701	Athens	ОН	
luverra - Nichols	10555 Veto Road			Belpre	ОН	45714	330-232-5041	Washington	он	34-119-2-8776
luverra - Goff	9350 East Pike Road			Norwich	OH	43767	330-232-5041	Muskingum	ОН	34-167-2-3862
		5		_						
luverra - Wolf	5480 State Route 5	ξ.		Newton Falls	ОН	44444	330-232-5041	Trumbull	ОН	34-155-2-1893
		3 <								
luverra - Pander	5310 State Route 5	me De		Newton Falls	Он	44444	330-232-5041	Trumbull	Он	34-155-2-3795
				D m		1	1	-		
luverra - AnnaRock D-1	3549 Warner Road		4	Fowder	ОН	44418	330-232-5041	Trumbull	ОН	34-155-2-2403
		- 6	2			1	1		1	
			-12	10 ET						1

Gas 21 tof ection

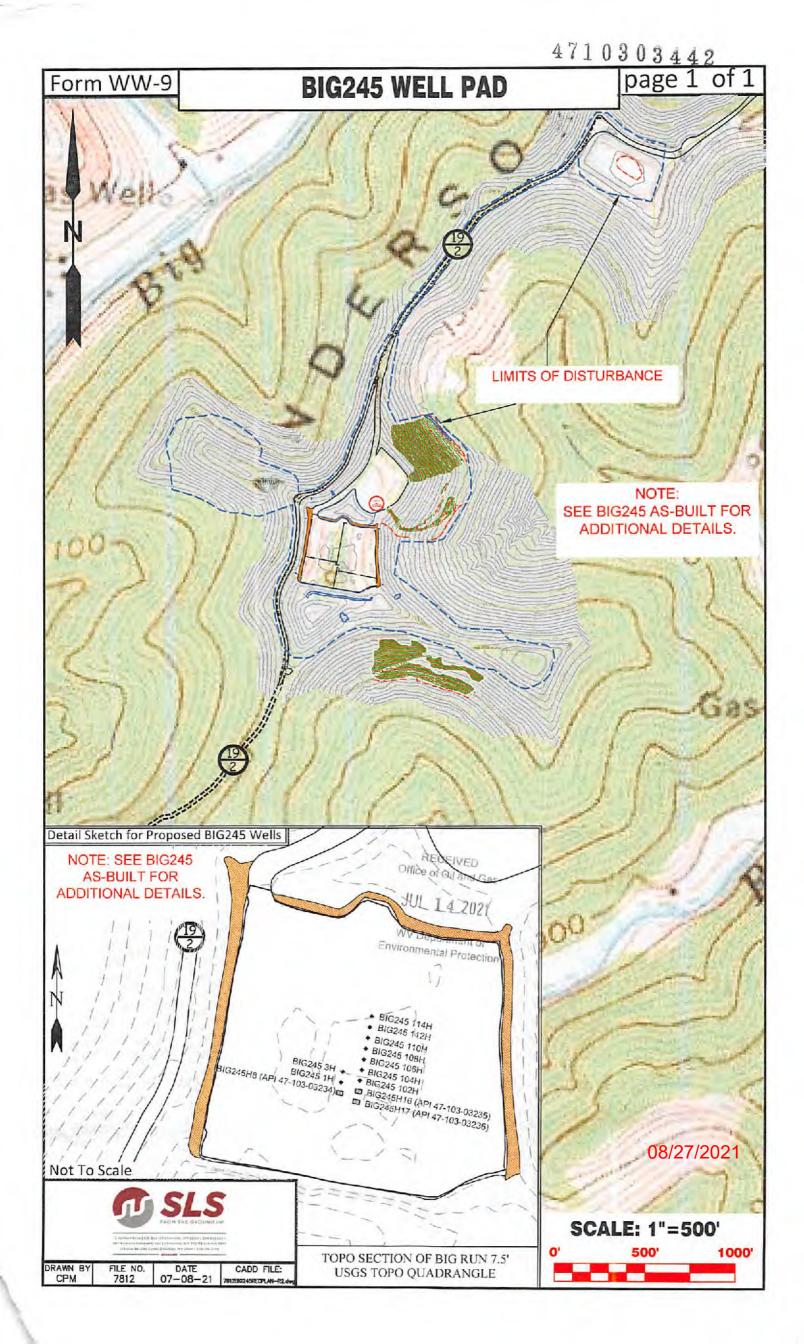
				1	740-374-2940	l	T	
		Reno	он	45773			он	1
FQ Helen	100 Demonster Dan d	ineno		45//5	412-443-4397		Un	
	199 Bowersock Road		_		740-236-2135	Washington		34-167-2-9577
					740-374-2940		_	
		Dexter City	он	45727	412-443-4397		он	34-121-24037
FQ Dexter	38505 Marietta Rd.		_		740-236-2135	Noble	_	34-121-24086
			_	<u> </u>				
					740-374-2940			
		Ellenboro	wv	26346	412-443-4397		wv	
^C Q Ritchie	122 Lonesome Pine Rd		_		740-236-2135	Ritchie		47-085-09721
					<u> </u>			24.405.2.2640
					740-374-2940			34-105-2-3619
		Portland	он	45770	412-443-4397		он	34-105-2-3652
					740-236-2135			34-105-2-3637
FQ Mills	53610 TS Rd 706					Meigs	_	34-105-2-3651
Petta Enterprises - OH	745 North 3rd Street	Cambridge	он	43725	614-477-1368	Guernsey	он	Ohio Chiefs Order 25-019
Petta Enterprises - WV	38 Technology Dr.	Tridelphia	wv	26059	740-255-5727	Ohio	wv	
Deep Rock Disposal	2341 OH-821	Marietta	ОН	45750	304-629-0176	Washington	OH	34-167-2-9766

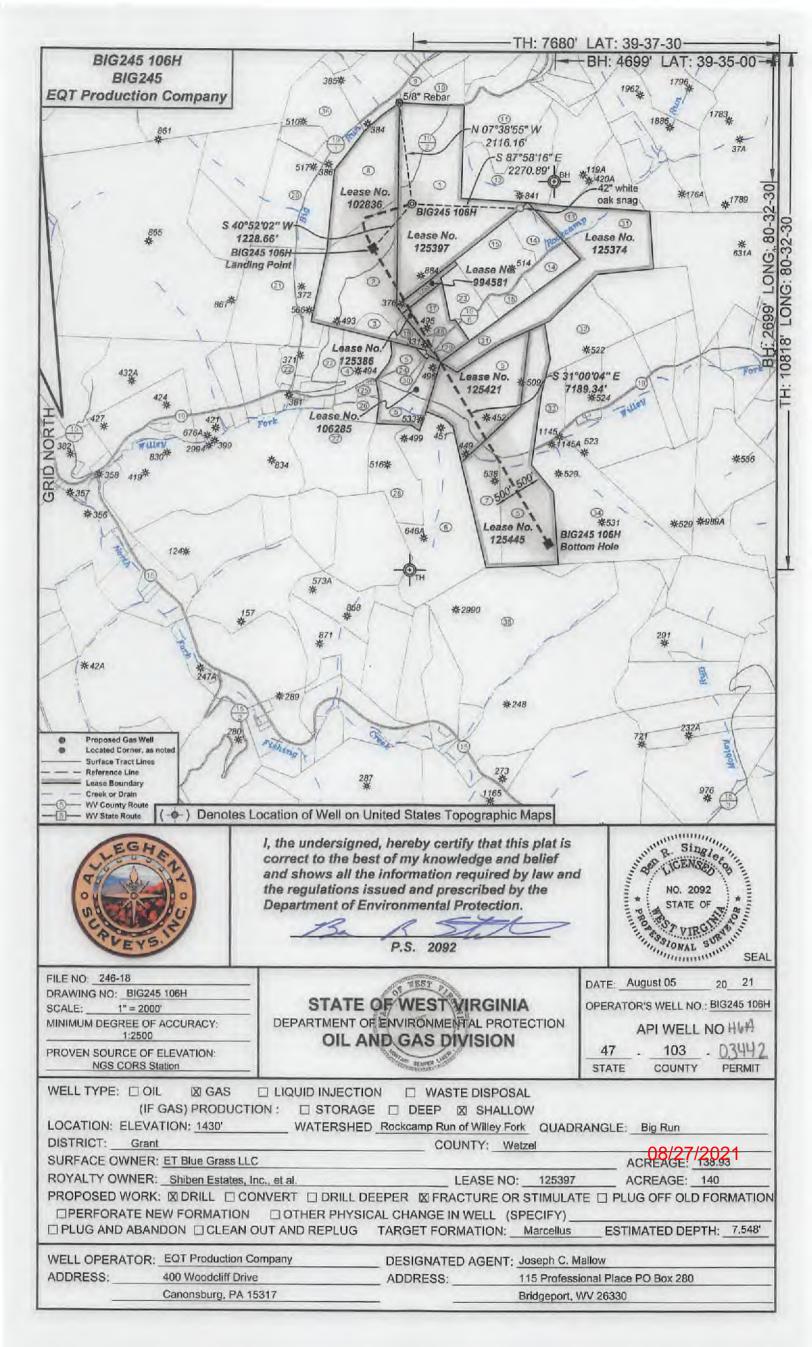
WV Department of Environmental Protection JUL 1 4 2021

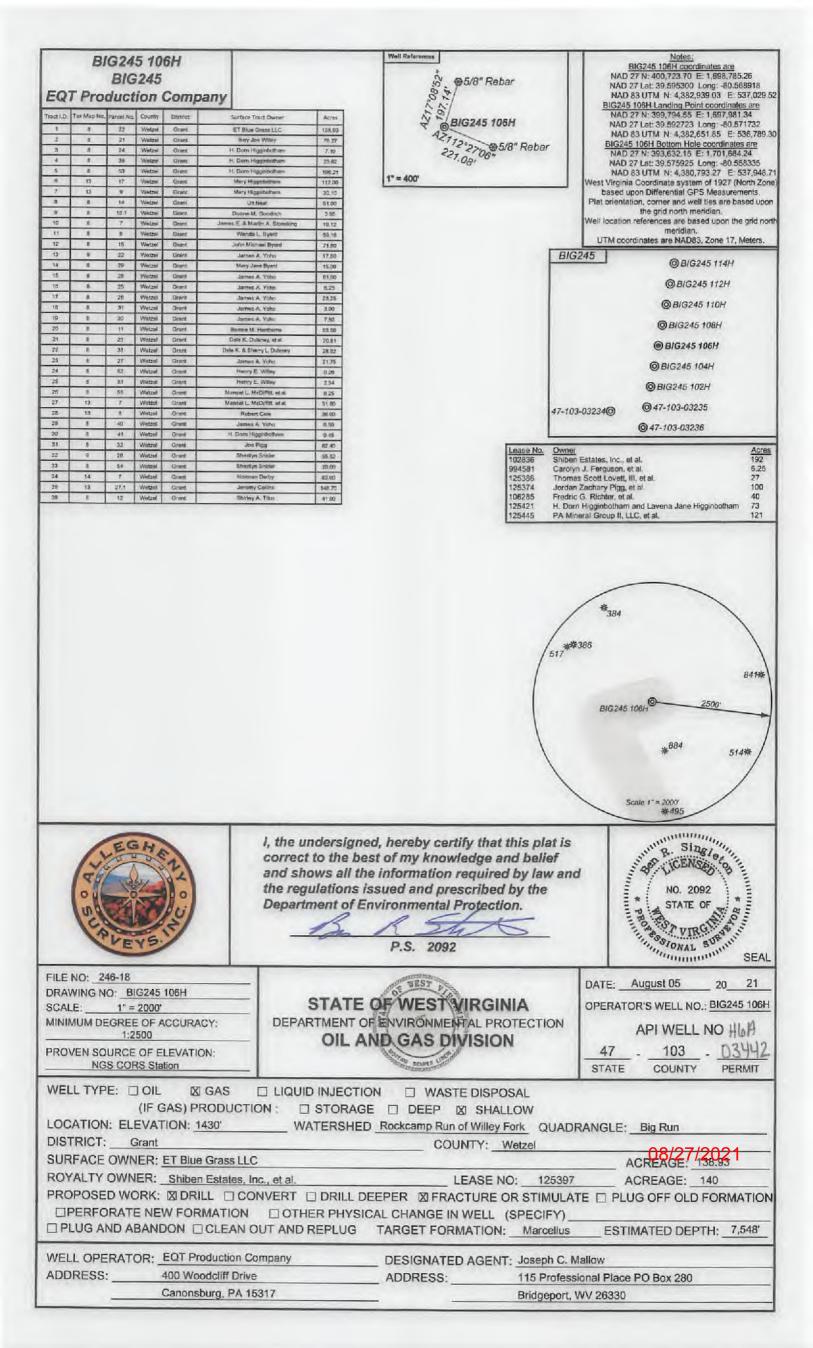
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08/27/2021







WW-6A1 (5/13)

Operator's Well No. BIG245 106H

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 Attachment

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

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

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:	John Zavatchan					
Its:	Project Specialist - Permitting					

Page 1 of 3

08/27/2021

JUL 1 4 2021

WV Department of

Environmental Protection

W-6A1 attachment			Operator's Well No.	BIG245 106H		
ease No.	Grantor, Lessor, etc.	ntor, Lessor, etc. Acres Grantee, Lessee, etc.		Royalty	Book/Page	
				*at least 1/8th per		
	Shiben Estates, Inc., et al.			WV Code 22-6-8"		
<u>125397</u>	Joseph Shiben and Minnie Shiben, his wife, et al	140 ac	Equitable Gas Company		OG 44A/224	
	Equitable Gas Company		Equitrans, Inc.		OG 71A/453	
	Equitrans, Inc., et al		Equitrans, LP		Misc. Book 105/908	
	Equitrans, L.P.		EQT Production Company		OG 131A/81	
	Shikan Entrino, Inc. of al			"at least 1/8th per WV Code 22-6-8"		
102836	Shiben Estates, Inc., et al. S. I. Robinson	192 ac	Philadelphia Company	WW COUC 22-0-0	DB 47/469	
	The Philadelphia Company of West Virginia		Pittsburgh & West Virginia Gas Compa	ny	OG 22A/352	
	Pittsburgh & West Virginia Gas Company		Equitable Gas Company		DB 187/321	
	Equitable Gas Company		Equitrans, Inc.		OG 71A/453	
	Equitrans, Inc., et al		Equitrans, LP		Misc. Book 105/908	
	Equitrans, L.P.		EQT Production Company		OG 131A/81	
	<u>Carolyn J. Ferguson, et al.</u>			"at least 1/8th per WV Code 22-6-8"		
<u>994581</u>	Elizabeth Stewart, a/k/a Elizabeth J. Stewart, widow	6.25 ac	EQT Production Company		OG 146A/287	
				"at least 1/8th per		
475200	Thomas Scott Lovett, III, et al.	07	Facilitate Ora Orangen	WV Code 22-6-8"	00 444 // 40	
<u>125386</u>	Robert E. Lee and Lena A. Lee, his wife, et al Equitable Gas Company	27 ac	Equitable Gas Company		OG 44A/142	
	Equitable Gas Company Equitrans, Inc., et al		Equitrans, Inc.		OG 71A/453	
	Equitrans, LP.		Equitrans, LP		Misc. Book 105/908 OG 131A/81	
			EQT Production Company		09 131401	
	Jordan Zachary Pigg, et al.			"at least 1/8th per WV Code 22-6-8"		
<u>125374</u>	Josephine J. Pigg and Joe W. Pigg, her husband	100 ac	Equitable Gas Company		OG 52A/165	
	Equitable Gas Company		Equitrans, Inc.		OG 71A/453	
	Equitrans, Inc., et al		Equitrans, LP		Misc. Book 105/908	
	Equitrans, L.P.		EQT Production Company		OG 131A/81	
					RECEIVED	
	Fradria C. Diabétan et al			"at least 1/8th per	Office of Oil and	
106285	Fredric G. Richter, et al. John E. Snnider and Mahalia A. Snider, his wife	40 ac	John Lavelle	WV Code 22-6-8*	DB 76/239 1 4 202	
	John Lavelle	10 40	Equitable Gas Company		Unrecorded	
	Equitable Gas Company		Equitrans, Inc.	ł	My Department c Ny ronmental Protect Misc. Book 105/908 otec	
	Equitrans, Inc., et al		Equitrans, LP		Misc. Book 105/908 otec	
	Equitrans, L.P.		EQT Production Company		OG 131A/81	
				"at least 1/8th per		
125421	<u>H. Dorn Higginbotham and Lavena Jane Higginbotham</u> Elva R. King and Charles H. King, her husband, et al	73 ac	Willord C. Forroll	WV Code 22-6-8"	00 424/411	
144761	Willard E. Ferrell	7 3 BC	Willard E. Ferrell Equitable Gas Company		OG 42A/411 OG 44A/320	
	Equitable Gas Company		Equitrans, Inc.		OG 71A/453	
	Equitrans, Inc., et al		Equitrans, LP		Misc. Book 105/908	
	Equitrans, L.P.		EQT Production Company		OG 131A/81	

	PA Mineral Group II, LLC, et al.
<u>125445</u>	Elva R. King and Charles H. King, her husband, et al
	Equitable Gas Company
	Equitrans, Inc., et al
	Equitrans, L.P.

121 ac

lac Eo

	"at least 1/8th per WV Code 22-6-8"
Equitable Gas Company	OG 45A/25
Equitrans, Inc.	OG 71A/453
Equitrans, LP	Misc. Book 105/908
EQT Production Company	OG 131A/81

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JUL 1 4 2021

WV Department of Environmental Protection

EQT PRODUCTION COMPANY 400 Woodcliff Drive | Canonsburg, PA 15317



July 13, 2021

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

Re: BIG245 106H Grant District, Wetzel County, WV

Dear Mr. Brewer,

EQT Production Company is applying for a new well work permit for the well referenced above. Upon information and belief, the 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,

John Zavatchan Project Specialist - Permitting

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WV Department of Environmental Protection



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

Date of Notice Certification: 7132621

API No. 47-	
Operator's Well No	106H
	BIG245

Notice has been given:

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

State:	West Virginia	UTM NAD 83 Ea	sting:	537029.515	
County:	Wetzel	UTMINAD 85 No	orthing:	4382939.025	
District:	Grant	Public Road Access:		CR 19/2	
Quadrangle:	Big Run	Generally used farm	name:	ET Blue Grass LLC	
Watershed:	Rockcamp Run of Willey Fork				

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

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY	OOG OFFICE USE ONLY
□ 1. NOTICE OF SEISMIC ACTIVITY OF ■ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/ NOT REQUIRED
□ 2. NOTICE OF ENTRY FOR PLAT SURVEY or ■ NO PLAT SURVEY WAS CONDUCTED	□ RECEIVED
3. NOTICE OF INTENT TO DRILL or DINOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	RECEIVED/ NOT REQUIRED
WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) RECEIVED Office of O/I and Gam	
4. NOTICE OF PLANNED OPERATION JUL 1 4 2021	RECEIVED
5. PUBLIC NOTICE	RECEIVED
6. NOTICE OF APPLICATION WV Department of Envitonmental Protection	RECEIVED

Required Attachments:

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

Certification of Notice is hereby given:

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

Well Operator:	EQT Production Company	Address:	400 Woodcliff Drive
By:	John Zavatchan		Canonsburg, PA 15317
Its:	Project Specialist Permitting	Facsimile:	412-395-2974
Telephone:	724-746-9073	Email:	jzavatchan@eqt.com
Commonw Reb My com	NOTARY SEAL ealth of Pennsylvania - Notary Seal ecca Shrum, Notary Public Beaver County	ubscribed and swo Lebec y Commission Ex	orn before me this 13^{44} day of $\overline{J_{14}}, 2021$. Notary Public

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@wy.gov.

RECEIVED Office of Oil and Gas

JUL 1 4 2021

WV Department of Environmental Protection

08/27/2021

WW-6A (9-13) API NO. 47-____-OPERATOR WELL NO. 106H Well Pad Name: BIG245

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF APPLICATION</u>

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

Date of Notice:	7/12/2021	Date Permit Application Filed: 7(13)	64
Notice of:			

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

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

PERSONAL	REGISTERED	METHOD OF DELIVERY THAT REQUIRI	ES A
SERVICE	MAIL	RECEIPT OR SIGNATURE CONFIRMATION	ON

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the crosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

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

SURFACE OWNER(s) Name: See Attached List	COAL OWNER OR LESSEE Name: See Attached List	
Address:	Address:	
Name:	COAL OPERATOR	
Address:	Name: ACNR Resources, Inc.	RECEIVED
	Address: 46226 National Road	Office of Oil and Gas
SURFACE OWNER(s) (Road and/or Other Disturbance)	St. Clairsville, OH 43950	11
Name: See Attached List	□ SURFACE OWNER OF WATER WELL	JUL 1 4 2021
Address:	AND/OR WATER PURVEYOR(s)	= = 2021
	Name:	10/1 4 15
Name:	Address:	WV Department of
Address:		Wironmental Protection
	OPERATOR OF ANY NATURAL GAS STOR	AGE FIELD
□ SURFACE OWNER(s) (Impoundments or Pits)	Name: Equitrans Midstream c/o Gerald Smith	ton there a
Name:	Address: 2200 Energy Drive	
Address:	Canonsburg, PA 15317	
	*Please attach additional forms if necessary	

WW-6A (8-13)

10303442

OPERATOR WELL NO. 105H Well Pad Name: BIG245

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

(BSHIVEL)

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep(wy.gov/oilund-gas/pages/default.aspx.

Well Location Restrictions

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

OPERATOR WELL NO. 106H 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 ¢ ði +926-0450 RECEIVED Office of Oil and Gas

JUL 1 4 2021

Ø ÕÌ +926-0450 Such persons may request, at the time of submitting written comments, notice of the permit decision and artist of personal personal

08/27/2021

WW-6A (8-13)

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OPERATOR WELL NO. 106H 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 six of this chapter, as applicable and as incorporated into this 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-

<u>Permits/Pages/default.aspx</u> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

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

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

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

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

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WV Department of Environminial Protection



WW-6A	API NO. 47
(8-13)	OPERATOR WELL NO. 106H
	Well Pad Name: BIG245
Notice is hereby given by:	
Well Operator: EQT Production Company	Address: 400 Woodcliff Drive
Telephone: 724-746-9073	Canonsburg, PA 15317
Email: jzavatchan@eqt.com	Facsimile: 412-395-2974

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.

Commonwealth of Pennsylvania - Notary Seal Rebecca Shrum, Notary Public Beaver County My cemmission expires March 9, 2024 Commission number 1267706 Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this 3th day of Ju	y, 2021 .
Rebeccy Dr	Notary Public
My Commission Expires March 9, 2024	

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JUL 1 4 2021

WV Department of Environmental Protection

08/27/2021

				47108	03442
Topo Quad: _	Big Run 7.5'		Scale:	1" = 1000'	
County:	Wetzel		Date:	June 24, 2021	
District:	Grant		Project No: _	246-34-G-18	
Water	4	BIG	245		
20	E	6 Potential Water S	Sources with	iin 2500'	Ander Ridge
		Site 8 🛞			Ridge
100			Site 9 🛞	\sim	
	Site 4 S Site 5	Site 6 Site 7	1		
	Site 3 () Site 2 ()	3000-1000			
Site 1		2500'	_		
	BIG RUM				RECEIVED Office of Oil and Gas JUL 1 4 2021
					WV Department of Environmental Protection
LEGEN	d Sampling			Site 10	NAD 27, North Zon N: 400,723.70 E: 1,698,785.26
Blue Symbol - Reques / Unabl	sted Sampling le to Contact		OCK CA.		
WellSpring	13	1 St. 1	80C1		WGS 84 LAT: 39.595300
Pond Building	()		Site 11		LONG: -80.568918 ELEV: 1430.00
EGN	SURVEYING AND	MAPPING SERVICES PERFOR	MED BY: PREF	ARED FOR:	
TO SUGAR	ALLEGH	ENY SURVEYS 1-800-482-8606 237 Birch River Road Birch River, WV 26610 PH: (304) 649-8606 FAX: (304) 649-8608	, INC. E	400 W	ction Company loodcliff Drive sburg, PA 15317
					08/27/2021

BIG245

4710303442

Surface Owners (All Disturbance):

- Wanda L. Byard
 1250 Meadowland Dr.
 Lewisport, KY 42351 /
- Neal Utt
 1204 Big Run Rd.
 Burton, WV 26562
- Ikey Joe Willey 12359 Willey Fork Rd. / Pine Grove, WV 26419
- ET Blue Grass LLC
 PO Box 6135
 Pittsburgh, PA 15212-0135

Coal Owners:

- WPP, LLC
 5260 Irwin Road
 Huntington, WV 25727-3247
- Frances E. Hartman (Fluharty) heirs & assigns
 4337 5th Avenue
 Pittsburgh, PA 15213

Coal Operator:

 ACNR Resources, Inc. 46226 National Road
 St. Clairsville, OH 43950

No Water Supplies within 1500'

Operator of Any Natural Gas Storage Field:

 Equitrans Midstream c/o Gerald Smith
 2200 Energy Drive
 Canonsburg, PA 15317 RECEIVED Office of Oil and Gas

JUL 1 4 2021

WV Department of Environmental Protection

08/27/2021

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

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

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application. Date of Notice: 06/23/2021 Date Permit Application Filed: 11/22/24

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

HAND	π	CERTIFIED MAIL
DELIVERY		RETURN RECEIPT REQUESTED

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

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

Name: See attachment	Name:
Address:	Address:

Notice is hereby given:

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

State:	West Virginia	UTM NAD 83 E	asting:	537029.515	
County:	Wetzel	UTMINAD 85 N	orthing:	4382939.025	
District:	Grant	Public Road Access	s:	CR 19/2	
Quadrangle:	Big Run	Generally used farm	n name:	BIG245	
Watershed:	Rockcamp Run of Willey Fork				

This Notice Shall Include:

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

Notice is hereby given by:

Well Operator:	EQT Production Company Authorized Representative:		John Zavatchan	
Address:	400 Woodcliff Drive	Address:	400 Woodcliff Drive	
Canonsburg, PA 15317		Canonsburg, PA 15317		
Telephone:	724-746-9073	Telephone:	724-746-9073	
Email:	jzavatchan@eqt.com	Email:	jzavatchan@eqt.com	
Facsimile:	412-395-2974	Facsimile:	412-395-2974	

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.

WV Department of Environmental Protection



BIG245 Surface Owner List (All Disurbance)

- 04-8-8
 Wanda L. Byard
 1250 Meadowland Dr.
 Lewisport, KY 42351
- 04-8-14
 Neal Utt
 1204 Big Run Rd.
 Burton, WV 26562
- 04-8-21
 Ikey Joe Willey
 12359 Willey Fork Rd.
 Pine Grove, WV 26419
- 04-8-22 ET Blue Grass, LLC.
 P.O. Box 6135
 Pittsburgh, PA 15212

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WV Department of Environmental Protection



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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 612121 Date Permit Application Filed: 11212021

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

CERTIFIED MAIL	HAND
RETURN RECEIPT REQUESTED	DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s)

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

Name: See attachment	Name:		
Address:	Address:		

Notice is hereby given:

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

State:	West Virginia
County:	Wetzel
District:	Grant
Quadrangle:	Big Run
Watershed:	Rockcamp Run of Willey Fork

UTM NAD 83	Easting:	537029.515	
	Northing:	4382939.025	
Public Road Access: Generally used farm name:		CR 19/2	
		BIG245	

This Notice Shall Include:

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

Well Operator:	EQT Production Company	Address:	400 Woodcliff Drive	
Telephone:	724-746-9073		Canonsburg, PA 15317	
Email:	jzavalchan@eqt.com	Facsimile:	412-395-2974	

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@wy.gov.

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WV Department of Environmental Protects

BIG245 Surface Owner List (All Disurbance)

- 04-8-8
 Wanda L. Byard
 1250 Meadowland Dr.
 Lewisport, KY 42351
- 04-8-14
 Neal Utt
 1204 Big Run Rd.
 Burton, WV 26562
- 04-8-21
 Ikey Joe Willey
 12359 Willey Fork Rd.
 Pine Grove, WV 26419
- 04-8-22
 ET Blue Grass, LLC.
 P.O. Box 6135
 Pittsburgh, PA 15212

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JUL 1 4 2021

WV Department of Environmental Protection 08/27/2021

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

Byrd E. White, III Secretary of Transportation/ Commissioner of Highways

Jimmy Wriston, P. E. Deputy Secretary/ Deputy Commissioner

July 13, 2021

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, Wetzel County BIG245 106H Well Site 11

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2016-0430 which has been issued to EQT Production Company for access to the State Road for a well site located off Wetzel County Route 19/2 SLS MP1.42.

This operator is in compliance with §22-6A-20 of the WV Code. 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 October 1, 2018. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Jan K. Clayton

Gary K. Clayton, P.E. Regional Maintenance Engineer RECEIVED Central Office O&G Coordinatorice of Oll and Gas

JUL 1 4 2021

WV Department of Environmental Protection

Cc: Becky Shrum EQT Production Company CH, OM, D-6 File

E.E.O./AFFIRMATIVE ACTION EMPLOYER:



Anticipated Frac Additives

Chemical Names and CAS Numbers

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

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WV Department of Environmental Protection

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