

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, April 8, 2024 WELL WORK PERMIT Horizontal 6A / New Drill

EQT PRODUCTION COMPANY 400 WOODCLIFF DR.

CANONSBURG, PA 15317

Re:

Permit approval for VANDERBILT 2H 47-049-02534-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450

Operator's Well Number: VANDERBILT 2H

Farm Name: LARRY AND TRISHA HIGGI

U.S. WELL NUMBER: 47-049-02534-00-00

Horizontal 6A New Drill

Date Issued: 4/8/2024

API Number: 47-049-62534

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

- 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.
- 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.
- 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.
- 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. 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. Also, 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 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.
- 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	
OPERATOR WELL	NO. 2H
Well Pad Name:	Vanderbilt

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

1) Well Operator: EQT Produc	tion Company	306686	Marion	Mannington District	Glover Gap Quadrangle
0.11		Operator ID	County		Quadrangie
2) Operator's Well Number: 2H		Well Pad	Name: Vande	DIIL	
3) Farm Name/Surface Owner: L	arry & Trisha Hi	ggins Public Roa	d Access: CR-1		
4) Elevation, current ground:	,357' (built) El	evation, proposed	post-construction	n: 1,357' (built)
5) Well Type (a) Gas X	Oil	Unde	erground Storag	е	
Other					
(b)If Gas Shal	low X	Deep			
Hori	zontal X				
6) Existing Pad: Yes or No Yes					
7) Proposed Target Formation(s) Marcellus, 7,734', 56', 2,620		ipated Thickness a	nd Expected Pr	essure(s):	
8) Proposed Total Vertical Depth	: 7,734'				
9) Formation at Total Vertical De	epth: Marcellus				
10) Proposed Total Measured De	pth: 9,230'				
11) Proposed Horizontal Leg Ler	ngth: <u>0'</u>				
12) Approximate Fresh Water St	rata Depths:	253', 504'			
13) Method to Determine Fresh	Water Depths:	Offset Wells - 049-01	1784, 049-30593	, 049-30230	0
14) Approximate Saltwater Dept	hs: N/A				
15) Approximate Coal Seam Dep	oths: 1,181'-1,188	3'			
16) Approximate Depth to Possib	ole Void (coal mi	ne, karst, other):	N/A		
17) Does Proposed well location directly overlying or adjacent to		ns Yes X	No		
(a) If Yes, provide Mine Info:	Name: Harris	on County Mine			RECEIVED
(,, p		'-1,188'		0	Office of Oil and Gas
	Seam: Pittsb	urgh			FEB 09 2024
		son County Coal Re	sources, Inc.		
	3			Env	ironmental Protection

API NO. 47-4704902534

OPERATOR WELL NO. 2H

Well Pad Name: Vanderbilt

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	A252	85.6	53	53	45 ft^3 / CTS
Fresh Water	13 3/8	New	J-55	54.5	1238	1238	1135 ft^3 / CTS
Coal							
Intermediate	9 5/8	New	J-55	36	2685	2685	1035 ft^3 / CTS
Production	6	New	P-110	24	9230	9230	500' above intermediate casing
Tubing							
Liners							

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	1000	18	Class A/L	1.04 - 1.20
Fresh Water	13 3/8	17 1/2	0.380	2730	2184	Class A/L	1.04 - 1.20
Coal							
Intermediate	9 5/8	12 3/8 - 12 1/4	0.352	3520	2816	Class A/H/L	1.04 - 1.20
Production	6	8 3/4 - 8 1/2	0.400	14580	11664	Class A/H/L	1.04 - 2.10
Tubing							
Liners							

Ky Willat 2/21/24

PACKERS

Kind:		
Sizes:		RECEIVED Office of Oil and Gas
Depths Set:		FEB 0.9 2024

WW-6B (10/14)

API NO. 477 0 4 9 0 2 5 3 4

OPERATOR WELL NO. 2H
Well Pad Name: Vanderbilt

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): 56,80 acres (built)
- 22) Area to be disturbed for well pad only, less access road (acres): 8.44 acres (built)
- 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 other joint from production casing shoe to landing point. One solid body centralizer spaced every joint from landing point to planned top of cement.

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Office of Oil and Gas

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

Conductor: Class A no additives

Surface: Calcium Chloride. Used to speed the setting of cement slurries

Intermediate: Calcium Chloride. Used to speed the setting of cement slurries. If applicable: Gas Migration Control Widditive all Carbonate, Pluid Loss, Extender, Dispersent, Viscosifier, Defoamer, POZ, Bonding Agent Retained Protection

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 surface.

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

*Note: Attach additional sheets as needed.

4704902534

EQT Production

Hydraulic Fracturing Monitoring Plan

Pad ID: Vanderbilt

County: Marion

February 5, 2024

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FEB **09** 2024

WV Department Service Environmental Protections

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 Marion County, WV prior to hydraulic fracturing at the following EQT wells on the Vanderbilt pad: 2H, 4H, 6H, 8H and 10H.

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
- 4. Notify the OOG and EQT if any changes in water, gas production, pressure, or other anomalies are identified

2. Reporting

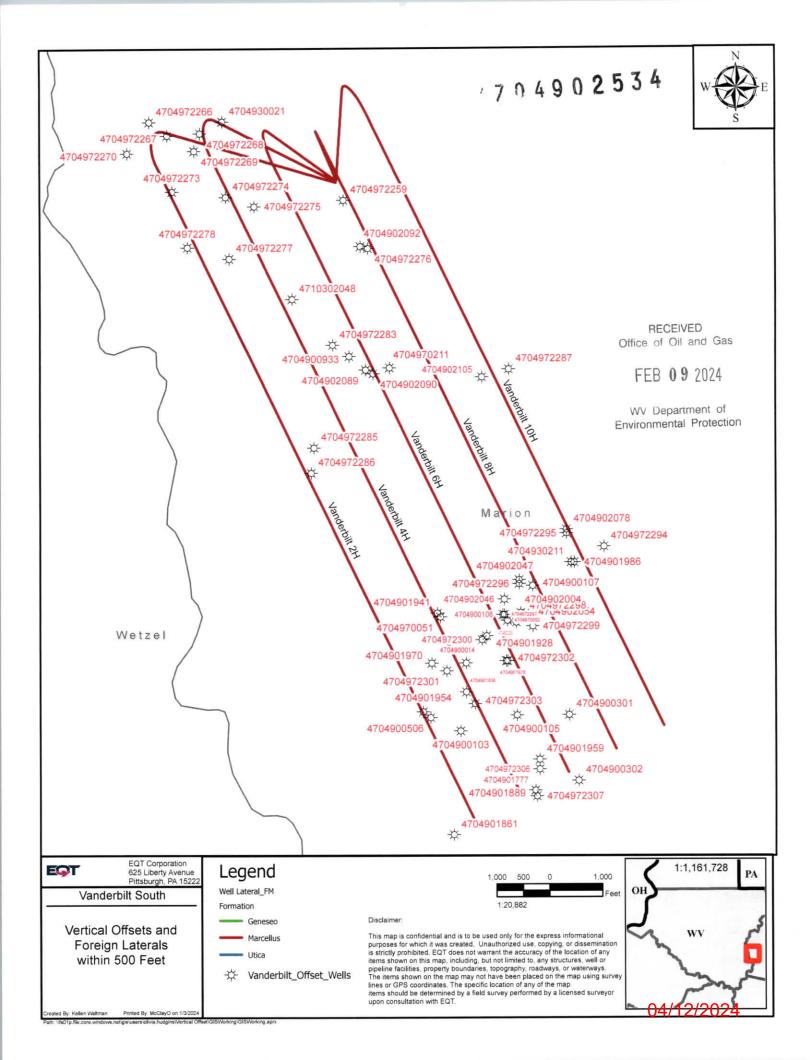
EQT will provide information relating to the hydraulic fracturing schedule, communication with other operators, and ongoing monitoring of the work upon request of OOG or immediately in the event of any noted abnormalities.

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FEB 09 2024

Page 2 of 2

W Departing Protection



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APL_UWL_Un	AP(_UW(_12-1	ENVOperato CONSOLIDATION COAL COMPANY	ENVWellSta P&A	ENVWeiTyp - WATER	CONSOLIDATION COAL COMPANY	Latitude 39.524593	Longitude -80,463949	ElevationG 1179	1188	. احل بالد 3130	3130 CUNNINGHAM, W N 6	WATER-P & A
	47-049-72301-00		UNREPORTED	UNREPORTED		39.521722	-80.467699	1350	0	3130	0 ORA HUEY	UNREPORTED-UNREPORTED
	47-049-72297-00		UNREPORTED	UNREPORTED		39.524625	-80.463764	1184	ő	ŏ	0 ORA HUEY	UNREPORTED-UNREPORTED
			P&A		CONSOLIDATION COAL COMPANY	39.543692	-80.473277	1109	1118	ŏ	0 MORRIS, HARRY R. 5455	OTHER-P & A
			P & A		CONSOLIDATION COAL COMPANY	39.516031	-80.458945	1195	1204	1535	1535 MARION COUNTY COMMISSION 5408	OTHER-P&A
			P&A		CONSOLIDATION COAL COMPANY	39.519374	-80.463039	1252	1261	3188	3188 MARION COUNTY COMMISSION 5424	GAS-P&A
4710302048	47-103-02048-00	CONSOLIDATION COAL COMPANY	P&A	OTHER	CONSOLIDATION COAL COMPANY	39.54099	-80.477871	1375	1384	0	0 CONSOLIDATION COAL 6387	OTHER-P & A
			P&A		CONSOLIDATION COAL COMPANY	39.513235	-80.467296	1104	1113	0	0 MARCOZZI, DEBRA 5413	OTHER-P & A
	47-049-72277-00		UNREPORTED	UNREPORTED		39.543069	-80.482123	1148	0	0	0 Z D KENDALL	UNREPORTED-UNREPORTED
			P&A		CONSOLIDATION COAL COMPANY	39.522208	-80.46365	1077	1086	0	0 MARION COUNTY COMMISSION 5432	
			P&A		CONSOLIDATION COAL COMPANY	39.515485 39.54365	-80.461751 -80.484933	1195 1156	1204 D	0	0 MARION COUNTY COMM. 5410 0 Z D KENDALL	OTHER-P & A UNREPORTED-UNREPORTED
	47-049-72278-00 47-049-72270-00		UNREPORTED UNREPORTED	UNREPORTED UNREPORTED		39.548584	-80.488867	1411	٥	Ö	0 M KENDALL	UNREPORTED-UNREPORTED
	47-049-72269-00		UNREPORTED	UNREPORTED		39.548729	-80.484371	1358	0	ā	0 JL TOOTHMAN	UNREPORTED-UNREPORTED
		SOUTH PENN OIL (S. PENN NAT. GAS)			SOUTH PENN OIL (S PENN NAT GAS)		-80,468068	1079	ō	ŏ	0 W N CUNNINGHAM	UNREPORTED-UNREPORTED
	47-049-72274-00		UNREPORTED	UNREPORTED		39.546262	-80.48231	1331	Ō	0	0 J M MCCULLOUGH	UNREPORTED-UNREPORTED
	47-049-72286-00		UNREPORTED	UNREPORTED		39.532026	-80.47669	1238	0	0	0 S R ARNETT	UNREPORTED-UNREPORTED
4704972307	47-049-72307-00	(N/A)	UNREPORTED	UNREPORTED	(N/A)	39.515191	-80.461705	1174	0	0	0 HOWARD BRUMMAGE	UNREPORTED-UNREPORTED
4704970052	47-049-70052-00	(N/A)	COMPLETED		(N/A)	39.52435	-80.463574	1075	C	0	3013 4	OIL-COMPLETED
			P&A		CONSOLIDATION COAL COMPANY	39.519402	-80.459493	1044	1053	2341	2341 MARION COUNTY COMM. 5423	OTHER-P & A
			P&A		CONSOLIDATION COAL COMPANY	39.52421	-80.462996	1081	1090	0	0 MARION COUNTY COMMISSION 5435	
			P&A		CONSOLIDATION COAL COMPANY	39.518589	-80.466793	1352	1361	3369	3369 DEBERRY, EDMOND 5425	WATER-P & A
			P&A		CONSOLIDATION COAL COMPANY	39.52208	-80.468651	1355	1364	0	8 MARION COUNTY COMMISSION 543	UNREPORTED-COMPLETED
		SOUTHERN OIL, LLC	COMPLETED		SOUTHERN OIL	39.55021 39.538558	-80.482493 -80.475192	1215 1227	0	0	2392 JOHN CAMPBELL 3 0 S R ARNETT	UNREPORTED-UNREPORTED
	47-049-72283-00		UNREPORTED UNREPORTED	UNREPORTED	(N/A) CARNEGIE NATURAL GAS	39.52725	-80.459268	1354	0	ā	D S C THORN	UNREPORTED-UNREPORTED
			P&A		CONSOLIDATION COAL COMPANY	39.538034	-80.474063	1163	1172	0	D ARNETT, S. R. 5450	OTHER-P & A
	47-049-72287-00		UNREPORTED	•	NORRIS PETROLEUM	39.537251	-80.463389	1139	0	٥	0 C D ARNETT	UNREPORTED-UNREPORTED
	47-049-72276-00		UNREPORTED	UNREPORTED		39.5436493	-80.4727563	1103	ō	ō	D VIRGINIA DEVORE 1	UNREPORTED-UNREPORTED
			P&A	OTHER	CONSOLIDATION COAL COMPANY	39.519611	-80.469255	1375	1384	0	0 DEBERRY, EDMOND P. 5428	OTHER-P & A
4704902105	47-049-02105-00	CONSOLIDATION COAL COMPANY	P&A	OTHER	CONSOLIDATION COAL COMPANY	39.53695	-80.465168	1085	1094	0	0 HERNDON, RUBY 5447	OTHER-P & A
4704902090	47-049-02090-00	CONSOLIDATION COAL COMPANY	P&A	OTHER	CONSOLIDATION COAL COMPANY	39.537093	-80.472456	1135	1144	0	0 COTHERMAN, PATRICIA 5448	OTHER-P & A
	47-049-72294-00		UNREPORTED	UNREPORTED		39.528108	-80.457129	1154	0	0	0 FAY MORAN	UNREPORTED-UNREPORTED
			P&A	OTHER	CONSOLIDATION COAL COMPANY	39.524564	-80.462213	1132	1141	0	0 MARION COUNTY COMMISSION 543	
		SOUTH PENN OIL (S. PENN NAT. GAS)			SOUTH PENN OIL (S PENN NAT GAS)		-80.47144	1208	0	0	0 RILEY ARNETT	UNREPORTED-UNREPORTED UNREPORTED-UNREPORTED
	47-049-72267-00		UNREPORTED UNREPORTED	UNREPORTED		39.549455 39.5166425	-80.486244 -80.4615164	1377 1265	0	0	0 J L TOOTHMAN 0 ARLIE G WILLIAMS 2	UNREPORTED-UNREPORTED
	47-049-72306-00 47-049-72299-00		UNREPORTED	UNREPORTED		39.524044	-80.461891	1152	0	0	0 PH GUMP	UNREPORTED-UNREPORTED
	47-049-72268-00		UNREPORTED	UNREPORTED		39.5496	-80.483996	1236	ő	ŏ	0 J L TOOTHMAN	UNREPORTED-UNREPORTED
			P&A		CONSOLIDATION COAL COMPANY	39.520628	-80.466428	1274	1283	ŏ	0 MARION COUNTY COMMISSION 542	
	47-049-72296-00		UNREPORTED	UNREPORTED		39.5262214	-80.4628279	1203	0	0	0 W E GUMP 1	UNREPORTED-UNREPORTED
	47-049-72298-00		UNREPORTED	UNREPORTED	(N/A)	39.52448	-80.46264	1097	0	0	0 W E GUMP	UNREPORTED-UNREPORTED
4704902046	47-049-02046-00	CONSOLIDATION COAL COMPANY	PERMIT EXPIRED	OTHER	CONSOLIDATION COAL COMPANY	39.525353	-80.46375	1264	1274	0	0 MARION COUNTY COMMISSION 544	
	47-049-72285-00		UNREPORTED	UNREPORTED		39.533333	-80.476504	1400	0	0	0 S R ARNETT	UNREPORTED-UNREPORTED
			P&A	OTHER	CONSOLIDATION COAL COMPANY	39.529	-80.459555	1306	1315	0	0 JAMES, DAVID L & KARLA A 5444	OTHER-P & A
	47-049-72275-00		UNREPORTED	UNREPORTED		39.545827	-80.480437	1223	0	0	0 J M MCCOLLOUGH	UNREPORTED-UNREPORTED
	47-049-72259-00		UNREPORTED	UNREPORTED		39.546117 39.519254	-80.474442 -80.468823	1382 1326	0 1335	3342	0 N H DEBOLT 3342 CUNNINGHAM, J. 5	UNREPORTED-UNRÉPORTED OIL & GAS-P & A
	47-049-00506-00		P & A UNREPORTED	OIL & GAS UNREPORTED	CONSOLIDATION COAL COMPANY	39.519254	-80.487368	1484	1335	3342	0 J H SNODGRASS	UNREPORTED-UNREPORTED
	47-049-72303-00		UNREPORTED	UNREPORTED		39.51998	-80.465826	1342	0	Ö	0 ORA HUEY	UNREPORTED-UNREPORTED
	47-049-72302-00		UNREPORTED	UNREPORTED		39,522158	-80.463577	1075	ŏ	ō	0 ORA HUEY	UNREPORTED-UNREPORTED
		CONSOLIDATION COAL COMPANY	P&A	OTHER	CONSOLIDATION COAL COMPANY	39,527254	-80.459072	1318	1327	Ō	0 BARRON, EDWARD & VICKY 5442	OTHER-P & A
		CONSOLIDATION COAL COMPANY	P&A		CONSOLIDATION COAL COMPANY	39.515485	-80.461751	1197	1206	0	0 MARION CO. COMMISSION 5411	OTHER-P & A
4704902089	47-049-02089-00	CONSOLIDATION COAL COMPANY	P&A	OTHER	CONSOLIDATION COAL COMPANY	39.537329	-80.473004	1150	1159	0	O COTHERMAN, PATRICIA 5449	OTHER-P & A
4704902047	47-049-02047-00	CONSOLIDATION COAL COMPANY	P&A	OTHER	CONSOLIDATION COAL COMPANY	39.526434	-80.462837	1215	1224	0	0 MARION COUNTY COMMISSION 544	
	47-049-72300-00		UNREPORTED	UNREPORTED		39.523319	-80.465263	1068	0	0	0 ORA HUEY	UNREPORTED-UNREPORTED
		CONSOLIDATION COAL COMPANY	P&A	OTHER	CONSOLIDATION COAL COMPANY	39.524744	-80.462708	1103	1112	0	0 MARION COUNTY COMMISSION 543	
			P&A	OTHER	CONSOLIDATION COAL COMPANY	39.517078	-80.461516	1217	1226	0	0 MARION CO. COMMISSION 5422	OTHER-P & A
		CONSOLIDATION COAL COMPANY	P&A	OTHER	CONSOLIDATION COAL COMPANY	39.523533	-80.46504	1066	1075	0	0 MARION COUNTY COMMISSION 543	
		CONSOLIDATION COAL COMPANY	P&A	OTHER	CONSOLIDATION COAL COMPANY CONSOLIDATION COAL COMPANY	39.524688 39.52607	-80.468347 -80.46189	1088 1137	1097 1146	3126	 MARION COUNTY COMMISSION 543 3126 GUMP, P.H.2 	GAS-P&A
	47-049-00107-00 47-049-72295-00	CONSOLIDATION COAL COMPANY	P & A UNREPORTED	GAS UNREPORTED		39.5288333	-80.4596427	1137	1140	3120	0 JAMES HAYS	UNREPORTED-UNREPORTED
		CONSOLIDATION COAL COMPANY	P&A	OIL	CONSOLIDATION COAL COMPANY	39.522063	-80.466383	1314	1323	3368	3368 MARION COUNTY COMMISSION 543	
	47-049-72273-00		UNREPORTED	UNREPORTED		39.546553	-80.48587	1270	0	0	0 M KENDALL	UNREPORTED-UNREPORTED
		A. C. A.			•			-	•	•		

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Office of Oil and Gas
FEB 0 9 2024

WV Department of Environmental Protection

4704902534



EQT PRODUCTION COMPANY 400 Woodcliff Drive | Canonsburg, PA 15317

February 1, 2024

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

Re:

Class L Cement Variance Request

Vanderbilt 2H Well

Mannington District, Marion County

Dear Mr. Brewer,

EQT Production Company (EQT) has been notified by our cement providers that they will no longer be providing Class A cement. As a result of this, EQT is requesting the option to utilize Class L cement, if necessary, in place of Class A cement for its cement jobs.

The variance request from Legislative Rule 35CSR8, Section 9.2.h.8, related to the use of Class L Cement, was approved by the Office of Oil and Gas on September 13, 2022. A copy of the variance is included with this request.

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

Sincerely,

John Zavatchan

Project Specialist - Permitting

RECEIVED Office of Oil and Gas

FEB 09 2024

WV Department of Environmental Protection

Enc.



west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, SE Charleston, WV 25304 Phone (304) 926-0450 Harold D. Ward, 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)	
LEGISLATIVE RULE 35CSR4)	ORDER NO. 2022-14
SECTION 11.5 AND LEGISLATIVE RULE)	
35CSR8 SECTION 9.2.h.8.,)	
RELATING TO THE CEMENTING)	
OF OIL AND GAS WELLS)	RECEIVED Office of Oil and Gas

FFB **09** 2024

REPORT OF THE OFFICE

WV Department of Environmental Protection

In response to industry requests, the West Virginia Department of Environmental Protection, Office of Oil and Gas has reviewed the proposed use of American Petroleum Institute (API) Class L cement to be used in place of API Class A cement for well construction.

FINDINGS OF FACT

- 1. On July 14, 2022, Northeast Natural Energy (NNE) submitted a variance request from Legislative Rule 35CSR8 Section 9.2.h.8., for the use of API Class L cement in place of API Class A cement, relating to the construction of horizontal wells.
- Laboratory analysis submitted by NNE on July 14, 2022, indicates API Class L cement is comparable to API Class A cement and thereby satisfies the requirements of the West Virginia Code.
- 3. Contemporaneously, the Chief of the Office of Oil and Gas also chose to consider a variance to Legislative Rule 35CSR4 Section 11.5., for the use of API Class L cement in place of API Class A cement, relating to the construction of vertical wells.

Promoting a healthy environment

 On August 18, 2022, the Office of Oil and Gas provided public notice of acceptance of public comments on the variance consideration. During the 20-day public comment period, no comments were received.

CONCLUSIONS OF LAW

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

Pursuant to Legislative Rule 35CSR4, Section 18 and Legislative Rule 35CSR8, Section 14, the Chief of the Office of Oil and Gas may grant a variance from any requirement of these rules.

ORDER

It is ordered that the Class L cement product approved and monogramed by API is approved for use in place of API Class A cement for well construction subject to the provisions of Legislative Rule 35CSR4 and Legislative Rule 35CSR8.

Dated this, the 13th day of September, 2022.

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 RECEIVED
Office of Oil and Gas

FEB 09 2024



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

February 1, 2024

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

Re: Casing on Vanderbilt 2H

Dear Mr. Brewer,

The 13-3/8" surface casing will be set at 1,238' KB, 50' below the deepest workable coal seam and 734' below the deepest fresh water. The 9-5/8" intermediate string will be set at 2,685' KB, 50' below the base of the Big Injun formation.

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

Sincerely,

John Zavatchan

Project Specialist - Permitting

Enc.

Office of Oil and Gas

FEB 09 2024

WV Departmental Protection

WEST VIRGINIA GEOLOGICAL PROGNOSIS

VANDERBILT

API S-001217

Drilling Objectives:

Marcellus

County: Quad:

Marion Glover Gap

Elevation: Recommended Azimuth 1368 KB 153 Degrees 1355 GL

Recommended LP to TD: #REF!

Top RR Base RR No red rock listed in offsets

ESTIMATED FORMATION TOPS

Based on GLO76 Pilot hole 4704902329

ESTIMATED FORMATION TOTS	Das	sed on OLO70 I not note 4704702327	
Formation	Top (TVD)	Base (TVD) Lithology	Comments
Fresh Water Zone	1	504	FW @ 253,504, , , ,
Pittsburgh Coal	1181	1188 Coal	Solid coal within an active mining boundary
Big Lime	2458	2527 Limestone	SW @
Big Injun	2527	2635 Sandstone	Gas / Oil
Int. csg pt	2685		
Gantz	3122	3210 Sandstone	Gas / Oil
50F	3210	3445 Silty Sand	Storage?
Fifth Sand	3445	3492 Silty Sand	
Bayard	3492	5937 Silty Sand	Base of Offset Well Perforations at 3268' TVD
Alexander	5937	6363 Silty Sand	
Elks	6363	7240 Gray Shales and Silts	
Sonyea	7240	7401 Gray shale	
Middlesex	7401	7455 Shale	
Genesee	7455	7547 Gray shale interbedde	d
Geneseo	7547	7579 Black Shale	
Tully	7579	7606 Limestone	
Hamilton	7606	7707 Gray shale with some	
Marcellus	7707	7763 Black Shale	
Purcell	7726	7728 Limestone	
-Lateral Zone	7735		Start Lateral at 7735'
Cherry Valley	7742	7744 Limestone	
Onondaga	7763	Limestone	
	- FA 17 - 17 -		Pilot hole not needed on this well

56 feet Target Thickness

Comments:

Intermediate casing point is recommended beneath the Big Injun to shut off any water production from the Upper Devonian sands. Intermediate casing should be cemented into the surface string, per WV regulations.

RECOMMENDED CAS	SING POINTS	ì
-----------------	-------------	---

Fresh Water/Coal	CSG OD	13 3/8
Intermediate 1:	CSG OD	9 5/8
Production:	CSG OD	5 1/2

WV Department of Environmental Protection

RECEIVED e of Oil and Gas 09

CSG DEPTH: CSG DEPTH: CSG DEPTH:

@ TD

1238 2685

Beneath theBig Injun formation

Wellbore Diagram **EQT Production** County: Marion Well: Vanderbilt 2H Vanderbilt State: West Virginia Pad: Elevation: 1355' GL 1368' KB 4704902534 Conductor @ 53' 26", 85.6#, A252, cement to surface w/ Class A/L **Surface** 1,238' @ 13-3/8", 54.5#, J-55, cement to surface w/ Class A/L Intermediate 2,685' @ 9-5/8", 36#, J-55, cement to surface w/ Class A/H/L RECEIVED Office of Oil and Gas FEB 09 2024 WV Departmen of Environmental Projection 9,230' MD / 7,734' TVD **Production** 6", 24#, P-110, cement to 500' inside 9-5/8" w/ Class A/H/L Formation: Marcellus 04/07/2024CALE

Commission number 1359968

Member, Pennsylvania Association of Notaries

WW-9 (4/16)

API Number 47 -	
Operator's Well No	Vanderbilt 2H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

FLUIDS/ CUTTINGS DISPOS	AL & RECLAMATION PLAN
Operator Name_EQT Production Company	OP Code 306686
Watershed (HUC 10) Evans Run & Buffalo Creek	Quadrangle Glover Gap
Do you anticipate using more than 5,000 bbls of water to complete	e 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 N	No If so, what ml.? N/A
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
Underground Injection (UIC Permit N Reuse (at API Number Various	umber0014, 8462, 4037
Off Site Disposal (Supply form WW-9	for disposal location)
Other (Explain_	
Vos. The closed los	a contact will account della contact the della of the della contact and
Will closed loop system be used? If so, describe: then prepared for tr	p system will remove drill cuttings from the drilling fluid. The drill cuttings are ansportation to an off-site disposal facility.
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	netic Mud RECEIVED
Additives to be used in drilling medium? See Attached	Office of Oil and Gas
Drill cuttings disposal method? Leave in pit, landfill, removed of	fsite, etc. Landfill FEB 0 9 2024
-If left in pit and plan to solidify what medium will be us	ed? (cement lime cawdust) N/A
-Landfill or offsite name/permit number? See Attached Lie	wy Department of
Permittee shall provide written notice to the Office of Oil and Gas West Virginia solid waste facility. The notice shall be provided where it was properly disposed.	
on August 1, 2005, by the Office of Oil and Gas of the West Virging provisions of the permit are enforceable by law. Violations of a law or regulation can lead to enforcement action. I certify under penalty of law that I have personally exapplication form and all attachments thereto and that, based of	ditions of the GENERAL WATER POLLUTION PERMIT issued nia Department of Environmental Protection. I understand that the ny term or condition of the general permit and/or other applicable examined and am familiar with the information submitted on this on my inquiry of those individuals immediately responsible for exaccurate, and complete. I am aware that there are significantly of fine or imprisonment.
Subscribed and sworn before me this day of	20 24
are win	Notary Public
My commission expires Off: 25, 2027	Commonwealth of Pennsylvania - Notary Olivia Wilson, Notary Public Allegheny County My community in explain 24 ober 25, 2

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 or synthetic based mud may be necessary depending on hole conditions to stabilize and drill the intermediate section. The pilot hole, curve, and lateral sections will be drilled with either air, water-based mud, or synthetic mud.

Additives to be used in drilling medium?

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

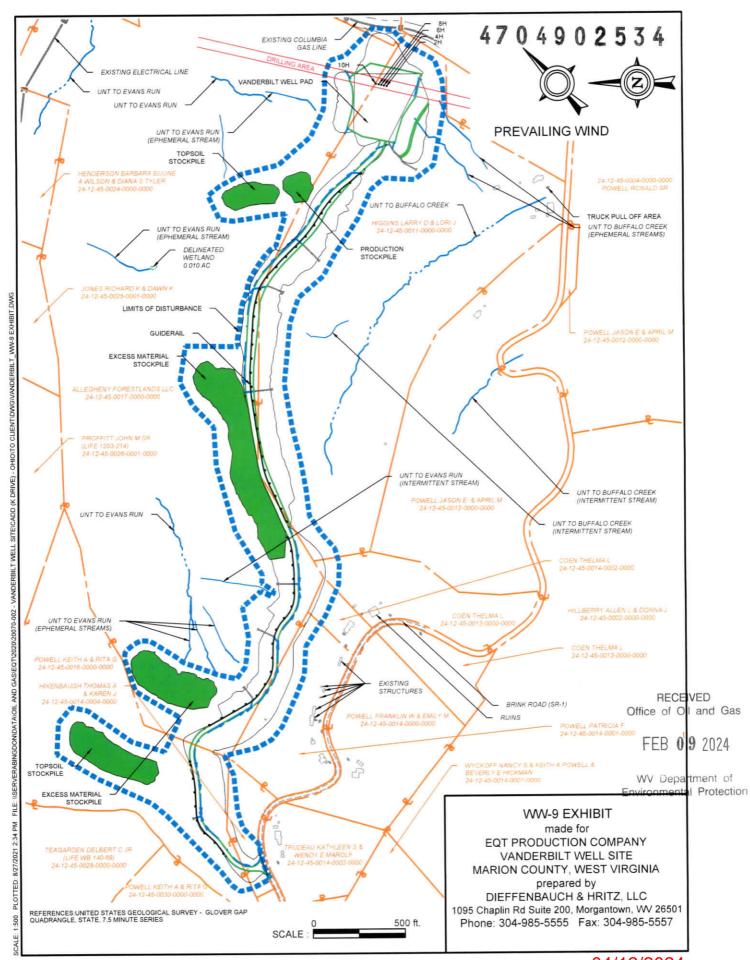
RECEIVED
Office of Oil and Gas

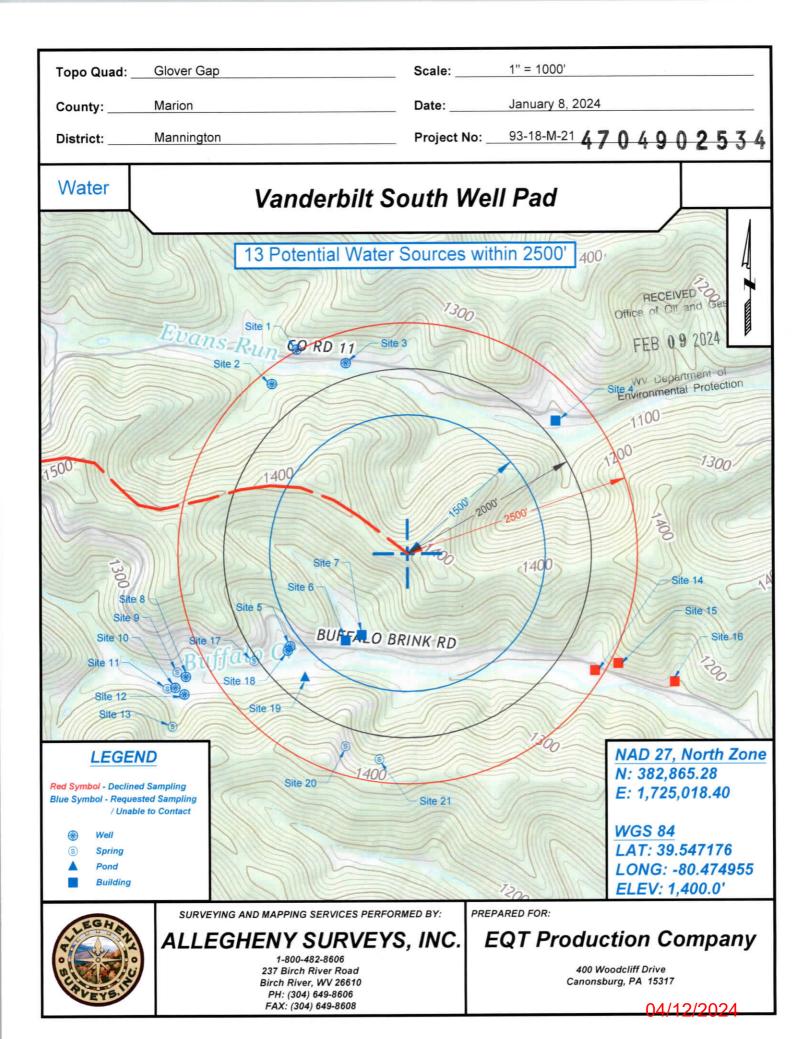
FEB **09** 2024

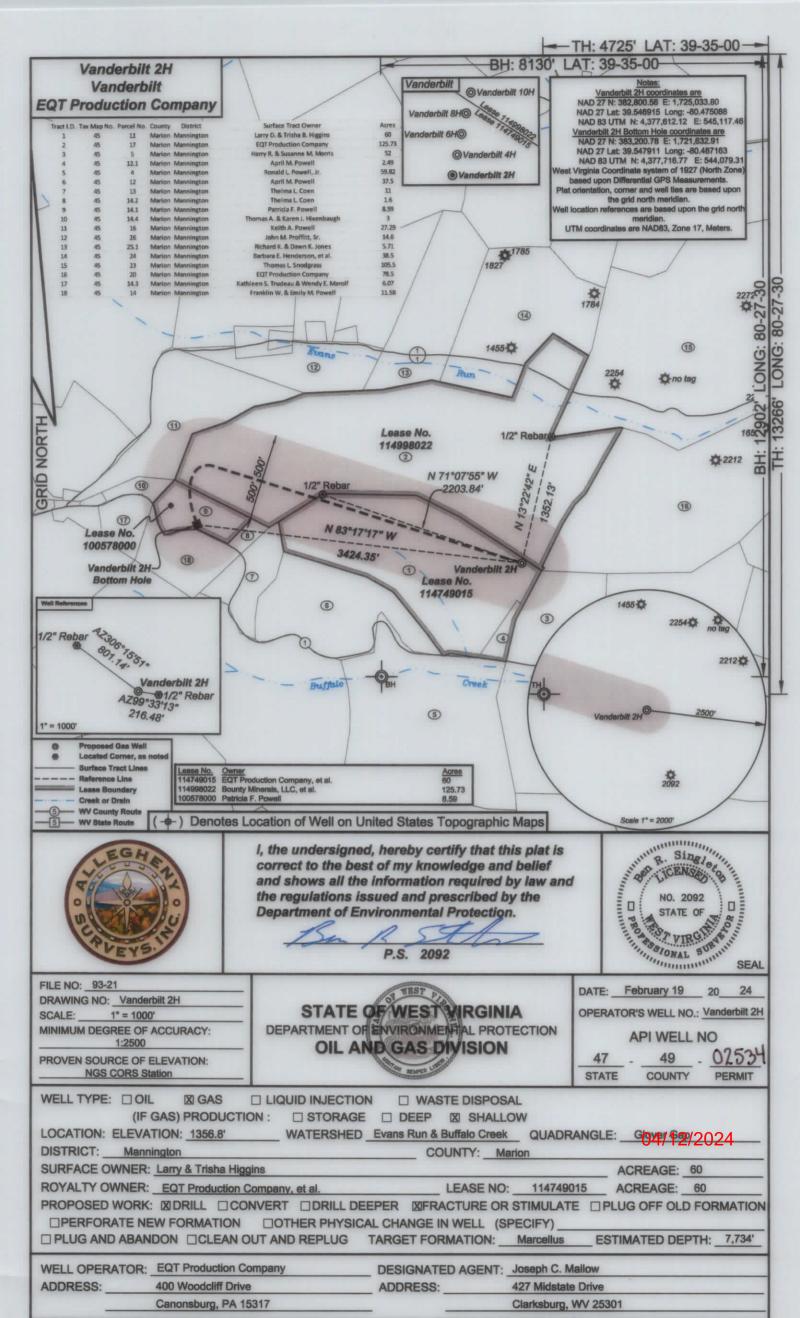
4/04902554

Operator's Well No. Vanderbilt 2H

Proposed Revegetation Trea	atment: Acres Disturbed	Prevegetation pl	1
	Tons/acre or to correct to pH		
Fertilizer type Gra			
	-00	acre /	
	Tons/ac	re	
	Seed	<u>Mixtures</u>	
Te	emporary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		
Maps(s) of road, location, provided). If water from the acreage, of the land applicat			
provided). If water from the acreage, of the land applicate Photocopied section of involved by: Plan Approved by: Comments: Pre-seed	pit will be land applied, include diminarea lved 7.5' topographic sheet. / will be land applied, include diminarea // will be land applied, include diminarea / mulch all disturbed are	as as soon as reasona	ably possible,
Maps(s) of road, location, piprovided). If water from the acreage, of the land applicate Photocopied section of involved Plan Approved by: Comments: Pre-seed	pit will be land applied, include dim ion area lved 7.5' topographic sheet.	as as soon as reasona	ably possible,
Maps(s) of road, location, piprovided). If water from the acreage, of the land applicate Photocopied section of involved Plan Approved by: Comments: Pre-seed	pit will be land applied, include diminarea lved 7.5' topographic sheet. / will be land applied, include diminarea // will be land applied, include diminarea / mulch all disturbed are	as as soon as reasona	ably possible, Manual.
Maps(s) of road, location, piprovided). If water from the acreage, of the land applicate Photocopied section of involved Plan Approved by: Comments: Pre-seed	pit will be land applied, include diminarea lved 7.5' topographic sheet. / will be land applied, include diminarea // will be land applied, include diminarea / mulch all disturbed are	as as soon as reasona	ably possible, Manual. RECEIVED Gas FEB 09 2024
Maps(s) of road, location, piprovided). If water from the acreage, of the land applicate Photocopied section of involved Plan Approved by: Comments: Pre-seed	pit will be land applied, include diminarea lved 7.5' topographic sheet. / will be land applied, include diminarea // will be land applied, include diminarea / mulch all disturbed are	as as soon as reasona ary per WV DEP E&S	ably possible, Manual. RECEIVED Gas FEB 09 2024
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Maps(s) of road, location, piprovided). If water from the acreage, of the land applicate Photocopied section of involved Plan Approved by: Comments: Pre-seed	pit will be land applied, include diminarea lved 7.5' topographic sheet. /mulch all disturbed are pgrade E&S as necess	as as soon as reasona ary per WV DEP E&S	ably possible, Manual. RECEIVED Gas FEB 9 2024 WV Department of Protection







WW-6A1 (5/13)

Operator's Well No. Vanderbilt 2H

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

RECEIVED Office of Oil and Gas

WV Department of Environmental Protection

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

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

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

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

Well Operator: EQT Production Company

By:

John Zavatchan

Its:

Project Specialist - Permitting

Page 1 of 2

Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
114749015	EQT Production Company, et al.			"at least 1/8th per WV Code 22-6-8"	
212 1111	Ascent Resources Marcellus Minerals, LLC	60 ac	EQT Production Company		DB 1204/61
114998022	Bounty Minerals, LLC, et al.			"at least 1/8th per WV Code 22-6-8"	
11.1000	Bounty Minerals, LLC	125.73 ac	Antero Resources Corporation		DB 1223/161
	Antero Resources Corporation		EQT Production Company		AB 56/332
100578000	Patricia F. Powell			"at least 1/8th per WV Code 22-6-8"	
100010000	Patricia Ellen Powell, a/k/a Patricia F. Powell, widow	8.59 ac	EQT Production Company		DB 1168/146

WV Department A Environmental Protection

Office of Oil and Gass
FEB 0 9 2024



EQT PRODUCTION COMPANY 400 Woodcliff Drive | Canonsburg, PA 15317

February 1, 2024

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

Re: Vanderbilt 2H Gas Well

Mannington District, Marion 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

RECEIVED
Office of Oil and Gas

FEB 09 2024

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

ADING 47

Date of Notic	ce Certification: 02/22/2024	A	PI No. 47	'- <u></u>	
	Operator's Well No. 2H			<u> </u>	
		v	Vell Pad N	ame: Vanderb	ilt
Notice has l					
	ne provisions in West Virginia Code §	22-6A, the Operator has provide	ded the req	uired parties w	ith the Notice Forms listed
	tract of land as follows:	_	_		
State:	West Virginia		Easting:	545117.459	
County:	Marion		Northing:	4377612.121	
District:	Mannington	Public Road Acces		CR-1	
Quadrangle:	Glover Gap	Generally used farr	m name:	Vanderbilt (Larry & Tri	sha Higgins)
Watershed:	Evans Run & Buffalo Creek				
information r of giving the requirements Virginia Cod	ed the owners of the surface described equired by subsections (b) and (c), see surface owner notice of entry to surface owner notice of experience of subsection (b), section sixteen or eş 22-6A-11(b), the applicant shall thave been completed by the applicant	ection sixteen of this article; (ii) drivey pursuant to subsection (a) of this article were waived in we ender proof of and certify to the	that the really, section to writing by	quirement was en of this arti- the surface ov	deemed satisfied as a resul- cle six-a; or (iii) the notice ovner; and Pursuant to Wes
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the require ECK ALL THAT APPLY		s Notice C	ertification	OOG OFFICE USE ONLY
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRE SEISMIC ACTIVITY WAS			RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	/EY or 🔳 NO PLAT SURVE	Y WAS CO	ONDUCTED	☐ RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRE NOTICE OF ENTRY FOR PI			RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER BY (PLEASE ATTACH)	Y SURFA	CE OWNER	_
■ 4. NO	TICE OF PLANNED OPERATION		RECE	gir and Gas	RECEIVED
■ 5. PUI	BLIC NOTICE	(9 2024	RECEIVED
■ 6. NO	TICE OF APPLICATION		• -		Z RECEIVED
	· · · · · · · · · · · · · · · · · · ·		MA Dal	ntal Protection	
		1	Environme	ntal Floreons	

Required Attachments:

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

Certification of Notice is hereby given:

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

Address:

Well Operator: EQT Production Company

John Zavatchan

By: John
Its: Proje

Project Specialist - Permitting

Telephone:

724-746-9073

400 Woodcliff Drive

Canonsburg, PA 15317

Facsimile: 412-395-2974

Email: jzavatchan@eqt.com

Commonwealth of Pennsylvania - Notary Seal Olivia Wilson, Notary Public Allegheny County

My commission expires October 25, 2027 Commission number 1359968

Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this

Notary Public

My Commission Expires

Expires 04. 25, 200

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.

Office of Oil and Ges

FEB 09 2024

API NO. 47-OPERATOR WELL NO. 2H Well Pad Name: Vanderbilt

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

Noti	ce Time Requirement: notice	e shall be provided no late	er than the filing date of permit application.	
Date	e of Notice: 2/21/2024 Date I	Permit Application Filed:	2/22/2024	
Noti	ce of:			
V	PERMIT FOR ANY	☐ CERTIFICATE OF	APPROVAL FOR THE	
_	WELL WORK		OF AN IMPOUNDMENT OR PIT	
Deli	very method pursuant to W	est Virginia Code § 22-6	A-10(b)	
	PERSONAL	GISTERED	ETHOD OF DELIVERY THAT REQUIRES A	
	SERVICE MA		ECEIPT OR SIGNATURE CONFIRMATION	
regis sedin the soil a desc oper more well impo have prov prop subs reco prov Cod	attered mail or by any method of ment control plan required by sourface of the tract on which the and gas leasehold being develop- ribed in the erosion and sedime attor or lessee, in the event the to- e coal seams; (4) The owners of work, if the surface tract is to be condument or pit as described in a water well, spring or water so ide water for consumption by hosed well work activity is to ta- ection (b) of this section hold it reds of the sheriff required to be ision of this article to the control e R. § 35-8-5.7.a requires, in p	f delivery that requires a rec- section seven of this article, e well is or is proposed to b- bed by the proposed well we ent control plan submitted p tract of land on which the w- if record of the surface tract be used for the placement, con- section nine of this article; supply source located within humans or domestic animals ake place. (c)(1) If more than interests in the lands, the ap- er maintained pursuant to sec- rary, notice to a lien holder in part, that the operator shall a	or pit as required by this article shall deliver, by persone the person separation of the application and the well plat to each of the following persons: (1) the located; (2) The owners of record of the surface tractors, if the surface tract is to be used for roads or other surface tractors, if the surface tract is to be used for roads or other surface tractors, if the surface tract is to be used for roads or other surface tract is to be used for roads or other surface tracts overlying the oil and gas leasehold being development of the surface owner or water purveyor who is known to suffer the surface owner or water purveyor who is known to suffer the operator of any natural gas storage field in three tenants in common or other co-owners of interestion eight, article one, chapter eleven-a of this code. (2) is not notice to a landowner, unless the lien holder is the sting as provided in section 15 of this rule.	on, the erosion and The owners of record of t or tracts overlying the land disturbance as (3) The coal owner, be underlain by one or eloped by the proposed or abandonment of any on to the applicant to ell pad which is used to within which the ests described in reson described in the 2) Notwithstanding any ne landowner. W. Va.
	Application Notice ☑ WSSI JRFACE OWNER(s)	P Notice	otice ☑ Well Plat Notice is hereby provided to: ☑ COAL OWNER OR LESSEE	Office of OF
— Nan	ne: See Attached List		Name: See Attached List	FEB 09 2024
Add	ress:		Address:	L CD O COC.
Nan			☐ COAL OPERATOR	WV Department of
Add	ress:		Name: See Attached List	Environmental Protectio
_	URFACE OWNER(s) (Road	and/or Other Disturbance)		
	ne: See Attached List		☑ SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)	
Add	ress:		Name: See Attached List	
Nan	ne:		Address:	
Add	ress:			
	URFACE OWNER(s) (Impou		OPERATOR OF ANY NATURAL GAS S	
	ne:		Name: Address:	
Add	ress:			
			*Please attach additional forms if necessary	

4704902534
API NO. 47OPERATOR WELL NO. 2H
Well Pad Name: Vanderbilt

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 with 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 24 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 structure request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

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

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

4704902534
API NO. 47OPERATOR WELL NO. 24

Well Pad Name: Vanderbilt

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 to the application of the applicant's proposed well work to the Secretary at:

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

FEB 09 2024

WV Department of Environmental Protection

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

API NO. 4-7 0 4 9 0 2 5 3 4

OPERATOR WELL NO. 2H
Well Pad Name: Vanderbilt

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

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

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

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

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

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API NO. 47-____OPERATOR WELL NO. 2H
Well Pad Name: Vanderbilt

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@wv.gov.

Commonwealth of Pennsylvania - Notary Seal Olivia Wilson, Notary Public Allegheny County My commission expires October 25, 2027 Commission number 1359968

Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this and day of how, he had a sworn before me this and day of how had a sworn befor

My Commission Expires ()

Notary Public

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FEB 09 2024

Vanderbilt

Surface Owners (All Disturbance):

- Thomas A. Hixenbaugh and Karen J. Hixenbaugh
 P.O. Box 77
 Barrackville, WV 26559
- Keith Powell
 3898 Buffalo Brink Road
 Mannington, WV 26582
- Patricia F. Powell
 3790 Buffalo Brink Road
 Mannington, WV 26582
- Thelma Coen
 3734 Buffalo Brink Road
 Mannington, WV 26582
- Larry and Trisha Higgins
 3418 Buffalo Brink Road
 Mannington, WV 26582

Water Supply Owners within 1,500':

Larry and Trisha Higgins
 3418 Buffalo Brink Road
 Mannington, WV 26582

Coal Owners:

- MINCO I, Inc.
 c/o The Prentice-Hall Corporation System, Inc.
 251 Little Falls Drive
 Wilmington, DE 19808
- Larry and Trisha Higgins 3418 Buffalo Brink Road Mannington, WV 26582
- Susan Powell Wyckoff PO Box 751 Granville, WV 26534

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FEB 09 2024

- Jennifer Lynn Huey 1111 Ridgewood Road Fairmont, WV 26554
- Jefry Louis Huey
 6434 Kenhowe Drive
 Bethesda, MD 20817-5446

Coal Lessee:

 Consolidation Coal Company 46226 National Road West St. Clairsville, OH 43950

Coal Operator:

Harrison County Coal Resources, Inc.
 Attn: Steve Bair
 46226 National Road West
 St. Clairsville, OH 43950

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FEB 09 2024

Canonsburg, PA 15317

04/12/2024

Topo Quad: ___ Glover Gap Scale: 1" = 1000' January 8, 2024 County: ____ Marion Date: Mannington Project No: 93-18-M-21 District: Water Vanderbilt South Well Pad 13 Potential Water Sources within 2500' 400 Evans-Run GO RD 11 Site 2 RECEIVED Office of Oil and Gas 1100 FEB 09 2024 Wy Department of Environmental Protection 2000 Site 6 Site 5 Site 15 Site 9 BUFFALO BRINK RD Site 10 Site 16 Site 11-Site 18 Site 12 Site 19 Site 13 NAD 27, North Zone LEGEND N: 382,865.28 Site 20 Red Symbol - Declined Sampling E: 1,725,018.40 Blue Symbol - Requested Sampling Site 21 / Unable to Contact WGS 84 Well LAT: 39.547176 Spring Pond LONG: -80.474955 Building ELEV: 1,400.0' SURVEYING AND MAPPING SERVICES PERFORMED BY: PREPARED FOR: ALLEGHENY SURVEYS, INC. EQT Production Company 1-800-482-8606 400 Woodcliff Drive 237 Birch River Road

Birch River, WV 26610

PH: (304) 649-8606 FAX: (304) 649-8608 WW-6A4 (1/12)

4704902534

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

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

receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land drilling a horizontal well: <i>Provided</i> , That notice given pursuant to subsection (a), section ten of this article satisfies of this subsection as of the date the notice was provided to the surface owner: <i>Provided</i> , <i>however</i> , That the notice resubsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, and if available, facsimile number and electronic mail address of the operator and the operator's authorized represent Notice is hereby provided to the SURFACE OWNER(s): Name: See Attachment	d for the purpose of es the requirements requirements of this , telephone number,
Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by c receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land drilling a horizontal well: <i>Provided</i> , That notice given pursuant to subsection (a), section ten of this article satisfie of this subsection as of the date the notice was provided to the surface owner: <i>Provided</i> , <i>however</i> , That the notice resubsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, and if available, facsimile number and electronic mail address of the operator and the operator's authorized represent. Notice is hereby provided to the SURFACE OWNER(s): Name: See Attachment Name: Address: Address:	d for the purpose of es the requirements requirements of this telephone number, ntative. RECEIVED ffice of Oil and Gas
subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, and if available, facsimile number and electronic mail address of the operator and the operator's authorized represent Notice is hereby provided to the SURFACE OWNER(s): Name: See Attachment Name:	d for the purpose of es the requirements requirements of this telephone number, ntative. RECEIVED ffice of Oil and Gas
Name: See Attachment Name: Address: Address: Notice is hereby given: Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an Equation 1.	ffice of Oil and Gas
Name: See Attachment Name: Address: Address: Notice is hereby given: Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an Equation 1.	
Address:	FEB 09 2024
Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an En	
State: West Virginia UTM NAD 83 Easting: 545117.46 County: Marion Public Road Access: CR-1 Quadrangle: Glover Gap Generally used farm name: Vanderbilt Watershed: Evans Run & Buffalo Creek	Wy Department of Protection with to enter upon
This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number facsimile number and electronic mail address of the operator and the operator's authorized representative. Add related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection at 601 57 th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/parameters	ditional information ection headquarters,
Notice is hereby given by:	
Well Operator: EQT Production Company Authorized Representative: John Zavatchan	
Address: 400 Woodcliff Drive Address: 400 Woodcliff Drive	
Canonsburg, PA 15317 Canonsburg, PA 15317	
Telephone: 412-584-3132 Telephone: 412-584-3132	
Email: JZavatchan@eqt.com Email: JZavatchan@eqt.com	
Facsimile: 412-395-2974 Facsimile: 412-395-2974	

Oil and Gas Privacy Notice:

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

Vanderbilt

Surface Owners (All Disturbance):

- Thomas A. Hixenbaugh and Karen J. Hixenbaugh P.O. Box 77 Barrackville, WV 26559
- Keith Powell 3898 Buffalo Brink Road Mannington, WV 26582
- Patricia F. Powell 3790 Buffalo Brink Road Mannington, WV 26582
- Thelma Coen 3734 Buffalo Brink Road Mannington, WV 26582
- Larry and Trisha Higgins * 3418 Buffalo Brink Road Mannington, WV 26582
- EQT Production Company 400 Woodcliff Drive Canonsburg, PA 15317

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^{*}An additional 6A4 form was sent to Larry and Trisha Higgins with the 6A and 6A5 notification. The address was the same.

WW-6A5 (1/12)

STATE OF WEST VIRGINIA 4704902534 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 02/21/2024 Date Permit Application Filed: 02/22/2024 Delivery method pursuant to West Virginia Code § 22-6A-16(c) ☐ HAND CERTIFIED MAIL DELIVERY RETURN RECEIPT REQUESTED Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice. Notice is hereby provided to the SURFACE OWNER(s) (at the address listed in the records of the sheriff at the time of notice): Name: See Attached List Name: Address: Address: Notice is hereby given: Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: West Virginia Easting: 545117.459 State: UTM NAD 83 Northing: 4377612.121 County: Marion District: Mannington Public Road Access: CR-1 Generally used farm name: Vanderbilt (Larry & Trisha Higgins) Quadrangle: Glover Gap Watershed: Evans Run & Buffalo Creek This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-andgas/pages/default.aspx. Well Operator: EQT Production Company Address: 400 Woodcliff Drive Telephone: 724-746-9073 Canonsburg, PA 15317

Oil and Gas Privacy Notice:

jzavatchan@eqt.com

Email:

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.

Facsimile: 412-395-2974

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Vanderbilt

Surface Owners (All Disturbance):

- Thomas A. Hixenbaugh and Karen J. Hixenbaugh
 P.O. Box 77
 Barrackville, WV 26559
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- Patricia F. Powell
 3790 Buffalo Brink Road
 Mannington, WV 26582
- Thelma Coen
 3734 Buffalo Brink Road
 Mannington, WV 26582
- Larry and Trisha Higgins / 3418 Buffalo Brink Road Mannington, WV 26582
- EQT Production Company / 400 Woodcliff Drive Canonsburg, PA 15317

Office of Oil and Gas

FEB 09 2024



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways Office of the District Engineer/Manager

District Four Post Office Box 4220 · Clarksburg, West Virginia 26302 · (304) 842-1500

Alanna J. Keller, P.E. Deputy Secretary of Transportation Deputy Commissioner of Highways

Jimmy Wriston, P. E. Secretary of Transportation Commissioner of Highways

January 9, 2024

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

Subject: DOH Permit for the Vanderbilt Well Pad, Marion County Vanderbilt 2H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2021-0331 which has been issued to EQT Production Company for access to the State Road for a well site located off Marion County Route 1 SLS MP 0.178.

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 March 6, 2023. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Stephen G. Johnson, P.E. Director of Operations

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FEB 09 2024

WV Department of Environmental Protection

Cc: John Zavatchan

EQT Production Company

OM, D-4 File

Anticipated Frac Additives Chemical Names and CAS Numbers

<u>Material</u>	Ingredient	CAS Number
Sand (Proppant)	Silica Substrate	14808-60-7
Water	Water	7732-18-5
Hydrochloric Acid (HCI)	Hydrogen Chloride	7647-01-0
Friction Reducer	Copolymer of 2-propenamide	Proprietary
	Petroleum Distillate	64742-47-8
	Oleic Acid Diethanolamide	93-83-4
	Alcohols, C12-16, ethoxylated	68551-12-2
	Ammonium chloride ((NH4)Cl)	12125-02-9
Biocide	Glutaraldehyde	111-30-8
	Alkyl dimethyl benzyl ammonium chloride	68391-01-5
	Didecyl dimethyl ammonium chloride	7173-51-5
	Non-hazardous substances	Proprietary
Scale Control	Bis(HexaMethylene Triamine Penta(Methylene Phosphonic Acid)(BHMT)	34690-00-1
	Non-hazardous substances	Proprietary
Acid Chelating Agent	Ferriplex 66	
	Citric Acid	77-92 - 9
	Acetic Acid	64-19-7
Corrosion Inhibitor	PLEXHIB 166	
	Methanol	67-56-1
	Alcohols, C14-15, ethoxylated	68951-67-7

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FEB **09** 2024

WW-6A7 (6-12)

Well

OPERATOR: EQT Production Company	WELL NO: 2H
PAD NAME:_ Vanderbilt	- 0.000
REVIEWED BY: John Zavatchan	SIGNATURE:

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

Restri	ictions	
√	At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR	
	DEP Waiver and Permit Conditions	
✓	At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR	
	DEP Waiver and Permit Conditions	
\checkmark	At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to an Groundwater Intake or Public Water Supply; OR	У
	DEP Waiver and Permit Conditions	
√	At Least 250 Feet from an Existing Water Well or Developed Spring to Well Bein Drilled; OR	g
	Surface Owner Waiver and Recorded with County Clerk, OR	RECEIVED fice of Oil and Gas
	DEP Variance and Permit Conditions	FEB 09 2024
\checkmark	At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; ORV	V Department of onmental Protection
	Surface Owner Waiver and Recorded with County Clerk, OR	
	DEP Variance and Permit Conditions	
\checkmark	At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the of the Pad; OR	e Center
	Surface Owner Waiver and Recorded with County Clerk, OR	
	DEP Variance and Permit Conditions	