

Well Operator's Report of Well Work



Well Number: Vanderbilt 2H (L003773)

API: 47 - 049 - 02534

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 - 02534 County Marion District Mannington
Quad Glover Gap Pad Name VANDERBILT Field/Pool Name N/A
Farm name EQT Production Company Well Number Vanderbilt 2H (L003773)
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 4,377,612.12 Easting 545,117.46
Landing Point of Curve Northing 4,377,695.76 Easting 543,993.20
Bottom Hole Northing 4,373,958.70 Easting 545,908.21

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: 1) 52 ppg barium sulfate, sodium chloride, xanthan gum, polyamorphic cellulose, modified starch, sodium hydroxide, phosphonates and alkyl phosphates, glutaraldehyde, sodium hydrosulfide, partially hydrolyzed polyacrylamide/polyacrylate, potassium chloride, sodium carbonate, ground walnut shells, alcohol and modified fatty acid, ferrochrome lignosulfonate, calcium carbonate, fibrous cellulose

Date permit issued 04/08/2024 Date drilling commenced 06/25/2024 Date drilling ceased 01/31/2025
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 2127' 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

APPROVE

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API 47- 049 - 02534 Farm name EQT Production Company Well number Vanderbilt 2H (L003773)

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"	1232'	NEW	J-55 54.5#	N/A	Y
Coal							
Intermediate 1	12-3/8"	9-5/8"	2673'	NEW	J-55 36#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4", 8-1/2"	6"	23,267'	NEW	P-110 24#	N/A	N
Tubing							
Packer type and depth set							

Comment Details

Production cmt has calculated TOC of 984'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	1145	16	1.09	1248	0	8
Coal							
Intermediate 1	CLASS L	960	15.6	1.13	1085	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	3384	15.0	1.19	4027	984'	8+
Tubing							

Drillers TD (ft) 23,285'

Loggers TD (ft) N/A

Deepest formation penetrated MARCELLUS

Plug back to (ft) N/A

Plug back procedure N/A

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Kick off depth (ft) 1264'

Check all wireline logs run

☐ caliper

☐ density

☒ deviated/directional

☐ induction

☐ neutron

☐ resistivity

☒ gamma ray

☐ temperature

☐ sonic

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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 9507', EVERY JOINT TO 7772', EVERY OTHER JOINT TO 1809'

WAS WELL COMPLETED AS SHOT HOLE ☐ Yes ☒ No DETAILS

WAS WELL COMPLETED OPEN HOLE? ☐ Yes ☒ No DETAILS

WERE TRACERS USED ☐ Yes ☒ No TYPE OF TRACER(S) USED

JP 8-25-2025

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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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Drilling Contractor Falcon (Rig 11)

Address 1120 US-119 City Indiana State PA Zip 15701

Logging Company GyroData

Address 73 Noblestown 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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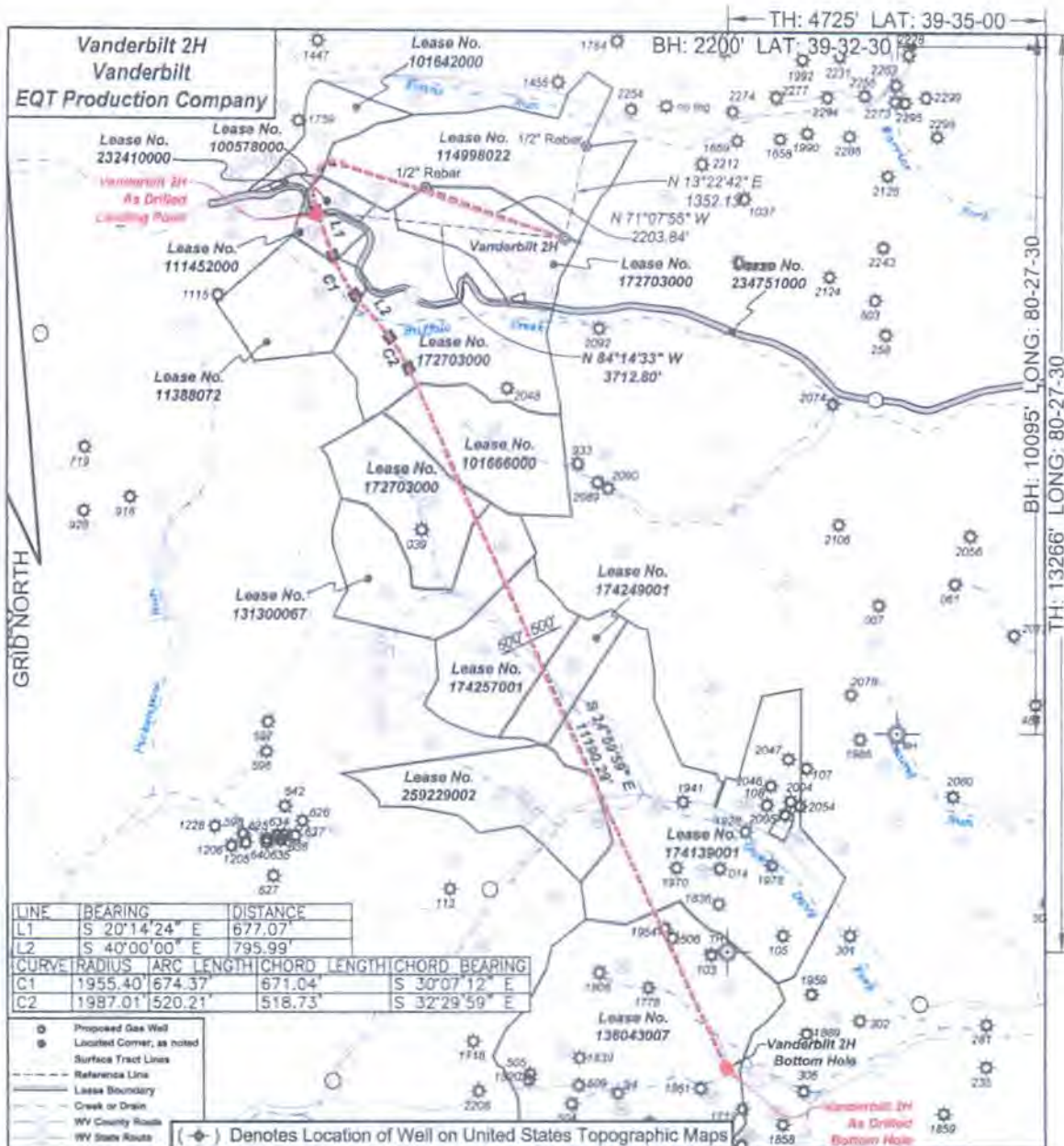
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Well # VANDERBILT 2H Final Formations API# 47-049-02534				
Formation Name	Drill Top MD (ftGRD)	Drill Top (TVD) (ftGRD)	Drill Btm MD (ftGRD)	Drill Btm (TVD) (ftGRD)
Sand/Shale	1	1	1,180	1,180
Pittsburgh Coal	1,180	1,180	1,189	1,189
Sand/Shale	1,189	1,189	2,386	2,373
Big Lime	2,386	2,373	2,458	2,444
Big Injun	2,458	2,444	2,562	2,546
Sand/Shale	2,562	2,546	3,050	3,021
Gantz	3,050	3,021	3,157	3,122
50F	3,157	3,122	3,315	3,265
Sand/Shale	3,315	3,265	3,357	3,301
Fifth Sand	3,357	3,301	3,391	3,331
Sand/Shale	3,391	3,331	3,435	3,368
Bayard	3,435	3,368	4,674	4,323
Sand/Shale	4,674	4,323	5,856	5,227
Alexander	5,856	5,227	6,095	5,406
Sand/Shale	6,095	5,406	6,255	5,528
Elks	6,255	5,528	8,442	7,182
Sonyea	8,442	7,182	8,648	7,342
Middlesex	8,648	7,342	8,724	7,398
Genesee	8,724	7,398	8,862	7,492
Geneseo	8,862	7,492	8,910	7,522
Tully	8,910	7,522	8,963	7,552
Hamilton	8,963	7,552	9,185	7,647
Marcellus	9,185	7,647	23,285	7,789

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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.

P.S. 2092



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FILE NO: 93-21
DRAWING NO: Vanderbilt 2H
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: February 21, 2025
OPERATOR'S WELL NO: Vanderbilt 2H
API WELL NO: 47 049 02534
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: Larry Higgins & Eva Higgins ACREAGE: 60
ROYALTY OWNER: EQT Production Company, et al. LEASE NO: 172703000 ACREAGE: 60
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'

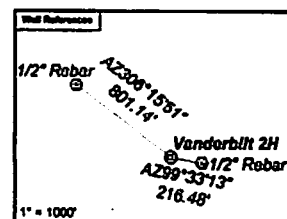
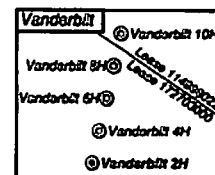
WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C. Mallow
ADDRESS: 400 Woodcliff Drive ADDRESS: 115 Professional Place PO Box 280
Canonsburg, PA 15317 Bridgeport, WV 26330

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**Vanderbilt 2H
Vanderbilt
EQT Production Company**

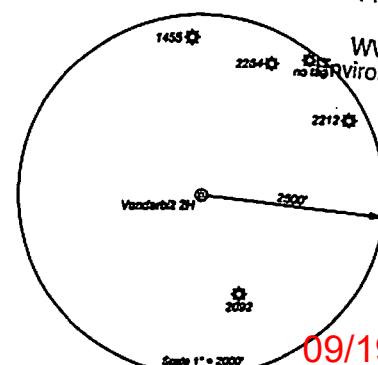
Tract ID	Map No	Parcel No	County	Owner	Acres
1	45	11	Marion	Surface Tract Owner	60
2	45	17	Marion	Larry D & Trisha B. Haggard	125.73
3	45	5	Marion	EQT Production Company	52
4	45	12.1	Marion	Harry R. & Suzanne M. Morris	2.40
5	45	4	Marion	April M. Powell	59.82
6	45	12	Marion	Ronald L. Powell, Jr.	37.5
7	45	13	Marion	April M. Powell	11
8	45	14.2	Marion	Theresa L. Oden	1.6
9	45	14.1	Marion	Theresa L. Oden	3.59
10	45	14.4	Marion	Patricia F. Powell	3
11	45	10	Marion	Thomas A. & Karen J. Humberbaugh	27.29
12	45	26	Marion	Ruth A. Howell	14.6
13	45	25.1	Marion	John M. Pratt, Jr. & Richard K. & Dawn K. Jones	5.71
14	45	24	Marion	Barbara E. Henderson, et al.	38.5
15	45	23	Marion	Thomas L. Prosser	105.5
16	45	20	Marion	EQT Production Company	78.5
17	45	14.3	Marion	Katherine S. Prosser & Wendy E. Marot	6.07
18	45	14	Marion	Franklin W. & Emily M. Powell	11.50
19	45	28	Marion	Debert C. Prosser, Jr.	40.8
20	45	30	Marion	Ruth A. Powell	21.5
21	45	31	Marion	Ruth A. Powell	1.2
22	45	14.7	Marion	Ruth A. Powell	1.2
23	45	14.6	Marion	Ruth A. Powell	0.71
24	45	1	Marion	Nancy S. Wyckoff, et al.	25.75
25	45	2	Marion	Alan L. & Donna J. Humber	102.50
26	45	18	Marion	Equistar LP	107.03
27	45	3	Marion	Alan L. & Donna J. Humber	42.5
28	45	10.1	Marion	Jimmy P. Myers	28.43
29	45	5.2	Marion	Marion County Coal Resources Inc.	74
30	45	6.1	Marion	Patricia A. Cochran	40
31	45	6	Marion	Patricia A. Cochran	100
32	45	11	Marion	Brett Martin	59.66
33	45	10	Marion	John Myers	44.07
34	45	12	Marion	Brett Martin	10
35	45	2	Marion	Marion County Commission	644.34
36	45	13	Marion	Brett Martin	8.6
37	45	14	Marion	Brett Martin	8.5
38	45	15	Marion	Brett Martin	10.5
39	45	17	Marion	Brett Martin	7.5
40	45	9	Marion	Wayne D. White II	13.25
41	45	1	Marion	Wayne D. White II	85.87
42	45	1.1	Marion	Wayne D. White II	1.1
43	45	1.3	Marion	Megan M. Hought & Joshua C. Pack	2
44	45	1.2	Marion	Carol L. White	1.2
45	47	11	Marion	David L. & Dorinda D. Barred	23.33
46	47	0	Marion	The West Virginia Land Trust Inc.	12
47	47	7	Marion	The West Virginia Land Trust Inc.	49
48	47	2	Marion	Debra A. Marozzi	30
49	47	1	Marion	Marion County Coal Resources Inc.	93
50	45	4	Marion	Miss Roca Inc.	67.47
51	45	5	Marion	Fluyl. Homden	182.04
52	45	1	Marion	David L. & Dorinda D. Barred	59.5
53	45	2	Marion	EQT Production Company	40
54	45	3	Marion	Mark A. Barron	27.5
55	45	4	Marion	Mark A. Barron	57
56	45	5	Marion	Marion County Coal Resources Inc.	46.83
57	45	2.3	Marion	Megan M. Pack	0.75
58	45	2.2	Marion	Marion County Commission	1.19
59	45	2.4	Marion	Marion County Commission	0.81
60	25	40	Marion	Walter R. & Rosalind Smith	57.5
61	47	12	Marion	George B. & Cynthia L. Hoesch	73.55
62	47	5	Marion	Amber M. Nichols	73.75
63	47	4	Marion	Debra A. Marozzi	43
64	47	3	Marion	Debra A. Marozzi	91

As Drilled Well Information:
Vanderbilt 2H coordinates are
NAD 27 N: 382,600.58 E: 1,725,033.60
NAD 83 UTM N: 4,377,612.12 E: 543,117.46
Vanderbilt 2H Lining Point coordinates are
NAD 27 N: 383,138.54 E: 1,721,349.23
NAD 83 UTM N: 4,377,696.79 E: 543,993.20
Vanderbilt 2H Bottom Hole coordinates are
NAD 27 N: 370,763.97 E: 1,727,429.03
NAD 83 UTM N: 4,373,956.70 E: 545,908.21
West Virginia Coordinate system of 1927 (North Zone)
based upon Differential GPS Measurements.
Plot orientation, corner and well locs 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
172703000	EQT Production Company, et al.	60
114950302	Bounty Minerals, LLC, et al.	125.73
101842000	Waco Oil & Gas Company, Inc., et al.	94
232410000	EQT Production Company	3
100570000	Patricia F. Powell	8.59
234751000	West Virginia Department of Transportation, Division of Highways	48.89
111432000	EQT Production Company	11.50
113330072	Bounty Minerals, LLC, et al.	181
172703000	EQT Production Company, et al.	125
101668000	XTO Energy Inc.	74
172703000	EQT Production Company, et al.	75
131300057	Country Roads Minerals, LLC, et al.	83.5
174257001	Country Roads Minerals, LLC, et al.	77
174249001	Country Roads Minerals, LLC, et al.	34
174130001	Country Roads Minerals, LLC, et al.	200
259222002	Country Roads Minerals, LLC, et al.	85.25
132043007	Lee and Neil Royalties, et al.	274

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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	23179	22999	40	Marcellus
3	04/05/2025	22978	22798	40	Marcellus
4	04/06/2025	22778	22598	40	Marcellus
5	04/07/2025	22579	22399	40	Marcellus
6	04/07/2025	22379	22199	40	Marcellus
7	04/07/2025	22179	21999	40	Marcellus
8	04/08/2025	21980	21800	40	Marcellus
9	04/08/2025	21780	21600	40	Marcellus
10	04/08/2025	21580	21400	40	Marcellus
11	04/09/2025	21380	21200	40	Marcellus
12	04/09/2025	21181	21001	40	Marcellus
13	04/10/2025	20981	20801	40	Marcellus
14	04/10/2025	20781	20601	40	Marcellus
15	04/10/2025	20582	20402	40	Marcellus
16	04/11/2025	20382	20202	40	Marcellus
17	04/12/2025	20182	20002	40	Marcellus
18	04/12/2025	19982	19802	40	Marcellus
19	04/12/2025	19783	19603	40	Marcellus
20	04/13/2025	19583	19403	40	Marcellus
21	04/13/2025	19383	19203	40	Marcellus
22	04/14/2025	19184	19004	40	Marcellus
23	04/14/2025	18984	18804	40	Marcellus
24	04/15/2025	18784	18604	40	Marcellus
25	04/15/2025	18585	18405	40	Marcellus
26	04/15/2025	18385	18205	40	Marcellus
27	04/16/2025	18185	18005	40	Marcellus
28	04/16/2025	17985	17805	40	Marcellus
29	04/17/2025	17786	17606	40	Marcellus
30	04/17/2025	17586	17406	40	Marcellus
31	04/18/2025	17386	17206	40	Marcellus
32	04/18/2025	17187	17007	40	Marcellus
33	04/19/2025	16987	16807	40	Marcellus
34	04/19/2025	16787	16607	40	Marcellus
35	04/20/2025	16587	16407	40	Marcellus
36	04/20/2025	16388	16208	40	Marcellus
37	04/20/2025	16188	16008	40	Marcellus
38	04/21/2025	15988	15808	40	Marcellus
39	04/21/2025	15789	15609	40	Marcellus
40	04/22/2025	15589	15409	40	Marcellus
41	04/22/2025	15389	15209	40	Marcellus
42	04/22/2025	15189	15009	40	Marcellus
43	04/23/2025	14990	14810	40	Marcellus

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44	04/23/2025	14790	14610	40	Marcellus
45	04/23/2025	14590	14410	40	Marcellus
46	04/23/2025	14391	14211	40	Marcellus
47	04/24/2025	14191	14011	40	Marcellus
48	04/24/2025	13991	13811	40	Marcellus
49	04/24/2025	13791	13611	40	Marcellus
50	04/24/2025	13592	13412	40	Marcellus
51	04/25/2025	13392	13212	40	Marcellus
52	04/25/2025	13192	13012	40	Marcellus
53	04/25/2025	12993	12813	40	Marcellus
54	04/26/2025	12793	12613	40	Marcellus
55	04/26/2025	12593	12413	40	Marcellus
56	04/26/2025	12394	12214	40	Marcellus
57	04/27/2025	12194	12014	40	Marcellus
58	04/27/2025	11994	11814	40	Marcellus
59	04/28/2025	11794	11614	40	Marcellus
60	04/28/2025	11595	11415	40	Marcellus
61	04/28/2025	11395	11215	40	Marcellus
62	04/29/2025	11195	11015	40	Marcellus
63	04/29/2025	10996	10816	40	Marcellus
64	04/30/2025	10796	10616	40	Marcellus
65	05/01/2025	10596	10416	40	Marcellus
66	05/01/2025	10396	10216	40	Marcellus
67	05/02/2025	10197	10017	40	Marcellus
68	05/03/2025	9997	9817	40	Marcellus
69	05/03/2025	9797	9617	40	Marcellus
70	05/04/2025	9598	9418	40	Marcellus
71	05/05/2025	9398	9218	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	81	8007	8818	5484	175229	6424,000	
2	04/05/2025	97	9267	8691	5345	440009	12787,000	
3	04/06/2025	98	8003	7484	5164	440204	10411,000	
4	04/06/2025	97	8155	7254	5073	440142	10357,001	
5	04/07/2025	97	9100	7501	5511	440184	10368,000	
6	04/07/2025	98	9206	6479	5679	440050	10262,000	
7	04/07/2025	99	9142	6520	5397	440043	10312,000	
8	04/08/2025	99	9208	6413	5218	440092	10312,000	
9	04/08/2025	98	9286	6873	6426	440086	10251,000	
10	04/09/2025	98	9214	6317	5597	440132	10299,000	
11	04/09/2025	98	9242	6598	5576	439917	10224,000	
12	04/10/2025	98	9301	6709	5898	439779	10311,999	
13	04/10/2025	98	9308	6630	6117	440602	10269,000	
14	04/10/2025	99	9242	6805	5461	439699	10244,000	
15	04/11/2025	98	9249	7151	5588	439812	10248,000	
16	04/12/2025	99	9051	6743	5371	439870	10308,000	
17	04/12/2025	98	9288	6698	5194	440020	10233,000	
18	04/12/2025	100	9132	6778	5374	439884	10239,000	
19	04/13/2025	99	9136	6875	4722	440153	10242,000	
20	04/13/2025	98	9145	7354	5447	439994	10211,000	
21	04/14/2025	89	9148	6514	5539	440297	10245,000	
22	04/14/2025	100	9051	6840	5516	439972	10267,000	
23	04/15/2025	100	9158	6979	6455	440729	10269,000	
24	04/15/2025	96	8910	6568	6716	439997	10122,000	
25	04/16/2025	99	8961	6569	5880	440048	10192,000	
26	04/16/2025	99	9092	6838	5490	439991	10252,000	
27	04/17/2025	99	9124	6967	5546	439881	10145,000	
28	04/17/2025	98	9138	6778	5675	439994	10118,000	
29	04/17/2025	100	8940	7241	5219	440541	10226,000	
30	04/18/2025	97	8904	6787	4759	440266	10072,000	
31	04/18/2025	96	8860	6890	5442	440033	10842,000	
32	04/19/2025	100	8939	6577	4983	440335	10091,000	
33	04/19/2025	98	8951	6090	6184	440374	10108,000	
34	04/20/2025	100	9090	6923	5179	440257	10099,000	
35	04/20/2025	100	8959	6872	5129	440260	10090,000	
36	04/21/2025	100	9040	6923	4969	440587	10049,000	
37	04/21/2025	100	8947	6802	5401	440230	10034,000	
38	04/21/2025	100	9053	7030	5358	439894	10065,000	
39	04/22/2025	100	9121	7148	6193	440167	9989,000	
40	04/22/2025	100	9026	6732	6623	440204	10041,000	
41	04/22/2025	100	8991	6541	5334	440221	10044,000	
42	04/22/2025	100	8875	6714	5672	440129	10043,000	

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43	04/23/2025	100	8958	6917	5294	440111	9988.999
44	04/23/2025	100	8981	6565	6709	439957	9999.000
45	04/23/2025	100	9009	6960	5727	439942	9978.000
46	04/24/2025	99	8792	7237	5721	439963	9957.000
47	04/24/2025	100	9005	6413	5413	440093	9977.000
48	04/24/2025	100	8989	7463	6023	439939	9930.000
49	04/25/2025	100	8982	6867	5883	440145	10006.000
50	04/25/2025	100	8986	6897	5632	440179	9959.000
51	04/25/2025	100	8875	6220	5376	440209	9915.000
52	04/25/2025	100	8886	6839	5995	440026	9812.000
53	04/26/2025	92	9124	6927	6353	323822	8863.000
54	04/26/2025	100	8699	6401	5892	440188	9842.000
55	04/26/2025	100	8763	6555	5384	439974	9889.000
56	04/27/2025	100	8801	6445	6500	439911	9894.999
57	04/27/2025	100	8854	6819	7161	440006	9894.000
58	04/28/2025	100	8716	7202	4880	439907	9945.000
59	04/28/2025	100	8811	6201	5715	440075	9855.000
60	04/29/2025	100	8336	6576	5141	440021	9893.000
61	04/29/2025	100	8417	6242	6024	440051	9761.000
62	04/29/2025	100	8532	6929	5822	440099	9857.000
63	04/30/2025	100	8595	6696	5215	439959	9888.000
64	05/01/2025	100	8653	6754	4864	439991	9809.000
65	05/01/2025	100	8549	6433	5633	440056	9841.000
66	05/02/2025	100	8568	7312	4980	439946	9823.000
67	05/03/2025	100	8525	6815	5345	440368	9793.000
68	05/03/2025	100	8618	7605	5282	439925	9761.000
69	05/04/2025	100	8592	7317	5765	440016	9801.000
70	05/05/2025	100	8452	6945	5394	439866	9802.000
71	05/05/2025	98	8434	7385	4313	440167	9709.000

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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:	47-049-02534-00-00
Operator Name:	EQT Production
Well Name and Number:	Vanderbilt 2H
Latitude:	39.546999
Longitude:	-80.474898
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7817
Total Base Water Volume (gal)*:	29952384.0377134
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	88.62337	None
Sand (Proppant)	EQT	Proppant					
			Silica Substrate	14808-60-7	100.00000	10.94395	None
StimSTREAM FR 9800	ChemStream, Inc.	Friction Reducer					
			ACRYLAMIDE-CHLORIDE SALT OF TRIMETHYLAMMONIO-ETHYL ACRYLATE COPOLYMER	69418-26-4	40.00000	0.22591	None
StimSTREAM FR 9800	ChemStream, Inc.	Friction Reducer					
			ALKANES, C12-26-BRANCHED AND LINEAR	90622-53-0	40.00000	0.22591	None
Clearal 268	ChemStream, Inc.	Biocide					

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			Water	7732-18-5	80.00000	0.03573	None
StimSTREAM FR 9800	ChemStream, Inc.	Friction Reducer					
			Water	7732-18-5	15.00000	0.03177	None
StimSTREAM FR 9800	ChemStream, Inc.	Friction Reducer					
			ETHOXYLATED ALCOHOLS (C12-16)	68551-12-2	5.00000	0.00353	None
Clearal 268	ChemStream, Inc.	Biocide					
			Glutaraldehyde	111-30-8	20.00000	0.00223	None
Enviro-Syn HCR-7000- WL	STAAR Logistics, LLC	Synthetic Acid					
			FLUID-Acid-00001	Proprietary	20.00000	0.00132	None
Enviro-Syn HCR-7000- WL	STAAR Logistics, LLC	Synthetic Acid					
			FLUID-Amine-00001	Proprietary	10.00000	0.00033	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					
			Quaternary Ammonium Compounds	68424-85-1	3.00000	0.00005	None
Clearal 268	ChemStream, Inc.	Biocide					
			Didecyl dimethyl ammonium chloride	7173-51-5	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%

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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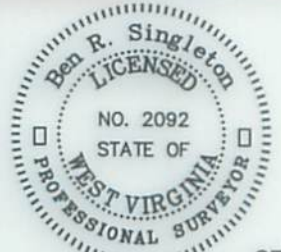
—Vanderbilt 2H
As Drilled
Bottom Hole

(S) Proposed Gas Well
 (C) Located Corner, as noted
 --- Surface Tract Lines
 - - - Reference Line
 --- Lease Boundary
 --- Creek or Drain
 --- WV County Route
 --- WV State Route

(-e-) Denotes Location of Well on United States Topographic Maps



P.S. 2092



SEAL

47 - 049 - 02534
STATE COUNTY PERMIT

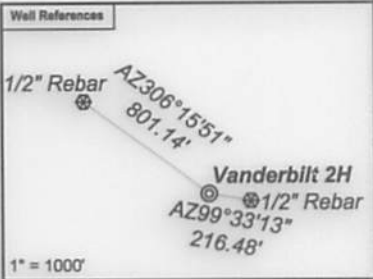
ADDRESS: 115 Professional Place PO Box 280
Bridgeport, WV 26330

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Vanderbilt 2H
Vanderbilt
EQT Production Company

Tract I.D.	tax Map 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
4	45	12.1	Marion	Mannington	April M. Powell	2.49
5	45	4	Marion	Mannington	Ronald L. Powell, Jr.	59.82
6	45	12	Marion	Mannington	April M. Powell	37.5
7	45	13	Marion	Mannington	Thelma L. Coen	11
8	45	14.2	Marion	Mannington	Thelma L. Coen	1.6
9	45	14.1	Marion	Mannington	Patricia F. Powell	8.59
10	45	14.4	Marion	Mannington	Thomas A. & Karen J. Hixenbaugh	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. Snodgrass	105.5
16	45	20	Marion	Mannington	EQT Production Company	78.5
17	45	14.3	Marion	Mannington	Kathleen S. Trudeau & Wendy E. Marolf	6.07
18	45	14	Marion	Mannington	Franklin W. & Emily M. Powell	11.58
19	45	28	Marion	Mannington	Delbert C. Teagarden, Jr.	40.8
20	45	30	Marion	Mannington	Keith A. Powell	21.5
21	45	31	Marion	Mannington	Keith A. Powell	Lot 2
22	45	14.7	Marion	Mannington	Keith A. Powell	Lot 8
23	45	14.6	Marion	Mannington	Keith A. Powell	0.71
24	45	1	Marion	Mannington	Nancy S. Wyckoff, et al.	26.75
25	45	2	Marion	Mannington	Allen L. & Donna J. Hillberry	102.59
26	20	18	West	Grant	Equitrans LP	107.93
27	45	3	Marion	Mannington	Allen L. & Donna J. Hillberry	42.5
28	46	10.1	Marion	Mannington	Johnny P. Myers	28.43
29	46	5.2	Marion	Mannington	Marion County Coal Resources Inc.	74
30	46	6.1	Marion	Mannington	Patricia A. Cotheman	40
31	46	6	Marion	Mannington	Patricia A. Cotheman	100
32	46	11	Marion	Mannington	Brett Martin	59.55
33	46	10	Marion	Mannington	John Myers	44.07
34	46	12	Marion	Mannington	Brett Martin	10
35	46	2	Marion	Mannington	Marion County Commission	644.34
36	46	13	Marion	Mannington	Brett Martin	8.5
37	46	14	Marion	Mannington	Brett Martin	8.5
38	46	16	Marion	Mannington	Brett Martin	10.5
39	46	17	Marion	Mannington	Brett Martin	7.5
40	46	9	Marion	Mannington	Wayne D. Willie II	13.25
41	46	1	Marion	Mannington	Wayne D. Willie II	85.87
42	46	1.1	Marion	Mannington	Wayne D. Willie II	1.1
43	46	1.3	Marion	Mannington	Megan M. Haught & Joshua C. Peek	2
44	46	1.2	Marion	Mannington	Caren L. Willie	1.2
45	47	11	Marion	Mannington	David L. & Doretta D. Bonnell	23.53
46	47	6	Marion	Mannington	The West Virginia Land Trust Inc.	62
47	47	7	Marion	Mannington	The West Virginia Land Trust Inc.	48
48	47	2	Marion	Mannington	Debra A. Marcozzi	30
49	47	1	Marion	Mannington	Marion County Coal Resources Inc.	98
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 I. & 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
57	46	2.3	Marion	Mannington	Megan M. Peek	0.75
58	46	2.2	Marion	Mannington	Marion County Commission	1.19
59	46	2.4	Marion	Mannington	Marion County Commission	0.81
60	25	40	West	Grant	Walter R. & Rosalind Smith	57.5
61	47	12	Marion	Mannington	George B. & Cynthia L. Kovach	75.56
62	47	5	Marion	Mannington	Amber M. Nichols	73.75
63	47	4	Marion	Mannington	Debra A. Marcozzi	43
64	47	3	Marion	Mannington	Debra A. Marcozzi	91

As Drilled Well Information:
Vanderbilt 2H coordinates are
NAD 27 N: 382,800.56 E: 1,725,033.80
NAD 83 UTM N: 4,377,612.12 E: 545,117.46
Vanderbilt 2H Landing Point coordinates are
NAD 27 N: 383,136.54 E: 1,721,349.23
NAD 83 UTM N: 4,377,695.76 E: 543,993.20
Vanderbilt 2H Bottom Hole coordinates are
NAD 27 N: 370,768.97 E: 1,727,429.03
NAD 83 UTM N: 4,373,958.70 E: 545,908.21
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
172703000	EQT Production Company, et al.	60
114998022	Bounty Minerals, LLC, et al.	125.73
101642000	Waco Oil & Gas Company, Inc., et al.	94
232410000	EQT Production Company	3
100578000	Patricia F. Powell	8.59
234751000	West Virginia Department of Transportation, Division of Highways	46.86
111452000	EQT Production Company	11.58
113880072	Bounty Minerals, LLC, et al.	161
172703000	EQT Production Company, et al.	126
101666000	XTO Energy Inc.	74
172703000	EQT Production Company, et al.	75
131300067	Country Roads Minerals, LLC, et al.	63.5
174257001	Country Roads Minerals, LLC, et al.	77
174249001	Country Roads Minerals, LLC, et al.	34
174139001	Country Roads Minerals, LLC, et al.	203
259229002	Country Roads Minerals, LLC, et al.	85.25
136043007	Lee and Hall Royalties, et al.	274

