

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

API 47 - 085 - 10333 County Ritchie District Clay
Quad Pennsboro 7.5' Pad Name Hichman Pad Field/Pool Name -----
Farm name Radall Bond et al Well Number Hex Unit 3H
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 4354343m Easting 509967m
Landing Point of Curve Northing 4354504m Easting 509883m
Bottom Hole Northing 4357929m Easting 508773m

Elevation (ft) 1250' 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 12/26/2017 Date drilling commenced 1/31/2018 Date drilling ceased 8/21/2018
Date completion activities began 11/30/2018 Date completion activities ceased 3/25/2019
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:

API 47-085 - 10333 Farm name Radall Bond et al Well number Hex Unit 3H

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"	95'	New	94#, H-40	N/A	Y
Surface	17-1/2"	13-3/8"	422'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2604'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	19242'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6820'		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 ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	Class A	204 sx	15.6	1.18	241	0'	8 Hrs.
Surface	Class A	422 sx	15.6	1.20	506	0'	8 Hrs.
Coal							
Intermediate 1	Class A	937 sx	15.6	1.20	1124	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	695 sx (Lead) 1955 sx (Tail)	14 (Lead), 15.2 (Tail)	1.47 (Lead), 1.83(Tail)	4599	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 19262' MD, 6664' TVD (BHL), 6663' (Deepest Point Drilled) Loggers TD (ft) 19262' MD

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

Plug back procedure N/A

Kick off depth (ft) 6000'

** This is a subsequent Well. Antero only runs wireline logs on one well on a multi-well pad (Centerville Unit 2H API#47-085-10338). A Cement Bond Log has been included with this submittal.

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

API 47- 085 - 10333 Farm name Radall Bond et al Well number Hex Unit 3H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
*PLEASE SEE ATTACHED EXHIBIT 1					

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations 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)
*PLEASE SEE ATTACHED EXHIBIT 2								

Please insert additional pages as applicable.

API 47- 085 - 10333 Farm name Radall Bond et al Well number Hex Unit 3H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>Marcellus</u>	<u>6593' (TOP)</u>	<u>TVD</u>	<u>6885' (TOP)</u> <u>MD</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

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 10322.46 mcfpd Oil 188.84 bpd NGL --- bpd Water 715.19 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	

***PLEASE SEE ATTACHED EXHIBIT 3**

Please insert additional pages as applicable.

Drilling Contractor Frontier Drilling LLC
Address 562 Spring Run Road City Pennsboro State WV Zip 26415

Logging Company Allied Horizontal Wireline Services
Address 381 Colonial Manor Rd City North Huntington State PA Zip 15642

Cementing Company C&J Energy Services
Address 1650 Hackers Creek City Jane Lew State WV Zip 26378

Stimulating Company CalFrac Well Services
Address 171 17th Street, Wuite 1445 City Denver State CO Zip 80202

Please insert additional pages as applicable.

Completed by Karin Cox Telephone 303-357-6820
Signature  Title Permitting Agent Date 6/7/2019

API 47-085-10333 Farm Name Radall Bond et al Well Number Hex Unit 3H

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	11/30/2018	19088.2	19143.1	60	Marcellus
2	11/30/2018	18888.862	19056.977	60	Marcellus
3	12/1/2018	18689.524	18857.639	60	Marcellus
4	12/1/2018	18490.186	18658.301	60	Marcellus
5	12/2/2018	18290.848	18458.963	60	Marcellus
6	12/2/2018	18091.51	18259.625	60	Marcellus
7	12/3/2018	17892.172	18060.287	60	Marcellus
8	12/3/2018	17692.834	17860.949	60	Marcellus
9	12/4/2018	17493.496	17661.611	60	Marcellus
10	12/4/2018	17294.158	17462.273	60	Marcellus
11	12/5/2018	17094.82	17262.935	60	Marcellus
12	12/5/2018	16895.482	17063.597	60	Marcellus
13	12/6/2018	16696.144	16864.259	60	Marcellus
14	12/7/2018	16496.806	16664.921	60	Marcellus
15	12/8/2018	16297.468	16465.583	60	Marcellus
16	12/9/2018	16098.13	16266.245	60	Marcellus
17	12/9/2018	15898.792	16066.907	60	Marcellus
18	12/10/2018	15699.454	15867.569	60	Marcellus
19	12/10/2018	15500.116	15668.231	60	Marcellus
20	12/10/2018	15300.778	15468.893	60	Marcellus
21	12/11/2018	15101.44	15269.555	60	Marcellus
22	12/11/2018	14902.102	15070.217	60	Marcellus
23	12/12/2018	14702.764	14870.879	60	Marcellus
24	12/12/2018	14503.426	14671.541	60	Marcellus
25	12/13/2018	14304.088	14472.203	60	Marcellus
26	12/13/2018	14104.75	14272.865	60	Marcellus
27	12/13/2018	13905.412	14073.527	60	Marcellus
28	12/14/2018	13706.074	13874.189	60	Marcellus
29	12/14/2018	13506.736	13674.851	60	Marcellus
30	12/15/2018	13307.398	13475.513	60	Marcellus
31	12/16/2018	13108.06	13276.175	60	Marcellus
32	12/17/2018	12908.722	13076.837	60	Marcellus
33	12/17/2018	12709.384	12877.499	60	Marcellus
34	12/18/2018	12510.046	12678.161	60	Marcellus
35	12/18/2018	12310.708	12478.823	60	Marcellus
36	12/19/2018	12111.37	12279.485	60	Marcellus
37	12/19/2018	11912.032	12080.147	60	Marcellus
38	12/20/2018	11712.694	11880.809	60	Marcellus
39	12/20/2018	11513.356	11681.471	60	Marcellus
40	12/21/2018	11314.018	11482.133	60	Marcellus
41	12/21/2018	11114.68	11282.795	60	Marcellus
42	12/23/2018	10915.342	11083.457	60	Marcellus
43	12/23/2018	10716.004	10884.119	60	Marcellus
44	12/23/2018	10516.666	10684.781	60	Marcellus
45	12/26/2018	10317.328	10485.443	60	Marcellus
46	12/27/2018	10117.99	10286.105	60	Marcellus
47	12/27/2018	9918.652	10086.767	60	Marcellus
48	12/27/2018	9719.314	9887.429	60	Marcellus
49	12/28/2018	9519.976	9688.091	60	Marcellus
50	12/29/2018	9320.638	9488.753	60	Marcellus
51	12/29/2018	9121.3	9289.415	60	Marcellus
52	12/29/2018	8921.962	9090.077	60	Marcellus
53	12/30/2018	8722.624	8890.739	60	Marcellus
54	12/31/2018	8523.286	8691.401	60	Marcellus
55	12/31/2018	8323.948	8492.063	60	Marcellus
56	1/1/2019	8124.61	8292.725	60	Marcellus
57	1/1/2019	7925.272	8093.387	60	Marcellus
58	1/2/2019	7725.934	7894.049	60	Marcellus
59	1/2/2019	7526.596	7694.711	60	Marcellus
60	1/2/2019	7327.258	7495.373	60	Marcellus
61	1/2/2019	7127.92	7296.035	60	Marcellus
62	1/3/2019	6928.582	7096.697	60	Marcellus

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	11/30/2018	67.5	7923	6506	3486	150900	5764	N/A
2	11/30/2018	68	8082	6430	4933	397250	8209	N/A
3	12/1/2018	69.5	8235	5937	3949	397750	8235	N/A
4	12/1/2018	64	8102	5662	3529	399200	9460	N/A
5	12/2/2018	68.6	8460	5747	3372	398050	8008	N/A
6	12/2/2018	63.2	8405	5546	3866	399750	8629	N/A
7	12/3/2018	64.5	8177	6510	4079	398500	7960	N/A
8	12/3/2018	61	8463	5946	4066	397950	9135	N/A
9	12/4/2018	63.9	8224	6364	3856	397100	8049	N/A
10	12/4/2018	59.5	8190	6525	4088	401300	8989	N/A
11	12/5/2018	66.1	7687	5888	4200	399300	8037	N/A
12	12/5/2018	63.2	8186	5613	3168	397600	8108	N/A
13	12/6/2018	67	7986	5095	3430	400950	8023	N/A
14	12/7/2018	46.5	7655	5732	3056	397500	11224	N/A
15	12/8/2018	65.6	7639	5744	4597	397000	8157	N/A
16	12/9/2018	68.2	7613	6238	4460	398900	8182	N/A
17	12/9/2018	69.6	7222	5661	4326	399450	8348	N/A
18	12/10/2018	70.7	7469	5971	5392	398150	8205	N/A
19	12/10/2018	77.9	7602	5727	4630	398250	7919	N/A
20	12/10/2018	75.8	7878	6090	4397	398700	7871	N/A
21	12/11/2018	74.2	7830	6160	4028	398750	7733	N/A
22	12/11/2018	73.9	7639	6535	4104	398100	7988	N/A
23	12/12/2018	72.9	7748	6376	4543	398300	7760	N/A
24	12/12/2018	78	8066	6211	3558	398450	7744	N/A
25	12/13/2018	79.7	8006	6651	4675	398350	7853	N/A
26	12/13/2018	76.6	7933	6404	3740	399350	7898	N/A
27	12/13/2018	75.6	7889	6620	3664	398150	7356	N/A
28	12/14/2018	61.9	8185	6392	3977	397150	7503	N/A
29	12/14/2018	76.5	8016	6915	4441	397800	7378	N/A
30	12/15/2018	63.3	8084	6534	3541	398700	8760	N/A
31	12/16/2018	77.7	8018	6645	4071	398800	7351	N/A
32	12/17/2018	75.2	8007	6482	3720	397900	7387	N/A
33	12/17/2018	73.6	7754	6759	3422	398250	7370	N/A
34	12/18/2018	74.4	8047	6553	3961	397100	7255	N/A
35	12/18/2018	75.5	7725	6422	3355	398850	7401	N/A
36	12/19/2018	77.2	7491	5121	3980	397900	7441	N/A
37	12/19/2018	77.8	7503	6687	3510	400250	7705	N/A
38	12/20/2018	79.7	7711	6763	3760	397950	7591	N/A
39	12/20/2018	72.7	7392	6348	5010	398150	10003	N/A
40	12/21/2018	63.4	7940	7111	4055	397500	12748	N/A
41	12/21/2018	77.9	7681	6133	3900	398350	7720	N/A
42	12/23/2018	82	7678	6183	3502	398930	7661	N/A
43	12/23/2018	79.1	7152	5791	4444	334100	7875	N/A
44	12/23/2018	82.4	7713	6449	3581	398150	7816	N/A
45	12/26/2018	78.9	7702	6019	3365	398850	7697	N/A
46	12/27/2018	79.5	7816	6479	3334	397950	7628	N/A
47	12/27/2018	79.6	7584	6548	3624	398350	7850	N/A
48	12/27/2018	82.3	7685	6945	3348	398150	7765	N/A
49	12/28/2018	5.7	79.3	5793	3467	400000	7888	N/A
50	12/29/2018	78.6	7903	7141	3271	399000	7886	N/A
51	12/29/2018	82.1	7580	5610	3166	398700	7695	N/A
52	12/29/2018	80.7	7601	6669	3860	399000	7874	N/A
53	12/30/2018	80.4	7604	6421	3181	401850	7796	N/A
54	12/31/2018	82.6	7421	4734	3216	399200	7844	N/A
55	12/31/2018	82.7	7411	6627	3584	398050	7865	N/A
56	1/1/2019	75.6	7248	5718	4368	438500	10292	N/A
57	1/1/2019	83.3	7535	6359	3279	398500	7792	N/A
58	1/2/2019	83.8	7634	5914	3386	399350	7893	N/A
59	1/2/2019	86.8	7764	6192	2886	398800	7592	N/A
60	1/2/2019	68.7	7744	6790	3131	400000	9033	N/A
61	1/2/2019	82.1	7352	6715	4339	399050	7996	N/A
62	1/3/2019	81.2	7097	6794	2961	399780	7640	N/A
	AVG=	73	7,664	6,236	3,826	24,441,910	501,835	TOTAL

EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
No Data collected	0	445	0	445
Silty Shale	est 445	505	est 445	505
Shaly Siltstone	est 505	685	est 505	685
Sandy Siltstone	est 685	765	est 685	765
Silty Sandstone	est 765	845	est 765	845
Sandy Siltstone	est 845	905	est 845	905
Shaly Sandstone	est 905	945	est 905	945
Sandy Shale	est 945	1,085	est 945	1,085
Shaly sandstone tr coal	est 1,085	1,145	est 1,085	1,145
Shaly Sandstone	est 1,145	1,265	est 1,145	1,265
Silty Shale with intermittend SS	est 1,265	1,625	est 1,265	1,625
Sandstone	est 1,625	1,785	est 1,625	1,785
Sandy Shale	est 1,785	2,104	est 1,785	2,107
Big Lime	2,104	2,973	2,107	2,976
Fifty Foot Sandstone	2,973	3,074	2,976	3,078
Gordon	3,074	3,236	3,078	3,242
Fifth Sandstone	3,236	3,437	3,242	3,446
Bayard	3,437	3,966	3,446	3,979
Speechley	3,966	4,216	3,979	4,232
Balltown	4,216	4,773	4,232	4,795
Bradford	4,773	5,117	4,795	5,142
Benson	5,117	5,370	5,142	5,398
Alexander	5,370	6,313	5,398	6,386
Sycamore	6,313	6,420	6,386	6,526
Middlesex	6,420	6,530	6,526	6,715
Burkett	6,530	6,562	6,715	6,792
Tully	6,562	6,593	6,792	6,885
Marcellus	6,593	NA	6,885	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.

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	11/30/2018
Job End Date:	1/3/2019
State:	West Virginia
County:	Ritchie
API Number:	47-085-10333-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Hex Unit 3H
Latitude:	39.33838100
Longitude:	-80.88451400
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,646
Total Base Water Volume (gal):	21,816,379
Total Base Non Water Volume:	0



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	Supplied by Operator	Base Fluid					
			Water	7732-18-5	70.00000	87.82222	
SaniFrac 8844	CWS	Biocide					
				Listed Below			

					Listed Below				
Items above are Trade Names with the exception of Base Water. Items below are the individual ingredients.									
					Crystalline silica (Quartz)	14808-60-7	100.00000	11.77673	
					Calcite	471-34-1	1.00000	0.08051	
					Hydrochloric acid	7647-01-0	37.00000	0.05842	
					Guar gum	9000-30-0	60.00000	0.05111	
					Distillates (petroleum), hydrotreated middle	64742-46-7	60.00000	0.05111	
					Illite	12173-60-3	1.00000	0.03721	
					Polymer	26100-47-0	45.00000	0.02771	
					Distillates (petroleum), hydrotreated light	64742-47-8	30.00000	0.01847	
					Apatite	64476-38-6	0.10000	0.01177	
					Biotite	1302-27-8	0.10000	0.01177	
					Goethite	1310-14-1	0.10000	0.01177	
					Ammonium chloride	12125-02-9	11.00000	0.00677	
					2-Propenoic acid, homopolymer, sodium salt	9003-04-7	40.00000	0.00603	
					Polyethylene glycol mixture	25322-68-3	54.50000	0.00580	
					Quaternary ammonium compounds, bis (hydrogenated tallow alkyl)dimethyl, salts with bentonite	68953-58-2	5.00000	0.00426	
					Ilmenite	98072-94-7	0.10000	0.00372	
					Sorbitan monooleate	1338-43-8	4.00000	0.00246	
					2,2-Dibromo-3-Nitropropionamide	10222-01-2	20.00000	0.00213	
					Polyethylene glycol monooleate	9004-96-0	3.00000	0.00185	
					Ammonium Persulfate	64742-47-8	100.00000	0.00152	
					1,2-Propanediol	57-55-6	10.00000	0.00151	

					37251-67-5	1.50000	0.00128	
					61723-83-9	2.00000	0.00123	
					61791-26-2	1.00000	0.00062	
					77-92-9	60.00000	0.00051	
					7647-15-6	4.00000	0.00043	
					3252-43-5	3.00000	0.00032	
					84133-50-6	0.50000	0.00031	
					69418-26-4	20.00000	0.00030	
					79-06-1	0.10000	0.00006	
					107-21-1	40.00000	0.00003	
					34590-94-8	20.00000	0.00002	
					64-18-6	10.00000	0.00001	
					67-63-0	5.00000	0.00001	
					104-55-2	10.00000	0.00001	
					72480-70-7	10.00000	0.00001	

* 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%
*** If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

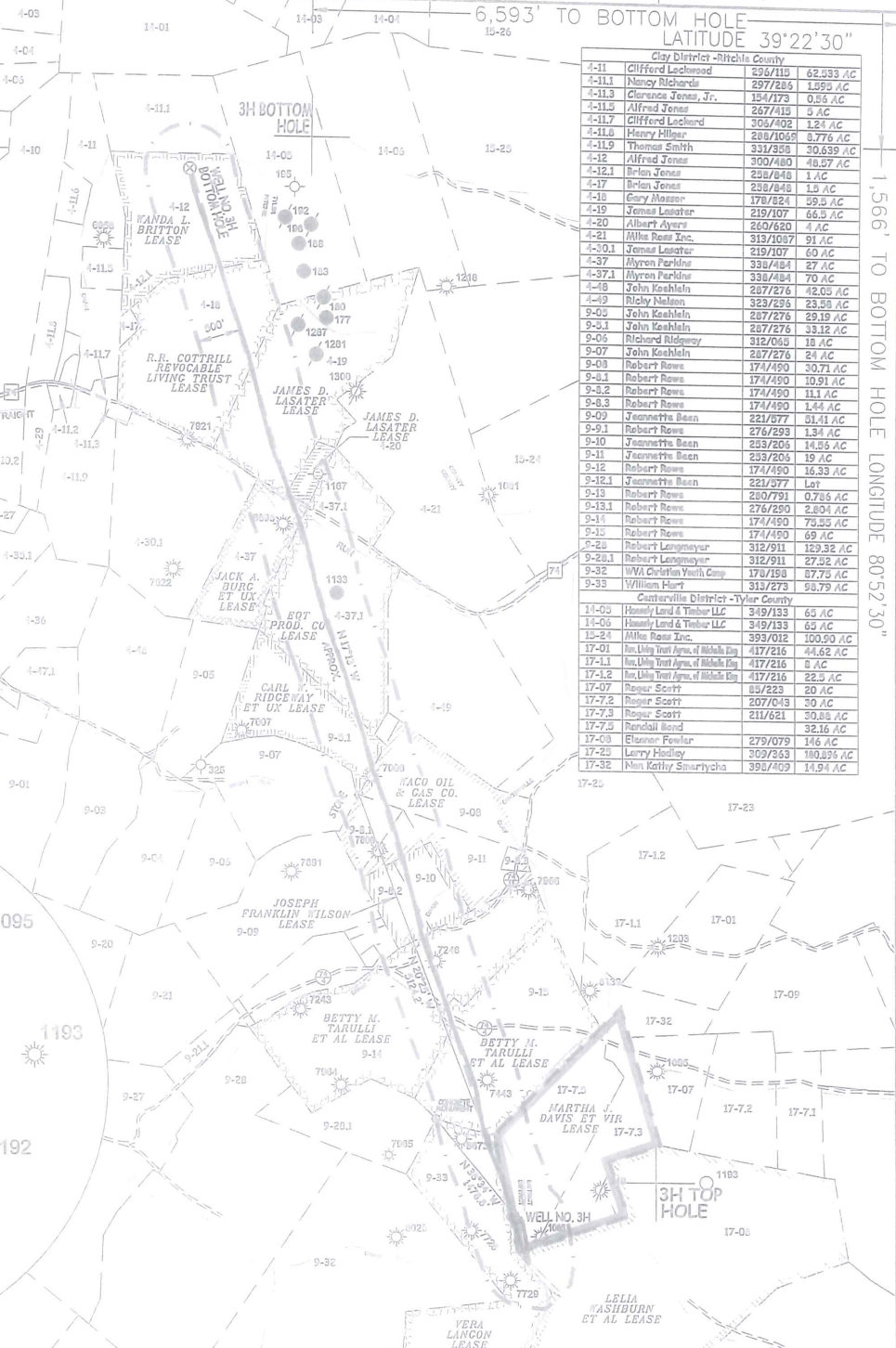
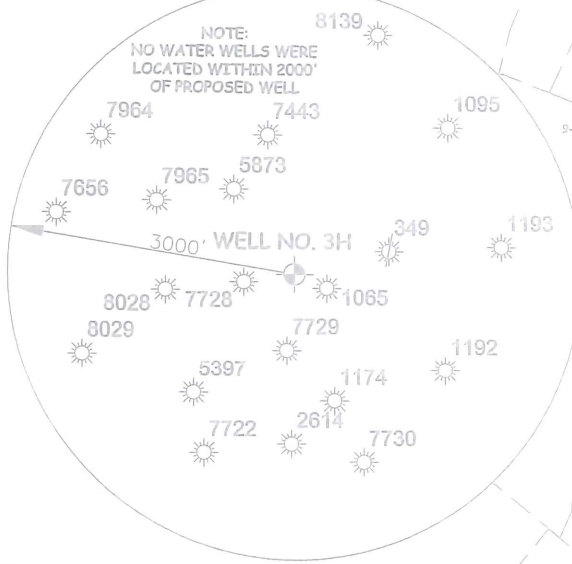
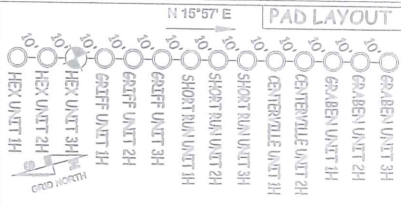
Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

LATITUDE 39°22'30" 2,691'

Antero Resources Corporation
Well No. Hex Unit 3H

NOTES:
WELL 3H TOP HOLE INFORMATION:
N: 308,373ft E: 1,608,417ft
LAT: 39°20'18.17" LON: 80°53'04.25"
BOTTOM HOLE INFORMATION:
N: 320,204ft E: 1,604,695ft
LAT: 39°22'14.53" LON: 80°53'53.96"
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 3H TOP HOLE INFORMATION:
N: 4,354,343m E: 509,967m
BOTTOM HOLE INFORMATION:
N: 4,357,929m E: 508,773m

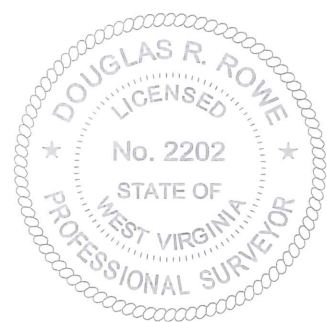


I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WILLOW LAND SURVEYING PLLC
220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

NOTES:
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 # 17-006WA
DRAWING # HEX3H
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

LEGEND
--- Surface Owner Boundary Lines +/-
- - - Interior Surface Tracts +/-
○ Proposed Well Path
● As Drilled Well Path
DR
DOUGLAS R. ROWE P.S. 2202
DATE 06/03/19
OPERATOR'S WELL# HEX UNIT 3H

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ 47 - 085 - 10333
(IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X STATE COUNTY PERMIT
LOCATION: ELEVATION 1,250' AS BUILT WATERSHED NORTH FORK HUGHES RIVER
QUADRANGLE PENNSBORO 7.5' DISTRICT CLAY COUNTY RITCHIE
SURFACE OWNER RADALL BOND ET AL ACREAGE 32.16 ACRES +/-
OIL & GAS ROYALTY OWNER MARTHA J. DAVIS ET VIR; LEILA WASHBURN ET AL; VERA LANGON; BETTY M. TARULLI ET AL; LEASE ACREAGE 70 AC±; 150 AC±; 98.79 AC±; 69 AC±;
BETTY M. TARULLI ET AL; JOSEPH FRANKLIN WILSON; WACO OIL & GAS CO.; CARL W. RIDGEWAY ET UX; EQT PRODUCTION CO.; 76 AC±; 20 AC±; 56 AC±; 33 AC±; 70 AC±;
JACK A. BURG ET UX; JAMES D. LASATER; JAMES D. LASATER; R.R. COTTRILL REVOCABLE LIVING TRUST; WANDA L. BRITTON 27 AC±; 4 AC±; 66.5 AC±; 59.5 AC±; 53.07 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 PLUG & ABANDON CLEAN OUT & REPLUG
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,664' TVD 19,262' MD
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM
ADDRESS 1615 WYNKOOP ST. ADDRESS 5400 D BIG TYLER ROAD
FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

LONGITUDE 80°52'30"

1,566' TO BOTTOM HOLE LONGITUDE 80°52'30"