

WR-35  
Rev. 8/23/13

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

API 47 - 085 - 10352 County Ritchie District Clay  
 Quad Pennsboro 7.5' Pad Name Pool Pad Field/Pool Name -----  
 Farm name Dennis J. Sellers Well Number Vernon Unit 1H  
 Operator (as registered with the OOG) Antero Resources Corporation  
 Address 1615 Wynkoop Street City Denver State CO Zip 80202

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
 Top hole Northing 4349859m Easting 507636m  
 Landing Point of Curve Northing 4349760.10m Easting 507345.50m  
 Bottom Hole Northing 4346060m Easting 508575m

Elevation (ft) 1181' 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)

Air - Foam & 4% KCL

Mud - Polymer

Date permit issued 5/11/2018 Date drilling commenced 6/17/2018 Date drilling ceased 7/27/2018  
 Date completion activities began 8/27/2018 Date completion activities ceased 10/8/2018  
 Verbal plugging (Y/N) N/A 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 None Identified Open mine(s) (Y/N) depths No  
 Salt water depth(s) ft None Identified Void(s) encountered (Y/N) depths No  
 Coal depth(s) ft None Identified Cavern(s) encountered (Y/N) depths No  
 Is coal being mined in area (Y/N) No

Reviewed by:

WR-35  
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CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	24"	20"	105'	New	94#, H-40	N/A	Y
Surface	17-1/2"	13-3/8"	392'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2602'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	19971'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6898'		4.7#, L-80		
Packer type and depth set		N/A					

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	Class A	204 sx	15.6	1.21	247	0'	8 Hrs.
Surface	Class A	375 sx	15.6	1.20	450	0'	8 Hrs.
Coal							
Intermediate 1	Class A	903 sx	15.6	1.19	1075	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	736 sx (Lead) 2312 sx (Tail)	14.5 (Lead), 15.2 (Tail)	1.40 (Lead), 1.60 (Tail)	4732	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 19991' MD, 6544' TVD (BHL), 6548' (Deepest Point Drilled) Loggers TD (ft) 19991' MD

Deepest formation penetrated Marcellus Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) 5837'

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 - 0

Surface - 1 above guide shoe, 1 above insert float, 1 every 4th joint to surface

Intermediate - 1 above float joint, 1 above float collar, 1 every 4th joint to surface

Production - 1 above float joint, 1 below float collar, 1 every 3rd joint to top of cement

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 N/A



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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
Marcellus	6464' (TOP) TVD	6956' (TOP) MD

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 3000 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 10635 mcfpd Oil 145 bpd NGL --- bpd Water 1159 bpd GAS MEASURED BY  Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
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**\*PLEASE SEE ATTACHED EXHIBIT 3**


Please insert additional pages as applicable.

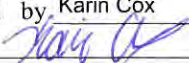
Drilling Contractor Patterson - UTI Drilling Company LLC  
Address 207 Carlton Drive City Eighty Four State PA Zip 15330

Logging Company Nine Energy Service  
Address 125 Museum Rd City Washington State PA Zip 15307

Cementing Company Schlumberger  
Address 300 Schlumberger Dr City Sugar Land State TX Zip 77478

Stimulating Company Halliburton  
Address 121 Champion Way Suite 200 City Canonsburg State PA Zip 15317

Please insert additional pages as applicable.

Completed by Karin Cox Telephone 303-357-7310  
Signature  Title Permitting Agent Date 2/15/2019

API 47-085-10352 Farm Name Dennis J Sellers Well Number Vernon Unit 1H					
EXHIBIT 1					
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	8/27/2018	19762.7	19862	60	Marcellus
2	8/27/2018	19563.296	19731.466	60	Marcellus
3	8/27/2018	19363.892	19532.062	60	Marcellus
4	8/28/2018	19164.488	19332.658	60	Marcellus
5	8/28/2018	18965.084	19133.254	60	Marcellus
6	8/29/2018	18765.68	18933.85	60	Marcellus
7	8/29/2018	18566.276	18734.446	60	Marcellus
8	8/29/2018	18366.872	18535.042	60	Marcellus
9	8/30/2018	18167.468	18335.638	60	Marcellus
10	8/30/2018	17968.064	18136.234	60	Marcellus
11	8/30/2018	17768.66	17936.83	60	Marcellus
12	8/31/2018	17569.256	17737.426	60	Marcellus
13	8/31/2018	17369.852	17538.022	60	Marcellus
14	9/1/2018	17170.448	17338.618	60	Marcellus
15	9/1/2018	16971.044	17139.214	60	Marcellus
16	9/1/2018	16771.64	16939.81	60	Marcellus
17	9/2/2018	16572.236	16740.406	60	Marcellus
18	9/2/2018	16372.832	16541.002	60	Marcellus
19	9/3/2018	16173.428	16341.598	60	Marcellus
20	9/3/2018	15974.024	16142.194	60	Marcellus
21	9/4/2018	15774.62	15942.79	60	Marcellus
22	9/6/2018	15575.216	15743.386	60	Marcellus
23	9/6/2018	15375.812	15543.982	60	Marcellus
24	9/6/2018	15176.408	15344.578	60	Marcellus
25	9/7/2018	14977.004	15145.174	60	Marcellus
26	9/7/2018	14777.6	14945.77	60	Marcellus
27	9/7/2018	14578.196	14746.366	60	Marcellus
28	9/7/2018	14378.792	14546.962	60	Marcellus
29	9/8/2018	14179.388	14347.558	60	Marcellus
30	9/9/2018	13979.984	14148.154	60	Marcellus
31	9/9/2018	13780.58	13948.75	60	Marcellus
32	9/10/2018	13581.176	13749.346	60	Marcellus
33	9/10/2018	13381.772	13549.942	60	Marcellus
34	9/10/2018	13182.368	13350.538	60	Marcellus
35	9/10/2018	12982.964	13151.134	60	Marcellus
36	9/11/2018	12783.56	12951.73	60	Marcellus
37	9/11/2018	12584.156	12752.326	60	Marcellus
38	9/12/2018	12384.752	12552.922	60	Marcellus
39	9/12/2018	12185.348	12353.518	60	Marcellus
40	9/12/2018	11985.944	12154.114	60	Marcellus
41	9/13/2018	11786.54	11954.71	60	Marcellus
42	9/13/2018	11587.136	11755.306	60	Marcellus
43	9/13/2018	11387.732	11555.902	60	Marcellus
44	9/13/2018	11188.328	11356.498	60	Marcellus
45	9/14/2018	10988.924	11157.094	60	Marcellus
46	9/14/2018	10789.52	10957.69	60	Marcellus
47	9/14/2018	10590.116	10758.286	60	Marcellus
48	9/15/2018	10390.712	10558.882	60	Marcellus
49	9/15/2018	10191.308	10359.478	60	Marcellus
50	9/15/2018	9991.904	10160.074	60	Marcellus
51	9/15/2018	9792.5	9960.67	60	Marcellus
52	9/16/2018	9593.096	9761.266	60	Marcellus
53	9/16/2018	9393.692	9561.862	60	Marcellus
54	9/16/2018	9194.288	9362.458	60	Marcellus
55	9/17/2018	8994.884	9163.054	60	Marcellus
56	9/17/2018	8795.48	8963.65	60	Marcellus
57	9/18/2018	8596.076	8764.246	60	Marcellus
58	9/19/2018	8396.672	8564.842	60	Marcellus
59	9/20/2018	8197.268	8365.438	60	Marcellus
60	9/20/2018	7997.864	8166.034	60	Marcellus
61	9/21/2018	7798.46	7966.63	60	Marcellus
62	9/21/2018	7599.056	7767.226	60	Marcellus
63	9/21/2018	7399.652	7567.822	60	Marcellus
64	9/22/2018	7200.248	7368.418	60	Marcellus
65	9/22/2018	7000.844	7169.014	60	Marcellus

API 47-085-10352\_Farm Name Dennis J. Sellers Well Number Vernon Unit 1H

## EXHIBIT 2

Stage No.	Stimulations Date	Avg Pump Rate	Avg Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/ other (units)
1	8/27/2018	69.95	7496	0	3366	288480	6930.333	N/A
2	8/27/2018	62.71	7484	5454	3255	409920	8919.024	N/A
3	8/27/2018	64.42	7659	6526	3019	409560	10293.71	N/A
4	8/28/2018	60.75	7689	5619	3338	404390	10887.55	N/A
5	8/28/2018	70.89	7930	5892	3030	412220	8658.881	N/A
6	8/29/2018	70.19	7910	5546	3166	408800	8576.714	N/A
7	8/29/2018	71.14	7537	5460	3177	416460	8907.476	N/A
8	8/29/2018	69.4	7472	3713	3178	408640	9643.857	N/A
9	8/30/2018	72.43	8005	5418	3227	406520	8888.381	N/A
10	8/30/2018	74.1	7785	4955	3098	409320	8837.333	N/A
11	8/30/2018	71.27	7571	5142	3393	404340	10494.57	N/A
12	8/31/2018	67.02	7499	5410	3268	400200	8576.19	N/A
13	8/31/2018	55.28	7858	4243	5862	406600	11484.19	N/A
14	9/1/2018	61.2	7831	5552	3544	412800	13174.12	N/A
15	9/1/2018	74.4	7797	5424	3307	401420	9054.857	N/A
16	9/1/2018	72.88	7379	5474	3016	402980	9406.714	N/A
17	9/2/2018	65.41	7454	5266	5018	141580	10222.33	N/A
18	9/2/2018	68.59	7198	5426	3328	404140	8572.571	N/A
19	9/3/2018	76.02	7807	5558	3431	397720	8826.119	N/A
20	9/3/2018	76.2	7332	5071	3348	398540	8713.143	N/A
21	9/4/2018	69.47	7170	5151	3184	399400	8347.952	N/A
22	9/6/2018	62.93	8033	6150	3778	399920	9134.714	N/A
23	9/6/2018	71.01	7541	5784	3197	408660	9729.238	N/A
24	9/6/2018	72.23	7233	5645	3210	402280	8493.857	N/A
25	9/7/2018	75.09	7239	5594	3333	401400	8640.548	N/A
26	9/7/2018	76.15	6875	5461	3372	400440	8729.762	N/A
27	9/7/2018	73.75	6851	6021	3189	397400	8890.429	N/A
28	9/7/2018	70.8	7080	5760	3091	400180	8558.476	N/A
29	9/8/2018	70.8	7182	6398	3334	399100	8406.738	N/A
30	9/9/2018	71.3	7286	6746	3721	399040	9036.833	N/A
31	9/9/2018	74.75	7527	6005	3599	398860	8544.024	N/A
32	9/10/2018	64.36	7801	5767	3205	403100	11535.24	N/A
33	9/10/2018	69.37	7714	5865	3581	398420	10680.62	N/A
34	9/10/2018	64.1	7877	7611	3529	393560	13390.48	N/A
35	9/10/2018	68.05	7089	6148	3433	401080	8400.429	N/A
36	9/11/2018	74.02	7352	6942	4041	400460	8509.19	N/A
37	9/11/2018	71.82	7291	5814	4173	397960	8475.262	N/A
38	9/12/2018	63.09	7877	5812	3940	402080	11172.55	N/A
39	9/12/2018	74	7483	5813	4193	397620	9332.738	N/A
40	9/12/2018	63.38	7344	5948	3777	402620	11486.57	N/A
41	9/13/2018	70.5	6868	5011	3648	401220	8376.167	N/A
42	9/13/2018	73.87	6885	5995	3399	397540	8316.524	N/A
43	9/13/2018	69.76	6675	5987	3427	402520	8322.429	N/A
44	9/13/2018	73.3	6828	4092	3366	404320	8192.929	N/A
45	9/14/2018	72	6568	4335	3320	404500	8157.31	N/A
46	9/14/2018	75.11	6917	6595	3490	405540	8280.071	N/A
47	9/14/2018	71.9	6997	6042	3462	405240	8292.619	N/A
48	9/15/2018	71.3	6913	4774	3039	391720	8052.071	N/A
49	9/15/2018	72.08	6892	4889	3034	401320	8055.31	N/A
50	9/15/2018	73.16	6908	5890	3169	402360	8396.952	N/A
51	9/15/2018	76.1	6618	4866	3043	398800	8100.262	N/A
52	9/16/2018	76.8	6464	4061	3108	397700	8044.452	N/A
53	9/16/2018	77.51	6467	5590	3320	406160	8139.976	N/A
54	9/16/2018	76.29	6682	6653	6179	398540	7884.738	N/A
55	9/17/2018	73.92	6523	5297	3180	394940	8036.571	N/A
56	9/17/2018	77.7	6701	5223	3772	400440	8057.167	N/A
57	9/18/2018	75.61	6712	6423	2968	398640	8181.095	N/A
58	9/19/2018	73.16	6303	6588	3358	393160	8059.048	N/A
59	9/20/2018	76.42	6408	6018	3328	398120	8128.286	N/A
60	9/20/2018	75.76	6194	5966	3339	398060	8110.357	N/A
61	9/21/2018	78.14	6264	5942	3564	398740	8248.643	N/A
62	9/21/2018	76.83	6280	6254	3250	404860	8072.095	N/A
63	9/21/2018	77.91	6094	5599	3673	399360	8370.857	N/A
64	9/22/2018	76.62	6433	5149	3869	401920	8149.31	N/A
65	9/22/2018	73.87	6221	6235	3202	402020	7990.357	N/A
	AVG=	71	7,159	5,555	3,489	25,755,950	582,579	TOTAL

API 47-085-10352 Farm Name Dennis J Sellers Well Number Vernon Unit 1H				
EXHIBIT 3				
LITHOLOGY/ FORMATION	TOP DEPTH (TVD) From Surface	BOTTOM DEPTH (TVD) From Surface	TOP DEPTH (MD) From Surface	BOTTOM DEPTH (MD) From Surface
Sandy siltstone	0	275	0	275
Limey sandstone	275	415	275	415
silty shale	415	695	415	695
limey siltstone	695	875	695	875
sandy shale	875	1,335	875	1,335
silty shale, tr. coal	1,335	1,465	1,335	1,465
Sandy siltstone	1,465	1,595	1,465	1,595
silty shale	1,595	1,675	1,595	1,675
silty sandstone	1,675	1,755	1,675	1,755
shaly sand	1,755	1,825	1,755	1,825
silty sand tr. Coal	1,825	1,895	1,825	1,895
Sandstone	1,895	1,935	1,895	1,935
siltstone	1,935	1,972	1,935	1,973
Big Lime	1,972	2,132	1,973	2,133
Big Injun	2,132	2,501	2,133	2,502
Gantz Sand	2,501	2,794	2,502	2,795
Fifty Foot Sandstone	2,794	2,970	2,795	2,972
Gordon	2,970	3,131	2,972	3,133
Fifth Sandstone	3,131	3,462	3,133	3,469
Bayard	3,462	3,375	3,469	3,510
Warren	3,375	3,874	3,510	3,896
Speechley	3,874	4,632	3,896	4,730
Balltown	4,131	5,022	4,175	5,169
Bradford	4,632	5,022	4,730	5,169
Benson	5,022	5,250	5,169	5,423
Alexander	5,250	5,858	5,423	6,085
Rhinestreet	5,833	6,189	6,060	6,447
Sycamore	6,189	6,295	6,447	6,582
Middlesex	6,295	6,404	6,582	6,767
Burkett	6,404	6,439	6,767	6,858
Tully	6,439	6,464	6,858	6,956
Marcellus	6,464	NA	6,956	NA

\*Please note Antero determines formation tops based on mud logs that are only run on one well on a multi-well pad. The measured depth (MD) data on subsequent wells may be slightly different due to the well's unique departure.

LATITUDE 39°20'00"

10,362'

LATITUDE 39°17'30" TO BOTTOM HOLE

AS DRILLED DATA:  
 WELL 1H TOP HOLE INFORMATION:  
 N: 293,785ft E: 1,600,521ft  
 LAT: 39°17'52.79" LON: 80°54'41.82"  
 BOTTOM HOLE INFORMATION:  
 N: 281,268ft E: 1,603,394ft  
 LAT: 39°15'49.52" LON: 80°54'02.79"  
 WEST VIRGINIA COORDINATE  
 SYSTEM OF 1927 NORTH ZONE.  
 ZONE WAS DERIVED FROM  
 MEASUREMENTS TAKEN WITH  
 TRIMBLE GEOXT SUBMETER  
 MAPPING GRADE GPS UNIT  
 PLAT ORIENTATION, CORNER  
 AND WELL REFERENCE TIE LINES  
 ARE BASED ON GRID NORTH.

(NAD) 83 (UTM) ZONE 17 COORDS:  
 WELL 1H TOP HOLE INFORMATION:  
 N: 4,349,859m E: 507,636m  
 BOTTOM HOLE INFORMATION:  
 N: 4,346,060m E: 508,575m

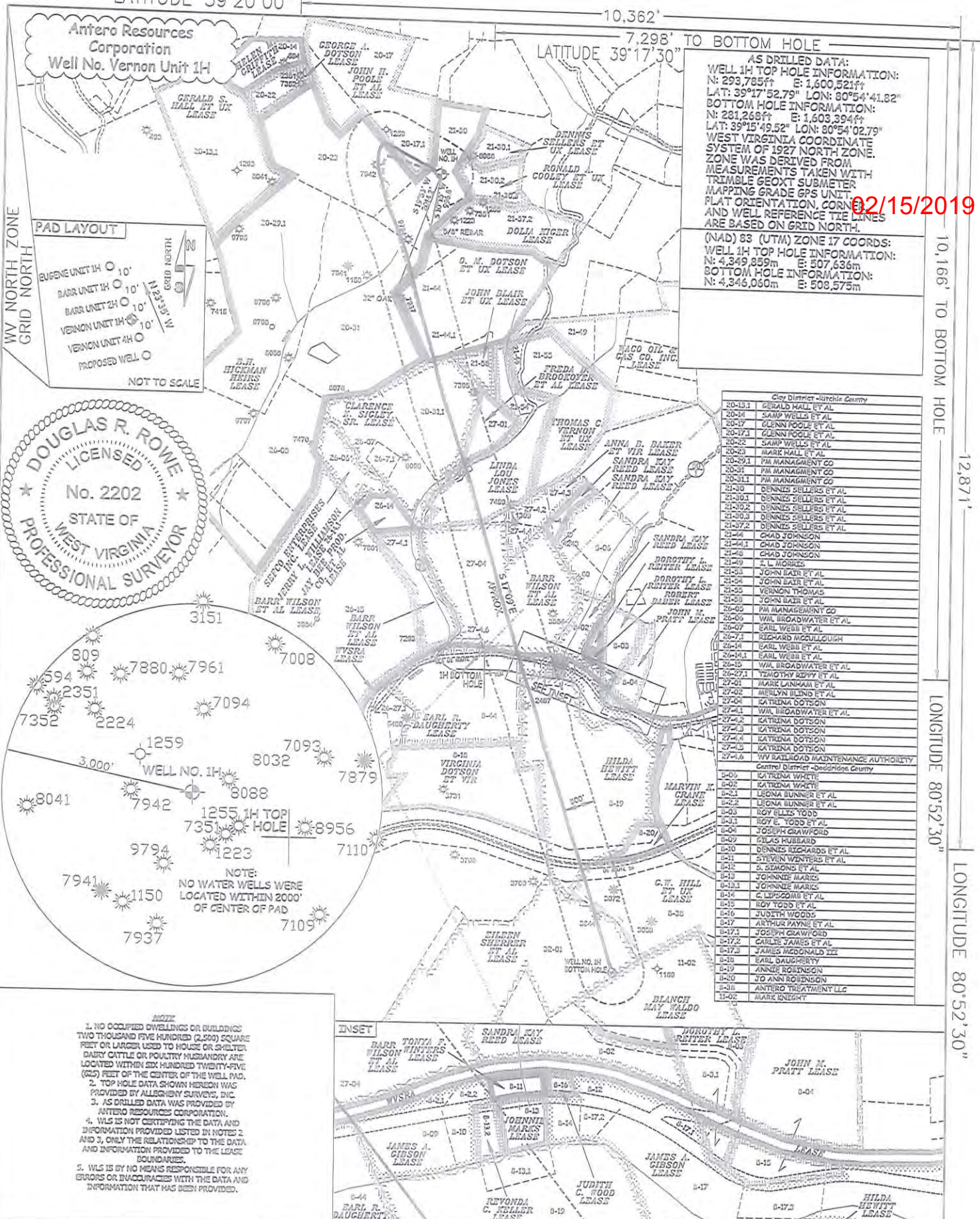
02/15/2019

10,166' TO BOTTOM HOLE

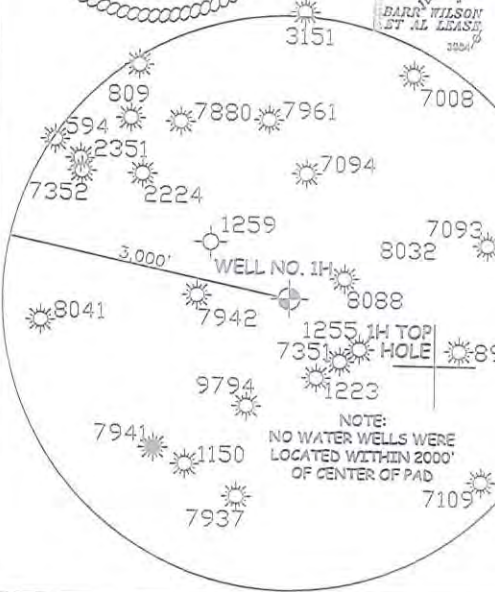
12,871'

LONGITUDE 80°52'30"

LONGITUDE 80°52'30"

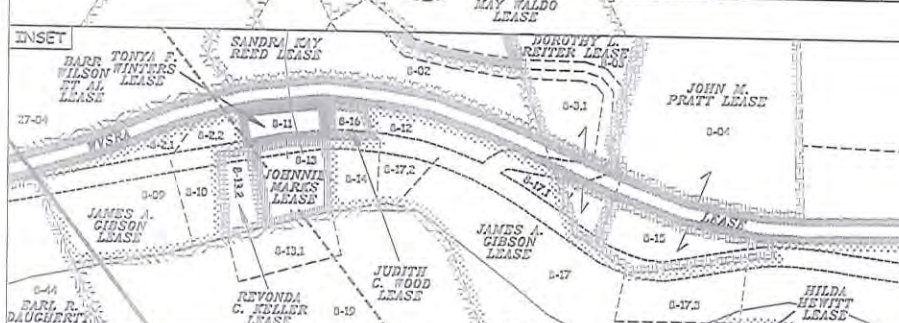


**DOUGLAS R. ROWE**  
 LICENSED  
 No. 2202  
 STATE OF  
 WEST VIRGINIA  
 PROFESSIONAL SURVEYOR



Parcel No.	Owner/Leaseholder
20-13.1	GERALD HALL ET AL
20-14	SAMP WELLS ET AL
20-17	GLENN POOLE ET AL
20-17.1	GLENN POOLE ET AL
20-22	SAMP WELLS ET AL
20-23	MARK HALL ET AL
20-29.1	PM MANAGEMENT CO
20-31	PM MANAGEMENT CO
20-31.1	PM MANAGEMENT CO
21-30	DENNIS SELLERS ET AL
21-30.1	DENNIS SELLERS ET AL
21-30.2	DENNIS SELLERS ET AL
21-30.3	DENNIS SELLERS ET AL
21-30.4	DENNIS SELLERS ET AL
21-30.5	DENNIS SELLERS ET AL
21-30.6	DENNIS SELLERS ET AL
21-30.7	DENNIS SELLERS ET AL
21-30.8	DENNIS SELLERS ET AL
21-30.9	DENNIS SELLERS ET AL
21-31	CHAD JOHNSON
21-31.1	CHAD JOHNSON
21-31.2	CHAD JOHNSON
21-31.3	CHAD JOHNSON
21-31.4	CHAD JOHNSON
21-31.5	CHAD JOHNSON
21-31.6	CHAD JOHNSON
21-31.7	CHAD JOHNSON
21-31.8	CHAD JOHNSON
21-31.9	CHAD JOHNSON
21-32	J. L. MOORE
21-33	JOHN BAIR ET AL
21-34	JOHN BAIR ET AL
21-35	VERNON THOMAS
21-36	JOHN BAIR ET AL
21-37	PM MANAGEMENT CO
21-38	WAL BROADWATER ET AL
21-39	EARL WEBB ET AL
21-40	RICHARD MCCULLOUGH
21-41	EARL WEBB ET AL
21-42	EARL WEBB ET AL
21-43	WAL BROADWATER ET AL
21-44	TERIGHTY REPPY ET AL
21-45	MARK LANMAN ET AL
21-46	MERLYN BLUND ET AL
21-47	KATRINA DOTSON
21-48	WAL BROADWATER ET AL
21-49	KATRINA DOTSON
21-50	KATRINA DOTSON
21-51	KATRINA DOTSON
21-52	KATRINA DOTSON
21-53	KATRINA DOTSON
21-54	WV RAILROAD MAINTENANCE AUTHORITY
0-00	KATRINA WHITE
0-01	KATRINA WHITE
0-02	LEONA BUNNER ET AL
0-03	LEONA BUNNER ET AL
0-04	ROY ELLES TODD
0-05	ROY ELLES TODD ET AL
0-06	JOSEPH GRAWFORD
0-07	WELAS HUBBARD
0-08	DENNIS REYNOLDS ET AL
0-09	STEVEN WINTERS ET AL
0-10	S. SIMONS ET AL
0-11	JOHNNIE MARRS
0-12	JAMES MARRS
0-13	C. LEFZOHM ET AL
0-14	ROY TODD ET AL
0-15	JUDITH WOODS
0-16	ARTHUR PAYNE ET AL
0-17	JOSEPH GRAWFORD
0-18	CARLE JAMES ET AL
0-19	JAMES McDONALD III
0-20	EARL DAUBERTY
0-21	ANNIE ROBINSON
0-22	JO ANNI ROBINSON
0-23	ANTERO TREATMENT LLC
0-24	MARK KNIGHT

**NOTE**  
 1. NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.  
 2. TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ALLEGHENY SURVEYS, INC.  
 3. AS DRILLED DATA WAS PROVIDED BY ANTERO RESOURCES CORPORATION.  
 4. WLS IS NOT CERTIFYING THE DATA AND INFORMATION PROVIDED LISTED IN NOTES 2 AND 3, ONLY THE RELATIONSHIP TO THE DATA AND INFORMATION PROVIDED TO THE LEASE BOUNDARIES.  
 5. WLS IS BY NO MEANS RESPONSIBLE FOR ANY ERRORS OR INACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.



JOB # 15-040WA  
 DRAWING # VERNON1HAD  
 SCALE 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY SUBMETER  
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS  
 STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

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 RULES ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

WILLOW LAND SURVEYING PLLC  
 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415



**LEGEND**  
 - - - - - Surface Owner Boundary Lines +/-  
 - - - - - Interior Surface Tracts +/-  
 ○ Proposed Well Path  
 ⊙ As Drilled Well Path

DOUGLAS R. ROWE P.S. 2202  
 DATE 01/21/19  
 OPERATOR'S WELL# VERNON UNIT #1H

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL  
 (IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X 47 085 10352  
 LOCATION: ELEVATION 1,181' AS BUILT WATERSHED NORTH FORK HUGHES RIVER STATE COUNTY PERMIT  
 QUADRANGLE PENNSBORO 7.5 DISTRICT CLAY COUNTY RITCHIE

SURFACE OWNER DENNIS J. SELLERS ACREAGE 39.26 ACRES +/-  
 OIL & GAS ROYALTY OWNER B.H. HICKMAN HEIRS; JOHN H. POOLE ET AL; O. M. DOTSON ET UX; LEASE ACREAGE 400 AC.; 75 AC.; 70 AC.;  
 CLARENCE E. SIGLEY, SR.; FRED A. D. BROOKOVER ET AL; LINDA LOU JONES; BARR WILSON ET AL; WVSRA; 110 AC.; 13.5 AC.; 49,906 AC.; 80 AC.; 801.19 AC.;  
 EARL R. DAUBERTY; JAMES A. GIBSON; HILDA HEWITT; G. W. HILL ET UX; EILEEN SHERRER ET AL 62.13 AC.; 19 AC.; 100 AC.; 88.5 AC.; 500 AC.±

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE  
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL  
 (SPECIFY) AS DRILLED

TARGET FORMATION MARCELLUS PLUG & ABANDON CLEAN OUT & REPLUG  
 WELL OPERATOR ANTERO RESOURCES CORP. ESTIMATED DEPTH 6,544' TVD 19,991' MD  
 ADDRESS 1815 WYNKOOP ST. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM  
 FORM WW-6 DENVER, CO 80202 ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313