

### 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

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

Re: Permit approval for BIG245 102H 47-103-03440-00-00

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

Chief

Operator's Well Number: BIG245 102H

ET BLUE GRASS Farm Name: U.S. WELL NUMBER: 47-103-03440-00-00

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. Failure to adhere to the specified permit conditions may result in enforcement action.

### CONDITIONS

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

API Number: 4710303440

## **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.

WW-6B (04/15)

API NO. 47	<u> </u>
<b>OPERATOR WELL</b>	NO. 102H
Well Pad Name:	BIG245

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

1) Well Operator: EQT Produc	ction Company	306686	Wetzel	Grant	Big Run	
,		Operator ID	County	District	Quadrangle	
2) Operator's Well Number: 102	2H	Well Pad	Name: BIG24	15		
3) Farm Name/Surface Owner:	ET Blue Grass	LLC Public Roa	d Access: CR	19/2		
4) Elevation, current ground:	1430' I	Elevation, proposed	post-construction	on: 1430'		
5) Well Type (a) Gas X Other	Oil _	Unde	erground Storag	ge		
(b)If Gas Sha	llow X	Deep				
6) Existing Pad: Yes or No Yes	<u> </u>		_			
7) Proposed Target Formation(s) Marcellus, 7,548', 19', 2,620 PS		cipated Thickness a	nd Expected Pr	ressure(s):	RECEIVED	
8) Proposed Total Vertical Depti	h: 7,548'	-		Off	ice of Oil and Gas	
9) Formation at Total Vertical D		ıs		J	UL 1 4 2021	
10) Proposed Total Measured De	epth: 16,056'				V Department of	
11) Proposed Horizontal Leg Le	ngth: 7,035'			Envir	onmental Protection	
12) Approximate Fresh Water St	trata Depths:	243', 521', 676',	766', 1025'			
13) Method to Determine Fresh	Water Depths:	Offset Wells - 47-	103-00376 & 4	7-103-003	380	
14) Approximate Saltwater Dept	ths: None					
15) Approximate Coal Seam Dep	pths: 939'-940	', 1038'-1047', 113	7'-1143'			
16) Approximate Depth to Possi	ble Void (coal r	nine, karst, other):	300'			
17) Does Proposed well location directly overlying or adjacent to			No			
(a) If Yes, provide Mine Info:	Name: Har	rison Co. Mine				
( ), <u>F</u>	Depth: 300	1				
		sburgh				
	Owner: ACNR Resources, Inc.					

WW-6B	
(04/15)	

API NO. 47-\_\_\_\_\_ OPERATOR WELL NO. 102H Well Pad Name: BIG245

## 18)

## **CASING AND TUBING PROGRAM**

ТҮРЕ	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	16056	16056	500' above intermediate casing
Tubing							
Liners							.1

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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					046	RECEIVED	
Liners						ce of Oil and	xas
	1			<u> </u>	<del>' J</del> l	JL 14 20	21

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## **PACKERS**

Kind:		
Sizes:		
Depths Set:		

WW-6B (10/14)

API NO. 47		
<b>OPERATOR WELL</b>	NO.	102H
Well Pad Name:	BIG24	5

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

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

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

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

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 44.22
- 22) Area to be disturbed for well pad only, less access road (acres): 43.58
- 23) Describe centralizer placement for each casing string:
- Surface: Bow spring centralizers One centralizer at the shoe and one spaced every 500'.
- Intermediate: Bow spring centralizers

   One centralizer at the shoe and one spaced every 500'.
- Production: One solid body centralizer spaced every joint from production casing shoe to KOP.

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

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

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

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

### REPORT OF THE OFFICE

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

### FINDINGS OF FACT

- 1.) Nabors Completion & Production Services Co. proposes the following cement blend:
  - 2% Calcium Chloride (Accelerator)
  - · 0.25 % Super Flake (Lost Circulation)
  - 94% Type "1" Cement
  - 5.20 % Water
- Laboratory testing results indicate that the blend listed in Fact No.1 will achieve a 500
  psi compressive strength within 6 hours and a 2,435 psi compressive strength within 24
  hours.

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### 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 easing of oil and gas wells in the State as may be requested by oil and gas operators. The waiting time on the cement blend shall be 8 hours. The cement blend shall be mixed in strict accordance with the specifications for each blend and weight measurements made on-site to assure the cement slurries meet the minimum weight specifications. A sample shall be collected and, if after 8 hours the cement is not set up, additional time will be required. Nabors Completion & Production Services Co. shall keep a record of cement blend jobs in which the cement blend approved under this order is to be used and made available to the Office of Oil and Gas upon request.

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

IN THE NAME OF THE STATE OF WEST VIRGINIA

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

James Martin, Chief Office of Oil and Gas

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Wellbore Diagram **EQT Production** BIG 245 102H County: Wetzel Well: State: West Virginia Pad: **BIG 245** Elevation: 1430' GL 1443' KB 4710303440 40' Conductor @ 26", 85.6#, A-500, cement to surface w/ Class A **Surface** 1,193' @ 13-3/8", 54.5#, J-55, cement to surface w/ Class A/Type I 2,651' Intermediate 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** 16,056' 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 & 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 4710303440

Re: Casing on BIG245 102H

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:** Marcellus County: Quad:

Wetzel Big Run

Elevation: 1443 KB 1430 GL

Recommended LP to TD: TBD Recommended Azimuth TBD Degrees

Proposed Logging Suite: Not needed

### ESTIMATED FORMATION TOPS

Formation	Top (TVD)	Base (TVD)	Lithology	Comments		
Fresh Water Zone	1	1025		TW a 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		
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 Sil	ty Sand			
Top Devonian	2986					
Gordon	3168	3207 Sil	ty Sand			
Forth Sand	3226	3270 Sil	ty Sand			
Bayard	3274	3504 Sil	ty Sand			
Speechley	3896	4118 Sil	ty Sand		Top RR	Base RR
Riley	4689	4921 Sil	ty Sand		225	
Benson	5385	5533 Sil	ty Sand		273	
Alexander	5847	6163 Sil	ty Sand		288	298
Elks	6163	7068 Gra	ay Shales and Silts		320	338
Sonyea	7068	7145 Gra	ay shale		381	
Middlesex	7233	7285 Sha	ale	Depth as seen on Previous BIG 245 Well H17	491	503
Genesee	7285	7372 Gra	ay shale interbedded	Depth as seen on Previous BIG 245 Well H17	563	
Geneseo	7372	7395 Bla	ack Shale	Depth as seen on Previous BIG 245 Well H17	820	829
Tully	7395	7418 Lin	mestone	Depth as seen on Previous BIG 245 Well H17	825	
Hamilton	7418	7512 Gra	ay shale with some	Depth as seen on Previous BIG 245 Well H17	858	
Marcellus	7512	7531 Bla	ick Shale	Depth as seen on Previous BIG 245 Well H17	976	981 Base of
Purcell	7531	7533 Lir	mestone	Depth as seen on Previous BIG 245 Well H17		Red Rock
Lateral Zone		7548				
Cherry Valley	7543	7545 Lir	nestone			
Onondaga	7565	Lin	nestone			

	771	
Target Thickness	19 feet	
	₹ <b>८</b> ₹	

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 Injun to 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.

RECOMMENDE	D CASING	POINTS

Fresh Water/Coal	CSG OD	13 3/8	CSG DEPTH:	1193	50' below Pittsburgh
Intermediate 1:	CSG OD	9 5/8	CSG DEPTH:	2651	50' below Big Injun
Production:	CSG OD	5 1/2	CSG DEPTH: @ TD		

### **EQT Production**

**Hydraulic Fracturing Monitoring Plan** 

Pad ID: BIG245

**County: Wetzel** 

July 9, 2021

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Page 1 of 2

### **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.

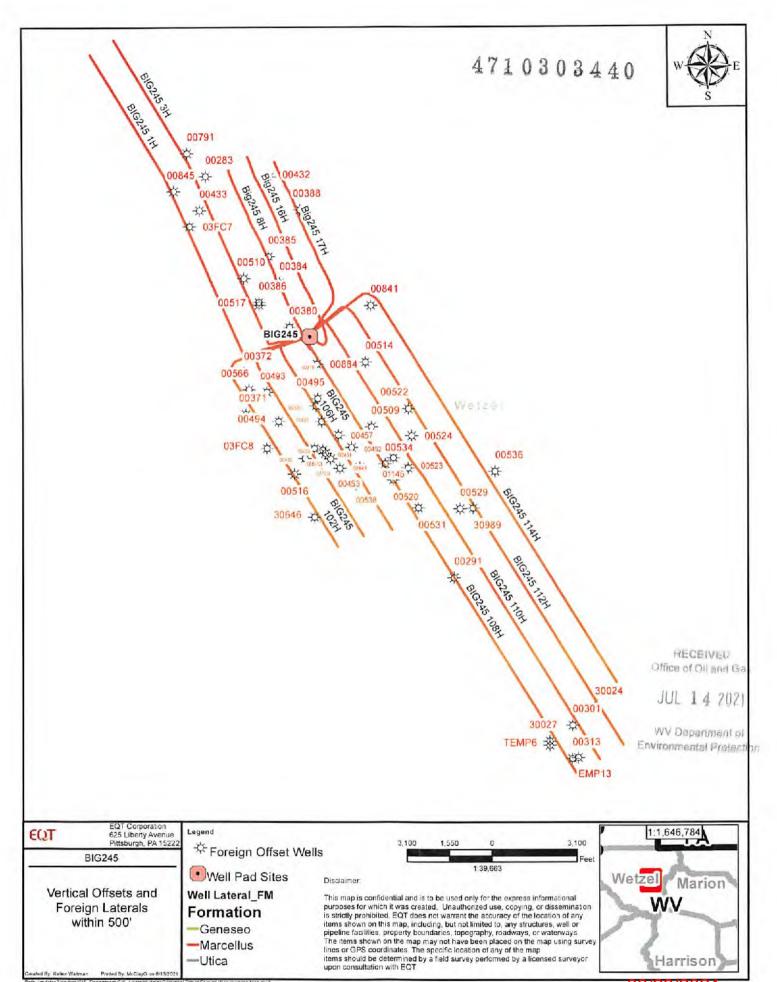
EQT will recommend to these operators at a minimum to:

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

### 2. Reporting

EQT will provide information relating to the hydraulic fracturing schedule, communication with other RECEIVED operators, and ongoing monitoring of the work upon request of OOG or immediately in the event of  $^{\rm OII}_{\rm and Gas}$  noted abnormalities.

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STORAGE STORAGE	STORAGE STORAGE	STORAGE	GAS	STORAGE	STORAGE	STORAGE	STORAGE	STORAGE	STORAGE	DRY	DRY	GAS	GAS	GAS	GAS	DRY	GAS	GAS	GAS	GAS	DRY	GAS	GAS-P	GAS	GAS	GAS-P	GAS	GAS-P	GAS	WellStatus									
5/17/1963 7/31/1963	12/13/1962 6/9/1979	8/10/1979	5/1/1963	10/24/1962	1/2/1963	7/24/1962	11/14/1963	6/20/1962	6/6/1962	5/17/1962	8/29/1961	1/3/1963	10/11/1961	11/16/1961	3/15/1963	11/8/1961	3/8/1963	1/5/1958	10/5/1957	8/9/1957	7/7/1957	6/15/1957	8/17/1956	6/22/1956	10/24/1953	6/16/1953	7/4/1953	5/27/1953	5/23/1952	4/11/1952	3/10/1951	2/26/1951	11/17/1903	7/24/1944	1/11/1944	1/24/1944	3/24/1943	date	
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EPC EPC	EPC	EPC	EPC	EPC	EPC	EPC	EPC	EPC	EPC	EPC	PEMCO GAS	EPC	EPC	EPC	EPC	EPC	EPC	NORTH FORK DEVELOP	P C MCKENZIE	P C MCKENZIE	P C MCKENZIE	EPC	P C MCKENZIE	P C MCKENZIE	P C MCKENZIE	P C MCKENZIE	FOSTER MCKENZIE	FOSTER MCKENZIE	PGH & WV GAS	CNG	CNG	CARNEGIE NAT GAS	EPC	Operator					
-80.5449 -80.5629	-80.5583 -80.5592	-80.5549	-80.5495	-80.5557	-80.5562	-80.5561	-80.5581	-80.5753	-80.5709	-80.5616	-80.5772	-80.5609	-80.5695	-80.5673	-80.5678	-80.5729	-80.5744	-80.5652	-80.5624	-80.5635	-80.5669	-80.5650	-80.5829	-80.5738	-80.5699	-80.5753	-80.5740	-80.5726	-80.5714	-80.5698	-80.5773	-80.5771	-80.5680	-80.5352	-80.5351	-80.5503	-80.5821	Longitude	
39.5817 39.5805	39.5841 39.5825	39.5781	39.5780	39.5853	39.5821	39.5880	39.5809	39.5984	39.5815	39.5927	39.6011	39.5862	39.5831	39.5868	39.5890	39.5868	39.5897	39.5854	39.5822	39.5842	39.5836	39.5821	39.6079	39.6112	39.6079	39.5987	39.6032	39.6007	39.5962	39.5907	39.5917	39.5875	39.5883	39.5530	39.5563	39.5711	39.6113	Latitude TargetFm	
1208.0000 836.0000	1067.0000	1098.0000	1200.0000	972.0000	846.0000	1221.0000	937.0000	869.0000	1034.0000	1107.0000	934.0000	1155.0000	923.0000	844.0000	1109.0000	1086.0000	1163.0000	1108.0000	979.0000	886.0000	817.0000	825.0000	1509.0000	994.0000	938.0000	847.0000	905.0000	855.0000	1267.0000	1265.0000	842.0000	825.0000	1109.0000	911.0000	933.0000	1205.0000	1190.0000	DatumEleva	
-1755.0000 -1014.0000	-985.0000 -1023.0000	-1007.0000	-2028.0000	-1735.0000	-1010.0000	-1930.0000	-1088.0000	-975.0000	-981,0000	-985.0000	272.0000	-1140.0000	-969.0000	-1697.0000	-1011.0000	-1002.0000	-995.0000	249.0000	254.0000	272.0000	288.0000	288.0000	274.0000	-501.0000	272.0000	277.0000	258.0000	270.0000	132.0000	257.0000	299.0000	295.0000	-1176.0000	284.0000	282.0000	-2129.0000	-2099.0000	TotalDepth-SS	
2963.0000 1850.0000	2090.0000	2105.0000	3228.0000	2707.0000	1856.0000	3151.0000	2025.0000	1844.0000	2015.0000	2092.0000	662.0000	2295.0000	1892.0000	2541.0000	2120.0000	2088.0000	2158.0000	859.0000	725.0000	614.0000	529.0000	537.0000	1235.0000	1495.0000	666.0000	570.0000	647.0000	585.0000	1135.0000	1008.0000	543.0000	530.0000	2285.0000	627.0000	651.0000	3334.0000	3289.0000	Total Depth	

47103TEMP6	47103TEMP13	47103FC9	47103FC8	47103FC7	4710370423	4710330989	4710330646	4710330027	4710330024	4710301145	4710300884	4710300845	4710300841	4710300791	4710300566
CNK	CNK	P&A	P&A	CNK	P&A	GAS	GAS	ᄋ	GAS	STORAGE	STORAGE	P&A	GAS-P	GAS	GAS
						1/17/1917	3/19/1915			10/19/1962	9/26/1922	9/22/1905	9/14/1903		1/20/1965
						LOWER HURON SHALE		LOWER HURON SHALE			J	LOWER BURGESHALE	1	4	/ED and Gas 2021
TEMP6	EMP13	03FC9	03FC8	03FC7	70423	30989	30646	30027	30024	យ៍ 01145	vir 00884	00845	en 00841	ा 00791	Protection 005 66
		CNK	UNK	UNK	PHILADELPHIA O	CARNEGIE NAT GAS	DUNN-MAR O & G	OPER IN MIN.OWN	HOPE NAT GAS	EPC	EQUITRANS	EPC	EPC	EPC	FOSTER MCKENZIE
-80.5381	-80.5344	-80.5662	-80.5744	-80.5842	-80.5672	-80.5478	-80.5683	-80.5381	-80.5322	-80.5581	-80.5679	-80.5862	-80.5608	-80.5844	-80.5767
39.5543	39.5531	39.5831	39.5841	39.6063	39.5839	39.5781	39.5772	39.5547	39.5581	39.5831	39.5925	39.6098	39.5983	39.6136	39.5900
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1200.0000	1197.0000	890.0000	1229.0000	1067.0000	1167.0000	1290.0000	1020.0000	0.0000	880.0000
-99999.0000	-99999.0000	-99999.0000	-99999.0000	-99999.0000	-99999.0000	-2021.0000	-2142.0000	-1894.0000	-1101.0000	-1023.0000	-1044.0000	-1822.0000	-99999.0000	-99999.0000	332.0000
99999.0000	99999.0000	99999.0000	99999.0000	99999.0000	99999.0000	3221.0000	3339.0000	2784.0000	2330.0000	2090.0000	2211.0000	3112.0000	101019.0000	99999.0000	548.0000
										0	8/2	20	/2	02	21

WW-9 (4/16)

API Number	47 -	
One	rator's	Well No. BIG245 102H

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

### FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name EQT Production Company OP Code 306686	
Watershed (HUC 10) Rockcamp Run of Willey Fork Quadrangle Big Run	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes	No _
Will a pit be used? Yes □ No ✓	
If so, please describe anticipated pit waste: N/A	
Will a synthetic liner be used in the pit? Yes No V If so, what ml.? N/A	
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
■ Underground Injection (UIC Permit Number 0014, 8462, 4037	
Reuse (at API Number <u>Various</u> Off Site Disposal (Supply form WW-9 for disposal location)	)
Other (Explain_	
Yes, The closed loop system will remove drill cuttings from the drilling	fluid. The drill cuttings are
Will closed loop system be used? If so, describe: then prepared for transportation to an off-site disposal facility.	Attached
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. See	Attached
-If oil based, what type? Synthetic, petroleum, etc. Synthetic Mud	
Additives to be used in drilling medium? See Attached	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A	
-Landfill or offsite name/permit number? See Attached List	
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee it was properly disposed.	nittee shall also disclose
I certify that I understand and agree to the terms and conditions of the GENERAL WATER PC on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Prot provisions of the permit are enforceable by law. Violations of any term or condition of the general polaw or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the in application form and all attachments thereto and that, based on my inquiry of those individuals is obtaining the information, I believe that the information is true, accurate, and complete. I am awa penalties for submitting false information, including the possibility of fine or imprisonment.  Company Official Signature	tection. I understand that the ermit and/or other applicable formation submitted on this immediately responsible for
Company Official (Typed Name) John Zavatchan	WV Department or
Company Official Title Project Specialist - Permitting	Environmental Protection
Subscribed and sworn before me this 13th day of Jux , 20 21	Commonwealth of Pennsylvania - Notary Saa
Lebecco The Notary Public	Beaver County
My commission expires M3-54 9 7674	My commission expires March 9, 2024 Commission number 1267706
	Member, Pennsylvania Association of Notaries

Operator's Well No. BIG245 102H

Proposed Revegetation Trea	tment: Acres Disturbed	Prevegetation pH	I
Lime 3	Tons/acre or to correct to	<sub>pH</sub> 6.5	
Fertilizer type Gra	anular 10-20-20	_	
Fertilizer amount_	500	_lbs/acre	
Mulch 2	Tor	ns/acre	
	<u>s</u>	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		
provided). If water from the acreage, of the land applicat	pit will be land applied, include ion area lved 7.5' topographic sheet.	plication (unless engineered plans include dimensions (L x W x D) of the pit, and	I dimensions (L x W), and a
Maps(s) of road, location, p provided). If water from the acreage, of the land applicate Photocopied section of invo	pit will be land applied, include ion area lved 7.5' topographic sheet.	e dimensions (L x W x D) of the pit, and	I dimensions (L x W), and a
Maps(s) of road, location, p provided). If water from the acreage, of the land applicate Photocopied section of involved by:  Plan Approved by:  Pre-seed:	pit will be land applied, include ion area lived 7.5' topographic sheet.  The Hause mulch all disturbed a	e dimensions (L x W x D) of the pit, and	ably possible,
Maps(s) of road, location, p provided). If water from the acreage, of the land applicate Photocopied section of involved by:  Plan Approved by:  Pre-seed:	pit will be land applied, include ion area lived 7.5' topographic sheet.  The Hause mulch all disturbed a	e dimensions (L x W x D) of the pit, and	ably possible,
Maps(s) of road, location, p provided). If water from the acreage, of the land applicate Photocopied section of involved by:  Plan Approved by:  Pre-seed:	pit will be land applied, include ion area lived 7.5' topographic sheet.  The Hause mulch all disturbed a	e dimensions (L x W x D) of the pit, and	ably possible,
Maps(s) of road, location, p provided). If water from the acreage, of the land applicate Photocopied section of involved by:  Plan Approved by:  Pre-seed:	pit will be land applied, include ion area lived 7.5' topographic sheet.  The Hause mulch all disturbed a	e dimensions (L x W x D) of the pit, and	ably possible,  Manual.
Maps(s) of road, location, p provided). If water from the acreage, of the land applicate Photocopied section of involved by:  Plan Approved by:  Pre-seed:	pit will be land applied, include ion area lived 7.5' topographic sheet.  The Hause mulch all disturbed a	e dimensions (L x W x D) of the pit, and	ably possible,  Manual.  RECEIVED Office of Oil and G

### WW-9 Attachment

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

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

### Additives to be used in drilling medium?

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

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WV Department of Environmental Protection

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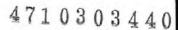
			roduction Water Plan	-					
			sals for Unconvention		1			les-	Do well Alverbag
Facility Name	Address	Address 2	City	State	<u> </u>		County	State	Permit Number
CWS Trucking Inc.	P.O. Box 391	1	Williamstown	wv	26187	740-516-3586	Noble	ОН	3390
					ļ				
Broad Street Energy LLC	37 West Broad Street	Suite 1100	Columbus	ОН	43215	740-516-5381	Washingotn	он	8462
		<u> </u>	<u> </u>	_					
AD Liquid Assets Disposal Inc.	226 Rankin Road		Washington	PA	15301	724-350-2760	Ohio	wv	USEPA WV 0014
		ļ		-	ļ				
Triad Energy	PO Box 430	ļ	Reno	ОН	45773	740-516-6021	Noble	ОН	4037
			ļ <u></u>		<u> </u>	740-374-2940			<del></del>
			ļ					ļ	TC 4000
Fri County Waste Water Management, Inc.	1487 Toms Run Road	ļ	Holbrook	PA	15341	724-627-7178	Greene	PA	TC-1009
<del> </del>					<u> </u>	724-499-5647			
		ļ		<del> </del>	1				040000000000
King Excavating Co. Advance Waste Services	101 River Park Drive	<u> </u>	New Castle	PA	16101		Lawrence	PA	PAR000029132
	1	<del>_</del>	-	14"	45775	204 225 505	lla aria a r	1407	CINIC 1022 00
Waste Management - Meadowfill Landfill	Rt. 2, Box 68 Dawson Drive		Bridgeport	wv	16330	304-326-6027	Harrison	wv	SWF-1032-98 Approval #100785WV
<del> </del>		<b>-</b>							Approval #100785WV
			<del> </del>					1104	CIVIC 1035 MAY 010040
Waste Management - Northwestern Landfill	512 E. Dry Road	ļ	Parkersburg	wv	26104	304-428-0602	Wood	wv	SWF-1025 WV-0109400
		<b>_</b>							00.00430
APEX Landfill	11 County Road 78	PO Box 57	Amsterdam	ОН	43903	740-543-4389	Jefferson	ОН	06-08438
			ļ						400440
Advanced Disposal - Chestnut Valley Landfill	1184 McClellandtown Road		McClellandtown	PA	15458	724-437-7336	Fayette	PA	100419
									100277
Westmoreland Sanitary Landfill	901 Tyrol Boulevard	ļ	Belle Vernon	PA	15012	724-929-7694	Westmoreland	PA	100277
		ļ	ļ., <u></u>						2014 541
Austin Master Services	801 North 1st Street		Martins Ferry	ОН	43935	740-609-3800	Belmont	ОН	2014-541
					42007	740 043 4730	llandaan	011	2015-511
Belmont Solids Control	77505 Cadiz-New Athers Road		Cadiz	ОН	43907	740-942-1739	Harrison	ОН	2015-511
			-		45744	740 404 0443	1041	ОН	<del></del>
Diversified Resources	3111 Braun Rd.	<u> </u>	Belpre	ОН	45714	740-401-0413	wasnington	<u> </u>	
		-		+	1				34-031-27177
			Carbanaa	ОН	43812	740-610-1512		ЮН	34-031-27178
Australia Ostan	22005 Alexand Dend		Coshocton	Ол	43812	724-591-4393	Coshocton	lou .	34-031-27241
Buckeye Brine	23986 Airport Road			<del></del>	<del>!                                      </del>	·	Cosnocton	<del>                                     </del>	34-031-27241
	20222 144 0-1 011	<del> </del>	Cashilla	ОН	45723	304-488-0701	Athone	ОН	<del></del>
Central Environmental Services	28333 West Belpre Pike		Coolville	- On	43723	304-488-0701	Athens	Un .	
Nuverra - Nichols	10555 Veto Road	+	Belpre	ОН	45714	330-232-5041	Washington	ОН	34-119-2-8776
AUAGLI 9 - INICUOIS	10555 Veto Road m	<del> </del>	Deibie	100	43/14	330-232-3041	**asimigron	1011	0.42520770
Juneres Coff	<del></del>	- 0	Norwich	ОН	43767	330-232-5041	Muskingum	ОН	34-167-2-3862
luverra - Goff	9350 East Pike Road ≦ ≤ S	<del> </del>	HOIWICH	100	43/0/	330-232-3041	INITIALINISUIII	1	34 207 2-3002
thursen Malé	EASO State Boute E		Newton Falls	ОН	44444	330-232-5041	Trumbull	ОН	34-155-2-1893
Nuverra - Wolf	5480 State Route 5	<del> </del>	*	- <del> </del> -	44444	330-232-3041		<del> ``</del>	34-233 2-2033
Number - Dander	5310 State Route 5	<del>  <u> </u></del>	Newton Falls	ОН	44444	330-232-5041	Trumbull	OH	34-155-2-3795
Nuverra - Pander	5310 State Route 5	<u> </u>	Newton Falls	Un	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	330-232-3041	Tulliodii		34-233-2-3133
Numero Appallant D 1	3549 Warner Road	2 and	Fowler	ОН	44418	330-232-5041	Trumbull	ОН	34-155-2-2403
Nuverra - AnnaRock D-1	3549 Warner Road		rowiei	<del>                                      </del>	44410	330-232-3041	TI GITIOUII	1011	3-133-E-2403
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			i	740-374-2940	1	1	
	Reno	ОН	45773	412-443-4397	]	он	
199 Bowersock Road			<u> </u>	740-236-2135	Washington		34-167-2-9577
	Dexter City	ОН	45727	1		ОН	34-121-24037
38505 Marietta Rd.			ļ	740-236-2135	Noble	ļ	34-121-24086
			<del>  -</del>	740 274 2040		<del> </del>	
	Filosbara	1404	26346	I .		\war	
122 Longsomo Pino Pd	Ellendoro	***	20340	1	Ritchie	***	47-085-09721
122 Collesonie Fille Ru		_	<del>                                     </del>	740-230-2133	Illicanc	<u> </u>	
	Portland	OH	45770	740-374-2940		ОН	34-105-2-3619 34-105-2-3652
53610 TS Rd 706	rottaliu		13/70	740-236-2135	Meigs		34-105-2-3637 34-105-2-3651
						<u> </u>	
745 North 3rd Street	Cambridge	он	43725	614-477-1368	Guernsey	ОН	Ohio Chiefs Order 25-019
		<u> </u>					
38 Technology Dr.	Tridelphia	wv	26059	740-255-5727	Ohio	lwv	
2241 OU 921	Adaptates	- Ou	45750	204 630 0176	Washington		34-167-2-9766
	38505 Marietta Rd.  122 Lonesome Pine Rd  53610 TS Rd 706  745 North 3rd Street	199 Bowersock Road  Dexter City  38505 Marietta Rd.  Ellenboro  122 Lonesome Pine Rd  Portland  53610 TS Rd 706  745 North 3rd Street  38 Technology Dr.  Tridelphia	199 Bowersock Road  Dexter City  OH  38505 Marietta Rd.  Ellenboro  WV  122 Lonesome Pine Rd  Portland  OH  53610 TS Rd 706  Cambridge  OH  38 Technology Dr.  Tridelphia  WV	199 Bowersock Road  Dexter City  OH 45727  38505 Marietta Rd.  Ellenboro  WV 26346  Portland  OH 45770  53610 TS Rd 706  Cambridge  OH 43725  38 Technology Dr.  Tridelphia  WV 26059	Reno	Reno   OH   45773   412-443-4397   740-236-2135   Washington	Reno

WV Department ç*i* Environmental Protectig<sub>l</sub>i

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Buja 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

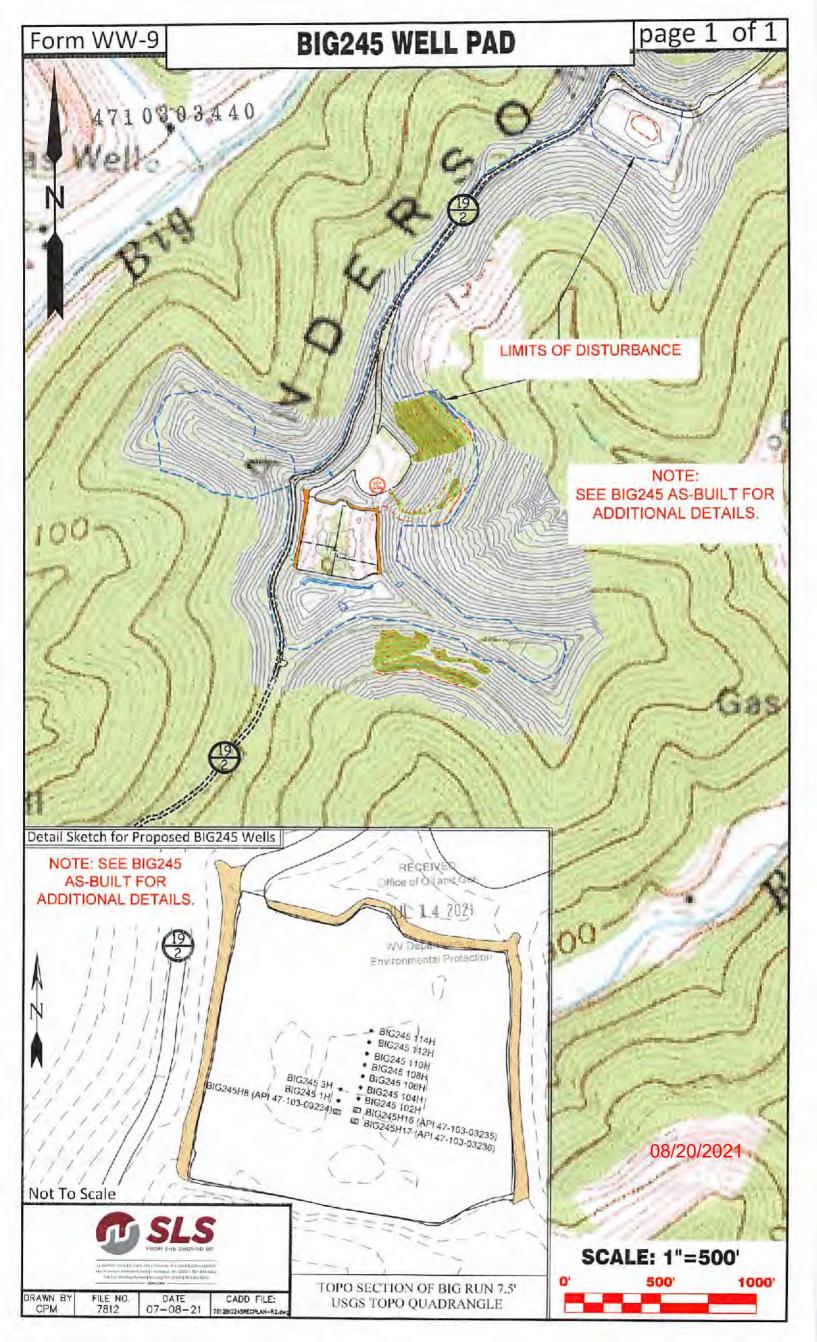
BIG245 112H, BIG245 114H

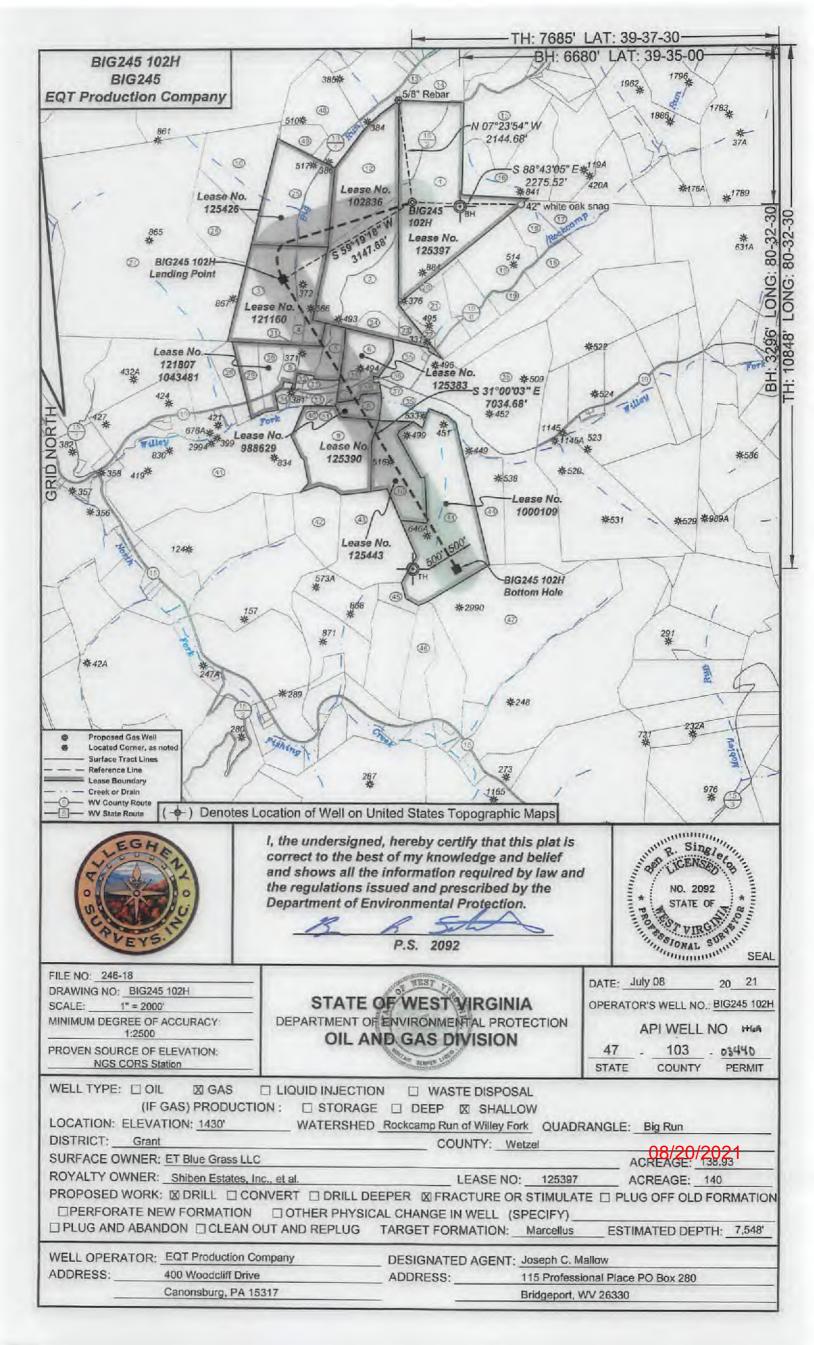
John Zavatchan

EQT Production Co.

Bryan Harris

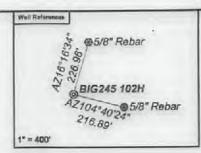
WVDEP Oil and Gas Inspector





### BIG245 102H **BIG245 EQT Production Compan**

act I.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1		22	Wetzel	Grant	ET Blue Grass LLC	138,93
2	8	21	Wetzel	Grant.	Bay Joe Wiley	76.27
3		23	Watter	Grant.	Dale K. Dulerey, et al.	70.81
4	8	23.1	Westzel	Grant	James L. Duláney	3 19
5		100	Watzal	Grant	Date K. & Sharry L. Dulaney	28.82
-0	8.	30	Wetzel	Grant	H. Dom Higginbothsm	23.82
7	8	51.2	Wotzel	Grant	Gerald D. White, et al.	2.82
5	a.	55	Wetzel	Grant.	Mansel L. McDiffit, et al.	0.25
9	13	1	Wetzel	Grant	Mansal L. McDiffit, et al.	51.80
10	13	. 5	Waitzel	Grant	Robert Cole	36.00
11	1.3	17	Witzirl	Grant	Mary Higginbottom	112.00
12	8	14	Wetzsl	Grant	Ult Nesi	51,00
13	- 8	13.1	Wetzel	Grant	Duane M. Goodrich	3.50
34	. 6	T	Wetzel	Grant	James E. & Martin A. Stoneking	19.12
15	8		Wetzel	Grant	Wenda L. Byard	59,16
16		. 15.	Watzal	Stant	John Michael Byerd	71.60
17	. 0	22	Wetzel	Srant	James A. Yoho	17.60
18	. 8	29	Wetzel	Grant	Mary Jane Byard	15.00
10	8	28	Wetzel	Grant	James A. Yoho	61.00
20	8	25	Wetzel	Grant	James A. Ycho	0.25
21		26	Wetzel	Grant	James A. Yoho	23.25
22	6	31	Witcenf	Grant	James A. Yoho	3.00
23	.0	30	Wetzni	Street	James A. Yoho	7,50
24	R	.24	Wester	Grant	H. Dom Higgiribatham	7,10
25	8	-11	Wetzel	Givent	Bonnia M. Henthorne	63.50
26	8.	10	Wetzel	Deant	Philip Shreen	46.45
27	8	18	Wetzel	Cleant	Gossáil Forest Resources Company	357.00
28	8	35	Wetzel	Grant	Deporah Francisk	15.50
29	8	36	Weizel	Grani	James L. & Karen Dularwy	14.10
20	8	37	Wetzer	Grant	James L. & Karen Dulaney	14.10
31	R.	38.1	Weczel	Brant	James L. Didaney	0.14
32	K	44	Wetzel	Grant	Dale K. & Sherry L. Dulaney	1.60
33		45	Weizel	Chart.	Donald J. Dalaney	9.83
34	B.	43	Wetzel	Grant	Judy K. Utt.	3.25
35	- 6	55	Wester	Grant	H. Dem Higginbötham	195.71
36		52	Wetzel	Grant	Henry E. Wilky	0.26
37		.30.1	Wetzei	Grant	Henry E. Willey	0.12
38	B	51.1	Wetzei	Grant	Henry E. Willey	0.19
39	9	51	Wetzel	Grant	Henry E Wiley	2.34
40	18	40	Wetzei	Grant	Donald J. Dulansy	1:00
AT	13	8	Wetter	Grant	Countal Forest Resources Company	217.19
42	13	14	Westpel	Grant	Lesman E. & Linda L. Dunn	12,50
43	13	15	Westzer	Grant	Robert Cole	27.75
44	13	- p	Western	Grant	Mary Higginbothers	30,10
45	13	26 .	Webbil	Grant	Charles W. & Siarra R. Lamley	7.87
-46:	13	43	Wetzel	Grant	David Willey Life Estate	40.40
47	13	27.1	Wetzel	Grant	Jeremy Golins	148.70
45	8	12	Wetzel	Grant	Shirley A. Titus	41.90
412	8	12.1	Wetzel	Grant	Dafe F. Sapp	10,10
		10	Wetzel	Grant.	Garland E. Minor	48.10



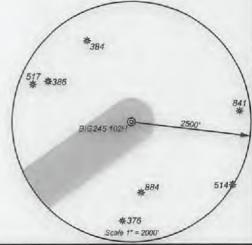
Notes:
BIG245 102H coordinates are
NAD 27 N: 400,694.20 E: 1,698,779.77
NAD 27 Lat: 39.595219 Long: -80.568937
NAD 83 UTM N: 4,382,930.01 E: 537,027.99
BIG245 102H Landing Point coordinates are
NAD 27 N: 399,088.21 E: 1,696,072.62
NAD 27 Lat: 39.590721 Long: -80.578474
NAD 83 UTM N: 4,382,426.94 E: 536,211.36

NAD 83 UTM N: 4,382,426.94 E: 536,211,36
BIG245 102H Bottom Hole coordinates are
NAD 27 N: 393,058.36 E: 1,699,695.84
NAD 27 Lat: 39.574286 Long: -80.565365
NAD 83 UTM N: 4,380,608.33 E: 537,345.83
West Virginia Coordinate system of 1927 (North Zonbased upon Differential GPS Measurements.
Plat orientation, corner and well ties are based upon the grid 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 @47-103-03235 47-103-03234 @47-103-03236

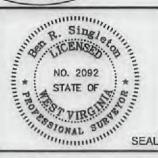
Lease No.	Owner	Acres 192
102836	Shiber Estates, Inc., et al.	192
125426	Three Rivers Royalty II LLC, et al.	64
121160	Acropolis, Inc., et al.	80
121807	Stone Hill Mineral Holdings, LLC, et al.	60
125383	Donald Snodgrass, Jr. and Mary Eastham, et al.	26
988629	Thomas J. Jacoboni, Trustee of the Thomas J. Jacoboni Revocable Trust Agreement dated 5/15/2018, et al.	9.25
125390	Shiben Estates, Inc., et al.	52
125443	Gary I. Chamberlain, et al.	33
1000109	Reda M. Amos, a/k/a Rita Mae Amos, et al.	108





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



FILE NO: _246-18 DRAWING NO: _BIG245 102H SCALE:1" = 2000'	STATE OF WEST VIRGINIA
MINIMUM DEGREE OF ACCURACY: 1:2500	OIL AND GAS DIVISION
PROVEN SOURCE OF ELEVATION: NGS CORS Station	OIL AILD GAS DIVISION

DATE: July 00	_ 20_	_	21
OPERATOR'S WELL NO.:	BIG2	45	102H
API WELL	ON	4	Cast

- 03440 103 47

		407,00		SIAIL	COUNTY	LEMIN
WELL TYPE: OIL	GAS) PRODUCTION: STORAG					
	TION: 1430' WATERSHEE			ANGLE:	Big Run	
DISTRICT: Grant		COUNTY: W			08/20/2	0021
SURFACE OWNER:	ET Blue Grass LLC			A	CREAGE: 1	38.93
ROYALTY OWNER:	Shiben Estates, Inc., et al.	LEASE NO	125397	A	CREAGE:	140
	■ DRILL □ CONVERT □ DRILL DEW FORMATION □ OTHER PHYSIC			E   PLU	G OFF OLD	FORMATION
☐ PLUG AND ABAN	DON □ CLEAN OUT AND REPLUG	TARGET FORMATION:	Marcellus	ESTIN	MATED DEP	TH: _7,548'
WELL OPERATOR:	EQT Production Company	DESIGNATED AGENT:	Joseph C. M	allow		
ADDRESS:	400 Woodcliff Drive	ADDRESS:	115 Professi	onal Place	PO Box 280	
	Canonsburg, PA 15317		Bridgeport, V	VV 26330		

Operator's Well No. BIG245 102H

### INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or
Number Grantor, Lessor, etc. Grantee, Lessee, etc. Royalty Book/Page

See Attachment

Office of Oil and Gas

JUL 1 4 2021

WV Department or Environmental Proteguen

### 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 4

	0045	40	2
ы	IG245	-10	//r

ease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
<u>125397</u>	Shiben Estates, Inc., et al.			"at least 1/8th per WV Code 22-6-8"	
	Joseph Shiben and Minnie Shiben, his wife, et al	140 ac	Equitable Gas Company		OG 44A/224
	Equitable Gas Company		Equitrans, Inc.		OG 71A/453
	Equitrans, Inc., et al		Equitrans, LP		Misc. Book 105/908
	Equitrans, L.P.		EQT Production Company		OG 131A/81
102836	Shiben Estates, Inc., et al.			"at least 1/8th per WV Code 22-6-8"	
	S. I. Robinson	192 ac	Philadelphia Company		DB 47/469
	The Philadelphia Company of West Virginia Pittsburgh & West Virginia Gas Company		Pittsburgh & West Virginia Gas Company Equitable Gas Company		OG 22A/352 DB 187/321
	Equitable Gas Company		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
125426	Three Rivers Royalty II LLC, et al.			"at least 1/8th per WV Code 22-6-8"	
<u></u>	William Swisher and Mary E. Swisher, his wife	64 ac	Hope Natural Gas Company		OG 5A/128
	Hope Natural Gas Company		Equitable Gas Company		OG 44A/380
	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

WV Department of Environmental Protection

Office of Oil and Gas

<u>121160</u>	Acropolis, Inc., et al.			"at least 1/8th per WV Code 22-6-8"	
	A. C. Higginbotham and Jessie Higginbotham, his wife, et al	80 ac	Pittsburgh and West Virginia Gas Company		OG 39A/236
	Pittsburgh & West Virginia Gas Company		Equitable Gas Company		DB 187/321
	Equitable Gas Company		Equitrans, Inc.		OG 71A/453
	Equitrans, Inc., et al		Equitrans, LP		Misc. Book 105/908
	Equitrans, L.P.		EQT Production Company		OG 131A/81
<u>121807</u>	Stone Hill Mineral Holdings, LLC, et al.  A. C. Higginbotham and Jessie Higginbotham,			"at least 1/8th per WV Code 22-6-8"	
	his wife, et al	60 ac	Pittsburgh and West Virginia Gas Company		OG 39A/233
	Pittsburgh & West Virginia Gas Company		Equitable Gas Company		DB 187/321
	Equitable Gas Company		Equitrans, Inc.		OG 71A/453
	Equitrans, Inc., et al		Equitrans, LP		Misc. Book 105/908
	Equitrans, L.P.		EQT Production Company		OG 131A/81
<u>125383</u>	Donald Snodgrass, Jr. and Mary Eastham, et al.			"at least 1/8th per WV Code 22-6-8"	
	Dora Kohn, widow, et al	26 ac	Equitable Gas Company		OG 44A/87
	Equitable Gas Company		Equitrans, Inc.		OG 71A/453
	Equitrans, Inc., et al		Equitrans, LP		Misc. Book 105/908
	Equitrans, L.P.		EQT Production Company		OG 131A/81
<u>988629</u>	Thomas J. lacoboni, Trustee of the Thomas J. lacoboni Revocable Trust Agreement dated 5/15/2018, et al. Thomas J. lacoboni, single	9.25 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 194A/237
	•				

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WV Department or Environmental Protection

<u>125390</u>	Shiben Estates, Inc., et al. Esther Peters, et al	52 ac	Equitable Gas Company	"at least 1/8th per WV Code 22-6-8"	OG 52A/181
	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
125443	Gary I. Chamberlain, et al.			"at least 1/8th per WV Code 22-6-8"	
323710	Lillian B. Smith and Frank S. Smith, her husband, et al	33 ac	Equitable Gas Company		OG 45A/8
	Equitable Gas Company		Equitrans, Inc.		OG 71A/453
	Equitrans, Inc., et al		Equitrans, LP		Misc. Book 105/908
	Equitrans, L.P.		EQT Production Company		OG 131A/81
<u>1000109</u>	Reda M. Amos, alk/a Rita Mae Amos, et al.	400	FOT Duduring Output	"at least 1/8th per WV Code 22-6-8"	00 4540/744
	Reda M. Amos, a/k/a Rita Mae Amos, widow	108 ac	EQT Production Company		OG 151A/744

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## 4710303440

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 102H

Grant District, Wetzel County, WV

Dear Mr. Brewer,

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

Sincerely,

John Zavatchan

Project Specialist - Permitting

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JUL 1 4 2021

WV Department of Environmental Protection

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

	ce Certification: 113 2021	-		API No. 4		
					Well No. 102H	
				Well Pad	Name: BIG245	
Notice has I Pursuant to the	ne provisions in West Virginia Co	ode §	22-6A, the Operator has pro	ovided the rec	quired parties v	vith the Notice Forms listed
	tract of land as follows:					
State:	West Virginia		UTM NAD 83	Easting:	537027.993	
County:	Wetzel			Northing:	4382930.012	
District:	Grant		Public Road Ac		CR 19/2	
Quadrangle:	Big Run		Generally used to	farm name:	ET Blue Grass L	LC
Watershed:	Rockcamp Run of Willey Fork					
information r of giving the requirements Virginia Cod	ed the owners of the surface de equired by subsections (b) and (c surface owner notice of entry t of subsection (b), section sixte e § 22-6A-11(b), the applicant sh have been completed by the app	e), se to su en o nall t	ction sixteen of this article; ( rvey pursuant to subsection f this article were waived in ender proof of and certify to	(ii) that the re (a), section n writing by	equirement was ten of this arti the surface ov	deemed satisfied as a resurcle six-a; or (iii) the notice wher; and Pursuant to We
	West Virginia Code § 22-6A, the rator has properly served the rec				Certification	
*PLEASE CH	ECK ALL THAT APPLY					OOG OFFICE USE ONLY
	ECK ALL THAT APPLY TICE OF SEISMIC ACTIVITY	or	■ NOTICE NOT REQUI			
□ I. NO			SEISMIC ACTIVITY WA	s conduc	TED	ONLY  □ RECEIVED/
☐ 1. NO☐ 2. NO☐	TICE OF SEISMIC ACTIVITY		SEISMIC ACTIVITY WA	S CONDUC VEY WAS C IRED BECA	TED ONDUCTED USE	ONLY  RECEIVED/ NOT REQUIRED
☐ 1. NO☐ 2. NO☐	TICE OF SEISMIC ACTIVITY	URV	SEISMIC ACTIVITY WA  EY or NO PLAT SURV  NOTICE NOT REQUIRED TO SERVE THE PROPERTY OF SERVE THE PROPERTY OF SERVE TO SER	S CONDUC VEY WAS C IRED BECA PLAT SUR BY SURFA	TED ONDUCTED USE VEY	ONLY  RECEIVED/ NOT REQUIRED  RECEIVED/
☐ 1. NO☐ 2. NO☐ 3. NO☐	TICE OF SEISMIC ACTIVITY	URV or	SEISMIC ACTIVITY WA  EY or  NO PLAT SURV  NOTICE NOT REQUINOTICE OF ENTRY FOR WAS CONDUCTED OF  WRITTEN WAIVER	S CONDUC VEY WAS C IRED BECA PLAT SUR BY SURFA	TED ONDUCTED USE VEY	ONLY  RECEIVED/ NOT REQUIRED  RECEIVED/
☐ 1. NO ☐ 2. NO ☐ 3. NO ☐ 4. NO	TICE OF SEISMIC ACTIVITY TICE OF ENTRY FOR PLAT S TICE OF INTENT TO DRILL	URV or	SEISMIC ACTIVITY WA  EY or  NO PLAT SURV  NOTICE NOT REQUINOTICE OF ENTRY FOR WAS CONDUCTED OF  WRITTEN WAIVER	S CONDUC VEY WAS C IRED BECA PLAT SUR BY SURFA	TED ONDUCTED USE VEY	ONLY  RECEIVED/ NOT REQUIRED  RECEIVED/ NOT REQUIRED

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.

By:

### Certification of Notice is hereby given:

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

Well Operator: EQT Production Company

John Zavatchan

Its: Project Specialist - Permitting

Telephone: 724-746-9073

Address: 400 Woodcliff Drive

Canonsburg, PA 15317

Facsimile: 412-395-2974

Email: jzavatchan@eqt.com

Commonwealth of Penhsylvania - 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 Navon 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 Oil and Gas

JUL 1 4 2021

WV Department of Environmental Protection WW-6A (9-13) 471 0303440
API NO. 47OPERATOR WELL NO. 102H
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: 7/13/2021 Notice of: ☐ CERTIFICATE OF APPROVAL FOR THE PERMIT FOR ANY CONSTRUCTION OF AN IMPOUNDMENT OR PIT WELL WORK Delivery method pursuant to West Virginia Code § 22-6A-10(b) REGISTERED METHOD OF DELIVERY THAT REQUIRES A PERSONAL MAIL RECEIPT OR SIGNATURE CONFIRMATION SERVICE 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 crossion 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: COAL OPERATOR Name: RECEIVED Address: Name: ACNR Resources, Inc. \_Office of Oil and Gall Address: 45226 National Road SURFACE OWNER(s) (Road and/or Other Disturbance) St. Clairsville, OH 43950 JUL 1 4 2021 Name: See Attached List ☐ SURFACE OWNER OF WATER WELL Address: AND/OR WATER PURVEYOR(s) WV Department of Name: Environmental Protection Name: Address: Address: MOPERATOR OF ANY NATURAL GAS STORAGE FIELD ☐ SURFACE OWNER(s) (Impoundments or Pits) Name: Equitrans Midstream c/o Gerald Smith Address: 2200 Energy Drive Name: Address: Canonsburg, PA 15317 \*Please attach additional forms if necessary

Notice is hereby given:

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

#### This Notice Shall Include:

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

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

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

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

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.ocp.or.gov.orleand-env-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! regulator 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. 1 0 3 0 3 4 4 0
OPERATOR WELL NO. 102H
Well Pad Name: BIG245

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

### Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

### Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

### Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

### Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57<sup>th</sup> St. SE
Charleston, WV 25304
(304) 926-0450

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JUL 1 4 2021

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.

WV Department of

**Environmental Protection** 

WW-6A (8-13) 4710303440

API NO. 47-OPERATOR WELL NO. 102H 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 <a href="http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx">http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx</a> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

## Permit Denial or Condition

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

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

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

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

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JUL 1 4 2021

WW-6A (8-13) API NO. 47-47-1030.3440

OPERATOR WELL NO. 102H Well Pad Name: BIG245

Notice is hereby given by:

Well Operator: EQT Production Company

Telephone: 724-746-9073 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 awv.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, 2621

Notary Public

My Commission Expires March 9, 2024

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JUL 1 4 2021

### **BIG245**

## Surface Owners (All Disturbance):

4710303440

- 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

4710303440 Scale: 1" = 1000" Big Run 7.5' Topo Quad: \_\_\_ Date: \_\_\_\_ June 24, 2021 County: \_\_\_\_ Wetzel Project No: 246-34-G-18 Grant District: Water **BIG 245** 6 Potential Water Sources within 2500' Ande Site 8 ® Site 9 ® Site 6 Site 4(s) Site 5 Site 7 Site 3 ® te 2 (0) 2500 Site 1 ® RECEIVED Office of Oil and Gas JUL 1 4 2021 WV Department of Environmental Protection NAD 27, North Zone LEGEND Site 10 N: 400,723.70 Red Symbol - Declined Sampling E: 1,698,785.26 Blue Symbol - Requested Sampling / Unable to Contact WGS 84 Well (8) Spring LAT: 39.595300 @ Site 11 Pond 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

4710303440

# STATE OF WEST VIRGINIA 4 1 1 0 5 0 .5 4 . 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	Requirement: e: 06/23/2021	Notice shall be provided Date P	l at least TEN (10) days prior to filing a Permit Application Filed: 7132024	permit application.
Delivery meth	od pursuant	to West Virginia Code	§ 22-6A-16(b)	
☐ HAND		CERTIFIED MAIL		
		RETURN RECEIPT R	FOLIESTED	
DELIVE	CY.	KETUKN KECEIPT K	EQUESTED	
receipt request drilling a horiz of this subsect subsection ma and if available	ted or hand del gontal well: P ion as of the da y be waived in e, facsimile nu	livery, give the surface of rovided, That notice give ate the notice was provide writing by the surface of mber and electronic mains.	owner notice of its intent to enter upon the pursuant to subsection (a), section to ded to the surface owner: <i>Provided, howowner</i> . The notice, if required, shall included address of the operator and the operator	an operator shall, by certified mail return ne surface owner's land for the purpose of on of this article satisfies the requirements ovever. That the notice requirements of this ude the name, address, telephone number, or's authorized representative.
		d to the SURFACE C		
Name: See attac	hment		Name:	
Address:			Address:	
State: County:	West Virginia Wetzel		UTM NAD 83 Easting: Northing:	537027.993 4382930.012
District:	Grant		Public Road Access:	CR 19/2
Quadrangle:	Big Run		Generally used farm name:	BIG245
Watershed:	Rockcamp Run of	Willey Fork		
facsimile num related to hori	Vest Virginia ( ber and electr zontal drilling	Code § 22-6A-16(b), the ronic mail address of the may be obtained from	the operator and the operator's authorize the Secretary, at the WV Department of	ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Notice is her	ehy given hy	<i>,</i> .		
	EQT Production Company 400 Woodcliff Drive		Authorized Representative:	John Zavatchan
Address:			Address:	400 Woodcliff Drive
	Canonsburg, P	A 15317		Canonsburg, PA 15317
Telephone:	724-746-9073		Telephone:	724-746-9073
Email:	jzavatchan@ed	qt.com	Email:	jzavatchan@eqt.com
Facsimile:	412-395-2974		Facsimile:	412-395-2974
- and and and	210 300 0011			

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.

JUL 1 4 2021

## 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
- O4-8-22
  ET Blue Grass, LLG.
  P.O. Box 6135
  Pittsburgh, PA 15212

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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

Date of Notic	Requirement: notice shall be provi e: 6 12 20 4 Date Per	ided no later than the filing date of permi mit Application Filed: 7/13/2021	t application.
Delivery met	hod pursuant to West Virginia Co	ode § 22-6A-16(c)	
	FIED MAIL RN RECEIPT REQUESTED	HAND DELIVERY	
Pursuant to V return receipt the planned of required to be drilling of a I damages to the (d) The notice of notice.	V. Va. Code § 22-6A-16(c), no late requested or hand delivery, give the operation. The notice required by provided by subsection (b), section provided well; and (3) A propose the surface affected by oil and gas op	er than the date for filing the permit applie surface owner whose land will be used this subsection shall include: (1) A copin ten of this article to a surface owner who disurface use and compensation agreement of the extent the damages are congiven to the surface owner at the address law.	lication, an operator shall, by certified mail for the drilling of a horizontal well notice of y of this code section; (2) The information see land will be used in conjunction with the ent containing an offer of compensation for nepensable under article six-b of this chapter, isted in the records of the sheriff at the time
		Name:	
Name: See atta Address:		Name: Address:	
Name: See atta Address:	eby given: /est Virginia Code § 22-6A-16(c), r		ract of land as follows: 537027.993
Name: See atta Address:	chment  ceby given:  /est Virginia Code § 22-6A-16(c), r the surface owner's land for the pur  West Virginia  Wetzel  Grant  Big Run  Rockcamp Run of Willey Fork  Shall Include:  /est Virginia Code § 22-6A-16(c), r d by W. Va. Code § 22-6A-10(b)  cell; 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,	Address:	ract of land as follows: 537027.993 4382930.012 CR 19/2
Name: See atta Address:  Notice is her Pursuant to W operation on State: County: District: Quadrangle: Watershed:  This Notice S Pursuant to W to be provide horizontal we surface affect information r headquarters, gas/pages/def	eby given: /est Virginia Code § 22-6A-16(c), r the surface owner's land for the pur West Virginia  Wetzel  Grant  Big Run  Rockcamp Run of Willey Fork  Shall Include: /est Virginia Code § 22-6A-16(c), r d by W. Va. Code § 22-6A-10(b) ell; and (3) A proposed surface use red by oil and gas operations to the elated to horizontal drilling may b located at 601 57th Street, SE, ault.aspx.	Address:	ract of land as follows:  537027.993  4382930.012  CR 19/2  BIG245  s code section; (2) The information required used in conjunction with the drilling of a an offer of compensation for damages to the der article six-b of this chapter. Additional V Department of Environmental Protection (1) or by visiting www.dep.wv.gov/oil-and-
Name: See atta Address:	eby given: /est Virginia Code § 22-6A-16(c), r the surface owner's land for the pur West Virginia  Wetzel  Grant  Big Run  Rockcamp Run of Willey Fork  Shall Include: /est Virginia Code § 22-6A-16(c), r d by W. Va. Code § 22-6A-10(b) ell; and (3) A proposed surface use red by oil and gas operations to the elated to horizontal drilling may b located at 601 57th Street, SE, ault.aspx.	Address:	ract of land as follows:  537027.993  4382930.012  CR 19/2  BIG245  s code section; (2) The information required used in conjunction with the drilling of a an offer of compensation for damages to the der article six-b of this chapter. Additional V Department of Environmental Protection (b) or by visiting www.dep.wv.gov/oil-and-

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Office of Oil and Gas

JUL 1 4 2021

## 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

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## WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

**Division of Highways** 

Byrd E. White, III Secretary of Transportation/ Commissioner of Highways 1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

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 57<sup>th</sup> Street, SE Charleston, WV 25304

Subject: DOH Permit for the BIG245 Pad, Wetzel County BIG245 102H Well Site

Dear Mr. Martin,

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

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated October 1, 2018. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Becky Shrum

**EQT Production Company** 

CH, OM, D-6

File

Office of Oil and Gas

JUL 1 4 2021

## Anticipated Frac Additives Chemical Names and CAS Numbers

Material	Ingredient	<b>CAS Number</b>
Sand (Proppant)	Silica Substrate	14808-60-7
Water	Water	7732-18-5
Hydrochloric Acid (HCl)	Hydrogen Chloride	7647-01-0
Friction Reducer	Copolymer of 2-propenamide	<b>Proprietary</b>
	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
<b>Acid Chelating Agent</b>	Citric Acid	77-92-9
<b>Corrosion Inhibitor</b>	Methanol	67-56-1
	pyridinium, 1-(phenylmethyl)-, ethyl methyl derivs., chlorides	68909-18-2
	Nonoxynol-9	127087-87-0
	2-ethyl-1-hexanol	104-76-7
	4-nonylphenyl, ethoxylated	26027-38-3

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JUL 14 2021

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

WVDEP OOG ACCEPTED AS-BUILT 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 WILLEY FORK, GRANT DISTRICT, WETZEL COUNTY, WV

#### PROJECT INFORMATION

PROJECT NAME: EQT BIG 248 TAX PARCEL: GRANT DISTRICT, WETZEL COUNTY, WY MAP DS PARCELS 08, 14, 21, 22

#### SURFACE OWNER

WANDA L. BYARD MAP 06, PARCEL 08 GRANT DISTRICT, WETZEL COUNTY, WV TOTAL PROPERTY AREA: 58 16 -/- ACRES

MAP 08, PARCEL 14 GRANT DISTRICT, WETZEL COUNTY, WV TOTAL PROPERTY AREA: 51.0 \*\* ACRES

IKEY JOE WILLEY MAP 05, PARCEL 21 GRANT DISTRICT, WETZEL COUNTY WV TOTAL PROPERTY AREA: 76 27 +/- ACRES

ET BLUE GRASS LLC. MAP 08, PARCEL 22 GRANT DISTRICT, WETZEL COUNTY WY TOTAL PROPERTY AREA: 138 83 +/- ACRES

#### OIL AND GAS ROYALTY OWNER

SHIBEN ESTATES, INC. ORANT DISTRICT, WETZEL COUNTY, WY TOTAL PROPERTY AREA: 140.0 +/- ACRES

#### LOCATION COORDINATES

FOT BIG 245 CONSTRUCTION ENTRANCE

EQT BIG 245 WELL PAD CENTER LATITUDE: 39 595402 LONGITUDE: -80.586746 (NAD 85)

EQT BIG 245 AST TANK CENTER LATITUDE: 39 50621 LONGITUDE: -80,56605 (NAD 83)

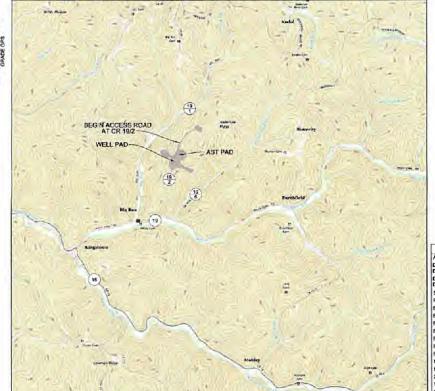
#### PROJECT DATUM NAD 27 WY NORTH

#### SURVEY NOTE

THE CERTIFICATION OF THIS DRAWING APPLIES ONLY TO THE TOPOGRAPHIC MAPPING AS GENERATED FROM THE FIELD DATA OBTAINED AT THE TIME OF THE FIELD SURVEY ON 200419, 2/10/19, 2/14/19, 2/15/19, 2/16/19, 2/16/19, 2/22/19, 2/22/19, 2/26/19, 3/06/19, 3/06/19, 3/06/19, 3/14/19, 3/14/19, 3/14/19, 3/16/

#### MISS UTILITY STATEMENT

MISS UTILITY OF WEST VIRGINIA WAS NOTED FOR THE LOCATING OF UTILITIES PRIOR TO THIS PROJECT DESIGN. TICKET #21 14759767



LOCATION MAP

STANTEC CONSULTING,INC.

111 ELKINS STREET FARMONT, WV 26554

ENGINEER

**OPERATOR** 

P.O. BOX 250 BRIDGEPORT, WV 26630 PHONE: (304) 346-3870

EQT PRODUCTION COMPANY

OPERATOR ID: 306686

SCALE: 1"=2000"

SURVEYOR

PO BOX 150 12 VANHORN DRIVE

GLENVILLE WY 28351

PHONE: (304) 452-5634

SMITH LAND SURVEYING, INC.

L	IST OF DRAWINGS
SHEET NO	DESCRIPTION
1	COVER SHEET
2	INDEX SHEET
3	AS-BUILT PLAN SHEET
	AS-BUILT PLAN SHEET
5	AS-BUILT PLAN SHEET
6	AS-BUILT PLAN SHEET
7	AS-BUILT PLAN SHEET
	ACCESS ROAD AS BUILT PROFILE

Planned Total As suit Total

Wance L. Byanc	444	4.05	6.5	g .	5.82
Neel Utt	48-14	5.14	6.1	4	0.14
her Joe Willry	4821	0.46	6.6	6	0.48
ET Dive Grass LLD	4-8-22	29.07	313	0	31.60
Total Aven			44.2	2	44.22
LOD by project area					
Description				LCD (Acres)	Wooded Area (Acres
Well Paul Arcens Road Sta. 99+57 to 110+95				0.64	0.84
Well Part			3.29	3.29	
AST Part			1.50	1.20	
Topical Strickpile 1			1.26	1.25	
Stockple 1				4.28	4.26
Stockpie 2, 3, 8 ff			4.35	4.35	
Stockpie 4			2.01	2.01	
Stockpie 5			4.47	4.67	
Remoining Cleared and Grabbed Areas			22.42	72.47	

Tissi Area		
LEGEND		Ī
AS-BUILT LIMITS OF DISTURBANCE		
DESIGN WELL PAD LIMITS OF DISTURBANCE (LOD)		EK.
DESIGN ACCESS ROAD LIMITS OF DISTURBANCE (LOD)		AS.
STOCKPILE LIMITS		_
PROPERTY LINES		-
EX, ROAD EDGE OF GRAVELIDIRT		
EX. ROAD CENTERLINE		
EX. DITCHLINE	_	r c
EX. CULVERT		<b>AD</b>
EX. GASLINE		
EDGE OF GRAVEL PAD		
EDGE OF BERM		
12" COMPOST FILTER SOCK		
18" COMPOST FILTER SOCK		
24° COMPOST FILTER SOCK	-0.	
TOP BERM	7 11	
GRAVEL		
RIP RAP	38588883	
DRIGINAL GROUND Z CONTOURS		
AS BUILT 2 CONTOURS		
MATCHLINE		
EX. FENCELINE		
EX. OVERHEAD UTILITY		
EX. 20' GASLINE RIGHT OF WAY		
EX. STRUCTURE		
EX. PIPELINE MARKER		
EX. POWER POLE		
EX. GUY WIRE		
AS-BUILT WELL LOCATIONS	0	
PROPOSED WELL LOCATIONS	8	
ADJACENT WELL LOCATIONS	0	

LOD by property owner

SUPPLEMENTAL LEGEND	CATE OF
ITEMS ADDED AFTER 3/11/2018 SURVEY.	THE BOCKMENT PREPARE DIS RESIAND A CHEA DEVIADIMEN FOR FOI
SUPPLEMENTAL LEGEND 2	
ITEMS ADDED AFTER 60/31/2021 SURVEY COMPOST FILTER SOCK 65	ONC

44.22

EXCESSAN	TERME STOCKPLES
NAME	VOLUME (CY)
1	91,824
243	71,051
	1,224
5	* 26.857
	0 - UNUSED
TOTAL	194,056

TOPSO	STOCKPRE
NAME	<b>VOLUME ICA</b>
1	11,003
TOTAL	11.063

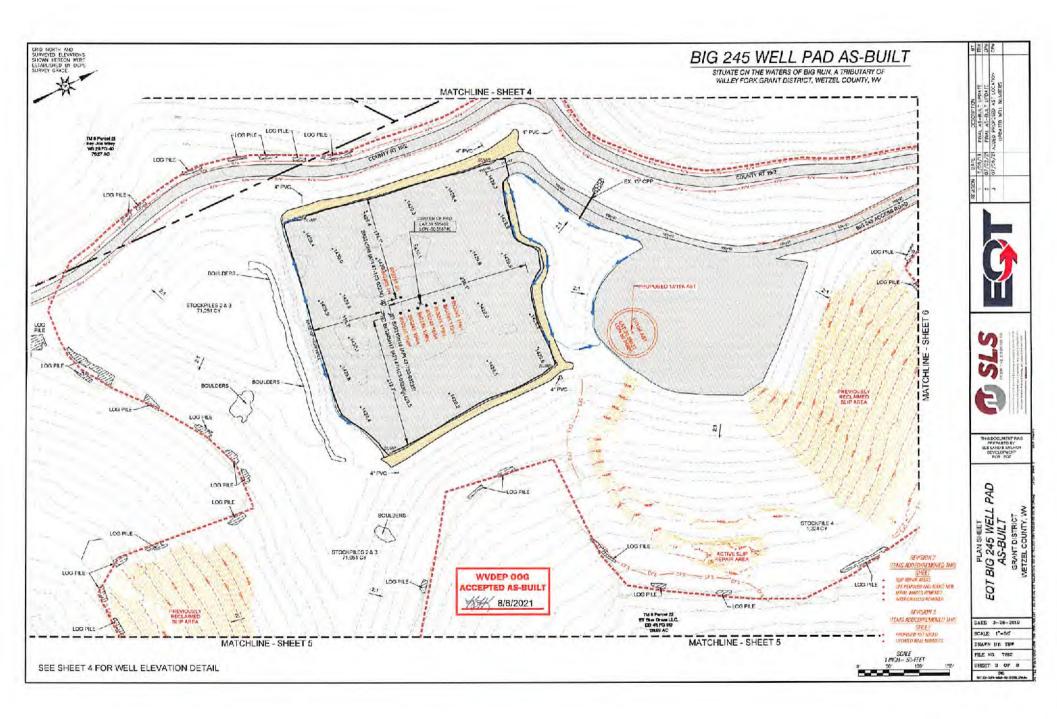
ON THE PRIOR AS-BUILT DRIBINGS, DATES A-23-209. A CORRECTION IN STOCK PILE VOLUM MAS SHERWINGS, I APPLIED TO STOCK PILE NO. OF THE WELL PAD. THE CORRECTION SPECULO HAVE BEEN APPLIED TO STOCK PILE NO. 1 OF THE WELL PAD. ALSO BEING STOCK PILE NO. 1 OF THE WELL PAD.

DATE 3-20-19 SCALE 1"=2000" DRAWN BY: THE

BIG 245 WELL AS-BUILT

EOT

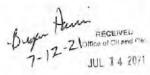
FILE NO. 7612 SHEET I OF B



# 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)



WV Department o Environmental Protection

#### PROJECT INFORMATION

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

#### SURFACE OWNER

WANJA L BYARD MAP OR PARTIES OF GRANT DISTRICT, WETZEL COUNTY WY TOTAL PROPERTY AREA 59 14 14 ACRES

MAP OR PARCEL 14 GRANT DISTRICT WETZEL COUNTY WY TOTAL PROPERTY AREA 51 0 +1- ACRES

WAP 08 PARCEL 21
GRANT DISTRICT, WETZEL COUNTY, WY
TOTAL PROPERTY AREA TO 27 \*A ACRES

MAP 08, PARCEL 22 GRANT DISTRICT, WETZEL COUNTY, WV TOTAL PROPERTY AREA 136.93 H ACRES

#### OIL AND GAS ROYALTY OWNER

SHIBEN ESTATES, INC.
GRANT DISTRICT, WETZEL COUNTY WV TOTAL PROPERTY AREA 1400 % ACRES

#### LOCATION COORDINATES

EOT BIG 245 CONSTRUCTION ENTRANCE LATITUDE: 39.599800 LONGITUDE: 450.567860 (NAD B3)

EQT BIG 216 WELL PAD CENTER LATITUDE: 20,595402 LONGITUDE: -80,568746 (NAD E3).

FOT BIG 245 AST TANK CENTER LATITUDE 19 59621 LONGITUDE -80 56805 (NAD 53)

#### PROJECT DATUM

HAD 27 WY NORTH

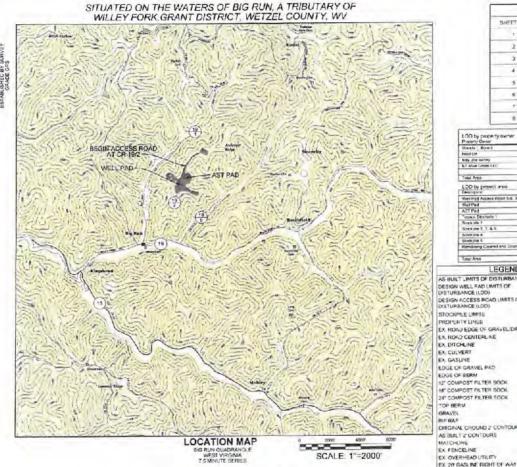
#### SURVEY NOTE

SURVET TWO: THE DRAWING APPLIES ONLY TO THE TOPOGRAPHIC MAPPLIES ONLY TO THE TOPOGRAPHIC MAPPLING AS GENERATED FROM THE FIELD DATA OFFANDA THE TIME OF THE FIELD SURVEY ON 200419, 271219, 212419, 212 FLIGHTS ON 3/11/19, 3/12/10, 4/11/19, & 05/01/21

#### MISS UTILITY STATEMENT

MISS LITERTY OF WEST VIRGINIA WAS NOTED FOR THE LOCATING OF UTILITIES PRIOR TO THIS PROJECT DESIGN: TICKET #21-14769767

West Virginia State Law (Section XIV, Chapter 24-C) Regulate that you call be-



#### OPERATOR

EQT PRODUCTION COMPANY P.O. BOX 280 BREDGEPORT, WV 298-30 PHONE (304) 348-3870

#### ENGINEER

STANTEC CONSULTING INC FAIRMONT, WV 2655 PHONE: (304) 367-9401

#### SURVEYOR

SMITH LAND SURVEYING, INC. PO BOX 150 12 VANHORN DRIVE GLENVILLE, WV 2635 OHONE (304) 453-5634

LIST OF DRAWINGS			
SHEET NO	DESCRIPTION		
1	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		
	AS-BUILT PLAN SHEET		
В	ACCESS ROAD AS-BUILT PROFILE		

LOD by property owner Property Owner	Parceta	Plantino Total Disturbance Area (Acres)	As-tuit Total Deturbance Area (Across)	Wooded Area (Acres)
Wants: Byard	4.6-8	4.00	0.80	5.82
Nemal Lim	4-6-14	6.14	E.94	3.14
key Joe Wiley	4671	0.46	0.46	0.49
ET Due Green LLC	6.8-72	29.07	21.80	31.80
Total Area	-		44 22	44.22

Total Aysa		44 72	+4.22
LOD by project area		- Colonia	
Contribute		L00 (A::	
Well Pad Accent Road Str. 16+57 to 110	-95	0.54	364
Well Ped		7.29	3.29
AST Pad		150	1.50
*opsoi Stockpile 1		1.76	1.25
Separate 1		4.25	4.25
Siretime 7, 3, 4.5		4.20	4,35
Score pine 4		229	2.01
Stock till 5		4.47	8.47
Remaining Cleared and Cirumvio Ameri		22.42	22.42

LEGEND	SUPPLEMENTAL LEGEND			
BUILT LIMITS OF DISTURBANCE FIGN WELL PAD LIMITS OF TURBANCE (LIDD) FIGN ACCESS ROAD LIMITS OF TURBANCE (LIDD)		ITEMS ADDED AFTER 9/1/2019 SURVEY EX GUARDRAL AS BUILT 2 CONTOURS		
OCKPILE LIMITS		SUPPLEMENTAL LEGEND 2		
DEFITY LINES ROAD EDGE OF GRAVELIDIRT ROAD CENTERLINE DITCHLINE CULVERT	=	ITEMS ADDED AFTER GLOV/2021 SURVEY ET COMPOST FILTER SOCK EFE AS BUILT 2 CONTOURS		
GASLINE		100	THE REAL PROPERTY.	100000000000000000000000000000000000000
E OF GRAVEL PAD		inc.	NAME	VOLUME ICY
GE OF BERM			- t-	91,524
COMPOST FILTER SOCK			263	71,051
COMPOST FILTER SOCK		_	+	1 22 4
COMPOST FILTER SOCK		-	3	0-MMMSFC
BERM		1.00	10/15	The state of the s
AVEL RAP	RREREI			
GINAL GROUND 2 CONTOURS	(Interpretation)	-	-	
BUILT 2 CONTOURS			NAME	VOLUME (CY)
Charles IME		1	-	The second secon

0

EX. STRUCTURE

EX. POWER POLE

EX. GUY WIRE

EX. P PELINE MARKER

AS-BUILT WELL LOCATIONS

PROPOSED WELL LOCATIONS

ADJACENT WELL LOCATIONS

and the second second second second
ON THE PRIOR AS BUILT DRAWINGS, DATED
4-25-2019, A CORRECTION IN STOCK PILE VOLUME
WAS FEROMFOREN APPLIED TO STOCK FILE NO 1
OF THE WELL PRO THE CORRECTION SHOULD
HAVE BEEN APPLIED TO STOCK PLE NO LOT THE
ACCCOS ROAD ALSO BEING STOCK FEE NO 1 OF
THE WELL AND







PAD COVER SHEET EQT BIG 245 WELL P AS-BUILT

DATE 3-26-19 SCALE 1"-2000" DRAWN BY

FILE NO. 7512 SHEET I OF 8