

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, November 15, 2021 WELL WORK PERMIT Horizontal 6A / New Drill

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

Re: Permit approval for VANDERBILT 8H

47-049-02509-00-00

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 8H

Farm Name: LARRY HIGGINS & EVA HIG

Chief

U.S. WELL NUMBER: 47-049-02509-00-00

Horizontal 6A New Drill Date Issued: 11/15/2021

API Number:	

PERMIT CONDITIONS

4704902509

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

CONDITIONS

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

API Number:	

PERMIT CONDITIONS

4704902509

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.

API NO. 47	4	7	<u>.</u>	4	9	Ü	2	5	Ø	9
OPERATO	OR 1	WI	ELL	N)	ВН				_
Well Pag	d N	am	ıe:	Van	derb	ilt				_

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

1) Well Operator:	EQT Prod	duction Co	mpany	306686	Marion	Mannington	Glover Gap
-				Operator ID	County	District	Quadrangle
2) Operator's Wel	l Number: 5	BH		Well Pad	Name: Vande	erbilt	
3) Farm Name/Sur	rface Owner	Larry D. &	Trisha B. H	liggins Public Road	d Access: CR-	1	
4) Elevation, curre	nt ground:	1396'	Ele	evation, proposed p	oost-construction	on: 1396'	
,) Gas <u>X </u>	<u>-</u>	Oil	Unde	rground Storag	e	
(b	•	•	X X	Deep			
6) Existing Pad: Y							
7) Proposed Targe Marellus, 7,700'			s), Antici	ipated Thickness a	nd Expected Pr	essure(s):	
8) Proposed Total	Vertical De	pth: 7,700)'	_			
9) Formation at To			larcellus				
10) Proposed Tota	l Measured	Depth: 8	758'				
11) Proposed Hori	zontal Leg	Length: 5	74'				
12) Approximate l	Fresh Water	Strata Dep	ths:	253', 504'			
13) Method to Det			- Puilo.	Offset Wells			
15) Approximate	Coal Seam	Depths: 1,1	182'-1 <u>,</u> 18	38'			
				ne, karst, other):	180'		
17) Does Proposed directly overlying				ns Yes X	No		
(a) If Yes, provide	de Mine Inf	o: Name:	Harri	son Co. Mine			
() , <u>*</u> · · ·		Depth:	180'				
		Seam:	Pittsk	ourgh			
		Owner:	ACN	R Resources, Inc	•		

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WW-6B (04/15)

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	1238	1238	1000 ft^3 / CTS
Coal							
Intermediate	9 5/8	New	J-55	36	2650	2650	1000 ft^3 / CTS
Production	5 1/2	New	P-110	20	8758	8758	500' above intermediate casing
Tubing							
Liners							4

Buyan Harm 8.31.21

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

WW-6B (10/14) API NO. 47-___OPERATOR WELL NO. 8H
Well Pad Name: Vanderbilt

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

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

Office:

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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
- 22) Area to be disturbed for well pad only, less access road (acres): 8.44 Acres
- 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.

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

Conductor: Class A no additives

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

Production: Calcium Carbonate, Fluid Loss, Extender, Dispersent, Viscosifier, Defoamer, POZ, 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 surface.

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

^{*}Note: Attach additional sheets as needed.



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

March 18, 2014

Nabors Completion & Production Services Company 1380 Route 286 Hwy E #121 Indiana PA 15701

Re: Cement Variance Request

Dear Sir or Madam,

This agency is approving a variance request for the cement blend listed below to be used on surface and coal protection strings for the drilling of oil and gas wells in the state of West Virginia. The variance cannot be used without requesting its use on a permit application and approval by this agency:

Type 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.

Sincerela

James Peterson

Environmental Resources Specialist / Permitting

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WV Department of Environmental Protection

Promoting a healthy environment.



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

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

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

REPORT OF THE OFFICE

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

FINDINGS OF FACT

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

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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

OCT. 12 2021



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

August 30, 2021

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

Re: Casing on Vanderbilt 8H

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 2,650' 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 VANDERBILT

API

Drilling Objectives: County: Quad:

Recommended Azimuth

Elevation:

Marcellus Marion Glover Gap

1368 KB #N/A Degrees

1355 GL

Recommended LP to TD: #N/A

ESTIMATED FORMATION TOPS	Ba	ased on GLO76 Pilo	t hole 4704902329		
Formation	Top (TVD)	Base (TVD)	Lithology	Comments	Top RR Base RR
Fresh Water Zone	1	504		FW (a) 253,504	No red rock listed in offse
Pittsburgh Coal	1182	1188 Co	al	Solid coal within an active mining boundary	
Big Lime	2423	2492 Lin	nestone	SW w	
Big Injun	2492	2600 Sar	ndstone	Gas / Oil	
Int. esg pt	2650				
Gantz	3087	3175 Sat	ndstone	Gas / Oil	
50F	3175	3410 Sil	ty Sand	Storage?	
Fifth Sand	3410	3457 Sil	ty Sand		
Bayard	3457	5902 Sil	ty Sand	Base of Offset Well Perforations at 3268' TVD	1
Alexander	5902	6328 Sil	ty Sand		A 142
Elks	6328	7205 Gr	ay Shales and Silts		N.
Sonyea	7205	7366 Gr	ay shale		1 1
Middlesex	7366	7420 Sh	ale		
Genesee	7420	7512 Gr	ay shale interbedded		
Geneseo	7512	7544 Bla	ack Shale		
Tully	7544	7571 Lir	nestone		1
Hamilton	7571	7672 Gr	ay shale with some		
Marcellus	7672	7728 Bla	ick Shale		
Purcell	7691	7693 Lir	nestone		
-Lateral Zone	7700			Start Lateral at 7700'	
Cherry Valley	7707	7709 Lir	nestone		
Onondaga	7728	Lir	nestone		
				Pilot hole not needed on this well	

Target Thickness Comments: 56 feet

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 CASING POINTS

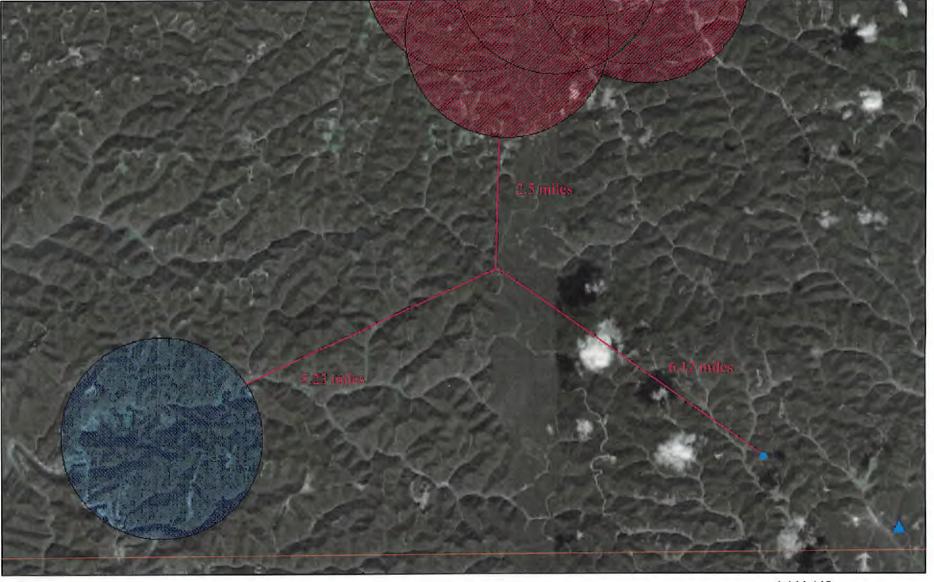
CSG DEPTH: 1238 Fresh Water/Coal CSG OD 13 3/8 Beneath the Big Injun formation CSG DEPTH: Intermediate 1: CSG OD 9 5/8 5 1/2 2650 CSG DEPTH: @ TD CSG OD Production:

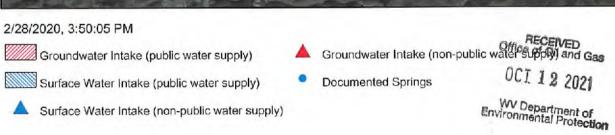
RECEIVED Office of Oil and Gas

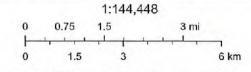
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EQT Production Wellbore Diagram Well: Vanderbilt 8H County: Marion Pad: Vanderbilt West Virginia State: Elevation: 1355' GL 1368' KB 40' Conductor @ 26", 85.6#, A-500, cement to surface w/ Class A Surface 1,238' @ 13-3/8", 54.5#, J-55, cement to surface w/ Class A/Type I RECEIVED
Office of Oil and Gas OCT 12 2021 WV Department of Environmental Protection 2,650' Intermediate 9-5/8", 36#, J-55, cement to surface w/ Class A/Type I **Production** 8,758' MD / 7,700' TVD @ 5-1/2", 20#, P-110, cement to 500' inside 9-5/8" w/ Class A/H Formation: Marcellus 11009/208CALE

ArcGIS Web Map







Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus

Web AppBuilder for ArcGIS see layers | USDA FSA, Earthstar Geographics |

02509

EQT Production

Hydraulic Fracturing Monitoring Plan

Pad ID: Vanderbilt

County: Marion

September 1, 2021

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WV Department of Environmental Protection

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Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in 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

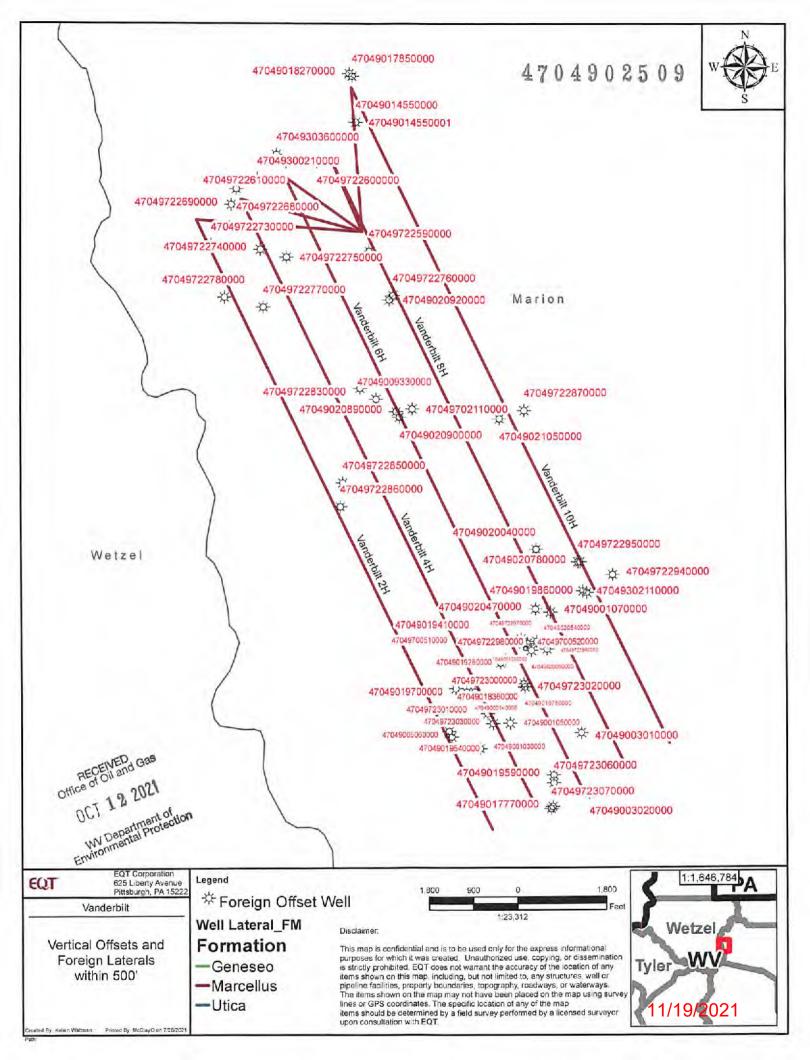
EQT will provide information relating to the hydraulic fracturing schedule, communication with other operators, and ongoing monitoring of the work upon request of OOG or immediately in the event of any noted abnormalities.



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TOT_DEPTH 3700.00 3308.00 3368.00 2489.00 3342.00 1600.00 310.00 1565.00 1565.00	1386.00 1535.00 3150.00 1500.00 2300.00 3456.00 31251.00 2341.00	00000000000000000000000000000000000000	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
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ABAND_DATE CURR_OPER GALLATIN FUELS INC GALLATIN FUELS INC 7/22/2008 SOUTH PENN OIL 7/23/2008 SOUTH PENN OIL 7/23/2008 SOUTH PENN OIL 7/23/2008 SOUTH PENN OIL CONSOLIDATION COAL CO 8/27/2007 EAST RESOLIRATES 4/26/1974 SOUTH PENN OIL 10/20/2009 CONSOLIDATION COAL CO	11/7/2006 CONSOLIDATION COAL CO 9/12/2008 EQUITABLE GAS CO 5/4/397 SOUTH PEINN OIL 3/18/2010 CONSOLIDATION COAL CO 11/5/2009 CONSOLIDATION COAL CO 64/1/2010 CONSOLIDATION COAL CO SOUTH PEIN OIL SOUTH PEINN OIL	11/24/2010 ELONTHERWOOD INC 50UTH PENN OIL 9/27/1930 SOUTH PENN OIL UNKNOWN UN	A Department of Noneman Navaowan Navaow	7/21/1939 CARNEGIE NATURAL GAS CORP UNKNOWN UNKNOWN UNKNOWN UNKNOWN 12/1/2008 CONSOLIDATION COAL 12/1/2009 CONSOLIDATION COAL 12/1/2009 CONSOLIDATION COAL 12/1/2009 CONSOLIDATION COAL 11/4/2008 CONSOLIDATION COAL 2/5/2008 CONSOLIDATION COAL 3/7/2008 CONSOLIDATION COAL 3/7/2008 CONSOLIDATION COAL 3/7/2008 CONSOLIDATION COAL 3/2/2009 CONSOLIDATION COAL 3/2/2009 CONSOLIDATION COAL 3/2/2009 CONSOLIDATION COAL 3/2/2009 CONSOLIDATION COAL 3/2/2009 CONSOLIDATION COAL 3/2/2009 CONSOLIDATION COAL
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WW-9 (4/16)

API Number 47 -	
Operator's Well No.	Vanderbill 8H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLA	N
Operator Name EQT Production Company OP Code 3	08686
Watershed (HUC 10) Evans Run & Buffalo Creek Quadrangle Glover Gap	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? You will a pit be used? Yes No V	es No
If so, please describe anticipated pit waste: N/A	
Will a synthetic liner be used in the pit? Yes No If so, what ml.?_	N/A
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
Underground Injection (UIC Permit Number 0014, 8462, 4037	
Reuse (at API Number Various Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain	
Yes, The closed loop system will remove drill cuttings from then prepared for transportation to an off-site disposal facility.	the drilling fluid. The drill cuttings are ly.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, et	c. 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)	WA .
-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 West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and where it was properly disposed.	associated waste rejected at any the permittee shall also disclose
I certify that I understand and agree to the terms and conditions of the GENERAL WA on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environment provisions of the permit are enforceable by law. Violations of any term or condition of the gollaw or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with application form and all attachments thereto and that, based on my inquiry of those individualizing the information, I believe that the information is true, accurate, and complete. I penalties for submitting false information, including the possibility of fine or imprisonment.	ntal Protection. I understand that the eneral permit and/or other applicable the information submitted on this viduals immediately responsible for am aware that there are significant
Company Official Signature	RECEIVED Office of Oil and Gas
Company Official (Typed Name) John Zavatchan	OCT 1 2 2021
Company Official Title Preject Specialist - Permitting	
	WV Department of Environmental Protection
Subscribed and sworn before me this 11th day of 0(+tober , 2)	021
Notar Notar	y Public
My commission expires October 25, 2023	Commonwealth of Pennsylvania - Notary Seal Olivia Pishioneri, Notary Public Allegheny County
	My commission expires October 25, 2023 Commission humber 1369968
	Member, Pennsylvania Association of Notaries

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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Office of Oil and Gas

OCT. 12 2021

	47(49	0 2	5	0	9
Operator's W	ell No	Vander	bilt 8H			_
Prevegetation pH						
Perman	ient					
Seed Type		lbs/acre	3			
d Grass		15				
Clover		5				
ineered plans includ x D) of the pit, and	ing this dimens	info ha	ve bee x W),	n and	are	a ii
n as reasona	ably p	ossi	ble,		-	
V DEP E&S						
		RI	ECEIVE of Oil a	D nd G	- as	
		OCT	12	202	1	

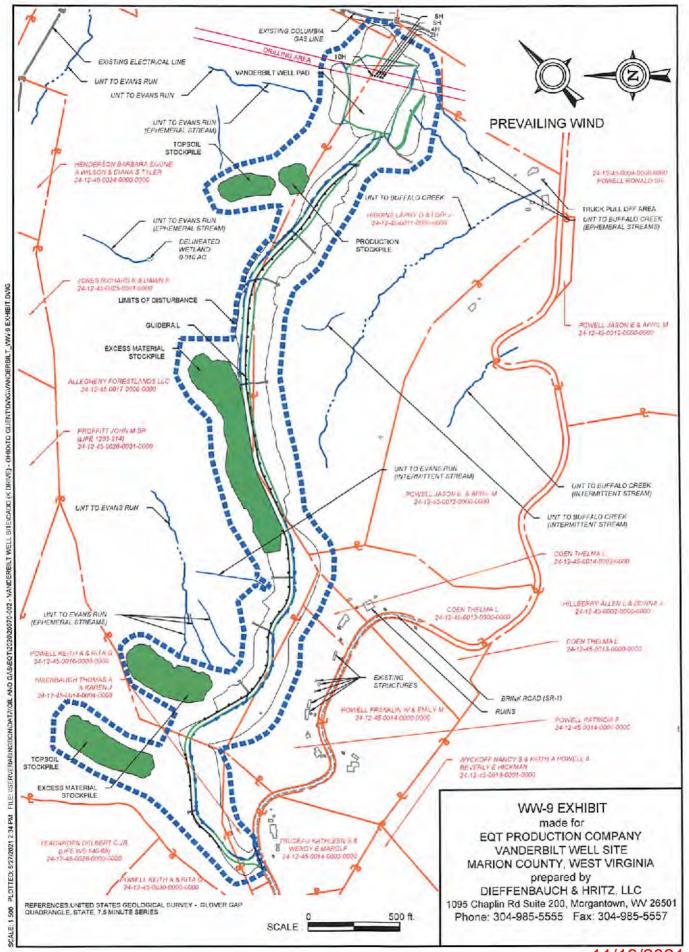
2	aument: Acres Disturbed	Prevegetation pH	ľ
Lime 3	Tons/acre or to corre	ct to pH 6.5	
Fertilizer type Gra	anular 10-20-20	_	
Fertilizer amount	500	lbs/acre	
Mulch 2		_Tons/acre	
		Seed Mixtures	
T	emporary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		
provided). If water from the acreage, of the land applicate	pit will be land applied, inc	d application (unless engineered plans included imensions (L $x W x D$) of the pit, and	ding this info have been dimensions (L x W), a
Plan Approved by:	e pit will be land applied, incition area	clude dimensions (L x W x D) of the pit, and	dimensions (L x W), a
Plan Approved by: Comments:	e pit will be land applied, incition area blved 7.5' topographic sheet. final term final chall disturbe	elude dimensions (L x W x D) of the pit, and	ably possible,
Plan Approved by: Comments:	e pit will be land applied, incition area blved 7.5' topographic sheet. final term final chall disturbe	clude dimensions (L x W x D) of the pit, and	ably possible,
Photocopied section of involved by: Plan Approved by: Comments: Pre-seed	e pit will be land applied, incition area blved 7.5' topographic sheet. final term final chall disturbe	elude dimensions (L x W x D) of the pit, and	ably possible, Manual.
Plan Approved by: Comments:	e pit will be land applied, incition area blved 7.5' topographic sheet. final term final chall disturbe	elude dimensions (L x W x D) of the pit, and	ably possible,
Plan Approved by: Comments:	e pit will be land applied, incition area blved 7.5' topographic sheet. final term final chall disturbe	elude dimensions (L x W x D) of the pit, and	ably possib Manual.

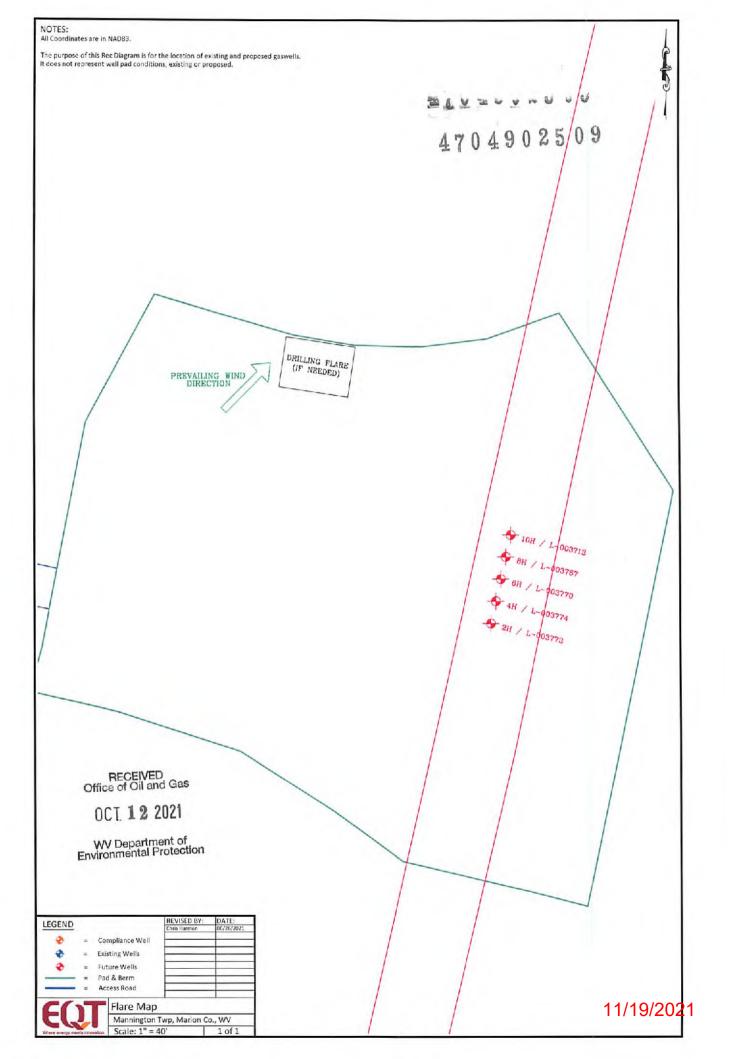
			Production Water Plan esals for Unconvention			_			
Facility Name	Address	Address 2	City		Zip	Phone	County	State	Permit Number
CWS Trucking Inc.	P.O. Box 391	7.33.33.5	Williamstown	wv	26187	740-516-3586	<u> </u>	ОН	3390
arro Franking Mai	110.00.002			1	1	1.75.555			
Broad Street Energy LLC	37 West Broad Street	Suite 1100	Columbus	ОН	43215	740-516-5381	Washingotn	ОН	8462
								1	
LAD Liquid Assets Disposal Inc.	226 Rankin Road		Washington	PA	15301	724-350-2760	Ohio	wv	USEPA WV 0014
Triad Energy	PO Box 430		Reno	ОН	45773		Noble	ОН	4037
					<u> </u>	740-374-2940			
						<u> </u>		<u> </u>	
Tri County Waste Water Management, Inc.	1487 Toms Run Road		Holbrook	PA	15341	724-627-7178	Greene	PA	TC-1009
						724-499-5647		-	
	101 01 0 1 0 1		No Cookle	-	16101	 	Lawrence	PA	PAR000029132
King Excavating Co. Advance Waste Services	101 River Park Drive		New Castle	PA	16101	-	Lawrence	IFA	PAROOOKSTSK
Waste Management - Meadowfill Landfill	Rt. 2, Box 68 Dawson Drive		Bridgeport	 	16330	304-326-6027	Harrison	lwv	SWF-1032-98
waste Management - Meadowilli Landilli	Rt. 2, Box 08 Dawson Drive		Вподероге	+***	10330	304-320-0027	Therrison	1	Approval #100785WV
			<u> </u>	+			_	 	, ,pp. 6 to 1 1 2 5 1 5 5 1 1
Waste Management - Northwestern Landfill	512 E. Dry Road		Parkersburg	wv	26104	304-428-0602	Wood	wv	SWF-1025 WV-0109400
Troble Mendagement Mendagement administration	011111111111111111111111111111111111111			 	1			<u> </u>	
APEX Landfill	11 County Road 78	PO Box 57	Amsterdam	ОН	43903	740-543-4389	Jefferson	ОН	06-08438
					1				
Advanced Disposal - Chestnut Valley Landfill	1184 McClellandtown Road		McClellandtown	PA	15458	724-437-7336	Fayette	PA	100419
									
Westmoreland Sanitary Landfill	901 Tyrol Boulevard		Belle Vernon	PA	15012	724-929-7694	Westmoreland	PA	100277
								1	
Austin Master Services	801 North 1st Street		Martins Ferry	ОН	43935	740-609-3800	Belmont	ОН	2014-541
				4	ļ				
Belmont Solids Control	77505 Cadiz-New Athers Road		Cadiz	ОН	43907	740-942-1739	Harrison	ОН	2015-511
				 	4574.4	740 404 0443	Nata ah in at an	ОН	-
Diversified Resources	3111 Braun Rd.		Belpre	ОН	45714	740-401-0413	wasnington	Un .	
				+	+				34-031-27177
			Coshocton	Он	43812	740-610-1512		он	34-031-27178
Buckeye Brine	23986 Airport Road	- 1	Cosmocton	10	173012	724-591-4393	Coshocton		34-031-27241
buckeye brine	23980 Ail port Noba								
Central Environmental Services	28333 West Belpre Pike		Coolville	ОН	45723	304-488-0701	Athens	ОН	
ocitios en monimentar ou moes	20000 17001 001010 1110								
Nuverra - Nichols	10555 Veto Road		Belpre	ОН	45714	330-232-5041	Washington	ОН	34-119-2-8776
Nuverra - Goff	9350 East Pike Road		Norwich	ОН	43767	330-232-5041	Muskingum	ОН	34-167-2-3862
							1		
Nuverra - Wolf	5480 State Route 5		Newton Falls	ОН	44444	330-232-5041	Trumbull	ОН	34-155-2-1893
								ļ	
Nuverra - Pander	5310 State Route 5		Newton Falls	ОН	44444	330-232-5041	Trumbull	ОН	34-155-2-3795
					1		<u> </u>	 	244555555
Nuverra - AnnaRock D-1	3549 Warner Road		Fowler	ОН	44418	330-232-5041	Trumbull	ОН	34-155-2-2403
				1		·			

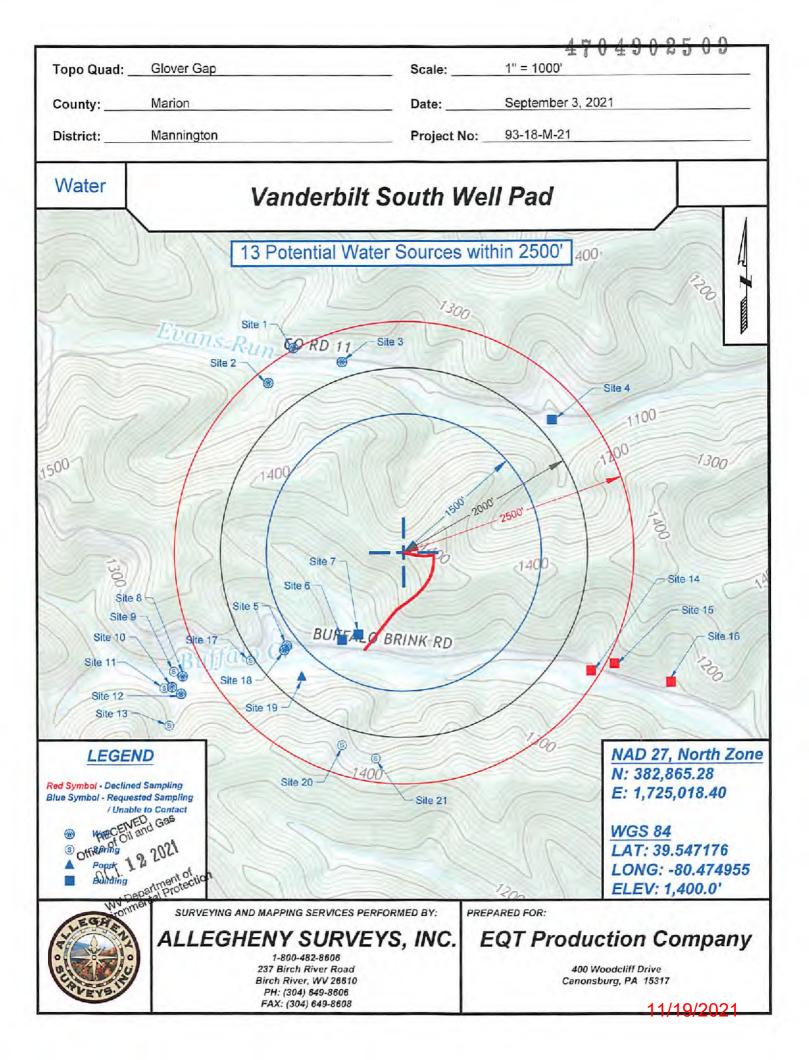
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Office of Oil and Gas.

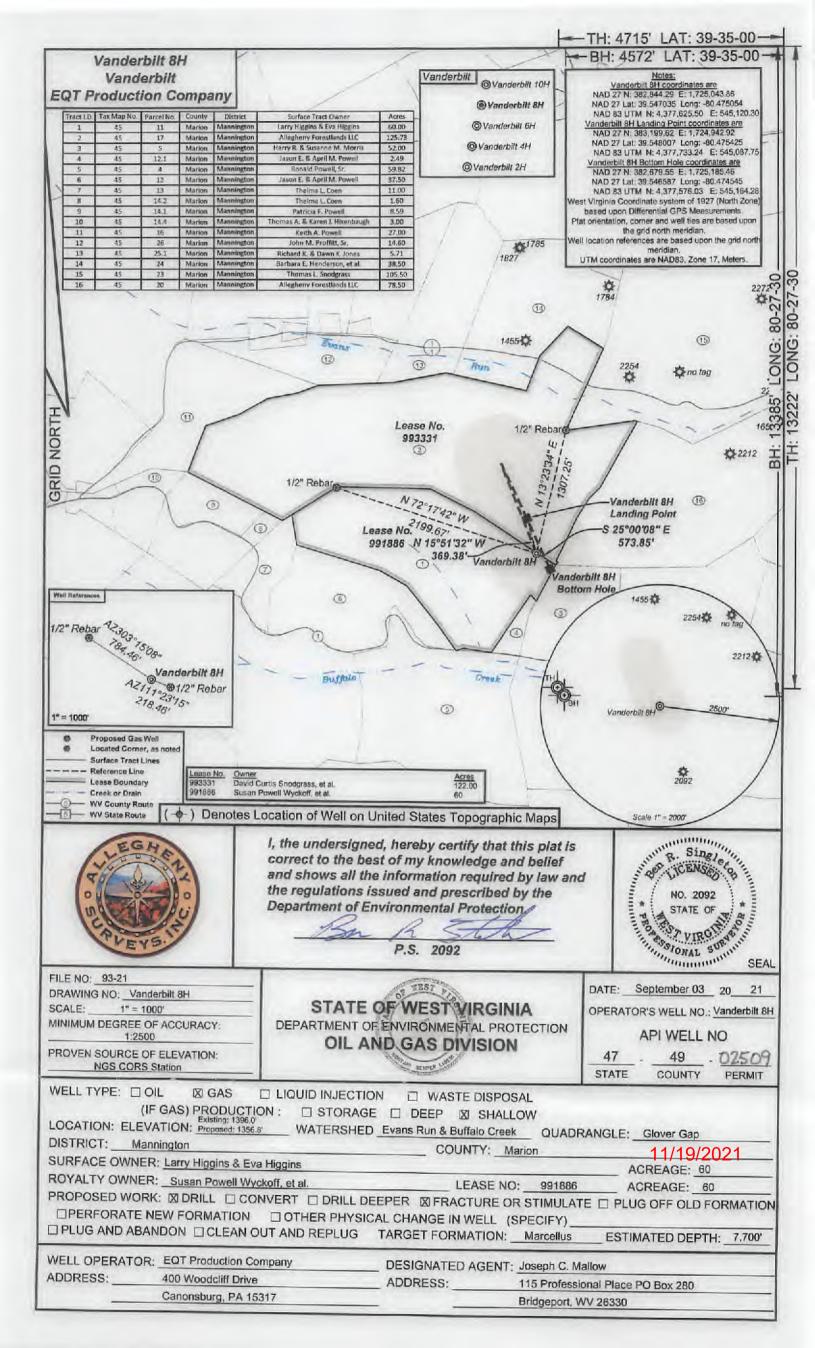
OCT. 12 2021

FQ Helen	199 Bowersock Road	Reno	он	45773	740-374-2940 412-443-4397 740-236-2135	Washington	он	34-167-2-9577
FQ Dexter	38505 Marietta Rd.	Dexter City	он	45727	740-374-2940 412-443-4397 740-236-2135	Noble	ОН	34-121-24037 34-121-24086
FQ Ritchie	122 Lonesome Pine Rd	Ellenboro	w	26346	740-374-2940 412-443-4397 740-236-2135	Ritchie	w	47-085-09721
FQ Mills	53610 TS Rd 705	Portland	ОН	45770	740-374-2940 412-443-4397 740-236-2135	Meigs	OH	34-105-2-3619 34-105-2-3652 34-105-2-3637 34-105-2-3651
Petta Enterprises - OH	745 North 3rd Street	Cambridge	он	43725	614-477-1368	Guernsey	он	Ohio Chiefs Order 25-019
Petta Enterprises - WV	38 Technology Dr.	Tridelphia	wv	26059	740-255-5727	Ohio	wv	
Deep Rock Disposal	2341 OH-821	Marietta	ОН	45750	304-629-0176	Washington	ОН	34-167-2-9766









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

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

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

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

See Attachment

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

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

- 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.

ed from the appropriate authority before the affected activity is initiated.

Well Operator: EQT Production Company

By: John Zavatchan

Its: Project Specialist - Permitting

Office of Oil and Gas
OCT. 12 2021

WV Department of Environmental Protection

Page 1 of 2

WW-6A1 attachment

Operator's Well No.

Vanderbilt 8H

Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
<u>993331</u>	David Curtis Snodgrass, et al.			"at least 1/8th per WV Code 22-6-8"	
	David Curtis Snodgrass, a married man dealing in his sole and separate property	122.00	EQT Production Company		1268/863
				"at least 1/8th per	
<u>991886</u>	Susan Powell Wyckoff, et al.			WV Code 22-6-8"	
	Susan Powell Wyckoff, married, dealing in her sole and separate property	60 ac	EQT Production Company		1115/662





EQT PRODUCTION COMPANY 400 Woodcliff Drive | Canonsburg, PA 15317

September 2, 2021

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

Re:

Vanderbilt 8H 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

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OCT. 12 2021

WW-6AC (1/12)

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

MILLIAI

Date of Notic	ce Certification: 10 U 1	API	No. 4 /			
		Oper	Operator's Well No. 8H			
		Well	Pad Name: Vandert	pilt		
	ne provisions in West Virginia Code §	22-6A, the Operator has provided	the required parties v	vith the Notice Forms listed		
	tract of land as follows:	Easti	ng: 545120.30			
State:	West Virginia Marion	UTM NAD 83 Pasti				
County: District:	Mannington	Public Road Access:	CR-1			
Quadrangle:	Glover Gap	Generally used farm na		Higgins & Eva Higgins)		
Watershed:	Evans Run & Buffalo Creek					
it has provid information r of giving the requirements Virginia Cod	the secretary, shall be verified and sleed the owners of the surface describe equired by subsections (b) and (c), see surface owner notice of entry to su of subsection (b), section sixteen of e § 22-6A-11(b), the applicant shall to have been completed by the applicant	ped in subdivisions (1), (2) and (4 ction sixteen of this article; (ii) that rivey pursuant to subsection (a), seef this article were waived in writing the proof of and certify to the second), subsection (b), see the requirement was ction ten of this arting by the surface ov	ction ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice wner; and Pursuant to West		
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the required ECK ALL THAT APPLY		tice Certification	OOG OFFICE USE ONLY		
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED E SEISMIC ACTIVITY WAS CON		☐ RECEIVED/ NOT REQUIRED		
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	EY or 🔳 NO PLAT SURVEY W	AS CONDUCTED	☐ RECEIVED		
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED BY NOTICE OF ENTRY FOR PLAT WAS CONDUCTED or		RECEIVED/ NOT REQUIRED		
		☐ WRITTEN WAIVER BY SU (PLEASE ATTACH)	JRFACE OWNER			
■ 4. NO	TICE OF PLANNED OPERATION	RECEIVED Office of Oil and	Gas	RECEIVED		
■ 5. PUI	BLIC NOTICE	OCI. 12 2	021	RECEIVED		
■ 6. NO	TICE OF APPLICATION	WV Departm Environmental P		RECEIVED		

Required Attachments:

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

Certification of Notice is hereby given:

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

Well Operator: EQT Production Company

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 Pennsylvania - Notary Seal Olivia Pishioneri, Notary Public Allegheny County My commission expires October 25, 2023

Commission number 1359968

Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this

My Commission Expires OCOOL 25

, 2003

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.

Office of Oil and Gas
OCT. 12 2021

WV Department of Environmental Protection

API NO. 47		
OPERATOR WE	LL NO.	8H
Well Pad Name:	Vanderbilt	

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

Noti	ce Time Requirem	ent: notice sha	all be provided no	later than	the filing date of permit application.	
	e of Notice: \\\()\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(1 Date Perm	it Application Fi	iled:(Dfff	La T	
V	PERMIT FOR AN	TY 🗖			ROVAL FOR THE IN IMPOUNDMENT OR PIT	
Deli	very method pursi	uant to West V	/irginia Code § 2	2-6A-10((b)	
	PERSONAL	REGIST	ERED	метно	DD OF DELIVERY THAT REQUIRES A	
_	SERVICE	MAIL			PT OR SIGNATURE CONFIRMATION	
the soil and description of the soil and description of the soil and t	urface of the tract or and gas leasehold being ribed in the erosion a lator or lessee, in the erosion second seams; (4) The work, if the surface bundment or pit as do a water well, spring lide water for consumous water well work active ection (b) of this seconds of the sheriff requision of this article to e. R. § 35-8-5.7.a recorr purveyor or surface	n which the welling developed by and sediment converted to be used tract is to be used t	I is or is proposed of the proposed well ontrol plan submitted of land on which the ord of the surface treed for the placement in the land on this artiful y source located with most or domestic animace. (c)(1) If more sets in the lands, the intained pursuant to notice to a lien hold the operator shall be a submitted on the land water to notice and water well as the proposed of th	to be local ll work, if the ded pursual the well pro- tract or trac- tract constru- icle; (5) A ithin one to mals; and than three e applicant to section ed der is not a all also pro- ter testing a	the well plat to each of the following persons: (1) The ted; (2) The owners of record of the surface tract of the surface tract is to be used for roads or other laint to subsection (c), section seven of this article; (1) to posed to be drilled is located [sic] is known to be cets overlying the oil and gas leasehold being develuction, enlargement, alteration, repair, removal or my surface owner or water purveyor who is known thousand five hundred feet of the center of the well (6) The operator of any natural gas storage field we tenants in common or other co-owners of interest that may serve the documents required upon the personal per	or tracts overlying the and disturbance as 3) The coal owner, a underlain by one or loped by the proposed abandonment of any a to the applicant to a ll pad which is used to within which the ts described in on described in the Notwithstanding any a landowner. W. Va.
			iice 🛮 E&S Plar		☑ Well Plat Notice is hereby provided to:	
_	JRFACE OWNER(e: See Attached List	(S)			☐ COAL OWNER OR LESSEE Name: See Attached List	
	ress:				Address:	
Nam					☑ COAL OPERATOR	
	ress:				Name: See Attached List	
					Address:	
∄ SU	JRFACE OWNER(s) (Road and/o	r Other Disturban	ıce)		
_ Nam	e: See Attached List			·	SURFACE OWNER OF WATER WELL	
Add	ress:				AND/OR WATER PURVEYOR(s)	
					Name: See Attached List	
Nam	e:				Address:	
Add	ress:					
					OPERATOR OF ANY NATURAL GAS ST	
Nam	JRFACE OWNER(e:				Name:	<u> </u>
Add	ress:					
					*Please attach additional forms if necessary	RECEIVED Office of Oil and Gas

OCT. 12 2021

Environmental Protection

API NO. 47-____
OPERATOR WELL NO. 8H
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 crosion 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 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.defawv.es/toil-8-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

API NO. 47-4704902509
OPERATOR WELL NO. 8H
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 as to the location or construction of the applicant's proposed well work to the Secretary at:

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

RECEIVED Office of Oil and Gas

OCT. 12 2021

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

API NO. 47-
OPERATOR WELL NO. 8H
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 crosion 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. 8H
Well Pad Name: Vanderbilt

Notice is hereby given by:

Well Operator: EQT Production Compan

Telephone: 724-745-9073 Email: jzavatchan@eqt.com Address: 400 Woodcliff Drive

Canonsburg, PA 15317
Facsimile: 412-395-2974

Oil and Gas Privacy Notice:

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

Commonwealth of Pennsylvania - Notary Seal Olivia Pishioneri, Notary Public Allegheny County My commission expires October 25, 2023 Commission number 1359968

mber, Pennsylvania Association of Notaries

Subscribed and sworn before me this May of Ottoor, 2021.

Notary Public

My Commission Expires October 25, 2023

Office of Oil and Gas
OCT 12 2021

WV Department of Environmental Protection

4704902500 1" = 1000' Glover Gap Scale: Topo Quad: September 3, 2021 Marion Date: County: Project No: 93-18-M-21 District: Mannington Water Vanderbilt South Well Pad 13 Potential Water Sources within 2500' Site 1 Evans Ri 60 RD 11 Site 2 Site 4 1100 1300 - 2000 - 2500 Site 7 Site 14 Site 6 Site 8 Site 5 Site 15 Site 9 BUREAL & BRINK RD Site 10 Site 16 Site 17 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 21 RECEIVED Office of Oil and Gas Blue Symbol - Requested Sampling Site 21 / Unable to Contact OCT 12 2021 WGS 84 Well Spring LAT: 39.547176 WV Department of Environmental Protection Pond LONG: -80.474955 Building ELEV: 1,400.0' SURVEYING AND MAPPING SERVICES PERFORMED BY: PREPARED FOR: **EQT Production Company** ALLEGHENY SURVEYS. INC. 1-800-482-8606 237 Birch River Road 400 Woodcliff Drive Birch River, WV 26610 Canonsburg, PA 15317

11/19/2021

PH: (304) 649-8606 FAX: (304) 649-8608



Table 1 - Water Source Identification

EQT Well Pad Name: Vanderbilt South EQT Well Number:	Submittal Date: September 3, 2021	
Survey / Engineering Company: Allegheny Surve	ys, Inc.	
Site Number: 1 Distance from Gas Well (feet): 251	15 ±	
Surface Owner / Occupant: Kenneth & Jennifer of Address: 526 Evans Run Rd. Mannington WV 26 Field Located Date: 7-22-2021 Owner home during Coordinates: 39.553216, -80.479283 (decimal degree Contact Attempts (Date): 1st; 7-02-2021 2nd;	Samplin Samplin Landowi Samplin Samplin Unable to (Further or made by pre-drill s	ner Decline g
Comments: Water well next to building left of drive		
Site Number: 2 Distance from Gas Well (feet): 238 Surface Owner / Occupant: Richard & Dawn Jone Address: 545 Evans Run Rd. Mannington WV 28 Field Located Date: 7-22-2021 Owner home dur Coordinates: 39.552174, -80.480231 (decimal deg Contact Attempts (Date): 1st: 7-02-2021 2nd:	es	ner Decline Ig
Comments: Water well in front yard of mobile hon		
Site Number: 3 Distance from Gas Well (feet): 216 Surface Owner / Occupant: June Wilson, Barbara Address: 905 E First St. Mannington WV 26582 Field Located Date: 7-22-2021 Owner home dur Coordinates: 39.552816, -80.477392 (decimal deg	a Henderson, Diana Tyler Phone #: 304-986-7546 ing survey (yes/no): prees − NAD 83) □ Landow Samplin □ Unable i (Further or made by pre-drill s	ner Decline ig
Contact Attempts (Date): 1st; 7-2-2021 2nd; Comments: Water well located beside old satellite marked "481".		oox
(Insert additional pages as needed)	OCT. 12 2021	

WV Department of Environmental Protection

Site Number: 4 Distance from Gas Well (feet): 2155 ±	
Surface Owner / Occupant: Thomas Snodgrass	☐ Landowner Requested
Address: 291 Evans Run Rd. Mannington WV 26582 Phone #:	Sampling Landowner Decline
Field Located Date: Owner home during survey (yes/no): No	Sampling ☐ Unable to Contact
Coordinates: 39.551144, -80.469279 (decimal degrees – NAD 83)	(Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1st: 7-2-2021 2nd: Door Hanger Left: Yes	, , , , , , , , , , , , , , , , , , ,
Comments: Certified sent 7-2-2021. Field visit 7-22-2021. Doorhanger left. No further	er contact.
Cita Number: E. Distance from Can Mall /factly 4697 t	
Site Number: 5 Distance from Gas Well (feet): 1627 ±	S Landauman Banuarted
Surface Owner / Occupant: Ronald Powell Sr - c/o Ronald Powell Jr	☑ Landowner Requested Sampling
Address: 218 Chestnut Ave. Mannington WV 26582 Phone#: 304-986-2741 / Cel#: 304-612-8812	☐ Landowner Decline Sampling
Field Located Date: 7-22-2021 Owner home during survey (yes/no): No	☐ Unable to Contact (Further contact attempts to be
Coordinates: 39.544373 , -80.479450 (decimal degrees – NAD 83)	made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1st: 7-2-2021 2nd: Door Hanger Left: Yes	
Comments: Certified sent 7-2-2021. Field visit 7-22-2021. Doorhanger left. Water well to Ronald Powell Jr. called on 7-26-2021 wanting testing. Had additional sources (Sites 17)	peside house. 7 through 21).
Site Number: 6 Distance from Gas Well (feet): 1158 ±	
Surface Owner / Occupant: Larry Higgins & Eva Higgins	☐ Landowner Requested Sampling
Address: 3418 Buffalo Brink Rd. Mannington WV 26582 Phone #:	i Sambiino
Field Located Date: Owner home during survey (yes/no): No	☐ Landowner Decline
	□ Landowner DeclineSampling☑ Unable to Contact
Coordinates: 39.544564 , -80.477318 (decimal degrees – NAD 83)	□ Landowner Decline Sampling □ Unable to Contact (Further contact attempts to be made by EQT's third party
Coordinates: 39.544564 , -80.477318 (decimal degrees – NAD 83) Contact Attempts (Date): 1st: 7-2-2021 2nd: Door Hanger Left: Yes.	□ Landowner Decline Sampling □ Unable to Contact (Further contact attempts to be
· · · · · · · · · · · · · · · · · · ·	□ Landowner Decline Sampling □ Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1st: 7-2-2021 2nd: Door Hanger Left: Yes. Comments: House. Doorhanger left. Mobile home next door appears to be unoccupied	□ Landowner Decline Sampling □ Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1st: 7-2-2021 2nd: Door Hanger Left: Yes. Comments: House. Doorhanger left. Mobile home next door appears to be unoccupied. Site Number: 7 Distance from Gas Well (feet): 1017 ±	□ Landowner Decline Sampling ☑ Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1st: 7-2-2021 2nd: Door Hanger Left: Yes. Comments: House. Doorhanger left. Mobile home next door appears to be unoccupied. Site Number: 7 Distance from Gas Well (feet): 1017 ± Surface Owner / Occupant: Larry Higgins & Eva Higgins	□ Landowner Decline Sampling ☑ Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab) □ Landowner Requested Sampling
Contact Attempts (Date): 1st: 7-2-2021 2nd: Door Hanger Left: Yes. Comments: House. Doorhanger left. Mobile home next door appears to be unoccupied. Site Number: 7 Distance from Gas Well (feet): 1017 ± Surface Owner / Occupant: Larry Higgins & Eva Higgins Address: 3418 Buffalo Brink Rd. Mannington WV 26582 Phone #:	□ Landowner Decline Sampling ☑ Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab) □ Landowner Requested Sampling □ Landowner Decline Sampling
Contact Attempts (Date): 1st: 7-2-2021 2nd: Door Hanger Left: Yes. Comments: House. Doorhanger left. Mobile home next door appears to be unoccupied. Site Number: 7 Distance from Gas Well (feet): 1017 ± Surface Owner / Occupant: Larry Higgins & Eva Higgins Address: 3418 Buffalo Brink Rd. Mannington WV 26582 Phone #: Field Located Date: Owner home during survey (yes/no): No	□ Landowner Decline Sampling ☑ Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab) □ Landowner Requested Sampling □ Landowner Decline Sampling ☑ Unable to Contact (Further contact attempts to be
Contact Attempts (Date): 1st: 7-2-2021 2nd: Door Hanger Left: Yes. Comments: House. Doorhanger left. Mobile home next door appears to be unoccupied. Site Number: 7 Distance from Gas Well (feet): 1017 ± Surface Owner / Occupant: Larry Higgins & Eva Higgins Address: 3418 Buffalo Brink Rd. Mannington WV 26582 Phone #: Field Located Date: Owner home during survey (yes/no): No Coordinates: 39.544730, -80.476696 (decimal degrees – NAD 83)	□ Landowner Decline Sampling ☑ Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab) □ Landowner Requested Sampling □ Landowner Decline Sampling ☑ Unable to Contact
Contact Attempts (Date): 1st: 7-2-2021 2nd: Door Hanger Left: Yes. Comments: House. Doorhanger left. Mobile home next door appears to be unoccupied. Site Number: 7 Distance from Gas Well (feet): 1017 ± Surface Owner / Occupant: Larry Higgins & Eva Higgins Address: 3418 Buffalo Brink Rd. Mannington WV 26582 Phone #: Field Located Date: Owner home during survey (yes/no): No Coordinates: 39.544730, -80.476696 (decimal degrees – NAD 83) Contact Attempts (Date): 1st: 7-2-2021 2nd: Door Hanger Left:	□ Landowner Decline Sampling ☑ Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab) □ Landowner Requested Sampling □ Landowner Decline Sampling ☑ Unable to Contact (Further contact attempts to be made by EQT's third party

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V/V Department of Environmental Protection

WV Department of /2021

Site Number: 8 Distance from Gas Well (feet): 2758 ±	
Surface Owner / Occupant: Louis & Donna Hillberry	□ Landowner Requested
Address: 3585 Buffalo Brink Rd. Mannington WV 26582 Phone #: 304-986-1247	Sampling Landowner Decline
Field Located Date: 7-22-2021 Owner home during survey (yes/no): Yes	Sampling Unable to Contact
Coordinates: 39.543442, -80.483464 (decimal degrees – NAD 83)	(Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1st: 7-2-2021 2nd: Door Hanger Left:	, , , , , , , , , , , , , , , , , , ,
Comments: Water well in front of barn. (Has 3 water wells and 3 springs – Site Numbers	s 8-13)
Site Number: 9 Distance from Gas Well (feet): 2816 ±	
Surface Owner / Occupant: Louis & Donna Hillberry	□ Landowner Requested □ Landown
Address: 3585 Buffalo Brink Rd. Mannington WV 26582 Phone #: 304-986-1247	Sampling Landowner Decline
Field Located Date: 7-22-2021 Owner home during survey (yes/no): Yes	Sampling Unable to Contact
Coordinates: 39.543577, -80.483797 (decimal degrees – NAD 83)	(Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1st: 7-2-2021 2nd: Door Hanger Left:	
Comments: Spring used for cattle. (Has 3 water wells and 3 springs – Site Numbers 8-1	(3)
Site Number: 10 Distance from Gas Well (feet): 2917 ±	
Surface Owner / Occupant: Louis & Donna Hillberry	☐ Landowner Requested
Surface Owner / Occupant: Louis & Donna Hillberry Address: 3585 Buffalo Brink Rd. Mannington WV 26582 Phone #: 304-986-1247	Sampling Landowner Decline
·	Sampling Landowner Decline Sampling Unable to Contact
Address: 3585 Buffalo Brink Rd. Mannington WV 26582 Phone #: 304-986-1247	Sampling ☐ Landowner Decline Sampling
Address: 3585 Buffalo Brink Rd. Mannington WV 26582 Phone #: 304-986-1247 Field Located Date: 7-22-2021 Owner home during survey (yes/no): Yes	Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be made by EQT's third party
Address: 3585 Buffalo Brink Rd. Mannington WV 26582 Phone #: 304-986-1247 Field Located Date: 7-22-2021 Owner home during survey (yes/no): Yes Coordinates: 39.543111, -80.483870 (decimal degrees – NAD 83)	Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Address: 3585 Buffalo Brink Rd. Mannington WV 26582 Phone #: 304-986-1247 Field Located Date: 7-22-2021 Owner home during survey (yes/no): Yes Coordinates: 39.543111, -80.483870 (decimal degrees – NAD 83) Contact Attempts (Date): 1st: 7-2-2021 2nd: Door Hanger Left:	Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Address: 3585 Buffalo Brink Rd. Mannington WV 26582 Phone #: 304-986-1247 Field Located Date: 7-22-2021 Owner home during survey (yes/no): Yes Coordinates: 39.543111, -80.483870 (decimal degrees – NAD 83) Contact Attempts (Date): 1st: 7-2-2021 2nd: Door Hanger Left: Comments: Water well next to son's house. (Has 3 water wells and 3 springs – Site Nur	Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab) mbers 8-13)
Address: 3585 Buffalo Brink Rd. Mannington WV 26582 Phone #: 304-986-1247 Field Located Date: 7-22-2021 Owner home during survey (yes/no): Yes Coordinates: 39.543111, -80.483870 (decimal degrees – NAD 83) Contact Attempts (Date): 1st: 7-2-2021 2nd: Door Hanger Left: Comments: Water well next to son's house. (Has 3 water wells and 3 springs – Site Nur Site Number: 11 Distance from Gas Well (feet): 2997 ±	Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab) Mbers 8-13) Landowner Requested Sampling Landowner Decline
Address: 3585 Buffalo Brink Rd. Mannington WV 26582 Phone #: 304-986-1247 Field Located Date: 7-22-2021 Owner home during survey (yes/no): Yes Coordinates: 39.543111, -80.483870 (decimal degrees – NAD 83) Contact Attempts (Date): 1st: 7-2-2021 2nd: Door Hanger Left: Comments: Water well next to son's house. (Has 3 water wells and 3 springs – Site Nur Site Number: 11 Distance from Gas Well (feet): 2997 ± Surface Owner / Occupant: Louis & Donna Hillberry	Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab) Mbers 8-13) Landowner Requested Sampling Landowner Decline Sampling Unable to Contact
Address: 3585 Buffalo Brink Rd. Mannington WV 26582 Phone #: 304-986-1247 Field Located Date: 7-22-2021 Owner home during survey (yes/no): Yes Coordinates: 39.543111, -80.483870 (decimal degrees – NAD 83) Contact Attempts (Date): 1st: 7-2-2021 2nd: Door Hanger Left: Comments: Water well next to son's house. (Has 3 water wells and 3 springs – Site Nur Site Number: 11 Distance from Gas Well (feet): 2997 ± Surface Owner / Occupant: Louis & Donna Hillberry Address: 3585 Buffalo Brink Rd. Mannington WV 26582 Phone #: 304-986-1247	Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab) Mbers 8-13) Landowner Requested Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be made by EQT's third party
Address: 3585 Buffalo Brink Rd. Mannington WV 26582 Phone #: 304-986-1247 Field Located Date: 7-22-2021 Owner home during survey (yes/no): Yes Coordinates: 39.543111, -80.483870 (decimal degrees – NAD 83) Contact Attempts (Date): 1st: 7-2-2021 2nd: Door Hanger Left: Comments: Water well next to son's house. (Has 3 water wells and 3 springs – Site Nur Site Number: 11 Distance from Gas Well (feet): 2997 ± Surface Owner / Occupant: Louis & Donna Hillberry Address: 3585 Buffalo Brink Rd. Mannington WV 26582 Phone #: 304-986-1247 Field Located Date: 7-22-2021 Owner home during survey (yes/no): Yes	Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab) Mbers 8-13) Landowner Requested Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be
Address: 3585 Buffalo Brink Rd. Mannington WV 26582 Phone #: 304-986-1247 Field Located Date: 7-22-2021 Owner home during survey (yes/no): Yes Coordinates: 39.543111, -80.483870 (decimal degrees – NAD 83) Contact Attempts (Date): 1st: 7-2-2021 2nd: Door Hanger Left: Comments: Water well next to son's house. (Has 3 water wells and 3 springs – Site Nur Site Number: 11 Distance from Gas Well (feet): 2997 ± Surface Owner / Occupant: Louis & Donna Hillberry Address: 3585 Buffalo Brink Rd. Mannington WV 26582 Phone #: 304-986-1247 Field Located Date: 7-22-2021 Owner home during survey (yes/no): Yes Coordinates: 39.543082, -80.484175 (decimal degrees – NAD 83)	Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab) Mbers 8-13) Landowner Requested Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Address: 3585 Buffalo Brink Rd. Mannington WV 26582 Phone #: 304-986-1247 Field Located Date: 7-22-2021 Owner home during survey (yes/no): Yes Coordinates: 39.543111, -80.483870 (decimal degrees – NAD 83) Contact Attempts (Date): 1st: 7-2-2021 2nd: Door Hanger Left: Comments: Water well next to son's house. (Has 3 water wells and 3 springs – Site Num Site Number: 11 Distance from Gas Well (feet): 2997 ± Surface Owner / Occupant: Louis & Donna Hillberry Address: 3585 Buffalo Brink Rd. Mannington WV 26582 Phone #: 304-986-1247 Field Located Date: 7-22-2021 Owner home during survey (yes/no): Yes Coordinates: 39.543082, -80.484175 (decimal degrees – NAD 83) Contact Attempts (Date): 1st: 7-2-2021 2nd: Door Hanger Left: Comments: Spring used for cattle. (Has 3 water wells and 3 springs – Site Numbers 8-1	Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab) Mbers 8-13) Landowner Requested Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)

Surface Owner / Occupant: Louis & Donna Hillberry	□ Landowner Requested Sampling
Address: 3585 Buffalo Brink Rd. Mannington WV 26582 Phone #: 304-986-1247	☐ Landowner Decline
Field Located Date: 7-22-2021 Owner home during survey (yes/no): Yes	Sampling Unable to Contact
Coordinates: 39.542917, -80.483516 (decimal degrees – NAD 83)	(Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1st: 7-2-2021 2nd: Door Hanger Left:	
Comments: Water well beside Mr. & Mrs. Hillberry's house. (Has 3 water wells and 3 sp Numbers 8-13)	rings – Site
Site Number: 13 Distance from Gas Well (feet): 3171 ±	
Surface Owner / Occupant: Louis & Donna Hillberry	□ Landowner Requested
Address: 3585 Buffalo Brink Rd. Mannington WV 26582 Phone #: 304-986-1247	Sampling Landowner Decline
Field Located Date: 7-22-2021 Owner home during survey (yes/no): Yes	Sampling ☐ Unable to Contact
Coordinates: 39.541968, -80.483968 (decimal degrees – NAD 83)	(Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1st: 7-2-2021 2nd: Door Hanger Left:	pre-drui sampling lab)
Comments: <u>Spring</u> used for cattle. (Has 3 water wells and 3 springs – Site Numbers 8-1	3)
Site Number: 14 Distance from Gas Well (feet): 2401 ±	
	□ Landaumas Basucated
Surface Owner / Occupant: Barron Powell	☐ Landowner Requested Sampling
Address: 3140 Buffalo Brink Rd. Mannington WV 26582 Phone #: 304-986-1450	☑ Landowner DeclineSampling
Field Located Date: Owner home during survey (yes/no): Yes	☐ Unable to Contact (Further contact attempts to be
Coordinates: 39.543721, -80.467692 (decimal degrees – NAD 83)	made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1st: 7-2-2021 2nd: Door Hanger Left:	
Comments: Barn. Spoke to Mr. Powell during field visit 7-22-2021. Said he uses public videclines any testing.	water source and
Site Number: 15 Distance from Gas Well (feet): 2583 ±	
Surface Owner / Occupant: Barron Powell	☐ Landowner Requested
Address: 3140 Buffalo Brink Rd. Mannington WV 26582 Phone #: 304-986-1450	Sampling ☑ Landowner Decline
Field Located Date: Owner home during survey (yes/no): Yes	Sampling Unable to Contact
Coordinates: 39.543941 , -80.466804 (decimal degrees – NAD 83)	(Further contact attempts to be made by EQT's third party
Contact Attempts (Date): 1st: 7-2-2021 2nd: Door Hanger Left:	pre-drill sampling lab)
Comments: Rental house. Spoke to Mr. Powell during field visit 7-22-2021. Said he use source and declines any testing. Site Number: 16 Distance from Gas Well (feet): 3222 ±	s public water

Office of Oil and Gas

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W.V. Department oction

Surface Owner / Occupant: Barron Powell	☐ Landowner Requested
Address: 3140 Buffalo Brink Rd. Mannington WV 26582 Phone #: 304-986-1450	Sampling ☑ Landowner Decline
Field Located Date: Owner home during survey (yes/no): Yes	Sampling Unable to Contact
Coordinates: 39.543405, -80.464619 (decimal degrees – NAD 83)	(Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1st: 7-2-2021 2nd: Door Hanger Left:	
Comments: House. Spoke to Mr. Powell during field visit 7-22-2021. Said he uses public and declines any testing.	water source
Site Number: 17 Distance from Gas Well (feet): 1991 ±	
Surface Owner / Occupant: Ronald Powell Sr - c/o Ronald Powell Jr	□ Landowner Requested Sampling
Address: 218 Chestnut Ave. Mannington WV 26582 Phone#: 304-986-2741 / Cel#: 304-612-8812	☐ Landowner Decline Sampling
Field Located Date: 9-3-2021 Owner home during survey (yes/no): No	☐ Unable to Contact (Further contact attempts to be made by EQT's third party
Coordinates: 39.544237, -80.480910 (decimal degrees – NAD 83)	pre-drill sampling lab)
Contact Attempts (Date): 1st: 7-2-2021 2nd: Door Hanger Left: Yes	
Comments: Certified sent 7-2-2021. Field visit 7-22-2021. Doorhanger left. Spring_near Ronald Powell Jr. called on 7-26-2021 wanting testing. Had additional sources (Sites 5 &	main road. & 17 through 21).
Site Number: 18 Distance from Gas Well (feet): 1709 ±	
Surface Owner / Occupant: Ronald Powell Sr - c/o Ronald Powell Jr	☐ Landowner Requested
Address: 218 Chestnut Ave. Mannington WV 26582 Phone#: 304-986-2741 / Cel#: 304-612-8812	Sampling ☐ Landowner Decline Sampling
Field Located Date: 9-3-2021 Owner home during survey (yes/no): No	Unable to Contact (Further contact attempts to be
Coordinates: 39.544244, -80.479546 (decimal degrees – NAD 83)	made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1st: 7-2-2021 2nd: Door Hanger Left: Yes	
Comments: Certified sent 7-2-2021. Field visit 7-22-2021. Doorhanger left. Hand-dug <u>W</u> beside house. Ronald Powell Jr. called on 7-26-2021 wanting testing. Had additional so 17 through 21).	<u>/ater well</u> – ources (Sites 5 &

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WV Department of Environmental Proteotion

Site Number: 19	istance from Gas Well (feet): 169	6 ±	
Surface Owner / Occupa	t: Ronald Powell Sr - c/o Ronald	i Powell Jr	
Address: 218 Chestnut / Phone#: 304-986-2741 /	ve. Mannington WV 26582 Cel#: 304-612-8812		☐ Landowner Decline Sampling
Field Located Date: 9-3-	Owner home during surve	y (yes/no): No	☐ Unable to Contact (Further contact attempts to be made by EQT's third party
Coordinates: 39.543515,	80.478681 (decimal degrees – Na	AD 83)	pre-drill sampling lab)
Contact Attempts (Date)	1 st : 7-2-2021 2 nd : Door H	langer Left: Yes	
	7-2-2021. Field visit 7-22-2021. Eing testing. Had additional source		Powell Jr.
Site Number: 20	sistance from Gas Well (feet): 221	1±	
Surface Owner / Occupa	t: Ronald Powell Sr - c/o Ronald	l Powell Jr	
Address: 218 Chestnut Phone#: 304-986-2741 /	ve. Mannington WV 26582 Cel#: 304-612-8812		Sampling Landowner Decline Sampling
Field Located Date: 9-3-	021 Owner home during surve	y (yes/no): No	☐ Unable to Contact (Further contact attempts to be
Coordinates: 39.541436	-80.477285 (decimal degrees – N	AD 83)	made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date)	1 st : 7-2-2021 2 nd : Door H	langer Left: Yes	
	7-2-2021. Field visit 7-22-2021. Ealled on 7-26-2021 wanting testin		
Site Number: 21	sistance from Gas Well (feet): 224	8 ±	
Surface Owner / Occupa	it: Ronald Powell Sr - c/o Ronald	d Powell Jr	□ Landowner Requested
Address: 218 Chestnut Phone#: 304-986-2741 /	ve. Mannington WV 26582 Cel#: 304-612-8812		Sampling Landowner Decline Sampling
Field Located Date: 9-3-	021 Owner home during surve	y (yes/no): No	☐ Unable to Contact (Further contact attempts to be
Coordinates: 39.541054	-80.475978 (decimal degrees – N	AD 83)	made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date)	1 st : 7-2-2021 2 nd : Door H	langer Left: Yes	
Comments: Certified ser basin. Ronald Powell Jr. 21).	7-2-2021. Field visit 7-22-2021. E alled on 7-26-2021 wanting testin	Doorhanger left. <u>Spring</u> on hill g. Had additional sources (Si	with tub for tes 17 through

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WV Department of Environmental Protection

11/19/2021

Vanderbilt

4704902509

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 Higgins and Eva Higgins

3418 Buffalo Brink Road

Mannington, WV 26582

Water Supply Owners within 1,500':

Larry Higgins and Eva Higgins

3418 Buffalo Brink Road

Mannington, WV 26582

Office of Oil and Gas
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Coal Owners:

- MINCO I, Inc.
 C/O Consolidation Coal
 1000 Consol Energy Drive
 Canonsburg, PA 15317
- Larry Higgins and Eva Higgins
 3418 Buffalo Brink Road
 Mannington, WV 26582
- Susan Powell Wyckoff
 PO Box 751
 Granville, WV 26534
- Jennifer Lynn Huey
 111 Ridgewood Road
 Fairmont, WV 26554
- Jefry Louis Huey √
 111 Ridgewood Road
 Fairmont, WV 26554
- Kenneth R. Minor
 143 Ices Run Road
 Fairmont, WV 26554
- John D. Minor
 2900 Patrie Place
 Raleigh, NC 27613
- Cathy A. Fridley
 28 Edencourt Lane
 Fairmont, WV 26554

Coal Operator:

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

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WV Department of Environmental Protection

4704902509

WV Departmental Protection 21

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

Date of Notic		Dormit Application Filad: 10/11/2021	
	Date.	Permit Application Filed: 10/11/2021	
Jenvery mel	hod pursuant to West Virginia Code	§ 22-6A-16(b)	
☐ HAND	CERTIFIED MAIL		
DELIVE		REQUESTED	
eceipt requestrilling a hore of this subsection mand if availab	sted or hand delivery, give the surface izontal well: <i>Provided</i> , That notice gittion as of the date the notice was provay be waived in writing by the surface le, facsimile number and electronic management.	owner notice of its intent to enter upon the ven pursuant to subsection (a), section to ided to the surface owner: <i>Provided, how owner</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 m of this article satisfies the requirements vever. That the notice requirements of this ude the name, address, telephone number, m's authorized representative.
	reby provided to the SURFACE	OWNER(s):	in all Es House
Name: See Alta	connent	Name: Larry Hys Address: 3418 Buth	L. Dobate Pand
rudiess.		Moundaless.	WV 26582
			ANA COST C
ursuant to V ne surface ov tate:	wner's land for the purpose of drilling West Virginia	ice is hereby given that the undersigned a horizontal well on the tract of land as fo	well operator has an intent to enter upon llows; 545120.30
ursuant to V ne surface ov tate: County: District:	Vest Virginia Code § 22-6A-16(b), not when's land for the purpose of drilling West Virginia Marion Mannington	ice is hereby given that the undersigned a horizontal well on the tract of land as for the undersigned. UTM NAD 83 Easting: Northing: Public Road Access:	well operator has an intent to enter upon llows; 545120.30 4377625.50 CR-1
ursuant to V ne surface ov tate: County: District: Quadrangle: Vatershed:	Vest Virginia Code § 22-6A-16(b), not when's land for the purpose of drilling West Virginia Marion Mannington Glover Gap Evans Run & Buffalo Creek	ice is hereby given that the undersigned a horizontal well on the tract of land as for the undersigned. UTM NAD 83 Rosthing:	well operator has an intent to enter upon illows; 545120.30 4377625.50
ursuant to V ne surface ov tate: County: District: Quadrangle: Vatershed: This Notice tursuant to V necimile nur elated to hor ocated at 600	Vest Virginia Code § 22-6A-16(b), not when's land for the purpose of drilling West Virginia Marion Mannington Glover Gap Evans Run & Buffalo Creek Shall Include: West Virginia Code § 22-6A-16(b), in the mber and electronic mail address of the rizontal drilling may be obtained from 1 57th Street, SE, Charleston, WV 2536 reby given by:	ice is hereby given that the undersigned a horizontal well on the tract of land as for the lan	well operator has an intent to enter upon flows; 545120.30 4377625.50 CR-1 Vanderbilt ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
ursuant to Vene surface of tate: County: District: Duadrangle: Vatershed: Chis Notice Ursuant to Venesimile nurelated to horocated at 60 Vell Operato	Vest Virginia Code § 22-6A-16(b), not when's land for the purpose of drilling West Virginia Marion Mannington Glover Gap Evans Run & Buffalo Creek Shall Include: West Virginia Code § 22-6A-16(b), in the standard drilling may be obtained from 1 57th Street, SE, Charleston, WV 2536	ice is hereby given that the undersigned a horizontal well on the tract of land as for the control of land as for the land as	well operator has an intent to enter upon flows; 545120.30 4377625.50 CR-1 Vanderbilt ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
ursuant to Vene surface of tate: County: District: Duadrangle: Vatershed: Chis Notice Ursuant to Venesimile nurelated to horocated at 60 Vell Operato	Vest Virginia Code § 22-6A-16(b), not when's land for the purpose of drilling West Virginia Marion Mannington Glover Gap Evans Run & Buffalo Creek Shall Include: West Virginia Code § 22-6A-16(b), in the mber and electronic mail address of the rizontal drilling may be obtained from 1 57th Street, SE, Charleston, WV 2536 reby given by:	ice is hereby given that the undersigned a horizontal well on the tract of land as for the lan	well operator has an intent to enter upon flows; 545120.30 4377625.50 CR-1 Vanderbilt ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
ursuant to Vale surface of tate: founty: founty: fustrict: fuadrangle: fatershed: This Notice fursuant to Vale and to hot to be at the full of the fu	Vest Virginia Code § 22-6A-16(b), not when's land for the purpose of drilling west Virginia Marion Mannington Glover Gap Evans Run & Buffalo Creek Shall Include: West Virginia Code § 22-6A-16(b), in the moder and electronic mail address of the rizontal drilling may be obtained from 1 57th Street, SE, Charleston, WV 2530 reby given by: r: EQT Production Company 400 Woodcliff Drive Canonsburg, PA 15317	ice is hereby given that the undersigned a horizontal well on the tract of land as for the control of the control of the control of the control of the secretary, at the WV Department of the Secretary of	well operator has an intent to enter upon llows; 545120.30 4377625.50 CR-1 Vanderbilt ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. John Zavatchan 400 Woodcliff Drive Canonsburg, PA 15317
ursuant to V ne surface ov tate: County: District: Duadrangle: Vatershed: Chis Notice ursuant to v nesimile nur elated to hor ocated at 600 Notice is he Vell Operato Address: Celephone:	Vest Virginia Code § 22-6A-16(b), not when's land for the purpose of drilling west Virginia Mannington Glover Gap Evans Run & Buffalo Creek Shall Include: West Virginia Code § 22-6A-16(b), inber and electronic mail address of trizontal drilling may be obtained from 1.57th Street, SE, Charleston, WV 2530 reby given by: r: EQT Production Company 400 Woodcliff Drive Canonsburg, PA 15317 724-746-9073	ice is hereby given that the undersigned a horizontal well on the tract of land as for the lan	well operator has an intent to enter upon flows; 545120.30 4377625.50 CR-1 Vanderbilt ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. John Zavatchan 400 Woodcliff Drive Canonsburg, PA 15317 724-746-9073
ursuant to Vene surface of tate: County: District: Duadrangle: Vatershed: Chis Notice ursuant to Vene acsimile number to hoo to be at 60 decided at 60 decid	Vest Virginia Code § 22-6A-16(b), not when's land for the purpose of drilling west Virginia Marion Mannington Glover Gap Evans Run & Buffalo Creek Shall Include: West Virginia Code § 22-6A-16(b), in the moder and electronic mail address of the rizontal drilling may be obtained from 1 57th Street, SE, Charleston, WV 2530 reby given by: r: EQT Production Company 400 Woodcliff Drive Canonsburg, PA 15317	ice is hereby given that the undersigned a horizontal well on the tract of land as for the control of the control of the control of the control of the secretary, at the WV Department of the Secretary of	well operator has an intent to enter upon llows; 545120.30 4377625.50 CR-1 Vanderbilt ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. John Zavatchan 400 Woodcliff Drive Canonsburg, PA 15317

DEP's Chief Privacy Officer at depprivacyofficer@wv.gov. RECEIVED Gas Office of Oil and Gas

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

ate of Notic	e: 10/06/2021	Date Permit A	pplication Filed: 19/1	date of permit	аррисанон.
Delivery met	hod pursuant to West V	irginia Code §	22-6A-16(c)		
■ CERTII	RIED MAIL		HAND		
	N RECEIPT REQUEST		DELIVERY		
			THE STATE OF THE S		
eturn receipt ne planned of equired to be rilling of a l amages to th d) The notice f notice.	requested or hand deliver peration. The notice rec provided by subsection (norizontal well; and (3) A e surface affected by oil a	ry, give the surfi- quired by this s b), section ten of A proposed surf- and gas operation shall be given to	ace owner whose land ubsection shall include of this article to a surfa- ace use and compens are to the extent the da to the surface owner a	will be used for le: (1) A copy acc owner whose ation agreement mages are com	cation, an operator shall, by certified mains or the drilling of a horizontal well notice of this code section; (2) The information see land will be used in conjunction with the containing an offer of compensation for pensable under article six-b of this chapter sted in the records of the sheriff at the time.
at the address	s listed in the records of the	he sheriff at the	time of notice):		
lame: Larry Hig	gins & Eva Higgins	he sheriff at the	Name:		
Name: Larry Hig Address: 3418	gins & Eva Higgins Buffalo Brink Road	he sheriff at the		,	
Name: Larry Hig Address: 3418 Mannington, WV: Notice is here Pursuant to W	gins & Eva Higgins Buffalo Brink Road 6582 Pby given: est Virginia Code § 22-6	A-16(c), notice	Name: Address is hereby given that th	e undersigned	well operator has developed a planned
Name: Larry High Address: 3418 Mannington, WV: Notice is here Jursuant to W peration on state:	gins & Eva Higgins Buffalo Brink Road 16582 Pby given:	A-16(c), notice	Name: Address is hereby given that th	e undersigned well on the tra Easting:	
Jame: Larry Hig Address: 3418 Mannington, WV: Jotice is here tursuant to W peration on tate: County:	gins & Eva Higgins Buffalo Brink Road 6582 eby given: fest Virginia Code § 22-6 the surface owner's land West Virginia	A-16(c), notice	Name: Address is hereby given that the of drilling a horizonta	e undersigned well on the tra Easting: Northing:	act of land as follows: 545120.30
lame: Larry High didress: 3418 Mannington, WV: Indice is here ursuant to Wigner atte: County: District:	gins & Eva Higgins Buffalo Brink Road 16582 Peby given: Test Virginia Code § 22-6 the surface owner's land West Virginia Marion	A-16(c), notice	Name: Address is hereby given that the difference of drilling a horizonta UTM NAD 8 Public Road	e undersigned well on the tra Easting: Northing:	act of land as follows: 545120.30 4377625.50
Name: Larry High Address: 3418 Mannington, WV 2 Notice is here Pursuant to Waperation on State: County: District: Quadrangle:	gins & Eva Higgins Buffalo Brink Road 6582 Peby given: (est Virginia Code § 22-6 the surface owner's land West Virginia Marion Mannington	A-16(c), notice	Name: Address is hereby given that the difference of drilling a horizonta UTM NAD 8 Public Road	te undersigned I well on the tra 3 Easting: 3 Northing:	act of land as follows: 545120.30 4377625.50 CR-1
Name: Larry High Address: 3418 Mannington, WV 3 Motice is here Pursuant to We peration on State: County: District: Quadrangle: Vatershed: Pursuant to We be provide for izontal we for the provide for izontal we for mation in the provide for izontal we we arface affect in formation in the provide for izontal we were affect in formation in the provide in the provide formation in the provide information in the provide information in the provide information in the provide information in the provided in the pro	eby given: est Virginia Code § 22-6 the surface owner's land West Virginia Marion Mannington Glover Gap Evans Run & Buffalo Creek Chall Include: est Virginia Code § 22-6 d by W. Va. Code § 22-0 d by W. Va. Code § 22-0 d by oil and gas operatical delated to horizontal drillial located at 601 57th Street	A-16(c), notice for the purpose of A-16(c), this notice for the purpose of A-10(b) to a reface use and coions to the extering may be obtained.	Name: Address is hereby given that the of drilling a horizonta UTM NAD 8 Public Road a Generally use otice shall include: (1) surface owner whose ompensation agreement the damages are comined from the Secret	e undersigned well on the tra Easting: Northing: Access: d farm name: A copy of this land will be int containing and impensable undersigned ary, at the WV	act of land as follows: 545120.30 4377625.50 CR-1
Mame: Larry High diddress: 3418 Mannington, WV: WV: Motice is here tursuant to W peration on tate: County: District: Quadrangle: Watershed: Wat	eby given: est Virginia Code § 22-6 the surface owner's land West Virginia Marion Mannington Glover Gap Evans Run & Buffalo Creek Cest Virginia Code § 22-6 thall Include: est Virginia Code § 22-6 thall Include: fest Virginia Code § 22-6 thall include: fest Virginia Code § 22-6 thall include: fest Virginia Code § 25-6 thall include: fest Virginia Code §	A-16(c), notice for the purpose of A-16(c), this notice for the purpose of A-10(b) to a reface use and coions to the extering may be obtained.	Name: Address is hereby given that the of drilling a horizonta UTM NAD 8 Public Road a Generally use otice shall include: (1) surface owner whose ompensation agreement the damages are comined from the Secret	e undersigned well on the tra Easting: Northing: Access: d farm name: A copy of this land will be int containing and impensable undersigned ary, at the WV	act of land as follows: 545120.30 4377625.50 CR-1 Vanderbilt (Larry D. & Trisha B. Higgins) code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection
Name: Larry High Address: 3418 Mannington, WV: Workershed: Watershed: Watersh	eby given: est Virginia Code § 22-6 the surface owner's land West Virginia Marion Mannington Glover Gap Evans Run & Buffalo Creek Cest Virginia Code § 22-6 thall Include: est Virginia Code § 22-6 thall Include: fest Virginia Code § 22-6 thall include: fest Virginia Code § 22-6 thall include: fest Virginia Code § 25-6 thall include: fest Virginia Code §	A-16(c), notice for the purpose of A-16(c), this notice for the purpose of A-10(b) to a reface use and coions to the extering may be obtained.	Name: Address is hereby given that the of drilling a horizonta UTM NAD 8 Public Road a Generally use of the shall include: (1) surface owner whose ompensation agreement the damages are companied from the Secret eleston, WV 25304	A copy of this land will be undersigned: A copy of this land will be undersigned ary, at the WV 304-926-0450	act of land as follows: 545120.30 4377625.50 CR-1 Vanderbill (Larry D. & Trisha B. Higgins) code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and

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

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OCJ 12 2021



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

D. Alan Reed, P.E. State Highway Engineer 1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

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

October 8, 2021

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

Subject: DOH Permit for the Vanderbilt Pad, Marion County Vanderbilt 8H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2021-0331 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 October 1, 2018. This letter is valid for permitting purposes for one year from the date of this letter.

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OCT 12 2021

WV Department of Environmental Protection

Cc: Olivia Wilson

EQT Production Company

CH, OM, D-4

File

Very Truly Yours,

Gary K. Clayton, P.E.

Gay K. Clayton

Regional Maintenance Engineer Central Office O&G Coordinator

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

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WV Department of Environmental Protection

EROSION & SEDIMENT CONTROL PLAN

APPROVED
WVDEP OOG

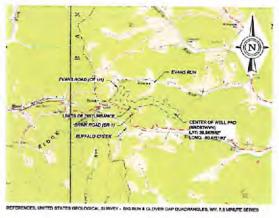
VANDERBILT WELL SITE

MARION COUNTY, WEST VIRGINIA FOR

EQT PRODUCTION COMPANY

VANOCREILT WELL LOCATIONS						
WELL CHESICAN TION	LATINADED	CONCHADES	MORTHMIGHADICAL	EASTINGINADED	NORTH NG(MAD27)	EASTINGENABLE?
714	25.545/999	90,474208	352535.1024	1803594.813	382800 556	1725083 P99
411	29,547939	80,476659	302852 6814	1603598.208	\$52815.135	1725037 193
441	25.547079	80.470575	383M7 2617	1591601 523	M2829.715	1725040.508
gui	35.547)19	83.47896A	362992.9423	1503604.879	\$12544.294	1725048.852
201	39.547159	80.474857	3829%, 421	1553505,233	352958-874	1775047,715

LANDOWNER	ACCESS ROAD	WELL PAD	STOCKPLES	DISTURBANCE
ALLEG-ENY FORESTLANDS LLC	rea.	0.23 AC	ASA	0.23 AC
ALLEGHENY FORESTLANDS LLC	9.78.AC	2.75 AC	13.31 AC	28.83 AC
24 12 0045 0018 0000 POWELL KEITHAM RITAG	4.85 AC	NA	397 AC	8 82 AC
24-12-0045-0004-0000 HIXENBAUGH THOMAS A & KAREN J	1.16 AC	MA	MA	1.16.AC
24-12-0045-0014-0001 POWELL PATRICIA F	247 AG	NA.	N/A	247 AC
24-12-0045-0014-0002 COENTHELMAL	0.45 AC	N/A	NA.	843 AC
24-12-0045-0013-0000 COENTHELMA L	034 AC	NA	NA	0.34 AC
24-12-0045-0011-0000 HIGGINS LARRY D & LORELJ	1191AC	5.45 AG	013AG	17.49 AC
WYDOH RIGHT OF WAY	0.03 AC	NA	NA	0.03 AC





PROJECT NO. 20070-002 AUGUST 2021

DIEFFENBAUCH & HRITZ, LLC

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Boger Hum 8-31-21

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SOS ORAMA BLB OFFICE ATTRIONED AUG 2021 DATE 2007C-002

ATTENNED

AUG 20070-002

MOLEC 100

International State Stat

PRODUCTION COMPANY

ERBILT WELL SITE

TITLE SHEET

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