

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 110H 47-103-03444-00-00

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.

Operator's Well Number: BIG245 110H

Farm Name: ET BLUE GRASS LLC

U.S. WELL NUMBER: 47-103-03444-00-00

Horizontal 6A New Drill Date Issued: 8/16/2021

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 conditions may result in enforcement action</u>.

CONDITIONS

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

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.

4710303444
API NO. 47-_____
OPERATOR WELL NO. 110H
Well Pad Name: BIG245

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

1) Well Operate	or: EQT Pro	duction Com	npany	306686	Wetzel	Grant	Big Run	
•				Operator ID	County	District	Quadrangle	
2) Operator's V	Vell Number: _	110H		Well Pad	Name: BIG24	15		
3) Farm Name/	Surface Owner	r: ET Blue C	Grass L	LC Public Road	d Access: CR	19/2		
4) Elevation, cu	irrent ground:	1430'	Ele	evation, proposed p	post-construction	on: 1430'		
5) Well Type	(a) Gas X Other		Oil	Unde	erground Storag	e		
	` '	Shallow X	(Deep				
6) Existing Pad	: Yes or No Y	es						
-	rget Formatior 548', 19', 2,620		, Antici	pated Thickness a	nd Expected Pr	essure(s):		
8) Proposed Total Vertical Depth: 7,548'								
9) Formation at	Total Vertical	l Depth: Ma	rcellus				<u> </u>	
10) Proposed T	otal Measured	Depth: 19	,231					
11) Proposed H	orizontal Leg	Length: 11,	,242'					
12) Approxima	te Fresh Water	r Strata Depth	ıs:	243', 521', 676',	766', 1025'			
13) Method to 1	Determine Fres	sh Water Dep	oths: C	Offset Wells - 47-1	03-00376 & 4	7-103-003	80	
14) Approxima	te Saltwater D	epths: None	· _					
15) Approxima	te Coal Seam I	Depths: 939	'-940',	1038'-1047', 1137	7'-1143'		RECEIVED	
16) Approxima	te Depth to Po	ssible Void (coal mi	ne, karst, other): 3	300'		Office of Oil and Gas	
17) Does Propo	-	·		_			JUL 1 4 2021	
directly overlying				Yes X	No	<u>=</u>	WV Department of invironmental Protection	
(a) If Yes, pro	vide Mine Info	o: Name:	Harris	son Co. Mine				
		Depth:	300'					
		Seam:	Pittsb	urgh				
		Owner:	ACNE	Resources, Inc.				

API NO. 47-10303444

OPERATOR WELL NO. 110H

Well Pad Name: BIG245

18)

Kind:

Sizes:

Depths Set:

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	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	19231	19231	500' above intermediate casing
Tubing							
Liners							

Began Hann 7-12-21

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (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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Environmental Protection

WW-6B (10/14)

710303444 OPERATOR WELL NO. 110H 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 the Solid and Gas

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24) Describe all cement additives associated with each cement type:

WV Department of **Environmental Protection**

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, Bonding Agent, Retarder,

Anti-Settling/Suspension Agent

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

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

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

Sincerely

James Peterson

Environmental Resources Specialist / Permitting

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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 easing 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 "I" 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 OF THE STATE OF WEST VIRGINIA

James Martin, Chief Office of Oil and Gas Office of Oil and Gas

JUL 1 4 2021

WV Department of Environmental Protection

Wellbore Diagram **EQT Production** County: Wetzel BIG 245 110H Well: West Virginia State: Pad: **BIG 245** Elevation: 1430' GL 1443' KB 4710303444 40' Conductor @ 26", 85.6#, A-500, cement to surface w/ Class A 1,193' Surface 13-3/8", 54.5#, J-55, cement to surface w/ Class A/Type I Intermediate 2,651' 9-5/8", 36#, J-55, cement to surface w/ Class A/Type I RECEIVED Office of Oil and Gas JUL 14 2021 WV Department of Environmental Protection 19,231' MD / 7,548' TVD **Production** 5-1/2", 20#, P-110, cement to 500' inside 9-5/8" w/ Class A/H Formation: Marcellus 08/20/20/20/20 CALE



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 110H

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.

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WEST VIRGINIA GEOLOGICAL PROGNOSIS

Horizontal Well BIG245 S-000221

Drilling Objectives: County:

Marcellus

Quad:

Wetzel Big Run

Elevation:

1443 KB

1430 GL

Recommended Azimuth

TBD Degrees

Recommended LP to TD: TBD

Proposed Logging Suite:

Not needed

ESTIMATED FORMATION TOPS

Formation	Top (TVD)	Base (TVD)	Lithology	Comments			
Fresh Water Zone	1	1025		FW at 243,521,676,766,1025.			
Waynesburg Coal	939	940 Co.	al				
Mapletown Coal	1038	1047 Co.	al				
Pittsburgh Coal	1137	1143 Co.	al	There are no known past, present, or future mining and/or permits	1		
STORAGE ZONE	2383	2439 Sar	ndstone	STORAGE ZONE			
Maxton	2310	2351 Sar	ndstone	Base of Offset Well Perforations at 1171' TVD			
Big Lime	2364	2434 Lin	nestone				
Big Injun	2434	2601 Sar	ndstone				
Int Casing	2651						
Weir	2770	2810 Sile	ty Sand				
Top Devonian	2986						
Gordon	3168	3207 Silt	ty Sand				
Forth Sand	3226	3270 Sill	ty Sand				
Bayard	3274	3504 Silt	ty Sand				
Speechley	3896	4118 Silt	ty Sand		Top RR	Base R	R
Riley	4689	4921 Silt	ty Sand		225		238
Benson	5385	5533 Sile	ty Sand		273		285
Alexander	5847	6163 Silt	ty Sand		288		298
Elks	6163	7068 Gra	y Shales and Silts		320		338
Sonyea	7068	7145 Gra	ny shale		381		391
Middlesex	7233	7285 Sha	ale	Depth as seen on Previous BIG 245 Well H17	491		503
Genesee	7285	7372 Gra	y shale interbedded	Depth as seen on Previous BIG 245 Well H17	563		583
Geneseo	7372	7395 Bla	ick Shale	Depth as seen on Previous BIG 245 Well H17	820		829
Tully	7395	7418 Lin	nestone	Depth as seen on Previous BIG 245 Well H17	825		831
Hamilton	7418	7512 Gra	ay shale with some	Depth as seen on Previous BIG 245 Well H17	858		863
Marcellus	7512	7531 Bla	ick Shale	Depth as seen on Previous BIG 245 Well H17	976		98
Purcell	7531	7533 Lin	nestone	Depth as seen on Previous BIG 245 Well H17			
Lateral Zone		7548					
Cherry Valley	7543	7545 Lin	nestone				
Onondaga	7565	Lin	nestone				

Target Thickness 19 feet

Comments:

Note that this is a TVD prog for a horizontal well (azimuth of TBD degrees; target formation = Marcellus). All measurements taken from estimated KB elevation. Water and coal information estimated from surrounding well data.

Intermediate casing point is recommended 50' beneath the Big Injurato shut off any water production from the Upper Devonian sands. Keener storage zone from 2369' to 2425' MD, please take all necessary precautions while drilling!! Intermediate casing should be cemented into the surface string, per WV regulations.

	RECOMMENDED	CASING	POINTS
--	-------------	--------	--------

RECOMMENDED CASI	NG POINTS	menta	Depar	1	ECE ECE			
Fresh Water/Coal	CSG OD	13 3/8	3	<u>u</u>	CSG DEPTH:		1193	50' below Pittsburgh
Intermediate 1:	CSG OD	9 5/8	en	2 2	CSG DEPTH:		2651	50' below Big Injun
Production:	CSG OD	5 1/2	0	2 g	CSG DEPTH:	@ TD		

EQT Production

Hydraulic Fracturing Monitoring Plan

Pad ID: BIG245

County: Wetzel

July 9, 2021

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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 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
- 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 EIVED of a pressure recommended by EQT Office of Oil and Gas
- 4. Notify the OOG and EQT if any changes in water, gas production, pressure, or other anomalies are identified

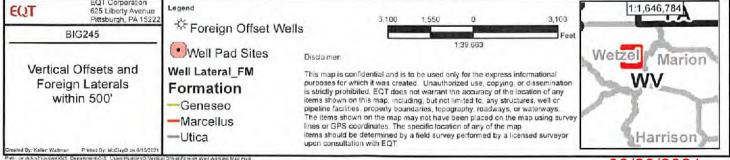
2. Reporting

WV Department of Environmental Protection

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

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WellID	WellStatus	date	FmatTD		Permit	Operator	Longitude	Latitude	TargetFm	DatumEleva	TotalDepth-SS	Total Depth
4710300283	GAS	3/24/1943			00283	EPC	-80.5821	39.6113		1190.0000	-2099.0000	3289.0000
4710300291	GAS-P	1/24/1944			00291	CARNEGIE NAT GAS	-80.5503	39.5711		1205.0000	-2129.0000	3334.0000
4710300301	GAS	1/11/1944			00301	CNG	-80.5351	39.5563		933.0000	282.0000	651.0000
4710300313	GAS-P	7/24/1944			00313	CNG	-80.5352	39.5530		911.0000	284.0000	627.0000
4710300331	GAS	11/17/1903			00331	PGH & WV GAS	-80.5680	39.5883		1109.0000	-1176.0000	2285.0000
4710300371	GAS	2/26/1951			00371	FOSTER MCKENZIE	-80.5771	39.5875		825.0000	295.0000	530.0000
4710300372	GAS-P	3/10/1951			00372	FOSTER MCKENZIE	-80.5773	39.5917		842.0000	299.0000	543.0000
4710300376	GAS	4/11/1952			00376	P C MCKENZIE		39.5907		1265.0000	257.0000	1008.0000
4710300380	DRY	5/23/1952			00380	P C MCKENZIE		39.5962		1267.0000	132.0000	1135.0000
4710300384	GAS	5/27/1953			00384	P C MCKENZIE	-80.5726	39.6007		855.0000	270.0000	585.0000
4710300385	GAS	7/4/1953			00385	P C MCKENZIE	-80.5740	39.6032		905.0000	258.0000	647.0000
4710300386	GAS	6/16/1953			00386	EPC	-80.5753	39.5987		847.0000	277.0000	570.0000
4710300388	GAS	10/24/1953			00388	P C MCKENZIE	-80.5699			938.0000	272.0000	666.0000
4710300432	DRY	6/22/1956			00432	P C MCKENZIE	-80.5738	39.6112		994.0000	-501.0000	1495.0000
4710300433	GAS	8/17/1956			00433	P C MCKENZIE	-80.5829			1509.0000	274.0000	1235.0000
4710300449	GAS	6/15/1957			00449	NORTH FORK DEVELOP	-80.5650			825.0000	288.0000	537.0000
4710300451	GAS	7/7/1957			00451	NORTH FORK DEVELOP	-80.5669			817.0000	288.0000	529.0000
4710300452	GAS	8/9/1957			00452	NORTH FORK DEVELOP	-80.5635	39.5842		886.0000	272.0000	614.0000
4710300453	DRY	10/5/1957			00453	NORTH FORK DEVELOP	-80.5624			979.0000	254.0000	725.0000
4710300457	DRY	1/5/1958			00457	NORTH FORK DEVELOP	-80.5652	39.5854		1108.0000		859.0000
4710300493	STORAGE	3/8/1963			00493	EPC	-80.5744			1163.0000	-995.0000	2158.0000
4710300494	STORAGE	11/8/1961			00494	EPC	-80.5729			1086.0000	-1002.0000	2088.0000
4710300495	STORAGE	3/15/1963				EPC	-80.5678			1109.0000	-1011.0000	2120.0000
4710300496	STORAGE	11/16/1961			00496	EPC	-80.5673	39.5868		844.0000	-1697.0000	2541.0000
4710300499	STORAGE	10/11/1961			00499	EPC		39.5831		923.0000	-969.0000	1892.0000
4710300509	STORAGE	1/3/1963			00509	EPC		39.5862		1155.0000	-1140.0000	2295.0000
4710300510	GAS	8/29/1961			00510	PEMCO GAS	-80.5772	39.6011		934.0000	272.0000	662.0000
4710300514	STORAGE	5/17/1962			00514	EPC		39.5927		1107.0000	-985.0000	2092.0000
4710300516	STORAGE	6/6/1962			00516	EPC		39.5815		1034.0000	-981.0000	2015.0000
4710300517	STORAGE	6/20/1962			00517	EPC		39.5984		869.0000		1844.0000
4710300520	STORAGE	11/14/1963			00520	EPC		39.5809		937.0000	-1088.0000	2025.0000
4710300522	STORAGE	7/24/1962						39.5880		1221.0000	-1930.0000	3151.0000
4710300523	STORAGE	1/2/1963			00523	EPC		39.5821		846.0000	-1010.0000	1856.0000
4710300524	STORAGE	10/24/1962			00524	EPC	-80.5557	39.5853		972.0000	-1735.0000	2707.0000
4710300529	STORAGE	5/1/1963			00529	EPC	-80.5495			1200.0000	-2028.0000	3228.0000
4710300531	STORAGE	8/10/1979			00531		-80.5549	39.5781		1098.0000	-1007.0000	2105.0000
4710300533	STORAGE	12/13/1962	m		00533	EPC		39.5841		829.0000		1814.0000
4710300534	STORAGE	6/9/1979	ا کی	_	00534 00534			39.5825		1067.0000		2090.0000
4710300536	STORAGE	5/17/1963	₫ <	يا	ରି ⊅00536	EPC		39.5817		1208.0000	-1755.0000	2963.0000
4710300538	STORAGE	7/31/1963	me De		○ M 000538	EPC		39.5805		836.0000		
		.,,	par	14	RECEIVED	J. J						
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			WV Department of Environmental Protection	2021	RECEIVED							
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4710300566	GAS	1/20/1965		00566	FOSTER MCKENZIE	-80.5767	39.5900	880.0000	332.0000	548.0000
4710300300	GAS	1,20,1505		00791	EPC	-80.5844	39.6136	0.0000	-99999.0000	99999.0000
4710300751	GAS-P	9/14/1903		00841	EPC	-80.5608	39.5983	1020.0000	-99999.0000	101019.0000
4710300845	P&A	9/22/1905	LOWER HURON SHALE	00845	EPC	-80.5862	39.6098	1290.0000	-1822.0000	3112.0000
4710300843	STORAGE	9/26/1922	LOWER HOROIT SHALL	00884	EQUITRANS	-80.5679	39.5925	1167.0000	-1044.0000	2211.0000
4710300884	STORAGE	10/19/1962		01145	EPC	-80.5581	39.5831	1067.0000	-1023.0000	2090.0000
		10/13/1302		30024	HOPE NAT GAS	-80.5322	39.5581	1229.0000	-1101.0000	2330.0000
4710330024	GAS		LOWED HUDON CHALE			•	39.5547	890.0000	-1894.0000	2784.0000
4710330027	OIL		LOWER HURON SHALE	30027	OPER IN MIN.OWN	-80.5381			-2142.0000	3339.0000
4710330646	GAS	3/19/1915		30646	DUNN-MAR O & G	-80.5683	39.5772	1197.0000		*
4710330989	GAS	1/17/1917	LOWER HURON SHALE	30989	CARNEGIE NAT GAS	-80.5478	39.5781	1200.0000	-2021.0000	3221.0000
4710370423	P&A			70423	PHILADELPHIA O	-80.5672	39.5839	0.0000	-99999.0000	99999.0000
47103FC7	UNK			03FC7	UNK	-80.5842	39.6063	0.0000	-99999.0000	99999.0000
47103FC8	P&A			03FC8	UNK	-80.5744	39.5841	0.0000	-99999.0000	99999.0000
47103FC9	P&A			03FC9	UNK	-80.5662	39.5831	0.0000	-99999.0000	99999.0000
47103TEMP13	UNK			EMP13		-80.5344	39.5531	0.0000	-99999.0000	99999.0000
47103TEMP6	UNK			TEMP6		-80.5381	39.5543	0.0000	-99999.0000	99999.0000

RECEIVED
Office of Oil and Gas
JUL 1 4 2021

WV Department of Environmental Protection

Commission number 1267706

Member, Pennsylvania Association of Notarles

WW-9 (4/16)

API Number 47 -	
Operator's We	II No. BIG245 110H

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 comp Will a pit be used? Yes No V		
Will a synthetic liner be used in the pit? Yes Proposed Disposal Method For Treated Pit Wastes: Land Application Underground Injection (UIC Perm Reuse (at API Number Various Off Site Disposal (Supply form Wideling Description of the Carplain Yes, The close then prepared then prepared then prepared of this well (vertical and horizonIf oil based, what type? Synthetic, petroleum, etc Additives to be used in drilling medium? See Attached	/W-9 for disposal location) sed loop system will remove drill cuttings from the drilling fluid. The drill cutting d for transportation to an off-site disposal facility. ontal)? Air, freshwater, oil based, etc. See Attached Synthetic Mud	RECEIVED
Drill cuttings disposal method? Leave in pit, landfill, remove	ed offsite, etc. Landfill	
-If left in pit and plan to solidify what medium will b	be used? (cement, lime, sawdust) N/A	JUL_1 4 2021
-Landfill or offsite name/permit number? See Attache		WV Department of
on August 1, 2005, by the Office of Oil and Gas of the West V provisions of the permit are enforceable by law. Violations law or regulation can lead to enforcement action.	d Gas of any load of drill cuttings or associated waste rejected within 24 hours of rejection and the permittee shall also deducted within 24 hours of rejection and the permittee shall also deducted the conditions of the GENERAL WATER POLLUTION PER Virginia Department of Environmental Protection. I understand any term or condition of the general permit and/or other ally examined and am familiar with the information submits and on my inquiry of those individuals immediately restant true, accurate, and complete. I am aware that there are	RMIT issued tand that the er applicable itted on this ponsible for
Subscribed and sworn before me this 13th day of	Notary Public	
My commission expires March 9, 2074	Rebecca Sh	Pennsylvania - Notary Seal nrum, Notary Public nref Sovety nexpires March 9, 2024

Operator's Well No. BIG245 110H

	tment: Acres Disturbed	Prevegetation pH	
	Tons/acre or to correc		
Fertilizer type Gra	anular 10-20-20		
Fertilizer amount	500	lbs/acre	
		Seed Mixtures	
T	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		
Maps(s) of road, location, porovided). If water from the acreage, of the land applicate	pit will be land applied, incition area		dimensions (L x '
provided). If water from the acreage, of the land applicate Photocopied section of invo	pit will be land applied, incition area	clude dimensions (L x W x D) of the pit, and	dimensions (L x `
Maps(s) of road, location, p provided). If water from the acreage, of the land applicate Photocopied section of involved Plan Approved by: Comments: Pre-seed	pit will be land applied, incition area lived 7.5' topographic sheet.	elude dimensions (L x W x D) of the pit, and	ably possibl
Maps(s) of road, location, p provided). If water from the acreage, of the land applicate Photocopied section of involved Plan Approved by: Comments: Pre-seed	pit will be land applied, incition area lived 7.5' topographic sheet.	clude dimensions (L x W x D) of the pit, and	ably possibl
Maps(s) of road, location, p provided). If water from the acreage, of the land applicate Photocopied section of involved Plan Approved by: Comments: Pre-seed	pit will be land applied, incition area lived 7.5' topographic sheet.	elude dimensions (L x W x D) of the pit, and	ably possibl
Maps(s) of road, location, p provided). If water from the acreage, of the land applicate Photocopied section of involved Plan Approved by: Comments: Pre-seed	pit will be land applied, incline area lived 7.5' topographic sheet. Muss / Aug. /mulch all disturbe	elude dimensions (L x W x D) of the pit, and	ably possibl

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.

RECEIVED
Office of Oil and Gas

JUL 14 2021

WV Department of Environmental Protection

 -			Production Water Plan						
acility Name	10.11		osals for Unconvention		Test		-	7	
	Address	Address 2	City	State	_	Phone	County	State	Permit Number
WS Trucking Inc.	P.O. Box 391		Williamstown	wv	26187	740-516-3586	Noble	ОН	3390
16:						<u> </u>			
Broad Street Energy LLC	37 West Broad Street	Suite 1100	Columbus	ОН	43215	740-516-5381	Washingotn	ОН	8462
AD Lincid Assets Discount Inc.									
AD Liquid Assets Disposal Inc.	226 Rankin Road		Washington	PA	15301	724-350-2760	Ohio	wv	USEPA WV 0014
riad Energy	PO 80x 430	<u></u>		-	46770	740 545 5034		-	4007
riau chergy	PO 80X 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
county vouse water management, me.	1407 TOMS RUIT ROBO		HOIDIOOK	FA	12241	724-499-5647	Greene	IFA .	10-1009
				+	-	724-455-3047		 	
ing Excavating Co. Advance Waste Services	101 River Park Drive		New Castle	PA	16101	 	Lawrence	PA	PAR000029132
S	202 Miles I dik Dilie		ITEM Castle	1.7	10101	<u> </u>	Lawrence	 	FARQUOUZ3132
Vaste Management - Meadowfill Landfill	Rt. 2, Box 68 Dawson Drive		Bridgeport	w	16330	304-326-6027	Harrison	w	SWF-1032-98
				1				 	Approval #100785WV
				+	1	i e			
Vaste Management - Northwestern Landfill	512 E. Dry Road		Parkersburg	w	26104	304-428-0602	Wood	w	SWF-1025 WV-010946
PEX Landfill	11 County Road 78	PO Box 57	Amsterdam	ОН	43903	740-543-4389	Jefferson	ОН	06-08438
						i			
dvanced Disposal - Chestnut Valley Landfill	1184 McClellandtown Road	Ì	McClellandtown	PA	15458	724-437-7336	Fayette	PA	100419
						ì			
Vestmoreland Sanitary Landfill	901 Tyrol Boulevard		Belle Vernon	PA	15012	724-929-7694	Westmoreland	PA	100277
ustin Master Services	801 North 1st Street		Martins Ferry	ОН	43935	740-609-3800	Belmont	ОН	2014-541
elmont Solids Control	77505 Cadiz-New Athers Road		Cadiz	ОН	43907	740-942-1739	Harrison	ОН	2015-511
iversified Resources	3111 Braun Rd.		Belpre	ОН	45714	740-401-0413	Washington	ОН	
				_	ļ				
						740-610-1512	1	1	34-031-27177
ushava Deiga	22005 41		Coshocton	ОН	43812	724-591-4393		ОН	34-031-27178
uckeye Brine	23986 Airport Road						Coshocton	-	34-031-27241
entral Environmental Services	28333 West Belpre Pike		Coolville	ОН	45722	204 400 0704	440	1011	
CHAIL CHAILOHNEHER SELVICES	28333 West Beiple Fike		Coolvine	Un	45723	304-488-0701	Athens	ОН	
uverra - Nichols	10555 Veto Road	-	Belpre	ОН	45714	330-232-5041	Washington	ОН	34-119-2-8776
	10333 VELO NOCU	 	Despie	1011	73/14	330-232-3041	wasinigton	100	34-113-2-0770
uverra - Goff	9350 East Pike Road	-	Norwich	Он	43767	330-232-5041	Muskingum	ОН	34-167-2-3862
			Norwich	10	13.0.	350 252 3042	, , , , , , , , , , , , , , , , , , ,	 	37 207 2 3002
uverra - Wolf	5480 State Route 5		Newton Falls	ОН	44444	330-232-5041	Trumbull	ОН	34-155-2-1893
		-		+	T	1		1	
uverra - Pander	5310 State Route 5			фн	44444	330-232-5041	Trumbull	ОН	34-155-2-3795
		-		^					
uverra - AnnaRock D-1	3549 Warner Road		Bowler A a	₹он	44418	330-232-5041	Trumbull	ОН	34-155-2-2403
			20 20 Ten	4	T			İ	
		, ecilor	Gas 021	·			•———		

ı		
	47-085-09721	
	34-105-2-3619	
	34-105-2-3652	
	34-105-2-3637	
	34-105-2-3651	
	Ohio Chiefs Order 25-019	
	24.44.2.2.2.2.2.	
	34-167-2-9766	

34-167-2-9577

34-121-24037

34-121-24086

740-374-2940

412-443-4397

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740-374-2940

740-374-2940

412-443-4397

740-236-2135

614-477-1368

740-255-5727 Ohio

45750 304-629-0176 Washington

412-443-4397

740-236-2135 Noble

740-236-2135 Ritchie

Meigs

Guernsey

740-236-2135 Washington

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Reno

Dexter City

Ellenboro

Portland

Cambridge

Tridelphia

Marietta

199 Bowersock Road

38505 Marietta Rd.

122 Lonesome Pine Rd

53610 TS Rd 706

745 North 3rd Street

38 Technology Dr.

2341 OH-821

FQ Helen

FQ Dexter

FQ Ritchie

FQ Mills

Petta Enterprises - OH

Petta Enterprises - WV

Deep Rock Disposal

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WV Department 5.
Environmental Protection RECEIVED
Office of Oil and Gas. JUL 14 2921



Bujar Ham 7-12-21

SITE SAFETY AND ENVIRONMENTAL PLAN

BIG245 Pad

Burton Wetzel County, WV

Prepared By: Donny Prater, CSP, Health and Safety Sciences, LLC

Approved By: Scott M. Held, Senior Safety Coordinator

Created Date: 29-Jan-20

Existing Wells:

Proposed Wells:

BIG245H8 - 47-103-03234

BIG245 1H, BIG245 3H, BIG245 102H, BIG245 104H

BIG245H16 - 47-103-03235

BIG245 106H, BIG245 108H, BIG245110H,

BIG245H17 - 47-103-03236

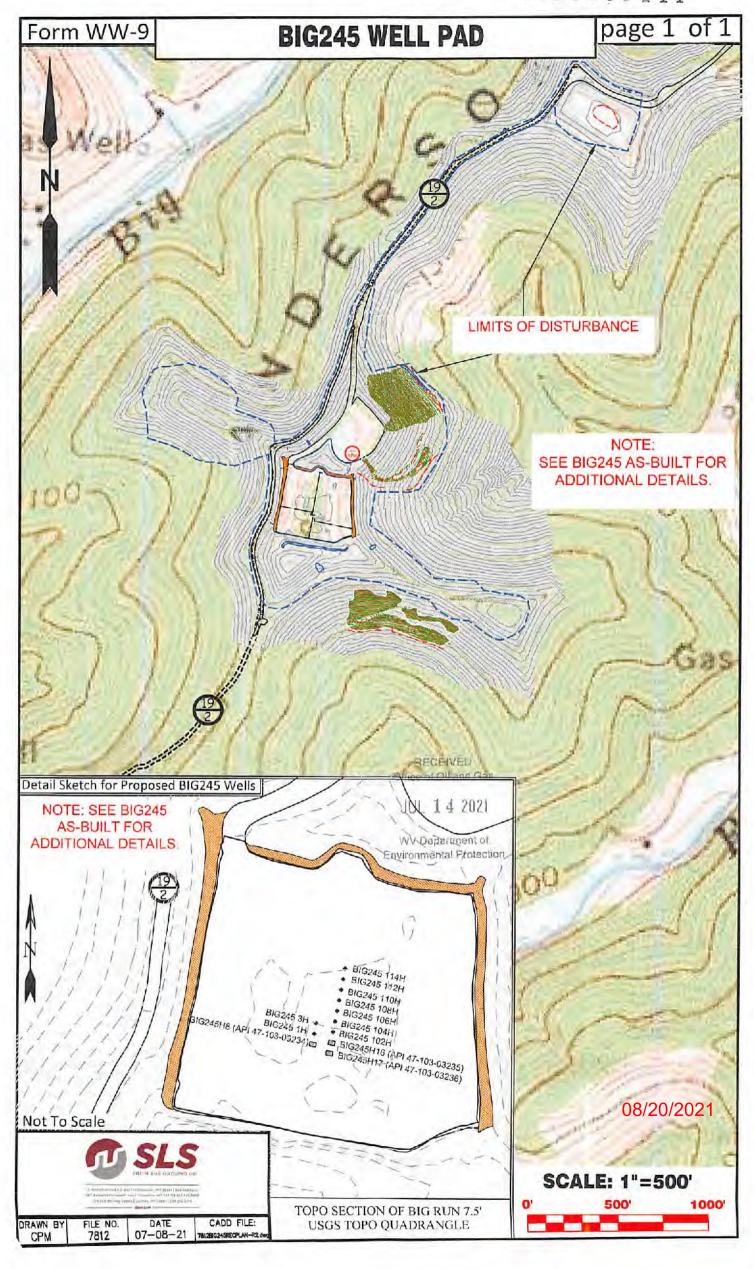
BIG245 112H, BIG245 114H

John Zavatchan

EQT Production Co.

Bryan Harris

WVDEP Oil and Gas Inspector



BIG245 110H **BIG245 EQT Production Company**

EW	Pro	uucı	IOII	Comp	ally	
Tract I.D.	Тви Мар №.	Parcel No.	County	District	Surface Tract Owner	Acres
- 1	8	22	Wetzel	Grant	ET Blue Grass LLC	136.93
2		25	Weitzel	Grant -	James A, Yoho	5.25
3		27	Wezzel	Grant	James A. Yoho	21.75
4	B	32	N/Vorzei	Grant	Joe Plag	82.40
5	ě	55	Wetzel	Genet	H. Dem Higginbotham	196.21
B	8	54	Wetzel	Grant.	Sherilyn Snider	20.00
7	14	7	Westzei	Grant	Norman Durby	83,00
В	13	45	Wetzni	Grant	Coastal Forest Resources Company	135.10
0	14	22	Wetzei	Geant	John W. Wyceff & Carolyn S. McGill	48.00
10	14	21	Wwtze/	Grant	John W. Wycoff & Carolyn S. McGill	2.50
11	14	.26	Western	Grani	EQT Production Company	50,50
12	14	37	Wetzer	Grant	EQT Production Company	36.50
13:	6	53.	Wether	Grant	Norman R. & Vivian L. Derby	32.00
14	14	36	Wetzel	Grant	EQT Production Company	100.00
15	8	10.1	Wetpel	Grant	Duane M. Goodsch	3.56
15		7	Western	Grant	James E. & Martin A. Stoneking	19 12
17	a		Wetzel	Grant	Wands L. Byard	59.16
18	- 0	16	Wetzel	Grant	John Michael Byard	71.50
19	a	22	Wetzel	Grant	James A. Yoho	17.60
20	8	20	Wetzel	Grunt	Mary Jane Byard	15.00
25	В	28	Wetzel	Grant	James A. Yoho	61.00
22.	8	23	Wetcel	Grant	Date K. Dultimey, et al.	70.61
23.	8	1.1	Wetzel	Grant	Bonnie M. Henthome	63,50
24	8	20	Wetzel	Grant	James A. Yoho	23.25
26	9	13	Wetzel	Grant	James A. Yoho	27.00
26	9	17	Wetzal	Grant	Lossia Watson	20,08
27	9	23	Wetzel	Grant	Stephen B, & Carolyn M, Gantz	119.00
28	9	29	Wetzel	Grant	William & Margaret Schleicher	47.90
20	0	28	Wetzel	Clried	Shenlyn Snider	59.52
20	8.	alg	Wetzel	Orient	James A. Yaho	0.50
31	8	41	Wetzel	Drent	H. Dom Higginbetham	0.45
32	H	30	Visitzed	Grant	James A. Yoto	7,60
53	8	24	Wetzel	Clivett	H. Dom Higginootham	7.10
34	8-	33	Wetzel	Grant	H. Dom Higginbotiam	23,62
35		52	Wetzel	Grant	Henry E. Willey	0.26
26	8	51	Vřetzel	Grant	Henry E. Willey	2.24
37	B.	55	Weizel	Grant	Manual L. McDiffitt, at al.	P.75
26	13	7	Wetzel	Grant	Monsel L. McDiffit, et al.	\$1,80
39	13	- 6	Wetzel	Grant	Robert Cole	38.00
40	12	17	Watzel	Grent	Mary Higgsdodnes	112.00
- 41	13	- 0	Wetzel	Cleant	Mary Higgshotses	30.10
42	13	27.5	Wetzel	Grant	Jeremy Collins	148.70
43	0	AD.1	Wetzel	Grant	Donald J. Dulliney	22.00
44	0	52.	Wetzel	Grant	Norman Deby	61.51
46	14	6	Weizel	Cirant	Esther R. Coln	59.50
46	3.4	10.	Weizel	Grant	John W. Wyeoff & Carolyn & McGill	29.60
-47	14	18	Wetzel	Cleant	John W. Wycoff & Carolyn S. McGill	86.70
:48	14	17	Wetzel	Grant	John W. Wycoff & Garolyn S. McGill	8.20
140	34	18	Wetzel	Grant	John W. Wycoff & Carolyn S, McGill	1.50
50.	9	40	Wetzel	Grant	Shariiyn Snider	24.00
51	9	65	Wetzel	Grant	Terri L. & Jasson D. Beatly	0.85
57	0	40.2	Wetzel	Geant	Terri L. Besty	
53	9	52.1	Westzei	Grant	Norman R. & Vivtan L. Derby	1.00
54	18	12.1	Weitzel	Grant	Liberty Midstream & Flesburges LLC	200.00
55	14	23	Weizel	Grant	Equitrans LP	51.00
68	14	36	Weizel	Citant.	Date O. Eastham, et al.	57.00
57	14	39.3	Wetzel	Grant	Date C. Easthern, et al.	38.06
5.5	9	54	Watzel	Grant:	Jack L. & Learns C. Barnette	17.40
50	0	56	Wetzel	Grant	Jack L. & Leanna C. Barrete	18.40
60	18	90	Wester	Grant.	Leonard Rice	55.00
61	14	11	Weitzel	Grant.	Thomas J. Parks, et al.	_
62	14	10	Weitzei	Grant	Coasta Forest Resources Company	108.68
	14.	25	Weitzei	Grant	Clara Snodprass	_
65						35.88



Notes:
BIG245 110H coordinates are
NAD 27 N: 400,753.19 E: 1,698,790.75
NAD 27 Let: 39.595381 Long: -80.568900
NAD 83 UTM N: 4,382,948.04 E: 537,031.04
BIG245 110H Landing Point coordinates are
NAD 27 N: 400,824.57 E: 1,699,695.59
NAD 27 Let: 39.595696 Long: -80.585692

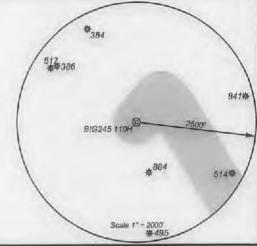
NAD 27 Lat: 39.595606 Long: -80.565692 NAD 83 UTM N: 4,382,974.40 E: 537,306.35 NAD 83 UTM N: 4,382,974.40 E: 537,306.35
BIG245 110H Bottom Hole coordinates are
NAD 27 N: 391,195.20 E: 1,705,481.74
NAD 27 Lat: 39.569357 Long: -80.544764
NAD 83 UTM N: 4,380,070.16 E: 539,118.05
West Virginia Coordinate system of 1927 (North Zone)
based upon Differential GPS Measurements.
Plat orientation, comer and well ties are based upon
the gnd north meridian.
Well location references are based upon the grid north
meridian.

meridian.

UTM coordinates are NAD83, Zone 17, Meters

BIG245	⊚BIG245 114H
	⊚ BIG245 112H
	® BIG245 110H
	⊚ BIG245 108H
	⊘ BIG245 106H
	⊘ BIG245 104H
	⊗ BIG245 102H
47-103-03234@	@ 47-103-03235
	◎ 47-103-03236

Lease No.	Owner	Acres
125372	Raymond P. Gaston and Pamela J. Gaston, et al.	61
125374	Jordan Zachary Pigg, et al.	100
125445	PA Mineral Group II, LLC, et al.	121
125424	Sheriivn Snider	80
125425	Sherilyn Louisa Snider, et al.	20
116735	Jacob Francis Shreve III, et al.	22
125375	Jacob Francis Shreve III aka Jacob F. Shreve, et al.	62
125394	Esther R. Coen, et al.	60
125423	AMP Fund III, LP, et al.	85
706740	EQT Production Company	1003.75
125466	Bounty Mineral LLC	67
1018113	Tamara L. Donohue f/k/a Tamara Lynn Hixenbaugh, et al.	50.5





I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

P.S. 2092



21

FILE NO: 246-	16
DRAWING NO:	BIG245 110H
SCALE: 1	" = 2000
MINIMUM DEGR	REE OF ACCURACY: 1:2500
	CE OF ELEVATION:

Canonsburg, PA 15317

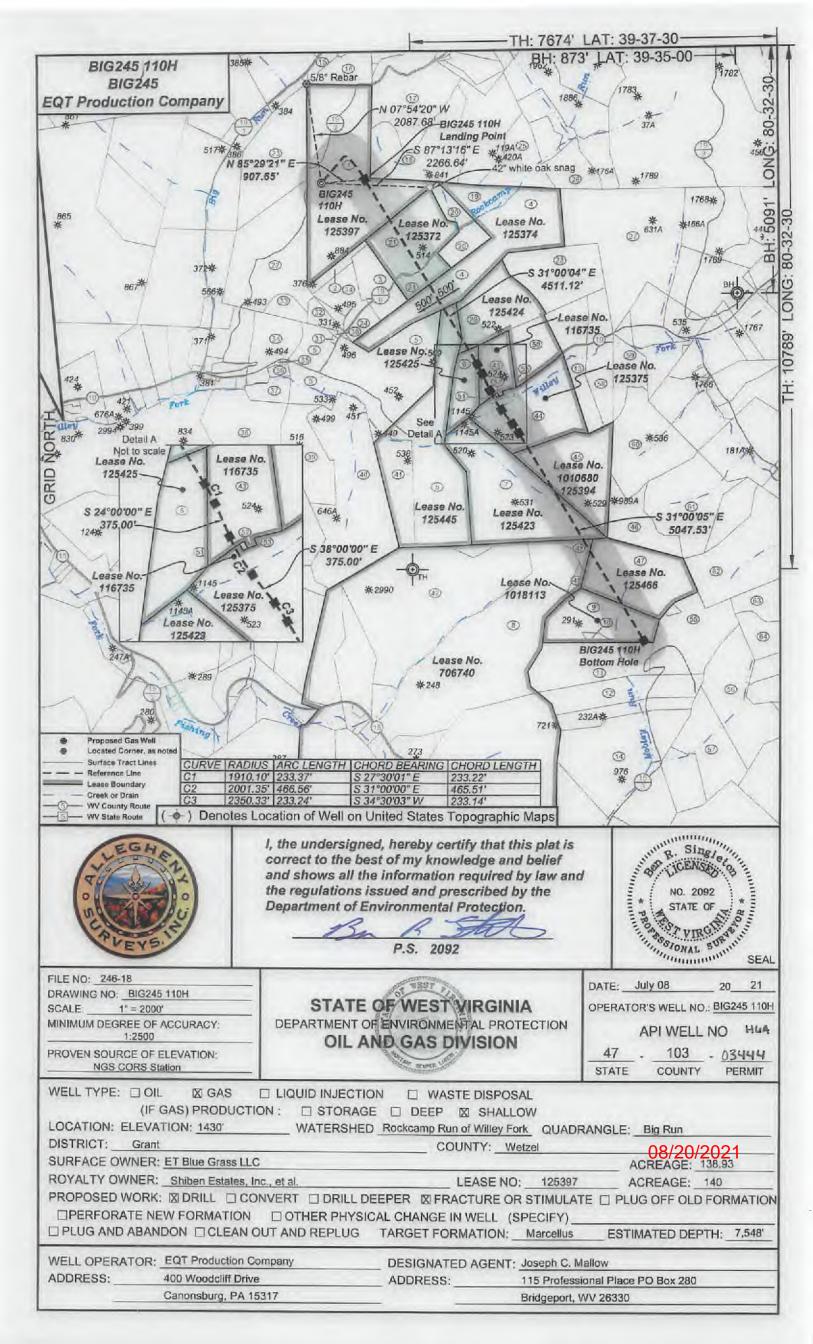
OF WEST STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION

OPERAT	OR'	S WELL NO		BIGZ	245 110H
	A	PI WELL	N	0	HUA
47	i	103	4	03	444
STATE		COLINTY		P	FRMIT

DATE: July 08

Bridgeport, WV 26330

			911		1, 44, 31, 11, 2
WELL TYPE: ☐ OIL ☐ GAS (IF GAS) PRODUCTION		☐ WASTE DISPOS			
LOCATION: ELEVATION: 1430'		kcamp Run of Willey Fo	The state of the state of the state of	LE: Big Run	
DISTRICT: Grant		COUNTY: W	etzel	08/20/20	24
SURFACE OWNER: ET Blue Grass LLC		120770000000000000000000000000000000000	330	ACREAGE: 138	.93
ROYALTY OWNER: Shiben Estates, In	ic., et al.	LEASE NO	: 125397	ACREAGE: 14	
PROPOSED WORK: ⊠ DRILL ☐ CO				PLUG OFF OLD FO	DRMATION
☐ PLUG AND ABANDON ☐ CLEAN O				ESTIMATED DEPTH	: 7,548'
WELL OPERATOR: EQT Production Co	ompany DE	SIGNATED AGENT:	Joseph C. Mallow		
ADDRESS: 400 Woodcliff Drive	ΔΓ	DRESS.	115 Professional F	Diace DO Boy 280	



WW-6A1 (5/13) Operator's Well No. BIG245 110H

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	Harris de la companya del companya del la companya del companya de la companya del companya de la companya dela companya	A CONTRACTOR OF THE CONTRACTOR	B	B 1 B
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page

See Attachment

RECEIVED
Office of Oil and Gas

JUL 1 4 2021

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: John Zavatchan

Its: Project Specialist - Permitting

Page 1 of 3

4710303444

WW-6A1 attachment

Operator's Well No.

BIG245 110H

Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
	Chihan Fatatan Inn. at al			"at least 1/8th per WV Code 22-6-8"	
<u>125397</u>	Shiben Estates, Inc., et al. Joseph Shiben and Minnie Shiben, his wife, et al	140 ac	Equitable Gas Company	WW Code 22-0-6"	OG 44A/224
123331	Equitable Gas Company	140 ac	Equitrans, Inc.		OG 71A/453
	Equitrans, Inc., et al		Equitrans, LP		Misc. Book 105/908
	Equitrans, L.P.		EQT Production Company		OG 131A/81
	•		,		
	December 1 Control and Demote 1 Control at al			"at least 1/8th per WV Code 22-6-8"	
425272	Raymond P. Gaston and Pamela J. Gaston, et al. C. Amos Long and L. G. Long, his wife	61 ac	Favilable Cas Campany	WV Code 22-0-6	OG 44A/36
<u>125372</u>	Equitable Gas Company	OTAC	Equitable Gas Company		OG 44A/36 OG 71A/453
	Equitable das company Equitrans, Inc., et al		Equitrans, Inc. Equitrans, LP		Misc. Book 105/908
	Equitrans, L.P.		EQT Production Company		OG 131A/81
			EQT Floudouon Company		OG ISINOT
				"at least 1/8th per	
	Jordan Zachary Pigg, et al.			WV Code 22-6-8"	
125374	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		RECEIVED Misc. Book 105/908 and Gas
	Equitrans, L.P.		EQT Production Company		OG 131A/81
					JUL 14 2021
				"at least 1/8th per	WV Department of
	PA Mineral Group II, LLC, et al.			WV Code 22-6-8"	Environmental Protection
<u>125445</u>	Elva R. King and Charles H. King, her husband, et al	121 ac	Equitable Gas Company		OG 45A/25
	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
	Sherilyn Snider			"at least 1/8th per WV Code 22-6-8"	
125424	Francis Shreve and Anna G. Shreve, his wife, et al	80 ac	Equitable Gas Company	5545 22 5.0	OG 45A/106
	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
	Charles Lautas Cathanas ("at least 1/8th per	
125425	Sherilyn Louise Snider, et al. Adda M. Sole, widow, et al	20 ac	Equitable Gae Company	WV Code 22-6-8"	OG MAMO?
12.092.0	Equitable Gas Company	20 au	Equitable Gas Company Equitrans, Inc.		OG 44A/493 OG 71A/453
	Equitans, Inc., et al		Equitrans, Inc. Equitrans, LP		
	Equitans, L.P.		EQT Production Company		Misc. Book 105/908 OG 131A/81
	•		==: 1 Todastion Company		UU IVIRVI

4710303444

"at least 1/8th per WV Code 22-6-8" Jacob Francis Shreve III, et al. F. M. Tuttle and M. E. Tuttle, his wife, et al OG 46A/392 22 ac <u>116735</u> **Equitable Gas Company Equitable Gas Company** OG 71A/453 Equitrans, Inc. Equitrans, Inc., et al Equitrans, LP Misc. Book 105/908 Equitrans, L.P. OG 131A/81 **EQT Production Company** "at least 1/8th per WV Code 22-6-8" Jacob Francis Shreve III aka Jacob F. Shreve, et al. OG 44A/41 125375 Francis Shreve and Anna G. Shreve, his wife, et al 62 ac Equitable Gas Company **Equitable Gas Company** OG 71A/453 Equitrans, Inc. Equitrans, Inc., et al Equitrans, LP Misc. Book 105/908 Equitrans, L.P. **EQT Production Company** OG 131A/81 at least 1/8th per WV Code 22-6-8* Esther R. Coen, et al. Roxie H. Brookover and Bruce Brookover, her husband, et 125394 60 ac OG 44A/158 **Equitable Gas Company Equitable Gas Company** Equitrans, Inc. OG 71A/453 Equitrans, Inc., et al Misc. Book 105/908 Equitrans, LP Equitrans, L.P. **EQT Production Company** OG 131A/81 "at least 1/8th per AMP Fund III, LP, et al. WV Code 22-6-8" 125423 C. E. Brown and Ada M. Brown, his wife, et al 85 ac Equitable Gas Company OG 45A/278 OG 71A/453 RECEIVED **Equitable Gas Company** Equitrans, Inc. Misc. Book #105/998 Oil and Gas Equitrans, Inc., et al Equitrans, LP Equitrans, L.P. OG 131A/81 **EQT Production Company** JUL 14 2021 *at least 1/8th per WV Department of WV Code 22-6-8" **EQT Production Company Environmental Protection** Benedum-Trees Oil Company and 706740 The Parker and Edwards Oil Company 1003.75 ac Carnegie Natural Gas Company OG 2A/180 Carnegie Natural Gas Company Carnegie Production Company OG 78A/513 Carnegie Production Company **EQT Production Company** WV SOS "at least 1/8th per **Bounty Minerals LLC** WV Code 22-6-8" 125466 W. A. Wycoff and Grace Wycoff, his wife 67 ac **Equitable Gas Company** OG 52A/465 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 "at least 1/8th per

Tamara L. Donohue f/k/a Tamara Lynn Hixenbaugh, et al.

married woman dealing in her sole and separate property 50.5 ac

Tamara L. Donohue f/k/a Tamara Lynn Hixenbaugh, a

OG 252A/558

WV Code 22-6-8"

EQT Production Company





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 110H

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,

RECEIVED
Office of Oil and Gas

JUL 1 4 2021

WV Department of Environmental Protection

John Zavatchan

Project Specialist - Permitting

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

Date of Notic	ce Certification: 7/13/2024	API No. 47-	1 2	
2111		Operator's V		
		Well Pad Na		
	been given:			RECEIVED
		22-6A, the Operator has provided the requ	ired parties wit	h the Notice Forms listed
	tract of land as follows:			1111 1 1 1 1000
State:	West Virginia	1 TM NAD 92	537031.038	JUL 14 2021
County:	Wetzel	Northing:	4382948.039	
District:	Grant		CR 19/2 ET Blue Grass LLC	//V Department of
Quadrangle: Watershed:	Big Run Rockcamp Run of Willey Fork	Generally used farm name:	ET Blue Grass LLC	Environmental Protection
watersned:	Rockcamp Run bi Willey Fork			
Virginia Cod of this article	le § 22-6A-11(b), the applicant shall the have been completed by the applicant	f this article were waived in writing by the ender proof of and certify to the secretary that. Determine the error has attached proof to this Notice Certification.	hat the notice re	
	erator has properly served the require		nineation	OOC OFFICE USE
*PLEASE CH	ECK ALL THAT APPLY			OOG OFFICE USE ONLY
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECAUSEISMIC ACTIVITY WAS CONDUCT		RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	YEY or NO PLAT SURVEY WAS CO	NDUCTED	☐ RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRED BECAUMOTICE OF ENTRY FOR PLAT SURVIWAS CONDUCTED or		RECEIVED/ NOT REQUIRED
1.0		☐ WRITTEN WAIVER BY SURFAC (PLEASE ATTACH)	E OWNER	
■ 4. NO	TICE OF PLANNED OPERATION		13	RECEIVED
■ 5. PUI	BLIC NOTICE))	RECEIVED
■ 6. NO	TICE OF APPLICATION			RECEIVED

Required Attachments:

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

Telephone:

Certification of Notice is hereby given:

THEREFORE, [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 By: John Zavatchan Its:

Project Specialist Permitting

724-746-9073

Address: 400 Woodcliff Drive

Canonsburg, PA 15317

Facsimile: 412-395-2974 Email: jzavatchan@eqt.com

NOTARY SEAL

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

Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this 13th day of July 2021

Notary Public

My Commission Expires March 9 2024

Oil and Gas Privacy Notice:

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

> RECEIVED Office of Orl and Gas

JUL 1 4 2021

WV Department of Environmental Protection WW-6A (9-13)

4710303444 API NO. 47-OPERATOR WELL NO. 110H Well Pad Name: BIG245

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 7/12/2021 Date Permit Application Filed: 7/13/702/ RECEIVED Notice of: Office of Off and Gas PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE JUL 1 4 2021 WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT WV Department of Delivery method pursuant to West Virginia Code § 22-6A-10(b) Environmental Protection PERSONAL REGISTERED ✓ METHOD OF DELIVERY THAT REQUIRES A SERVICE MAIL RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. ☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice ☐ Well Plat Notice is hereby provided to: SURFACE OWNER(s) COAL OWNER OR LESSEE Name: See Attached List Name: See Attached List Address: Address: Name: COAL OPERATOR Address: Name: ACNR Resources, Inc. Address: 46226 National Road SURFACE OWNER(s) (Road and/or Other Disturbance) St. Clairsville, OH 43950 Name: See Attached List I SURFACE OWNER OF WATER WELL Address: AND/OR WATER PURVEYOR(s) Name: Name: Address: Address: OPERATOR OF ANY NATURAL GAS STORAGE FIELD ☐ SURFACE OWNER(s) (Impoundments or Pits) Name: Equitrans Midstream c/o Gerald Smith Name: Address: 2200 Energy Drive Address: Canonsburg, PA 15317

*Please attach additional forms if necessary

WW-6A (8-13) On 7-1700-050

4710303444 API NO. 47-OPERATOR WELL NO. 1101 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), (his notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

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

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

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

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by 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-OPERATOR WELL NO. 110H 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 formal 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
Ø öi +926-0450

JUL 1 4 2021

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. 471 0 3 0 3 4 4 4

OPERATOR WELL NO. 110H

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.

RECEIVED
Office of Oil and Gas

JUL 1 4 2021

WV Department of Environmental Protection

4710303444

WW-6A (8-13)

API NO. 47-OPERATOR WELL NO. 110H Well Pad Name: BIG245

Notice is hereby given by:

Well Operator: EQT Production Company Telephone: 724-745-9073

Email: jzavatchan@eqt.com

Address: 400 Woodcliff Drive

Canonsburg, PA 15317

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 commission expires March 9, 2024 Commission number 1267706

Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this 13th day of July, 2021.

Notary Public

My Commission Expires

RECEIVED Office of Oil and Gas

JUL 1 4 2021

BIG245

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

4710303444

Scale: ____ 1" = 1000" Big Run 7.5' Topo Quad: June 24, 2021 Wetzel Date: County: Project No: 246-34-G-18 Grant District: Water **BIG 245** 6 Potential Water Sources within 2500' Ande Ridge Site 8 ® Site 9 @ Site 6 Site 4(s) Site 5 ® Site 7 Site 3 ® RECEIVED Office of Oil and Gas Site 2 ® JUL 1 4 2021 MV Department of Environmental Protection 2500 Site 1 ® NAD 27, North Zone LEGEND N: 400,723.70 Red Symbol - Declined Sampling E: 1,698,785.26 Blue Symbol - Requested Sampling / Unable to Contact WGS 84 Well Spring LAT: 39.595300 Pond @ Site 11 LONG: -80.568918 Building ELEV: 1430.00 SURVEYING AND MAPPING SERVICES PERFORMED BY: PREPARED FOR: ALLEGHENY SURVEYS, INC. **EQT Production Company** 1-800-482-8606 237 Birch River Road 400 Woodcliff Drive Birch River, WV 26610 Canonsburg, PA 15317 PH: (304) 649-8606 FAX: (304) 649-8608

WW-6A4 (1/12)

Operator Well No. BIG245 110H

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

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

Notice Time I Date of Notice		ovided at least TEN (10) days prior to filing a Date Permit Application Filed:		on.
Delivery met	hod pursuant to West Virginia	Code § 22-6A-16(b)		
☐ HAND	CERTIFIED MA	IL		
DELIVE		IPT REQUESTED		
receipt reques drilling a hori of this subsect subsection ma	ted or hand delivery, give the sur zontal well: <i>Provided</i> , That notic tion as of the date the notice was p by be waived in writing by the sur	st ten days prior to filing a permit application, face owner notice of its intent to enter upon the given pursuant to subsection (a), section to provided to the surface owner: <i>Provided</i> , how face owner. The notice, if required, shall include mail address of the operator and the operator	he surface owner on of this article rever, That the n lude the name, ac	r's land for the purpose of satisfies the requirements otice requirements of this ddress, telephone number,
	reby provided to the SURFA			
Name: See attac	chment	Name:		
Address:		Address:		
the surface ow State: County: District: Quadrangle: Watershed:	vner's land for the purpose of drill West Virginia Wetzel Grant Big Run Rockcamp Run of Willey Fork	, notice is hereby given that the undersigned ing a horizontal well on the tract of land as for the second with the undersigned in the undersigned	weii operator na ollows: 537031,038 4382948,039 CR 19/2 BIG245	WV Department of Environmental Protection
Pursuant to V facsimile num related to hori	ber and electronic mail address izontal drilling may be obtained to	b), this notice shall include the name, addr of the operator and the operator's authorize from the Secretary, at the WV Department of 25304 (304-926-0450) or by visiting www.de	ed representative of Environmental	e. Additional information Protection headquarters.
Notice is her Well Operator	reby given by:	Authorized Representative:	John Zavätchan	
Address:	400 Woodcliff Drive	Address:	400 Woodcliff Driv	ve
	Canonsburg, PA 15317		Canonsburg, PA	
Telephone:	724-746-9073	Telephone:	724-746-9073	
Email:	jzavatchan@eqt.com	Email:	jzavatchan@eqt.c	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.

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

RECEIVED
Office of Oil and Gas

JUL 1 4 2021

WW-6A5 (1/12)

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

Notice Time Date of Noti		rmit Application Filed: 7	10100		
Delivery me	thod pursuant to West Virginia C	ode § 22-6A-16(c)			
CERTI	FIED MAIL	☐ HAND			
	RN RECEIPT REQUESTED	DELIVERY			
return receipt the planned of required to be drilling of a damages to th (d) The notic of notice. Notice is her (at the addres	W. Va. Code § 22-6A-16(c), no late requested or hand delivery, give the operation. The notice required by the provided by subsection (b), section horizontal well; and (3) A propose the surface affected by oil and gas on the surface affected by the section shall be the surface of the surface of the sheriff	the surface owner whose land this subsection shall include the of this article to a surface use and compended surface use and compenderations to the extent the digiven to the surface owner two was a surface owner to the surface owner than the time of notice):	d will be used for de: (1) A copy ace owner whose sation agreement amages are com	or the drilling of of this code so se land will be un the containing ar pensable under	f a horizontal well notice of ection; (2) The information used in conjunction with the noffer of compensation for article six-b of this chapter
	crment	Name: Addres	s:		
Address: Notice is her Pursuant to Voperation on State: County:		Addres notice is hereby given that t rpose of drilling a horizonta UTM NAD 8	he undersigned al well on the tra Easting: Northing:	well operator hat of land as for 537031.038 4382948.039 CR 19/2	as developed a planned llows: HECEIVED Gas JUL 1 4 2021
operation on State: County: District: Quadrangle:	eby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the pu West Virginia Welzel	Addres notice is hereby given that t rpose of drilling a horizonta UTM NAD 8	he undersigned al well on the tra Easting: Northing:	1ct of land as fo 537031.038 4382948.039	Illows: RECEIVED
Notice is her Pursuant to Woperation on State: County: District: Quadrangle: Watershed:	eby given: Vest Virginia Code § 22-6A-16(c), i the surface owner's land for the pu West Virginia Wetzel Grant Big Run Rockcamp Run of Willey Fork	Addres notice is hereby given that t rpose of drilling a horizonta UTM NAD 8 Public Road Generally us	he undersigned al well on the tra Easting: Northing: Access: ed farm name:	10t of land as for 537031.038 4382948.039 CR 19/2 BIG245	WV Department of Environmental Protection
Notice is her Pursuant to V operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to V to be provide horizontal we surface affect information r headquarters,	eby given: Vest Virginia Code § 22-6A-16(c), if the surface owner's land for the pu West Virginia Wetzel Grant Big Run Ruckcamp Run of Willey Fork Shall Include: Vest Virginia Code § 22-6A-16(c), ed by W. Va. Code § 22-6A-10(b) ell; and (3) A proposed surface use ed by oil and gas operations to the elated to horizontal drilling may be located at 601 57th Street, SE,	Address Addres	he undersigned at well on the transactions: Basting: Northing: Access: ed farm name: A copy of this e land will be an tentaining around arry, at the WV	code section; (2) sed in conjunct offer of competer article six-b	WV Department of Environmental Protection with the drilling of a censation for damages to the of this chapter. Additional f. Environmental Protection
Notice is her Pursuant to Woperation on State: County: District: Quadrangle: Watershed: This Notice SPursuant to Wood provide horizontal we surface affect information readquarters, eas/pages/def	eby given: Vest Virginia Code § 22-6A-16(c), in the surface owner's land for the pure West Virginia Wetzel Grant Big Run Rockcamp Run of Willey Fork Shall Include: Vest Virginia Code § 22-6A-16(c), and by W. Va. Code § 22-6A-10(b) ell; and (3) A proposed surface used by oil and gas operations to the elated to horizontal drilling may be located at 601 57th Street, SE, ault.aspx.	Address Addres	he undersigned al well on the trase Easting: Northing: Access: ed farm name: A copy of this e land will be to the transport of the transport	code section; (2) sed in conjunct offer of competer article six-b	WV Department of Environmental Protection with the drilling of a censation for damages to the of this chapter. Additional f. Environmental Protection
Notice is her Pursuant to V operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to V to be provide horizontal we surface affect information r	eby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the put West Virginia Wetzel Grant Big Run Rockcamp Run of Willey Fork Shall Include: Vest Virginia Code § 22-6A-16(c), and by W. Va. Code § 22-6A-10(b). Ill; and (3) A proposed surface use led by oil and gas operations to the elated to horizontal drilling may be located at 601 57th Street, SE, ault.aspx.	Address Addres	he undersigned at well on the transactions: Basting: Northing: Access: ed farm name: A copy of this e land will be an tentaining around arry, at the WV	act of land as for 537031.038 4382948.039 CR 19/2 BIG245 code section; (2 used in conjunct offer of composer article six-b Department of or by visiting	WV Department of Environmental Protection with the drilling of a censation for damages to the of this chapter. Additional f. Environmental Protection

Oil and Gas Privacy Notice:

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BIG245 Surface Owner List (All Disurbance)

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 12359 Willey Fork Rd.
 Pine Grove, WV 26419
- 04-8-22
 ET Blue Grass, LLC.
 P.O. Box 6135
 Pittsburgh, PA 15212

RECEIVED
Office of Oil and Gas

JUL 1 4 2021



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

Byrd E. White, III Charleston, West Virginia 25305-0430 • (304) 558-3505
Secretary of Transportation/

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 110H Well Site RECEIVED
Office of Oil and Gas

JUL 1 4 2021

WV Department of Environmental Protection

Dear Mr. Martin,

Commissioner of Highways

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,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Becky Shrum

EQT Production Company

CH, OM, D-6

File

 $4\,7\,1\,\,0\,3\,\,0\,\,3\,\,4\,\,4\,\,4$

Anticipated Frac Additives Chemical Names and CAS Numbers

<u>Material</u>	Ingredient	CAS Number
Sand (Proppant)	Silica Substrate	14808-60-7
Water	Water	7732-18-5
Hydrochloric Acid (HCI)	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

RECEIVED
Office of Oil and Gas

JUL 14 2021

EQT BIG 245 WELL PAD AS-BUILT PLAN **EQT PRODUCTION COMPANY**

WYDEP OOG ACCEPTED AS-BUILT MSK 8/6/2021

PROPOSED WELLS: BIG245 1H, BIG245 3H, BIG245 102H, BIG245 104H, BIG245 106H, BIG245 108H, BIG245 110H, BIG245 112H, & BIG245 114H

PRODUCING WELLS: BIG245H8 (47-103-03234), BIG245H16 (47-103-03235), BIG245H17 (47-103-03236)

SITUATED ON THE WATERS OF BIG RUN, A TRIBUTARY OF

PROJECT INFORMATION

PROJECT NAME: FOT BIG 245 GRANT DISTRICT, WETZEL COUNTY, WV MAP 08 PARCELS 09, 14 21, 22

WANDA L. BYARD MAP 08, PARCEL 08 GRANT DISTRICT, WEITZEL COUNTY, WY TOTAL PROPERTY AREA: 59.18 + ACRES

NEAL UTT
MAP 08, PARCEL 14
GRANT DISTRICT, WETZEL COUNTY, WY
TOTAL PROPERTY AREA: \$1.0 +/- ACRES

MAP 68, PARCEL 21 GRANT DISTRICT, WETZEL COUNTY, WY TOTAL PROPERTY AREA 78.27 +/- ACRES

ET BLUE GRASS LLC. MAP 08, PARCEL 22 GRANT DISTRICT, WETZEL COUNTY, WY TOTAL PROPERTY AREA: 138.93 + // ACRES

OIL AND GAS ROYALTY OWNER

SHIBEN ESTATES, INC.
GRANT DISTRICT, WETZEL COUNTY, WY
TOTAL PROPERTY AREA: 140.0 4/ ACRES

LOCATION COORDINATES

EQT BIG 245 CONSTRUCTION ENTRANCE LATITUDE: 39.598600 LONGITUDE: 40.567860 (NAD 83)

EQT BIG 245 WELL PAD CENTER LATITUDE: 30.595402 LONGITUDE: 80.598746 (NAD 83)

EQT BIG 245 AST TANK CENTER LATITUDE: 39:59621 LONGITUDE: -80:56805 (NAD 63)

PROJECT DATUM

SURVEY NOTE

THE CERTIFICATION OF THIS DRAWING APPLIES ONLY TO THE THE CERTIFICATION OF THIS SHAPED CAPTURE OF THE FIELD DATA.

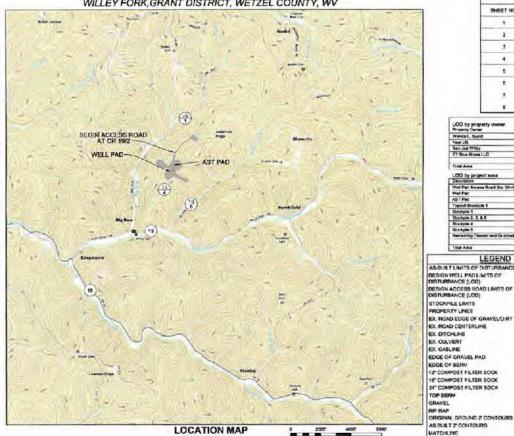
OBTAINED AT THE TIME OF THE FIELD SURVEY ON 20819, 21379.

214419, 21579, 214019, 215919, 222119, 225919, 305919, 30619, 30819,
30119, 31319, 31319, 31419, 406119, 441019, 44119 AND DROME. FLIGHTS ON 3/11/19 3/12/19, 4/11/10, 8 08/01/7:

MISS UTILITY STATEMENT

MISS UTLITY OF WEST VIRGINA WAS NOTED FOR THE LOCATING OF UTLITIES PRIOR TO THIS PROJECT DESIGN: TICKET #2114769767.

WILLEY FORK, GRANT DISTRICT, WETZEL COUNTY, WV



	有	1	
-	2000"	4600	0000
_		1"=200	0.
	-		

OPERATOR

EDT PRODUCTION COMPANY P.O. BOX 260 BRIDGEBORT W/26630

ENGINEER

STANTEC CONSULTING, INC. 111 ELXINS STREET FAIRMONT, WY 26554 PHONE-COOK MT-040

SURVEYOR

SMITH LAND SURVEYING, INC. PO BOX 150 12 VANHORN DRIVE GI FM/III F W/ 2835

LIST OF DRAWINGS		
SHEET NO.	DESCRIPTION	
	COVER SHEET	
2	INDEX SHEET	
3	AS-BUILT PLAN SHEET	
4	AS-BUILT PLAN SHEET	
5	AS-BUILT PLAN SHEET	
.6	AS-BUILT PLAN SHEET	
7	AS-BUILT PLAN SHEET	
	ACCESS ROAD AS-BUILT PROFILE	

LOD by property owner Property Owner	Parcel 8	Planoed Total Disturbance Area (Acres)	As-built Total Disturbance Area (Acres)	Wooded Area (Acres)
Wance L. Byerd	+++	4.03	8.82	5.82
New US	4-8-14	E.14	6.14	5.14
key Joe Willey	48-21	0.40	0.45	0.46
ET file Grass LLC	48-22	29.07	31.83	31,86
Total Area	+	1	44.22	44.22

Description	LOC (Acres)	Wooded Area (Acres)
Wed Pad Access Road Sta 10+57 to 110+55	0.64	0.64
Well Pat	9.29	3.29
AST PIN	1.90	1.50
Topical Stockpite II	1.26	1.26
Stockpile 1	4.29	4.26
Stockpie 2, 3, 8, 6	4.35	4.35
Microsphe 4	201	2,01
Stockpile 5	4.47	4,47
Remaining Cleaned and Grubbed Areas	22.42	22.42
Family 2000	1 11 11	-

10411111		1112	4-44
LEGEND		SUPPLEMENTAL	LEGEND
SUILT LIMITS OF DISTURBANCE IGN WELL PAD LIMITS OF TURBANCE (LOD) IGN ACCESS ROAD LIMITS OF TURBANCE (LOD)		ITEMS ADDED AFTER 2/1 EX. GUARDRAIL AS BUILT 2: CONTOURS	1/2018 SURVEY.
CKPILE LIMITS PERTY LINES		SUPPLEMENTAL	LEGEND 2
ROAD EDGE OF GRAVEL/DIRT ROAD CENTERLINE DITCHLINE	=	ITEMS ADDED AFTER 059 8" COMPOST FILTER SOCK AS BUILT 2" CONTOURS	DI/2021 SURVEY

SEE

0

60

EX. FENCELINE EX. OVERHEAD UTILITY

EX. STRUCTURE

EX POWER POLE

EX GUY WIRE

EX. PIPELINE MARKER

EX. 20' GASLINE RIGHT OF WAY

AS-BUILT WELL LOCATIONS

PROPOSED WELL LOCATIONS ADJACENT WELL LOCATIONS

4	71,061
5	* 29.957
6	#-UMUSED
DTAL	194 1965

EXCESS MATERIAL STOCKPLES

NAME	VOLUME (CY)
1	11,063
TOTAL	11.063

ON THE PRIOR AS BUILT DRAWINGS, DATED 1-25, 269, A. CORRECTION IN STOCK FILE VOLUME WAS ERROREOUSLY AFFLED TO STOCK FILE MO. TO THE WELL FAIL THE CORRECTION MICROSOFT MAY BEEN AFFLED TO STOCK FILE MO. TO FILE MO. TO STOCK FILE MO.









COVER SHEET

F BIG 245 WELL AS-BUILT

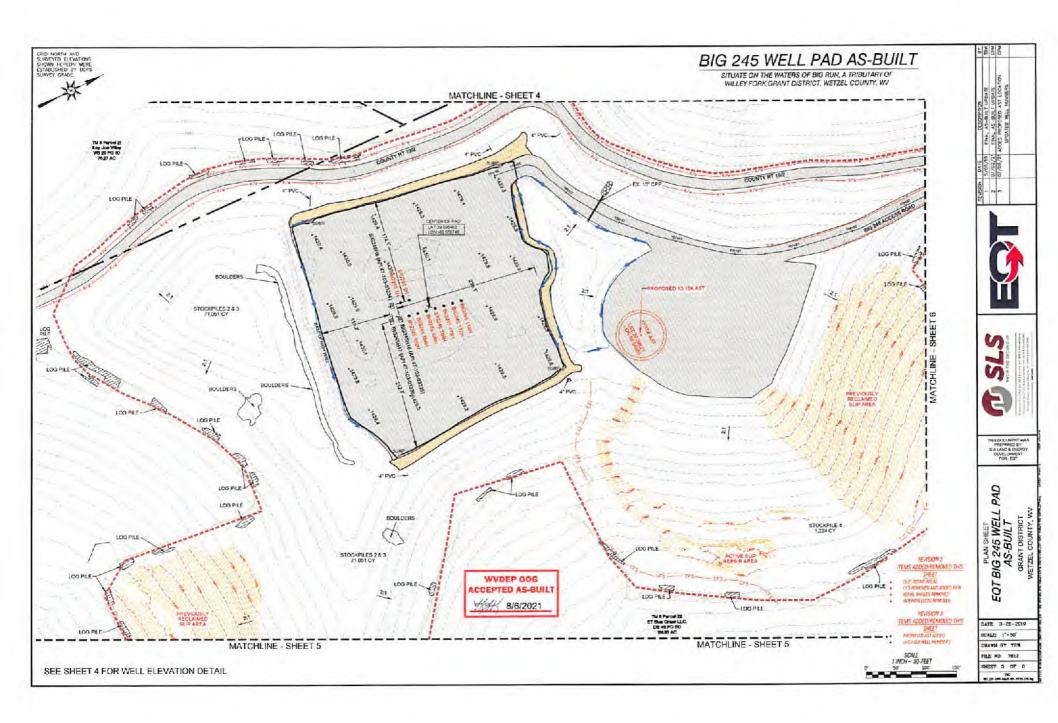
GRANT DISTRICT

WETZEL COUNTY, WY

ATE 3-25-19 CALE: 1'- 2000 RAWN BY THE

EQT.

THE NO 7812 (M) 100 had 100 1000 Divin



EQT BIG 245 WELL PAD AS-BUILT PLAN EQT PRODUCTION COMPANY

PROPOSED WELLS: BIG245 1H, BIG245 3H, BIG245 102H, BIG245 104H, BIG245 106H, BIG245 108H, BIG245 110H, BIG245 112H, & BIG245 114H

PRODUCING WELLS: BIG245H8 (47-103-03234), BIG245H16 (47-103-03235), BIG245H17 (47-103-03236)

SITUATED ON THE WATERS OF BIG RUN, A TRIBUTARY OF

WILLEY FORK, GRANT DISTRICT, WETZEL COUNTY, WV

RECEIVEL -2 Office of Oll and Ca JUL 1 4 2071

LIST OF DRAWINGS

DESCRIPTION

COVER SHEET

INDEX SHEET

ASJRUILT PLAN SHEET

AS BUILT PLAN SHEET

AS-BUILT PLAN SHEET

AS-BUILT PLAN SHEET ASSIL ILT PLAN SHEET

ACCESS FOAD AS BUILT PROFILE

22.47

EX GUARDRAL

AS BUILT & CONTOURS

SUPPLEMENTAL LEGEND

ITEMS ADDED AFTER 3/11/2019 SURVEY

SHEET NO

0

LOC by property owner

OD by project wear

Oth Area

ASSOCIATIONITS OF DISTURBANC

DESIGN ACCESS ROAD LIMITS OF DISTURBANCE (LOD)

DESIGN WELL PAD LIMITS OF DISTURBANCE (LOD)

STOCKPILE LIMITS

EX. ROAD CENTERLINE

18" COMPOST FILTER SOCK 24" COMPOST FILTER SOCK TOP BERM GHAVEL

AS BUILT Z CONTOURS

EX. OVERHEAD UTILITY

EX. PIPELINE MARKER EX. POWER POLE

AS-RUB T WELL LOCATIONS

PROPOSED WELL LOGATIONS ADJACENT WELL LOCATIONS

EX. 20 GASLINE RIGHT OF WAY

DRIGINAL GROUND Z CONTOURS

PROPERTY LINES EX ROAD EDGE OF GRAVEL TIRT

EX DITCHUNE

EX CULVERT

EX GASLINE EDGE CE GRAVEL PAO EDGE OF BERM 12" COMPOST FILTER SOCK

HAP HIS

MATCHUNE

EX FENCELINE

EX STRUCTURE

EX GUYWIRE

Remove any Control and Countrel Area

LEGEND

Wenda L. Byerd

WV Department of Environmental Protection











-
VOLUME (CY)
11.063







COMPOST FILTER SOCK AS BUILT I' CONTOURS

A LEW AND PROPERTY OF THE PARTY		
NAME	VOLUME (CY	
t	91,824	
23.2	71,261	
4	1,224	
5	- 29,957	
6	0. UNIVSED	
TOTAL	THE REAL PROPERTY.	

EN THE PRIOR AS-BUILT DRAWINGS DATED 1-75-70N, A CORRECTION IN STOCK PILE VOLUME WAS REPORTED AT STOCK PILE FOR PIT THE WELL PART, THE CORRECTION PROBLED WAS BEEN APPLIED TO STOCK PILE AND THE CORRECTION OF THE MEDITAL PRICED TO STOCK PILE AND THE PICTURE APPLIED TO STOCK PILE APPL

	"	
Υ		





SUPPLEMENTAL LEGEND 2 PAD COVER SHEET BIG 245 WELL H AS-BUILT

NAME	VOLUME (CY)
1	91,824
282	71,261
4	1,224
5	- 29,957
6	0. UNUSED
THE REAL PROPERTY.	

THE REAL PROPERTY.			
CHAME	VOLUME (CY)		
	11.063		

ACCESS PORD ALSO BEING STOCK PILE NO 5 OF

DATE 3-28-10 SCALE: 1"=2000" DRAWN BY THE FILE NO. 7812 SHEET I OF B

EQT

PROJECT INFORMATION

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

SURFACE OWNER

WANDA L BYARD MAP BB. PARCEL OF TOTAL PROPERTY MEAS \$9.16 */ ACRES

MAP 08, PARCEL 14 GRAYT DISTRICT, WETZEL COUNTY, WY TOTAL PROPERTY AREA 510 - ACRES

MAP 06, PARCEL 21 GRANT DISTRICT, WETZEL COUNTY, WY

MAP OF PARCEL 22 GRANT DISTRICT, WETZEL COUNTY, WY TOTAL PROPERTY AREA 138 93 47 ACRES

OIL AND GAS ROYALTY OWNER

SHIBEN ESTATES, INC. GRANT DISTRICT, WETZEL COUNTY, WV. TOTAL PROPERTY AREA: 140 (14). ACRES

LOCATION COORDINATES

EDT BIG 245 CONSTRUCTION ENTRANCE LATITUDE: 38,598600 LONGITUDE: -80,567660 (NAD 53)

EQT BIG 245 WELL PAD CENTER LATITUDE: 30.395402 LONGITUDE: 480.588746 (NAD 53)

EDT BIG 245 AST TANK CENTER TITUDE 36 59621 LONG TUDE - 60 56865 (NAD ES)

PROJECT DATUM

NAD 27 WV NORTH

SURVEY NOTE

THE CERTIFICATION OF THIS DRAWING APPLIES ONLY TO THE TOPOGRAPHIC MAPPING AS CENTRATED FROM THE FELD DATA OBTAINED AT THE TIME OF THE FELD DATA (21419, 21519, 21619, 21619, 21619, 21619, 2061 3/11/19 3/12/19 3/13/19 5/14/19 4/09/19 4/10/19 1/11/19 AND DRONE FLIGHTS ON 3/11/19, 3/- 2/19, 4/11/19, & D6/01/21.

MISS UTILITY STATEMENT

MISS (ITILITY OF WEST VIRGINIA WAS NOTED FOR THE LOCATING OF UTILITIES PRIOR TO THIS PROJECT DESIGN. TICKET #2114789767.

OPERATOR

EQT PRODUCT ON COMPANY OPERATOR ID: 306686 P.D. BOX 280 BRIDGEPOHT, WV 25639 PHONE (304) 348-3870

ENGINEER

STANTEC CONSULTING, INC. 111 ELKINS STREET FAIRMONT, WV 26554 PHONE (304) 367 9401

LOCATION MAP

SURVEYOR

SMITH LAND SLIRVEYING INC PO BOX 150 12 VANHORN DRIVE GLENVILLE, WV 26351 FHONE, (304) 462-5634

SCALE: 1"=2000"