

Well Operator's Report of Well Work



Well Number: Vanderbilt 10H (L003713)

API: 47 - 049 - 02538

Submission: ☒ Initial ☐ Amended

Notes:

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State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47 - 049 - 02538 County Marion District Mannington
Quad Glover Gap Pad Name VANDERBILT Field/Pool Name N/A
Farm name EQT Production Company Well Number Vanderbilt 10H (L003713)
Operator (as registered with the OOG) EQT Production Company
Address 400 Woodcliff Drive City Canonsburg State PA Zip 15317

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,377,629.96 Easting 545,121.25
Landing Point of Curve Northing 4,378,005.08 Easting 545,298.64
Bottom Hole Northing 4,374,495.29 Easting 547,010.20

Elevation (ft) 1358' GL Type of Well ☒ New ☐ Existing Type of Report ☐ Interim ☒ Final
Permit Type ☐ Deviated ☐ Horizontal ☒ Horizontal 6A ☒ Vertical Depth Type ☐ Deep ☒ Shallow
Type of Operation ☐ Convert ☐ Deepen ☒ Drill ☐ Plug Back ☐ Redrilling ☐ Rework ☐ Stimulate
Well Type ☐ Brine Disposal ☐ CBM ☒ Gas ☐ Oil ☐ Secondary Recovery ☐ Solution Mining ☐ Storage ☐ Other _____
Type of Completion ☒ Single ☐ Multiple Fluids Produced ☐ Brine ☒ Gas ☐ NGL ☐ Oil ☐ Other _____
Drilled with ☐ Cable ☒ Rotary

Drilling Media Surface hole ☒ Air ☐ Mud ☐ Fresh Water Intermediate hole ☒ Air ☐ Mud ☐ Fresh Water ☐ Brine
Production hole ☒ Air ☒ Mud ☐ Fresh Water ☐ Brine
Mud Type(s) and Additive(s)

Synthetic Oil Based Mud 12.5% ppq barium sulfate, sodium chloride, kantan gum, polyamphic cellulose, modified starch, sodium hydroxide, phosphonates and alkyl phosphates, glutaraldehyde solution, sodium hydroxide, partially hydrolyzed polyacrylamide/polyacrylate, potassium chloride, sodium carbonate, ground walnut shells, alcohol and modified fatty acid, ferrocene lignosulfonate, calcium carbonate, fibrous cellulose

Date permit issued 04/08/2024 Date drilling commenced 06/24/2024 Date drilling ceased 01/04/2025
Date completion activities began 02/17/2025 Date completion activities ceased 05/20/2025
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 243', 494' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 2118' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 1180' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) Y

Reviewed by:

JP 8-25-2025

APPROVED 09/19/2025

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CASING STRINGS	Hole Size	Casing Size	Depth (GL)	New or Used	Grade wt/ft	Basket Depth(s) (GL)	Did cement circulate (Y/N) * Provide details below*
Conductor	30"	26"	40'	NEW	A-500 85.6#	N/A	Y
Surface	17-1/2"	13-3/8"	1233'	NEW	J-55 54.5#	N/A	Y
Coal							
Intermediate 1	12-3/8"	9-5/8"	2670'	NEW	J-55 36#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4", 8-1/2"	6"	21,316'	NEW	P-110 24#	N/A	N
Tubing							
Packer type and depth set							

Comment Details _____

Production cmt has calculated TOC of 1104'GL, which is greater than 500'TVD above the producing formation. No issues

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (GL)	WOC (hrs)
Conductor	CLASS A	83	15.6	1.18	98	0	8+
Surface	CLASS A	1139	16	1.08	1230	0	8
Coal							
Intermediate 1	CLASS L	975	15.6	1.13	1102	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	3490	15.0	1.19	4153	1104'	8+
Tubing							

Drillers TD (ft) 21,337' Loggers TD (ft) N/A
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 2767'

Check all wireline logs run ☐ caliper ☐ density ☒ deviated/directional ☐ induction
☐ neutron ☐ resistivity ☒ gamma ray ☐ temperature ☐ sonic

Well cored ☐ Yes ☒ No ☐ Conventional ☐ Sidewall Were cuttings collected ☐ Yes ☒ No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____
 CONDUCTOR- NONE
 SURFACE- ON SHOE TRACK AND EVERY 500' TO SURFACE
 INTERMEDIATE: ON SHOE TRACK AND EVERY 500' FEET TO SURFACE
 PRODUCTION: ON SHOE TRACK, EVERY OTHER JOINT TO 8493', EVERY JOINT TO 1874'

WAS WELL COMPLETED AS SHOT HOLE ☐ Yes ☒ No DETAILS _____ **RECEIVED**
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WAS WELL COMPLETED OPEN HOLE? ☐ Yes ☒ No DETAILS _____ **WV Department of**
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WERE TRACERS USED ☐ Yes ☒ No TYPE OF TRACER(S) USED _____

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PERFORATION RECORD

[illegible]

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

[illegible]

Please insert additional pages as applicable.

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DEPTHS

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Drilling Contractor Falcon (Rig 11)

Address 1120 US-119 City Indiana State PA Zip 15701

Logging Company GyroData

Address 73 Nobletown Road City Carnegie State PA Zip 15106

Logging Company Scientific Drilling International, Inc

Address 3475 Washington Ave City Finleyville State PA Zip 15332

Cementing Company _____

Address _____ City _____ State _____ Zip _____

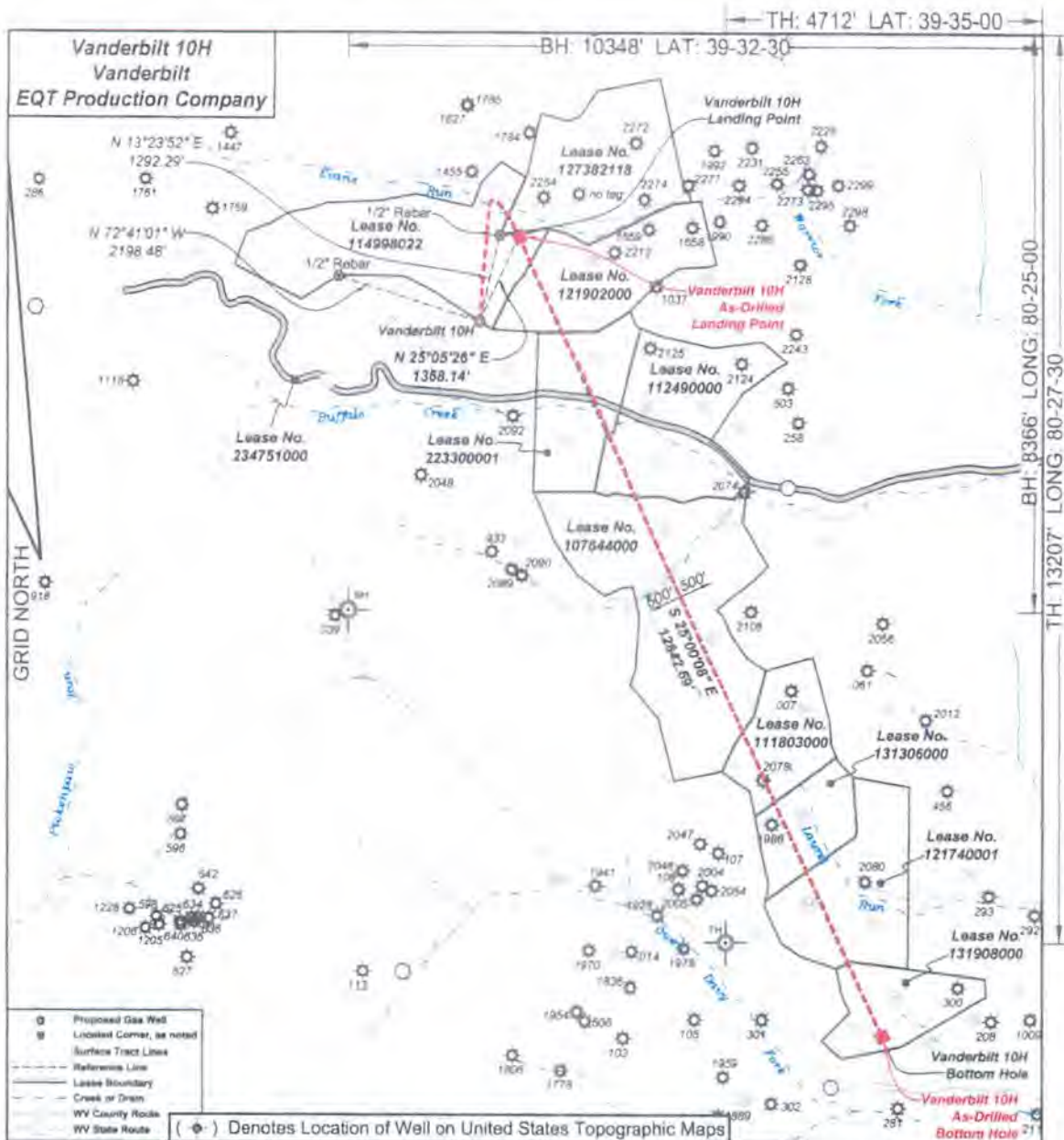
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Well # VANDERBILT 10H Final Formations API# 47-049-02538				
Formation Name	Drill Top MD (ftGRD)	Drill Top (TVD) (ftGRD)	Drill Btm MD (ftGRD)	Drill Btm (TVD) (ftGRD)
Sand/Shale	1	1	1,180	1,180
Pittsburgh Coal	1,180	1,180	1,189	1,189
Sand/Shale	1,189	1,189	2,386	2,386
Big Lime	2,386	2,386	2,458	2,458
Big Injun	2,458	2,458	2,562	2,562
Sand/Shale	2,562	2,562	3,050	3,049
Gantz	3,050	3,049	3,157	3,154
50F	3,157	3,154	3,315	3,310
Sand/Shale	3,315	3,310	3,357	3,351
Fifth Sand	3,357	3,351	3,391	3,384
Sand/Shale	3,391	3,384	3,435	3,427
Bayard	3,435	3,427	4,674	4,566
Sand/Shale	4,674	4,566	5,856	5,632
Alexander	5,856	5,632	6,095	5,847
Sand/Shale	6,095	5,847	6,255	5,989
Elks	6,255	5,989	7,610	7,222
Sonyea	7,610	7,222	7,786	7,383
Middlesex	7,786	7,383	7,854	7,440
Genesee	7,854	7,440	7,985	7,535
Geneseo	7,985	7,535	8,034	7,565
Tully	8,034	7,565	8,090	7,596
Hamilton	8,090	7,596	8,317	7,695
Marcellus	8,317	7,695	21,337	7,778

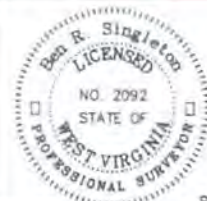
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I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

Ben R. Singleton
P.S. 2092



FILE NO. 93-21
DRAWING NO. Vanderbilt 10H
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station

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

DATE: January 20, 2025
OPERATOR'S WELL NO.: Vanderbilt 10H
API WELL NO.: 47 049 02538
STATE COUNTY PERMIT

WELL TYPE: ☐ OIL ☒ GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL
(IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☒ SHALLOW
LOCATION: ELEVATION: As-Built: 1358' WATERSHED: Evans Run & Buffalo Creek QUADRANGLE: Glover Gap
DISTRICT: Mannington COUNTY: Marion
SURFACE OWNER: EQT Production Company ACREAGE: 125.73
ROYALTY OWNER: Bounty Minerals, LLC, et al LEASE NO.: 114998022 ACREAGE: 125.73
PROPOSED WORK: ☒ DRILL ☐ CONVERT ☐ DRILL DEEPER ☒ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION
☐ PERFORATE NEW FORMATION ☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 7,735'

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C. Mallow
ADDRESS: 400 Woodcliff Drive ADDRESS: 115 Professional Place PO Box 280
Canonsburg, PA 15317 Bridgeport, WV 26330

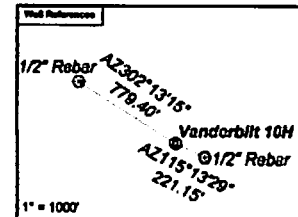
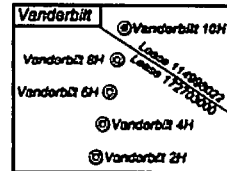
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**Vanderbilt 10H
Vanderbilt
EQT Production Company**

Tract ID	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	45	11	Manon	Mannington	Larry D. & Thana B. Higgins	60
2	45	17	Manon	Mannington	EQT Production Company	125.73
3	45	5	Manon	Mannington	Harry R. & Suzanne M. Morris	32
7	45	13	Manon	Mannington	Theresa L. Coan	11
8	45	14.2	Manon	Mannington	Theresa L. Coan	1.6
9	45	14.1	Manon	Mannington	Patricia F. Powell	6.59
10	45	14.4	Manon	Mannington	Thomas A. & Karen J. Huerbaugh	3
11	45	18	Manon	Mannington	Keith A. Powell	27.29
12	45	26	Manon	Mannington	John M. Proffitt, Sr.	14.6
13	45	25.1	Manon	Mannington	Richard K. & Dawn K. Jones	5.71
14	45	24	Manon	Mannington	Bartora C. Henderson, et al	38.5
15	45	23	Manon	Mannington	Thomas L. Shodgrass	105.5
16	45	20	Manon	Mannington	EQT Production Company	78.5
30	46	6.1	Manon	Mannington	Patricia A. Cushman	40
31	46	6	Manon	Mannington	Patricia A. Cushman	100
35	46	2	Manon	Mannington	Manon County Commission	844.34
50	46	4	Manon	Mannington	Mike Ross Inc.	67.47
51	46	5	Manon	Mannington	Ruby L. Harmon	182.04
52	46	1	Manon	Mannington	Daniel L. & Karla A. Jones	59.5
53	46	2	Manon	Mannington	EQT Production Company	40
54	46	3	Manon	Mannington	Mark A. Barron	27.5
55	46	4	Manon	Mannington	Mark A. Barron	57
56	46	5	Manon	Mannington	Manon County Coal Resources Inc.	46.83
65	45	10	Manon	Mannington	Lisa A. & Barton R. Powell	63
66	45	21	Manon	Mannington	Vicco E. Lucas	103.19
67	45	9	Manon	Mannington	Jeffrey B. & Pamela J. Gray	107.28
68	45	6.1	Manon	Mannington	Barton R. & Mary A. Powell	8
69	45	8	Manon	Mannington	Sharon A. Ginn	185.96
70	43	2	Manon	Mannington	Gary F. & Alice F. Young	37.2
71	43	1	Manon	Mannington	Robert & Alberta Higgins	32.5
72	42	7	Manon	Mannington	Sharon A. Ginn	33
73	46	22	Manon	Mannington	Thomas L. Shodgrass	44.43
74	44	37	Manon	Mannington	Priscilla A. Hamilton	157.3
75	46	18	Manon	Mannington	Jason D. Busby, et al.	101.25
76	46	17	Manon	Mannington	George A. & Ada D. Stahl	117.5
77	46	5.1	Manon	Mannington	County Commission of Manon County	0.38
78	46	8	Manon	Mannington	Timothy & Tanya Maught	18.19
79	46	7	Manon	Mannington	Manon County Coal Resources Inc.	25.61
80	46	6	Manon	Mannington	Manon County Coal Resources Inc.	19.34
81	46	5.1	Manon	Mannington	Nancy A. & Tracy R. Powell	2.98

As-Drilled Well Information:
Vanderbilt 10H coordinates are:
NAD 27 N: 382,858.87 E: 1,725,047.22
NAD 83 UTM N: 4,377,829.86 E: 545,121.25
Vanderbilt 10H Landmark Point coordinates are:
NAD 27 N: 384,030.10 E: 1,725,049.80
NAD 83 UTM N: 4,378,005.03 E: 545,298.84
Vanderbilt 10H Bottom Hole coordinates are:
NAD 27 N: 372,459.42 E: 1,731,074.41
NAD 83 UTM N: 4,374,485.29 E: 547,010.20
West Virginia Coordinate system of 1927 (North Zone) based upon Differential GPS Measurements.
Plot orientation, corner and well ties are based upon the grid north meridian.
Well location references are based upon the grid north meridian.
UTM coordinates are NAD83, Zone 17, Meters.

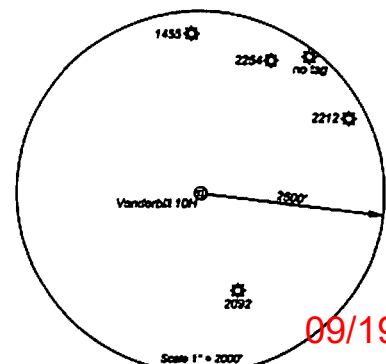


Lease No.	Owner	Acres
1146960022	Bounty Minerals, LLC, et al	125.73
127352118	Regina C. Evans, et al	105.5
121902000	Timothy D. Gooden	78.5
225300001	Lee and Host Royalties, et al	63
234751000	West Virginia Department of Transportation, Division of Highways	46.85
1124930000	Ridgeway Appalachia LLC, et al	108
107644000	XTO Energy, Inc.	105
111603000	Country Roads Minerals LLC, et al	56
131306000	EQT Production Company	40
121740001	EQT Production Company, et al	84
131808000	Bounty Minerals, LLC	45

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Perforation Data

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Stage No.	Perforation Date	Stage Perforated From TMD Ft.	Stage Perforated To TMD Ft.	# of Perforations/Stage	Formation(s)
2	04/05/2025	21228	21049	40	Marcellus
3	04/06/2025	21030	20850	40	Marcellus
4	04/06/2025	20831	20652	40	Marcellus
5	04/06/2025	20633	20453	40	Marcellus
6	04/07/2025	20434	20255	40	Marcellus
7	04/07/2025	20236	20056	40	Marcellus
8	04/07/2025	20037	19858	40	Marcellus
9	04/08/2025	19839	19659	40	Marcellus
10	04/08/2025	19640	19461	40	Marcellus
11	04/08/2025	19442	19262	40	Marcellus
12	04/09/2025	19243	19064	40	Marcellus
13	04/10/2025	19045	18865	40	Marcellus
14	04/10/2025	18846	18667	40	Marcellus
15	04/11/2025	18648	18468	40	Marcellus
16	04/11/2025	18449	18270	40	Marcellus
17	04/11/2025	18251	18071	40	Marcellus
18	04/12/2025	18052	17873	40	Marcellus
19	04/12/2025	17854	17674	40	Marcellus
20	04/12/2025	17655	17476	40	Marcellus
21	04/13/2025	17457	17277	40	Marcellus
22	04/13/2025	17258	17079	40	Marcellus
23	04/14/2025	17060	16880	40	Marcellus
24	04/14/2025	16861	16682	40	Marcellus
25	04/15/2025	16663	16483	40	Marcellus
26	04/15/2025	16464	16285	40	Marcellus
27	04/16/2025	16266	16088	40	Marcellus
28	04/16/2025	16067	15888	40	Marcellus
29	04/16/2025	15869	15689	40	Marcellus
30	04/17/2025	15670	15491	40	Marcellus
31	04/17/2025	15472	15292	40	Marcellus
32	04/17/2025	15273	15094	40	Marcellus
33	04/18/2025	15075	14895	40	Marcellus
34	04/18/2025	14876	14697	40	Marcellus
35	04/19/2025	14678	14498	40	Marcellus
36	04/19/2025	14479	14300	40	Marcellus
37	04/20/2025	14281	14101	40	Marcellus
38	04/21/2025	14082	13903	40	Marcellus
39	04/21/2025	13884	13704	40	Marcellus
40	04/21/2025	13685	13506	40	Marcellus
41	04/22/2025	13487	13307	40	Marcellus
42	04/22/2025	13288	13109	40	Marcellus
43	04/23/2025	13090	12910	40	Marcellus

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44	04/23/2025	12891	12712	40	Marcellus
45	04/24/2025	12693	12513	40	Marcellus
46	04/24/2025	12494	12315	40	Marcellus
47	04/25/2025	12296	12116	40	Marcellus
48	04/25/2025	12097	11918	40	Marcellus
49	04/26/2025	11899	11719	40	Marcellus
50	04/26/2025	11700	11521	40	Marcellus
51	04/27/2025	11502	11322	40	Marcellus
52	04/27/2025	11303	11124	40	Marcellus
53	04/27/2025	11105	10925	40	Marcellus
54	04/28/2025	10906	10727	40	Marcellus
55	04/28/2025	10708	10528	40	Marcellus
56	04/29/2025	10509	10330	40	Marcellus
57	04/29/2025	10311	10131	40	Marcellus
58	04/29/2025	10112	9933	40	Marcellus
59	04/30/2025	9914	9734	40	Marcellus
60	05/01/2025	9715	9536	40	Marcellus
61	05/02/2025	9517	9337	40	Marcellus
62	05/02/2025	9318	9139	40	Marcellus
63	05/03/2025	9120	8940	40	Marcellus
64	05/04/2025	8921	8742	40	Marcellus
65	05/04/2025	8723	8543	40	Marcellus
66	05/05/2025	8524	8345	40	Marcellus

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Stimulation Data

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Stage #	Stimulation Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	04/05/2025	92	8888	9101	4593	176768	4097.000	
2	04/06/2025	97	8900	7124	4788	439870	10303.000	
3	04/06/2025	96	9097	6689	5378	440162	10138.000	
4	04/06/2025	98	9125	6104	5526	439988	9969.000	
5	04/07/2025	98	9047	6807	5267	440006	10094.000	
6	04/07/2025	98	9089	6434	5629	440097	10082.000	
7	04/08/2025	98	9016	6313	4960	439936	10133.000	
8	04/08/2025	97	9114	5873	5090	439937	10124.000	
9	04/08/2025	99	9152	5892	5209	440127	10070.000	
10	04/08/2025	98	9075	6586	5066	440377	10130.000	
11	04/09/2025	98	9058	5866	4889	439857	10087.000	
12	04/10/2025	99	9156	6806	5036	439678	10059.000	
13	04/10/2025	99	9219	6460	5073	440118	10086.000	
14	04/11/2025	99	9062	6672	5734	440171	10047.000	
15	04/11/2025	99	9067	6438	5061	440202	9994.000	
16	04/11/2025	98	8981	6743	5335	439618	10001.000	
17	04/12/2025	98	9217	6648	5802	439526	10038.000	
18	04/12/2025	99	9219	6669	5530	440893	10024.000	
19	04/13/2025	99	9016	6906	5689	440120	10060.000	
20	04/13/2025	99	9059	6805	5672	440036	10035.000	
21	04/13/2025	100	8934	8259	5519	439943	10082.000	
22	04/14/2025	100	8967	6404	5686	440397	10020.999	
23	04/14/2025	98	9099	6807	6053	439973	10032.000	
24	04/15/2025	100	8978	6371	5364	439994	10016.000	
25	04/15/2025	100	8900	6736	4740	440025	9977.000	
26	04/16/2025	100	8840	6625	5639	439937	9963.000	
27	04/16/2025	100	9061	6897	5050	440165	9950.000	
28	04/16/2025	100	8616	6535	5701	439829	9933.999	
29	04/17/2025	100	9096	6660	5515	440015	9930.000	
30	04/17/2025	100	9038	6939	5275	440329	9910.000	
31	04/17/2025	100	8944	6400	4878	440205	9901.000	
32	04/18/2025	100	9061	7002	5435	440263	9878.999	
33	04/18/2025	100	8885	6841	5381	440150	9899.000	
34	04/19/2025	93	8836	6690	4811	440011	9898.000	
35	04/20/2025	100	9036	6580	6147	440251	9921.000	
36	04/20/2025	100	8932	6738	8049	439886	9881.000	
37	04/21/2025	100	8836	7302	5179	440032	9883.000	
38	04/21/2025	100	8552	6381	5115	440432	9876.000	
39	04/21/2025	100	8974	6567	4887	440160	9693.000	
40	04/22/2025	99	9001	6655	4918	440141	9821.000	
41	04/22/2025	100	8907	6393	5444	440075	9837.000	
42	04/23/2025	100	8820	7156	5065	440268	9821.000	

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43	04/23/2025	99	8736	6651	5081	440117	9815.000
44	04/24/2025	100	8738	7093	5300	439876	9652.000
45	04/24/2025	100	8770	6214	5378	440160	9788.000
46	04/25/2025	100	8547	6442	5715	440022	9797.000
47	04/25/2025	100	8850	6417	5097	439820	9775.999
48	04/26/2025	100	8654	6782	5858	440060	9771.000
49	04/26/2025	100	8550	6659	5711	439979	9752.000
50	04/27/2025	100	8435	6827	5138	439920	9773.000
51	04/27/2025	100	8584	6214	5329	439966	9749.000
52	04/27/2025	100	8596	6636	6177	439926	9751.000
53	04/28/2025	100	8357	6224	4880	440043	9740.000
54	04/28/2025	100	8492	6312	6687	439918	9731.000
55	04/29/2025	100	8492	6642	4717	440160	9765.000
56	04/29/2025	100	8391	6228	5191	439980	9690.000
57	04/29/2025	100	8237	6774	5302	440005	9706.000
58	04/30/2025	100	8293	7066	4917	440247	9549.000
59	05/01/2025	100	8390	7015	4891	440012	9698.000
60	05/02/2025	100	8373	6892	4987	440177	9677.000
61	05/02/2025	100	8338	6756	4784	440012	9657.000
62	05/03/2025	100	8346	6895	4762	439945	9688.000
63	05/04/2025	100	8424	6773	4689	439953	9648.000
64	05/04/2025	100	8296	7075	4787	439928	9638.000
65	05/05/2025	94	8894	6825	4751	439908	9663.000
66	05/06/2025	98	8250	7227	4909	444123	9674.000

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	02/17/2025
Job End Date:	05/06/2025
State:	West Virginia
County:	Marion
API Number:	47-049-02538-00-00
Operator Name:	EQT Production
Well Name and Number:	Vanderbilt 10H
Latitude:	39.547159
Longitude:	-80.474853
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7806
Total Base Water Volume (gal)*:	27167447.7621376
Total Base Non Water Volume:	0



Water Source	Percent
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Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	EQT	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	88.40062	None
Sand (Proppant)	EQT	Proppant					
			Silica Substrate	14808-60-7	100.00000	11.22413	None
StimSTREAM FR 9800	ChemStream, Inc.	Friction Reducer					
			ALKANES, C12-26-BRANCHED AND LINEAR	90622-53-0	40.00000	0.18404	None
StimSTREAM FR 9800	ChemStream, Inc.	Friction Reducer					
			ACRYLAMIDE-CHLORIDE SALT OF TRIMETHYLAMMONIO-ETHYL ACRYLATE COPOLYMER	69418-26-4	40.00000	0.18404	None
Clearal 268	ChemStream, Inc.	Biocide					

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			Water	7732-18-5	80.00000	0.03585	None
StimSTREAM FR 9800	ChemStream, Inc.	Friction Reducer					
			Water	7732-18-5	15.00000	0.02588	None
DGS Divert FF ULT	Dynamic Green Solutions, LLC	Diverter					
			Poly lactide resin	9051-89-2	98.00000	0.00899	None
StimSTREAM FR 9800	ChemStream, Inc.	Friction Reducer					
			ETHOXYLATED ALCOHOLS (C12-16)	68551-12-2	5.00000	0.00288	None
Clearal 268	ChemStream, Inc.	Biocide					
			Glutaraldehyde	111-30-8	20.00000	0.00224	None
Enviro-Syn HCR-7000-WL	STAAR Logistics, LLC	Synthetic Acid					
			FLUID-Acid-00001	Proprietary	20.00000	0.00127	None
Enviro-Syn HCR-7000-WL	STAAR Logistics, LLC	Synthetic Acid					
			FLUID-Amine-00001	Proprietary	10.00000	0.00032	None
StimSTREAM SC-398	ChemStream, Inc.	Scale Inhibitor					
			AA/ATBS Co-polymer	9003-05-8	5.00000	0.00009	None
Clearal 268	ChemStream, Inc.	Biocide					
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00005	None
Clearal 268	ChemStream, Inc.	Biocide					
			Quaternary Ammonium Compounds	68424-85-1	3.00000	0.00005	None
Clearal 268	ChemStream, Inc.	Biocide					
			Ethanol	64-17-5	1.50000	0.00001	None
StimSTREAM SC-398	ChemStream, Inc.	Scale Inhibitor					
			AA/Maleic Anhydride Co-polymer	9003-04-7	1.00000	0.00000	None

Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS

* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

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Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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GRID NORTH



-  Proposed Gas Well
 Locsted Corner, as noted
 Surface Tract Lines
 Reference Line
 Lease Boundary
 Creek or Drain
 WV County Route
 WV State Route

(●) Denotes Location of Well on United States Topographic Maps



Ben R. Smith
P.S. 2092

P.S. 2092



SEAL

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

47 - 049 - 02538
STATE COUNTY PERMIT

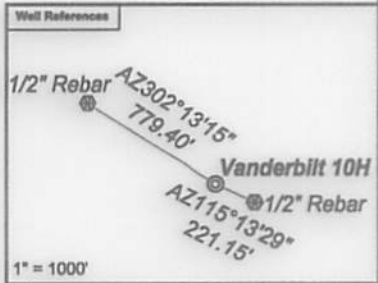
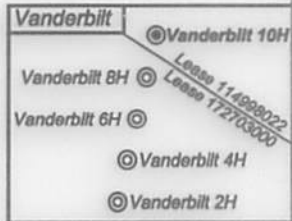
Bridgeport, WV 26330

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Vanderbilt 10H
Vanderbilt
EQT Production Company

Tract I.D.	TexMap No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	45	11	Marion	Mannington	Larry D. & Trisha B. Higgins	60
2	45	17	Marion	Mannington	EQT Production Company	125.73
3	45	5	Marion	Mannington	Harry R. & Susanne M. Morris	52
7	45	13	Marion	Mannington	Thelma L. Coben	11
8	45	14.2	Marion	Mannington	Thelma L. Coben	1.6
9	45	14.1	Marion	Mannington	Patricia F. Powell	8.59
10	45	14.4	Marion	Mannington	Thomas A. & Karen J. Hibenbaugh	3
11	45	16	Marion	Mannington	Keith A. Powell	27.29
12	45	26	Marion	Mannington	John M. Proffitt, Sr.	14.6
13	45	25.1	Marion	Mannington	Richard K. & Dawn K. Jones	5.71
14	45	24	Marion	Mannington	Barbara E. Henderson, et al.	38.5
15	45	23	Marion	Mannington	Thomas L. Shodgrass	105.5
16	45	20	Marion	Mannington	EQT Production Company	78.5
30	46	6.1	Marion	Mannington	Patricia A. Cotheman	40
31	46	6	Marion	Mannington	Patricia A. Cotheman	100
35	46	2	Marion	Mannington	Marion County Commission	844.34
50	46	4	Marion	Mannington	Mike Ross Inc	67.47
51	46	5	Marion	Mannington	Ruby L. Herndon	182.04
52	48	1	Marion	Mannington	David L. & Karla A. James	56.5
53	48	2	Marion	Mannington	EQT Production Company	40
54	48	3	Marion	Mannington	Mark A. Barron	27.5
55	48	4	Marion	Mannington	Mark A. Barron	57
56	48	5	Marion	Mannington	Marion County Coal Resources Inc.	46.83
65	45	10	Marion	Mannington	Lisa A. & Baron R. Powell	68
66	45	21	Marion	Mannington	Vickie E. Lucas	103.19
67	45	9	Marion	Mannington	Jaffrey B. & Pamela J. Gray	107.28
68	45	6.1	Marion	Mannington	Barron R. & Mary A. Powell	8
69	45	8	Marion	Mannington	Sharon A. Grim	185.96
70	43	2	Marion	Mannington	Gary E. & Alice E. Young	37.2
71	43	1	Marion	Mannington	Wilbert & Alberta Higgins	32.5
72	42	7	Marion	Mannington	Sharon A. Grim	33
73	45	22	Marion	Mannington	Thomas L. Shodgrass	44.43
74	44	37	Marion	Mannington	Priscilla A. Hamilton	157.3
75	46	18	Marion	Mannington	Jason D. Beatty, et al.	101.25
76	46	17	Marion	Mannington	George A. & Ada D. Stahl	117.5
77	46	5.1	Marion	Mannington	County Commission of Marion County	0.36
78	46	8	Marion	Mannington	Timothy & Tonya Haight	18.18
79	46	7	Marion	Mannington	Marion County Coal Resources Inc.	26.61
80	46	6	Marion	Mannington	Marion County Coal Resources Inc.	19.34
81	46	5.1	Marion	Mannington	Nancy A. & Tracy R. Powell	2.96

As-Drilled Well Information:
Vanderbilt 10H coordinates are
NAD 27 N: 382,858.87 E: 1,725,047.22
NAD 83 UTM N: 4,377,629.98 E: 545,121.25
Vanderbilt 10H Landing Point coordinates are
NAD 27 N: 384,080.10 E: 1,725,649.80
NAD 83 UTM N: 4,378,005.08 E: 545,298.64
Vanderbilt 10H Bottom Hole coordinates are
NAD 27 N: 372,469.42 E: 1,731,074.41
NAD 83 UTM N: 4,374,495.29 E: 547,010.20
West Virginia Coordinate system of 1927 (North Zone)
based upon Differential GPS Measurements.
Plat orientation, corner and well ties are based upon
the grid north meridian.
Well location references are based upon the grid north
meridian.
UTM coordinates are NAD83, Zone 17, Meters.



Lease No.	Owner	Acres
114998022	Bounty Minerals, LLC, et al.	125.73
127382118	Regina C. Evans, et al.	105.5
121902000	Timothy D. Gooch	78.5
223300001	Lee and Hall Royalties, et al.	68
234751000	West Virginia Department of Transportation, Division of Highways	46.86
112490000	Ridgetop Appalachia LLC, et al.	108
107644000	XTO Energy, Inc.	185
111803000	Country Roads Minerals LLC, et al.	56
131306000	EQT Production Company	40
121740001	EQT Production Company, et al.	84
131908000	Bounty Minerals, LLC	48

