

## 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, October 28, 2024 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

**EQT PRODUCTION COMPANY** 400 WOODCLIFF DR.

CANONSBURG, PA 15317

Re:

Permit Modification Approval for VANDERBILT 6H

47-049-02536-00-00

Lateral Extension

#### **EQT PRODUCTION COMPANY**

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before 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 6H

Farm Name: LARRY AND TRISHA HIGGINS

U.S. WELL NUMBER: 47-049-02536-00-00

Horizontal 6A New Drill

Date Modification Issued: 10/28/2024

Promoting a healthy environment.

API NO. 47- 049	_ 02536	/	
OPERATOR W	/ELL NO. 6	БH	
Well Pad Nar	ne. Vanderb	ilt	A CONTRACTOR OF THE PARTY OF TH

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

1) Well Opera	tor: EQT Prod	duction Con	npany	306686	Marion	/	Manning	f Glover Gap
				Operator ID	County		District	Quadrangle
2) Operator's V	Well Number:	6H		Well Pa	ad Name: Va	and	erbilt	
3) Farm Name	Surface Owner	:: Larry & Tr	risha Hig	gins Public Ro	ad Access:	CR-	1	
4) Elevation, c	urrent ground:	1,358' (bu	uilt) Ele	vation, proposed	l post-constru	actio	on: 1,358'	' (built)
5) Well Type	(a) Gas X Other			Uno				
	-	hallow X	(	Deep	110000000000000000000000000000000000000			
	Н	orizontal X	(					
6) Existing Pac	d: Yes or No Y	es /						
7) Proposed Ta Marcellus, 7,	arget Formation ,735', 56', 2,620	(s), Depth(s) psi	, Anticip	pated Thickness	and Expected	d Pr	essure(s):	
8) Proposed To	otal Vertical Dep	pth: 7,735'	1			el l'administration		
	t Total Vertical		rcellus	/		-1-27-0/50	200	
10) Proposed T	otal Measured	Depth: 21,	213'	/				
11) Proposed H	Horizontal Leg I	Length: 12,	953'					
12) Approxima	ite Fresh Water	Strata Depth	is:	253', 504'				
	Determine Fres		ths: Of	fset Wells - 049	9-01784, 049	9-30	0593, 049	-30230 /
14) Approxima	ite Saltwater De	pths: N/A	<del>/</del>					
15) Approxima	te Coal Seam D	Depths: 1,18	31'-1,188	3'				RECEIVED Office of Oil and Gas
16) Approxima	te Depth to Pos	sible Void (c	coal mine	e, karst, other):	N/A			OCT 23 2024
	osed well location			Yes X	1	No		WV Department of Environmental Protection
(a) If Yes, pro	ovide Mine Info	: Name:	Harriso	on County Mine				
0 V # 6	66 100	Depth:	1,181'-	1,188'				
CK # 6	750000	Seam:	Pittsbu	<b>r</b> gh				
邳	[500]	Owner:	Harrisc	on County Coal	Resources,	Inc		
			Kenn	y Willett	10/23/2	24	1	

WW-6B
(04/15)

API NO. 47- 049 - 02536

OPERATOR WELL NO. 6H
Well Pad Name: Vanderbilt

18)

# CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well	CEMENT: Fill-up
Conductor	26	New	A252	85.6	53	(ft) 53	(Cu. Ft.)/CTS 45 ft^3 / CTS
Fresh Water	13 3/8	New	J-55	54.5	1238	1238	1135 ft^3 / CTS
Coal							
Intermediate	9 5/8	New	J-55	36	2685	2685 /	1035 ft^3 / CTS
Production	6	New	P-110	24	21213	21213	500' above intermediate casing
Tubing							
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	26	30	0.312	1000	18	Class A/L	1.04 - 1.20
Fresh Water	13 3/8	17 1/2	0.380	2730	2184	Class A/L	1.04 - 1.20
Coal							
Intermediate	9 5/8	12 3/8 - 12 1/4	0.352	3520	2816	Class A/H/L	1.04 - 1.20
Production	6	8 3/4 - 8 1/2	0.400	14580	11664	Class A/H/L	1.04 - 2.10
Tubing							2.10
Liners							
						ROTTON D	ā

OCT 1 7 2024

## **PACKERS**

Kind:	
Sizes:	
Depths Set:	

Kenny Willett

API NO. 47- 049	-	02536
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OPERATOR WELL NO. 6H

Well Pad Name: Vanderbilt

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

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

OCT 1 7 2024

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

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

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 56.80 acres (built)
- 22) Area to be disturbed for well pad only, less access road (acres): 8.44 acres (built)
- 23) Describe centralizer placement for each casing string:
- Surface: Bow spring centralizers One centralizer at the shoe and one spaced every 500'.
- Intermediate: Bow spring centralizers— One centralizer at the shoe and one spaced every 500'.
- Production: One solid body centralizer spaced every other joint from production casing shoe to landing point. One solid body centralizer spaced every joint from landing point to planned top of cement.

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

Conductor: Class A no additives

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

Intermediate: Calcium Chloride. Used to speed the setting of cement slurries. If applicable: Gas Migration Control Additive, Cement Retarder 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.

Kenny Willett

**EQT Production** Wellbore Diagram Well: Vanderbilt 6H County: Marion Pad: Vanderbilt State: West Virginia Elevation: 1358' GL 1371' KB Conductor @ 53' 26", 85.6#, A252, cement to surface w/ Class A/L Surface @ 1,238' 13-3/8", 54.5#, J-55, cement to surface w/ Class A/L OCT 1 7 2024 Intermediate (a) 2,685' 9-5/8", 36#, J-55, cement to surface w/ Class A/H/L @ 21,213' MD / 7,735' TVD Production 6", 24#, P-110, cement to 500' inside 9-5/8" w/ Class A/H/L Formation: Marcellus

**EQT Production** 

Hydraulic Fracturing Monitoring Plan

Pad ID: Vanderbilt

County: Marion

Office | Case |

October 4, 2024

#### 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**.

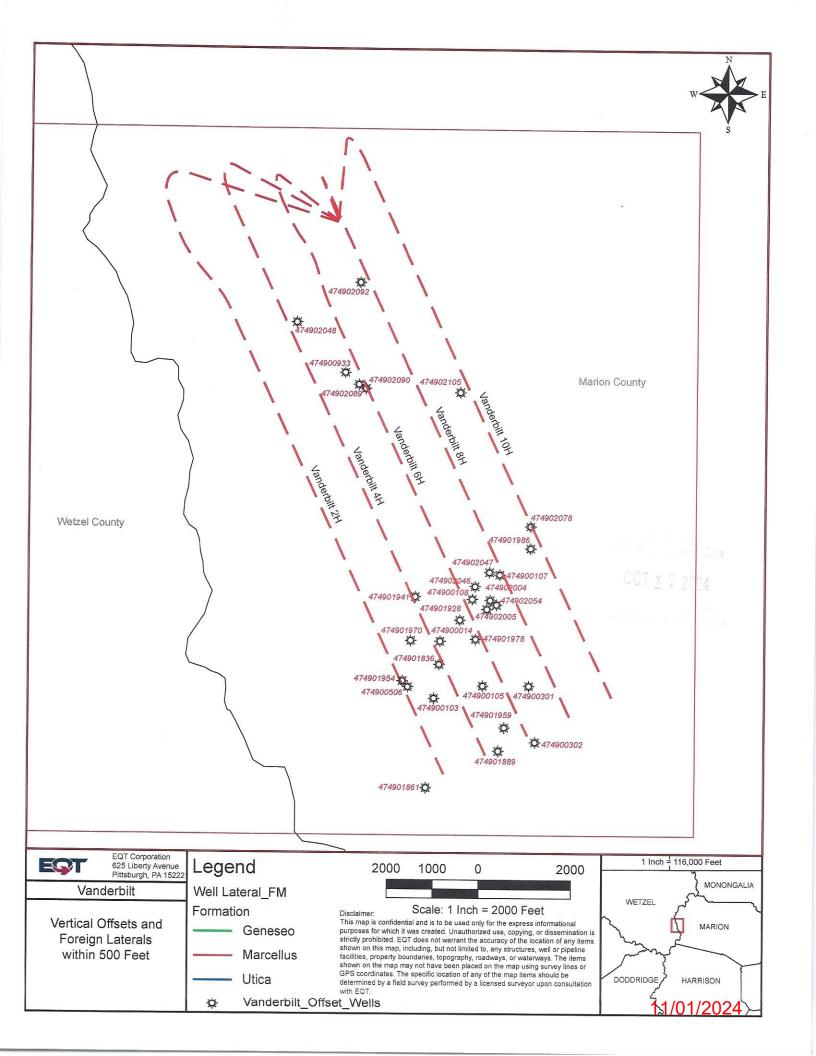
EQT will notify these operators of the hydraulic fracturing schedule for these wells, and coordinate with them throughout the fracturing process.

EQT will recommend to these operators at a minimum to:

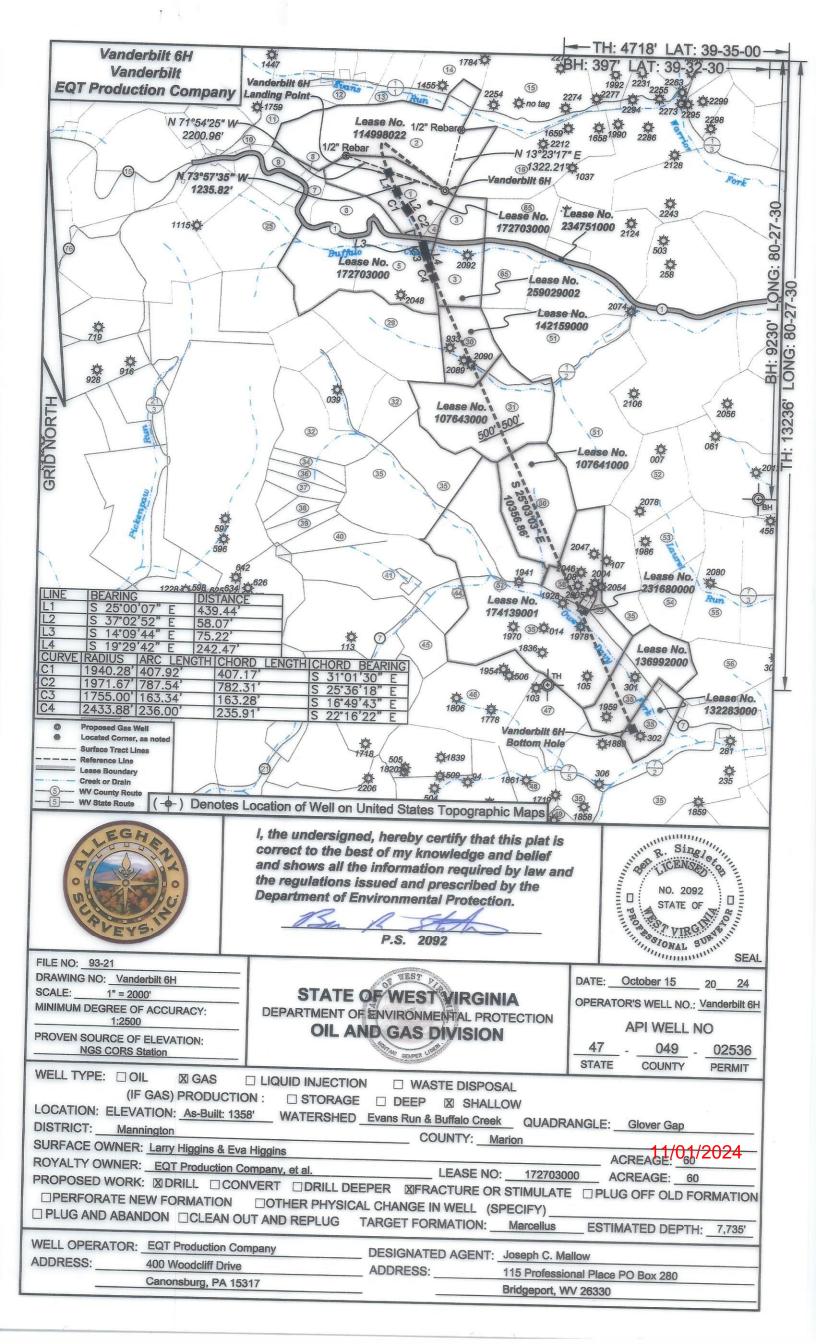
- 001 1 1 2024
- Inspect their surface equipment prior to fracturing to establish integrity and establish prefrac well conditions
- Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure
- Inspect or install master valves or other necessary equipment 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.



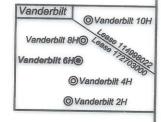
	**							
UWI	ABAND_DATE CURR_OPER	ELEV RE CE	FIELD_NAME	5111 01 105				
017850000	GALLATIN FUELS INC	GR GR	COBURN-EARNSHAW	FNL_CLASS	LATITUDE LONGITUDE OPER_NAME	PROJ TD SPUD DATE FOR		
018270000	SHEDTING FOLES INC	GR	COBURN-EARNSHAW		39.55569440 -80.47583330 GALLATIN FUELS INC	The state of the s		TOT_DEPTH
001030000	7/22/2008 SOUTH PENN OIL	GR	UNNAMED	The state of the s	39.55583480 -80.47603930 GALLATIN FUELS INC		1421.00	3700.00
303600000	7/23/1942 PITTSBURGH OIL & GAS	GR	SMITHFIELD	DEVELOPMENT WELL-GAS	39.51850500 -80.46698200 SOUTH PENN OIL		1413.00	3686.00
000140000	10/22/2008 SOUTH PENN OIL	GR	WALLACE-FOLSOM	DEVELOPMENT WELL-OIL	39.55140300 -80.48129800 PITTSBURGH OIL & GAS		1348.00	3369.00
005060000	CONSOLIDATION COAL CO	TS	WALLACE-FOLSOM	DEVELOPMENT WELL-OIL	39.52163700 -80.46732600 SOUTH PENN OIL	0.00000000 6/1/1917	1331.00	2489.00
018360000	10/29/2007 CONSOLIDATION COAL CO	GR		DEVELOPMENT WELL-OIL	39.51917000 -80.46901210 PENNZOIL CO INC	0.00000000 1/17/1930	1320.00	3368.00
001050000		GR	WALLACE-FOLSOM WALLACE-FOLSOM	DEVELOPMENT WELL-GAS	39.52044440 -80.46641670 CONSOLIDATION COAL CO	0.00000000 11/3/1928	1300.00	3342.00
/001080000	4/26/1974 SOUTH PENN OIL	GR	WALLACE-FOLSOM	DEVELOPMENT WELL-OIL	39.51990800 -80.46481200 SOUTH PENN OIL	0.00000000 18010101	1274.00	1600.00
020470000	10/20/2009 CONSOLIDATION COAL CO	GR	WALLACE-FOLSOM	DEVELOPMENT WELL-OIL	39.52428500 -80.46350900 SOUTH PENN OIL	0.00000000 10/2/1942	1252.00	3261.00
017770000	11/7/2006 CONSOLIDATION COAL CO	GR		DEVELOPMENT WELL-GAS	39.52619440 -80.46288890 CONSOLIDATION COAL CO	0.00000000 10/2/1942	1208.00	3130.00
<b>2003020000</b>	9/2/2008 EQUITABLE GAS CO	GR	WALLACE-FOLSOM LOGANSPORT	DEVELOPMENT WELL-GAS	39.51522210 -80.46177780 CONSOLIDATION COAL CO	0.00000000 18010101	1200.00	1565.00
001070000	5/4/1974 SOUTH PENN OIL	GR	WALLACE-FOLSOM	GAS STORAGE WELL	39.51594700 -80.45913400 EQUITABLE GAS CO	0.00000000 18010101	1195.00	1368.00
<b>≥</b> 020890000	3/18/2010 CONSOLIDATION COAL CO	GR		DEVELOPMENT WELL-GAS	39.52601200 -80.46182000 SOUTH PENN OIL	0.00000000 9/1/1970	1191.00	1535.00
020540000	11/5/2009 CONSOLIDATION COAL CO	GR	UNNAMED	DEVELOPMENT WELL-GAS	39.53716670 -80.47277780 CONSOLIDATION COAL CO	0.00000000 7/2/1942	1178.00	3126.00
014550000	GALLATIN FUELS INC	КВ	WALLACE-FOLSOM	DEVELOPMENT WELL-OIL	39.52425000 -80.46230560 CONSOLIDATION COAL CO	0.00000000 18010101	1150.00	1500.00
014550001	GALLATIN FUELS INC	KB	SEVEN PINES	DEVELOPMENT WELL-GAS	39.55315280 -80.47557220 FALCON HOLDINGS LLC	0.00000000 18010101	1149.00	1300.00
021050000	6/1/2010 CONSOLIDATION COAL CO	GR	SEVEN PINES	DEVELOPMENT WELL-GAS	39.55315280 -80.47557220 FALCON HOLDINGS LLC	3350.00000000 12/22/2003	1109.00	2300.00
700520000	SOUTH PENN OIL	GR	UNNAMED	DEVELOPMENT WELL-GAS	39.53672220 -80.46536110 CONSOLIDATION COAL CO	3400.00000000 9/5/2004	1109.00	3426.00
003010000	11/24/2006 EQUITABLE GAS CO	GR	WALLACE-FOLSOM	DEVELOPMENT WELL-OIL	39.52425000 -80.46376610 SOUTH PENN OIL	0.00000000 18010101	1077.00	1251.00
009330000	4/6/2010 LEATHERWOOD INC	GR	LOGANSPORT	GAS STORAGE WELL	39.51931700 -80.45968200 EQUITABLE GAS CO	0.00000000 6/8/1902	1075.00	3013.00
700510000	SOUTH PENN OIL	GN	UNNAMED	DEVELOPMENT WELL-OIL	39.53787700 -80.47421700 GARNER & GAWTHROP INC	0.00000000 6/1/1970	1046.00	2341.00
300210000	9/27/1930 SOUTHERN OIL INC		UNKNOWN	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.52439500 -80.46826200 SOUTH PENN OIL	0.00000000 18010101	1046.00	0.00
702110000	SOUTH PENN OIL		UNKNOWN	UNCLASSIFIED	39.55009700 -80.48268700 SOUTHERN OIL INC	0.00000000 18010101	0.00	0.00
722760000	UNKNOWN		UNKNOWN	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.53731300 -80.47163400 SOUTH PENN OIL	0.00000000 2/12/1917	0.00	0.00
722770000	UNKNOWN		UNKNOWN	UNCLASSIFIED	39.54356500 -80.47294600 UNKNOWN	0.00000000 18010101	0.00	0.00
722590000	UNKNOWN		UNKNOWN	UNCLASSIFIED	39.54298500 -80.48231300 UNKNOWN	0.00000000 18010101	0.00	0.00
722600000	UNKNOWN		UNKNOWN	UNCLASSIFIED	39.54603300 -80.47463200 UNKNOWN	0.00000000 18010101	0.00	0.00
722610000	UNKNOWN		UNKNOWN	UNCLASSIFIED	39.55096700 -80.47837810 UNKNOWN	0.00000000 18010101	0.00	0.00
722680000	UNKNOWN		UNKNOWN	UNCLASSIFIED	39.55096700 -80.48062700 UNKNOWN	0.00000000 18010101	0.00	0.00
722690000	UNKNOWN		UNKNOWN	UNCLASSIFIED	39.54951590 -80.48418600 UNKNOWN	0.00000000 18010101	0.00	0.00
722830000	UNKNOWN		UNKNOWN	UNCLASSIFIED	39.54864500 -80.48456100 UNKNOWN	0.00000000 18010101	0.00	0.00
722850000	UNKNOWN		UNKNOWN	UNCLASSIFIED	39.53847400 -80.47538100 UNKNOWN	0.00000000 18010101	0.00	0.00
722970000	UNKNOWN		UNKNOWN	UNCLASSIFIED	39.53324900 -80.47669200 UNKNOWN	0.00000000 18010101	0.00	0.00
722730000	UNKNOWN		UNKNOWN	UNCLASSIFIED	39.52454000 -80.46395300 UNKNOWN	0.00000000 18010101	0.00	0.00
722750000	UNKNOWN		UNKNOWN	UNCLASSIFIED	39.54646800 -80.48605900 UNKNOWN	0.00000000 18010101	0.00	0.00
722860000	UNKNOWN			UNCLASSIFIED	39.54574200 -80.48062700 UNKNOWN	0.00000000 18010101	0.00	0.00
723000000	UNKNOWN		Andrew Company of the	UNCLASSIFIED	39.53194200 -80.47688000 UNKNOWN	0.00000000 18010101	0.00	0.00
723020000	UNKNOWN			UNCLASSIFIED	39.52323400 -80.46545200 UNKNOWN	0.00000000 18010101	0.00	0.00
723010000	UNKNOWN			UNCLASSIFIED	39.52207300 -80.46376610 UNKNOWN	0.00000000 18010101	0.00	0.00
723030000	UNKNOWN		********	UNCLASSIFIED	39.52163700 -80.46788800 UNKNOWN	0.00000000 18010101	0.00	0.00
722740000	UNKNOWN			UNCLASSIFIED	39.51989600 -80.46601400 UNKNOWN	0.00000000 18010101	0.00	0.00
722780000	UNKNOWN			UNCLASSIFIED	39.54617800 -80.48250000 UNKNOWN	0.00000000 18010101	0.00	0.00
722870000	UNKNOWN			UNCLASSIFIED	39.54356500 -80.48512300 UNKNOWN	0.00000000 18010101	0.00	0.00
302110000	7/21/1939 CARNEGIE NATURAL GAS CORP			UNCLASSIFIED	39.53716690 -80.46357900 UNKNOWN	0.00000000 18010101	0.00	0.00
722940000	UNKNOWN		INKNOWN	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.52715300 -80.45945700 CARNEGIE NATURAL GAS CORP	0.00000000 18010101	0.00	0.00
722950000	HOPE NATURAL GAS		NKNOWN	UNCLASSIFIED	39.52802400 -80.45731900 UNKNOWN	0.00000000 18010101	0.00	0.00
722980000	UNKNOWN			UNCLASSIFIED	39.52874900 -80.45983200 HOPE NATURAL GAS	0.00000000 18010101	0.00	0.00
722990000	UNKNOWN			JNCLASSIFIED	39.52439500 -80.46282900 UNKNOWN	0.00000000 18010101	0.00	0.00
723060000	UNKNOWN			JNCLASSIFIED	39.52396000 -80.46208000 UNKNOWN	0.00000000 18010101	0.00	0.00
723070000	UNKNOWN			JNCLASSIFIED	39.51655800 -80.46170500 UNKNOWN	0.00000000 18010101	0.00	0.00
/019780000	3/10/2008 CONSOLIDATION COAL			JNCLASSIFIED	39.51510600 -80.46189300 UNKNOWN	0.00000000 18010101	0.00	0.00
/020050000	12/1/2009 CONSOLIDATION COAL			JNCLASSIFIED	39.52188000 -80.46370000 CONSOLIDATION COAL	0.00000000 18010101	0.00	0.00
₹020900000	2/26/2010 CONSOLIDATION COAL			JNCLASSIFIED	39.52389000 -80.46322010 CONSOLIDATION COAL	0.00000000 18010101	0.00	0.00
020920000	4/26/2010 CONSOLIDATION COAL			INCLASSIFIED	39.53686000 -80.47255000 CONSOLIDATION COAL	0.00000000 18010101	0.00	0.00
/019280000	11/4/2008 CONSOLIDATION COAL			INCLASSIFIED	39.54334000 -80.47321000 CONSOLIDATION COAL	0.00000000 18010101	0.00	0.00
019410000	2/5/2008 CONSOLIDATION COAL			INCLASSIFIED	39.52340000 -80.46507000 CONSOLIDATION COAL	0.00000000 18010101	0.00	0.00
019540000	3/7/2008 CONSOLIDATION COAL			INCLASSIFIED	39.52441000 -80.46769000 CONSOLIDATION COAL	0.00000000 18010101	0.00	0.00
019700000	9/16/2008 CONSOLIDATION COAL		NNAMED L	NCLASSIFIED	39 51948000 -80 46910000 CONSOLIDATION COAL	0.00000000 18010101	0.00	0.00
019860000	12/19/2008 CONSOLIDATION COAL			NCLASSIFIED	39.51948000 -80.46919000 CONSOLIDATION COAL 39.52183000 -80.46867000 CONSOLIDATION COAL	0.00000000 18010101	0.00	0.00
020040000				NCLASSIFIED	39.52706000 -80.45919010 CONSOLIDATION COAL	0.00000000 18010101	0.00	0.00
020780000	3/2/2009 CONSOLIDATION COAL 7/23/2010 CONSOLIDATION COAL			NCLASSIFIED	39.52706000 -80.45919010 CONSOLIDATION COAL	0.00000000 18010101	0.00	0.00
/019590000	5/8/2008 CONSOLIDATION COAL			NCLASSIFIED	39.52947000 -80.46281000 CONSOLIDATION COAL	0.00000000 18010101	0.00	0.00
020460000	CONSOLIDATION COAL			NCLASSIFIED	39.52875000 -80.45967000 CONSOLIDATION COAL	0.00000000 18010101	0.00	0.00
, 020,0000	CONSCIENTION COAL		UNNAMED U	NCLASSIFIED	39.51701000 -80.46170000 CONSOLIDATION COAL	0.00000000 18010101	0.00	0.00
								(5.55)

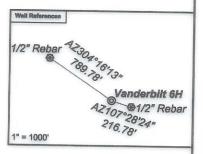


## Vanderbilt 6H Vanderbilt EQT Production Company

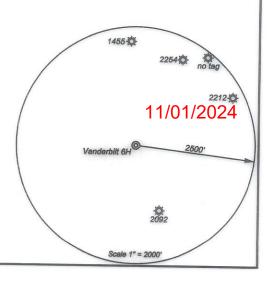
District	County	Parcel No.	Tax Map No.	Tract I.D.
Manningtor	Marion	11	45	1
Manningtor	Marion	17	45	2
Manningtor	Marion	5	45	3
Manningtor	Marion	12.1	45	4
	Marion	4	45	5
Manningtor	Marion	12	45	6
	Marion	13	45	7
	Marion	14.2	45	8
Mannington	Marion	14.1	45	9
Mannington	Marion	14.4	45	10
Mannington	Marion	16	45	11
Mannington	Marion	26	45	12
Mannington	Marion	25.1	45	13
Mannington	Marion	24	45	14
Mannington	Marion	23	45	15
Mannington	Marion	20	45	16
Mannington	Marion	2	45	25
Mannington	Marion	5.2	46	29
Mannington	Marion	6.1	46	30
Mannington	Marion	6	46	31
Mannington	Marion	11	46	32
Mannington	Marion	12	46	34
Mannington		2	46	35
	Marion	13	46	36
Mannington	Marion	14	46	37
Mannington	Marion	16	46	38
Mannington		17	46	39
Mannington		9	46	40
Mannington		1	46	41
Mannington		1.2	46	44
Mannington		11	47	45
Mannington		6	47	46
Mannington		7	47	47
Vannington		2	47	48
Vannington		_	47	49
Vannington		4	46	50
Vlannington		C2.00	46	51
Vannington	Varion		48	52
Vannington			48	53
Vannington			48	54
/lannington				55
/annington			48	56
/lannington	Marion I	5	48	
/annington			46	57
/annington			46	58
/annington			46	59
/annington	Narion 1	10	45	65

Surface Tract Owner	Acres
Larry D. & Trisha B. Higgins	60
<b>EQTProduction Company</b>	125.73
Harry R & Susanne M. Morris	52
April M. Powell	2.49
Ronald L. Powell, Jr.	59.82
April M. Powell	37.5
Thelma L. Coen	11
Thelma L. Coen	1.6
Patricia F. Powell	8.59
Thomas A. & Karen J. Hixenbaugh	3
Keith A. Powell	27.29
John M. Proffitt, Sr.	14.6
Richard K & Dawn K Jones	5.71
Barbara E. Henderson, et al.	38.5
Thomas L Snodgrass	105.5
<b>EQTProduction Company</b>	78.5
Allen L & Donna J Hillberry	102,59
Marion County Coal Resources Inc.	74
Patricia A. Cotherman	40
Patricia A. Cotherman	100
Brett Martin	59.55
Brett Martin	10
Marion County Commission	644.34
Brett Martin	8.5
Brett Martin	8.5
Brett Martin	10.5
Brett Martin	7.5
Wayne D. Willie II	13.25
Wayne D. Williell	85.87
Caren L. Willie	1.2
David L. & Doretta D. Bonnell	23.53
The West Virginia Land Trust Inc.	62
The West Virginia Land Trust Inc.	48
Debra A. Marcozzi	30
Marion County Coal Resources Inc.	98
Mike Ross Inc	67.47
RubyL Herndon	182.04
David L. & Karla A. James	56.5
EQTProduction Company	40
Mark A Barron	27.5
Mark A. Berron	57
Marion County Coal Resources Inc.	46.83
Megan M. Peek	0.75
Marion County Commission	1.19
Marion County Commission	0.81
Lisa A & Baron R Powell	68





Lease No.	Owner	Acres
172703000	EQT Production Company, et al.	60
114998022	Bounty Minerals, LLC, et al.	125.73
234751000	West Virginia Department of Transportation, Division of Highways	46.86
1/2/03000	EQ1 Production Company, et al.	126
259029002	Country Roads Minerals, LLC, et al.	52
142159000	Debra L. Sparks, et al.	41.833485
107643000	Denise L. Chappell, et al.	100
107641000		74
174139001		203
231680000	Marion County Commission	40.535
136992000	Mike Ross, Inc., et al.	61
132283000	XTO Energy, Inc.	28



## 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 Attached



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

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

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

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

Well Operator: EQT Production Company

By:

Branden Weimer

Its:

Regional Manager - Subsurface Permitting

Page 1 of 3

Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
/172703000	EQT Production Company, et al. Ascent Resources Marcellus Minerals, LLC	60 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DB 1204/61
<u>/114998022</u>	Bounty Minerals, LLC, et al. Bounty Minerals, LLC Antero Resources Corporation	125.73 ac	Antero Resources Corporation EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DB 1223/161 AB 56/332
<u>/ 234751000</u>	West Virginia Department of Transportation, Division of Highways  West Virginia Department of Transportation, Division of Highways	46.86 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DB 1336/524
172703000	EQT Production Company, et al. Ascent Resources Marcellus Minerals, LLC	126 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DB 1204/61
<u> 259029002</u>	Country Roads Minerals, LLC, et al. Country Roads Minerals, LLC Antero Resources Corporation	52 ac	Antero Resources Corporation EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DB 1309/107 AB 65/756
/ <u>142159000</u>	Debra L. Sparks, et al. Patricia A. Cotherman, widow	41.833485 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DB 1271/833
/ 107643000	Denise L. Chappell, et al.  Golda M. Ice and A. R. Ice, wife and husband Equitable Gas Company Equitrans, Inc. Equitable Gas Company LLC, et al. Equitrans, LP	100 ac	Equitable Gas Company Equitrans, Inc. Equitable Gas Company LLC Equitrans, LP EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DB 657/30 AB 12/279 DB 1148/296 AB 46/660 DB 1114/127 (subleas

√ <u>107641000</u>	Bradley W. Thomas, et al. Carrie Snider, widow Equitable Gas Company Equitrans, Inc. Equitable Gas Company LLC, et al. Equitrans, LP	74 ac	Equitable Gas Company Equitrans, Inc. Equitable Gas Company LLC Equitrans, LP EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DB 725/4 AB 12/279 DB 1148/296 AB 46/660 DB 1114/127	(sublease)
<u>/ 174139001</u>	Country Roads Minerals, LLC, et al. Country Roads Minerals, LLC	203 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DB 1291/676	
<u> 231680000</u>	Marion County Commission  Marion County, West Virginia Board of Commissioners	40.535 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DB 1328/1043	
<u>/136992000</u>	Mike Ross, Inc., et al.  Arlie G. Williams, et ux., et al.  Equitable Gas Company  Equitrans, Inc.  Equitable Gas Company LLC, et al.  Equitrans, LP	61 ac	Equitable Gas Company Equitrans, Inc. Equitable Gas Company LLC Equitrans, LP EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DB 657/401 AB 12/279 DB 1148/296 AB 46/660 DB 1114/130	(sublease)
<u>/ 132283000</u>	XTO Energy, Inc. Joseph R. Smith and Sharon K. Smith, his wife Equitable Gas Company Equitrans, Inc. Equitable Gas Company LLC, et al. Equitrans, LP	28 ac	Equitable Gas Company Equitrans, Inc. Equitable Gas Company LLC Equitrans, LP EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DB 771/236 AB 12/279 DB 1148/296 AB 46/660 DB 1114/130	(sublease)



October 16, 2024

Via FedEx Overnight Delivery

West Virginia Department of Environmental Protection Office of Oil and Gas 601 57<sup>th</sup> Street, S.E. Charleston, WV 25304

RE:

Well Work Permit Application Modification – EXPEDITED REVIEW REQUESTED

Vanderbilt 6H

Permit Number 47-049-02536

Mannington District, Marion County WV

WVDEP Recipient,

Attached please find the Well Work Permit Application for the well referenced above. You will find the following included with this submittal:

- Check in the amount \$7,500.00 for the expedited permit modification fee
- Completed WW-6B and supporting documents, approved by the O&G Inspector
- Well Location Plat
- Completed Form WW-6A1 and supporting documentation
- Hydraulic Fracturing Monitoring Plan
- Offset Well Map and Table
- CD including the Water Management Plan Modification Application

EQT is proposing to extend the lateral from the previously permitted length.

EQT Production trusts that if any portion of the submitted documentation is found to be inadequate for processing the permit, notification will be made to our Permitting department at your earliest convenience. It is EQT Production's intent to cooperate fully to provide any additional requested documentation and clarification in a timely manner such that permitting proceeds in a predictable and logical manner.

Best Regards,

Branden Weimer

Regional Manager - Permitting

Branden.Weimer@eqt.com

412-997-7940