

reviewed

Judith 7/19/18

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

API 47-017-06629 County Doddridge District West Union
Quad West Union 7.5' Pad Name Yvonne Pad Field/Pool Name -----
Farm name Yvonne Foster Well Number Burlington 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 4355506m Easting 519870m
Landing Point of Curve Northing 4355177.51m Easting 520119.94m
Bottom Hole Northing 4353063m Easting 520996m

Elevation (ft) 1229' 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 Air Gas NGL Oil Other _____
Drilled with Cable Rotary

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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 12/16/2014 Date drilling commenced 6/29/2016 Date drilling ceased 10/29/2016
Date completion activities began 10/10/2017 Date completion activities ceased 12/18/2017
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 225' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1400' 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:

07/20/2018

API 47-017 - 06629 Farm name Yvonne Foster Well number Burlington Unit 1H

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"	65'	New	94#, H-40	N/A	Y
Surface	17-1/2"	13-3/8"	592'	New	48#, H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2529'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	15669'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	7080'		4.7#, P-110		
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	102 sx	15.6	1.18	120	0'	8 Hrs.
Surface	Class A	700 sx	15.6	1.19	833	0'	8 Hrs.
Coal							
Intermediate 1	Class A	977 sx	15.6	1.18	1153	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	690 sx (Lead) 1215 sx (Tail)	13.5 (Lead), 15.2 (Tail)	1.44 (Lead), 1.87 (Tail)	3554	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 15699' MD, 7033' TVD (BHL), 7038' (Deepest Point Drilled) Loggers TD (ft) 15699' MD
 Deepest formation penetrated Marcellus Plug back (ft) N/A

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Kick off depth (ft) 6268'

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Check all wireline logs run caliper density depth gauge dipmeter 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- 017 - 06629

Farm name Yvonne Foster

Well number Burlington Unit 1H

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								

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July 20, 2018

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Please insert additional pages as applicable.

API 47-017-06629 Farm Name Yvonne Foster Well Number Burlington Unit 1H

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	10/10/2017	15399	15565	48	Marcellus
2	11/4/2017	15202	15368	48	Marcellus
3	11/4/2017	15006	15172	48	Marcellus
4	11/5/2017	14809	14975	48	Marcellus
5	11/5/2017	14612	14778	48	Marcellus
6	11/6/2017	14416	14582	48	Marcellus
7	11/6/2017	14219	14385	48	Marcellus
8	11/7/2017	14022	14188	48	Marcellus
9	11/8/2017	13826	13992	48	Marcellus
10	11/8/2017	13629	13795	48	Marcellus
11	11/9/2017	13432	13598	48	Marcellus
12	11/9/2017	13236	13402	48	Marcellus
13	11/9/2017	13039	13205	48	Marcellus
14	11/10/2017	12842	13008	48	Marcellus
15	11/10/2017	12646	12812	48	Marcellus
16	11/10/2017	12449	12615	48	Marcellus
17	11/11/2017	12252	12418	48	Marcellus
18	11/11/2017	12056	12222	48	Marcellus
19	11/12/2017	11859	12025	48	Marcellus
20	11/12/2017	11662	11828	48	Marcellus
21	11/12/2017	11466	11632	48	Marcellus
22	11/13/2017	11269	11435	48	Marcellus
23	11/13/2017	11072	11238	48	Marcellus
24	11/13/2017	10876	11042	48	Marcellus
25	11/14/2017	10679	10845	48	Marcellus
26	11/14/2017	10482	10648	48	Marcellus
27	11/15/2017	10286	10452	48	Marcellus
28	11/15/2017	10089	10255	48	Marcellus
29	11/15/2017	9892	10058	48	Marcellus
30	11/16/2017	9696	9862	48	Marcellus
31	11/16/2017	9499	9665	48	Marcellus
32	11/16/2017	9302	9468	48	Marcellus
33	11/17/2017	9106	9272	48	Marcellus
34	11/17/2017	8909	9075	48	Marcellus
35	11/18/2017	8712	8878	48	Marcellus
36	11/18/2017	8516	8682	48	Marcellus
37	11/18/2017	8319	8485	48	Marcellus
38	11/19/2017	8122	8288	48	Marcellus
39	11/19/2017	7926	8092	48	Marcellus
40	11/20/2017	7729	7895	48	Marcellus
41	11/20/2017	7532	7698	48	Marcellus
42	11/21/2017	7336	7502	48	Marcellus
43	11/21/2017	7139	7305	48	Marcellus

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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	10/10/2017	74.7018	7924.52	5635	3928	499,980	10124	N/A
2	11/4/2017	73.6714	8071.134	6170	5025	502,600	10168.9	N/A
3	11/4/2017	66.7308	7977.273	6115	3577	504,230	10114	N/A
4	11/5/2017	69.4179	8155.648	5454	5259	474,680	12304.81	N/A
5	11/5/2017	53.3143	8568.588	5503	4015	416,220	13160.9	N/A
6	11/6/2017	71.375	7899.475	5527	4029	504,040	10683	N/A
7	11/6/2017	71.4	7725	5957	5569	504,560	11612.02	N/A
8	11/7/2017	68.0772	7684.3	6248	3749	502,770	10109.79	N/A
9	11/8/2017	64.9184	8106.925	6418	3858	502,560	10069.02	N/A
10	11/8/2017	67.8463	8105.82	6198	4596	502,830	11732.74	N/A
11	11/9/2017	74.3076	8057.706	6056	4369	502,780	11120	N/A
12	11/9/2017	71.0253	7898.772	5644	4116	502,430	9984.5	N/A
13	11/9/2017	70.6763	7854.6	5606	4195	502,100	9985.81	N/A
14	11/10/2017	71.6436	7721.342	5856	4443	505,580	10136	N/A
15	11/10/2017	70.5685	7703.361	5558	3767	505,140	9949.905	N/A
16	11/10/2017	75.7199	7335.661	5448	4512	504,420	9987	N/A
17	11/11/2017	71.9615	7905.128	5709	4357	502,940	9842	N/A
18	11/11/2017	69.0809	7565.109	5768	4715	492,540	10925.62	N/A
19	11/12/2017	74.9703	7301.663	5276	5125	515,640	10480	N/A
20	11/12/2017	70.9563	7382.432	5728	4044	504,610	9770.905	N/A
21	11/12/2017	74.548	7305.256	5592	5679	504,780	10051	N/A
22	11/13/2017	72.3775	7356.52	5837	4782	505,140	9751	N/A
23	11/13/2017	76.4854	7428.063	5698	3698	505,480	9780	N/A
24	11/13/2017	74.3457	7255.625	6379	4839	502,750	10262	N/A
25	11/14/2017	76.287	7518.431	6501	3435	504,250	9768	N/A
26	11/14/2017	79.6733	7629.184	5664	5174	503,780	10231	N/A
27	11/15/2017	74.8022	7751.388	5525	5214	503,100	11271	N/A
28	11/15/2017	73.8955	7327.689	6156	5254	505,800	9806	N/A
29	11/15/2017	78.9655	7436.241	5948	3926	503,160	9901	N/A
30	11/16/2017	76.7144	7978.533	5878	4003	504,820	11280	N/A
31	11/16/2017	68.9656	7632.712	6153	3766	503,920	11127	N/A
32	11/16/2017	76.6491	7466.877	5816	4463	503,870	11196	N/A
33	11/17/2017	72.8897	7215.606	5867	5317	505,110	9671	N/A
34	11/17/2017	75.4489	7532.321	6537	5075	504,980	10070	N/A
35	11/18/2017	78.0009	7449.013	6220	4482	504,750	10430	N/A
36	11/18/2017	58.8122	8098.855	6524	4144	470,840	14277	N/A
37	11/18/2017	74.2	6652	5380	5735	502,710	11936	N/A
38	11/19/2017	76.5789	7269.6	5400	5310	503,560	9895	N/A
39	11/19/2017	80.3044	7495.268	5319	5712	502,820	9840	N/A
40	11/20/2017	77.2274	7336.167	4225	5222	504,980	9585	N/A
41	11/20/2017	78.2331	7464.982	6048	4195	507,320	11052.24	N/A
42	11/21/2017	79.3999	7248.461	5530	4473	503,820	9895.143	N/A
43	11/21/2017	76.6657	7438.147	6252	3472	506,470	9752.071	N/A
	AVG=	72.9	7,633	5,821	4,525	21,520,660	453,088	TOTAL

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EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
Fresh Water	225'	N/A	225'	N/A
Siltstone/Sandstone	0	147	0	87
Silty shale	est. 147	205	est. 87	227
Sandstone/Siltstone/Shale	est. 205	327	est. 227	347
Silty shale	est. 327	447	est. 347	565
Siltstone	est. 447	547	est. 565	607
Silty shale	est. 547	607	est. 607	1,127
Shale	est. 607	687	est. 1127	1,387
Silty sandstone	est. 687	727	est. 1387	1,507
Silty shale	est. 727	767	est. 1507	1,727
Sandstone tr coal	est. 767	787	est. 1727	1,767
Sandy shale	est. 787	907	est. 1767	1,807
Silty shale	est. 907	1,147	est. 1807	1,847
Silty sandstone	est. 1147	2,163	est. 1847	2,163
Big Lime	2,163	2,833	2,163	2,833
Fifty Foot Sandstone	2,833	2,914	2,833	2,914
Gordon	2,914	3,185	2,914	3,185
Fifth Sandstone	3,185	3,208	3,185	3,208
Bayard	3,208	3,996	3,208	3,996
Speechley	3,996	4,298	3,996	4,299
Balltown	4,298	4,774	4,299	4,779
Bradford	4,774	5,208	4,779	5,223
Benson	5,208	5,474	5,223	5,496
Alexander	5,474	6,494	5,496	6,535
Sycamore	6,494	6,665	6,535	6,729
Middlesex	6,665	6,801	6,729	6,926
Burkett	6,801	6,831	6,926	6,981
Tully	6,831	6,880	6,981	7,094
Marcellus	6,880	NA	7,094	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 wells unique departure.

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	11/4/2017
Job End Date:	11/21/2017
State:	West Virginia
County:	Doddridge
API Number:	47-017-06629-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Burlington 1H
Latitude:	39.34868056
Longitude:	-80.76956944
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,038
Total Base Water Volume (gal):	19,461,764
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	Antero Resources	Carrier/Base Fluid	Water	7732-18-5	100.00000	88.10438	
Sand	U.S. Well Services, LLC	Proppant	Crystalline Silica, quartz	14808-60-7	100.00000	11.68167	
HCL Acid (12.6%-17.5%)	U.S. Well Services, LLC	Bulk/Acid	Water	7732-18-5	87.40000	0.10277	
			Hydrogen Chloride	7647-01-0	17.50000	0.02389	
LGC-15	U.S. Well Services, LLC	Getting Agents	Guar Gum	9000-30-0	50.00000	0.02195	
			Petroleum Distillates	64742-47-8	60.00000	0.02079	
			Suspending agent (solid)	14808-60-7	3.00000	0.00336	
			Surfactant	68439-51-0	3.00000	0.00132	
WFRA-405	U.S. Well Services, LLC	Friction Reducer	2-Propenoic acid, polymer with 2-propenamide	9003-06-9	30.00000	0.01725	
			Hydrated light distillate (petroleum)	64742-47-8	30.00000	0.01389	

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Bioclear 2000	U.S. Well Services, LLC	Anti-Bacterial Agent				
			2,2-dibromo-3-nitrilopropionamide	10222-01-2	20.00000	0.00423
			Deionized Water	7732-18-5	28.00000	0.00242
SI-1200s	U.S. Well Services, LLC	Scale Inhibitor				
			Proprietary Scale Inhibitor	Proprietary	10.00000	0.00129
AP One	U.S. Well Services, LLC	Gel Breakers				
			Ammonium Persulfate	7727-54-0	100.00000	0.00071
AI-303	U.S. Well Services, LLC	Acid Corrosion Inhibitors				
			Ethylene glycol	107-21-1	40.00000	0.00004
			Cinnamaldehyde	104-55-2	20.00000	0.00001
			Formic acid	64-18-6	20.00000	0.00001
			Butyl cellosolve	111-76-2	20.00000	0.00001
			Polyether	60828-78-6	10.00000	0.00001
			Acetophenone,thiourea,formaldehyde polymer	68527-49-1	5.00000	0.00000

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 fresh water, produced water, and/or 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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STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 DIVISION OF OIL AND GAS
 WELL TYPE: OIL GAS X
 (IF "GAS") PRODUCTION X STORAGE DEEP WASTE DISPOSAL
 LOCATION: ELEVATION 1,229' AS DRILLED WATERSHED HEADWATERS MIDDLE ISLAND
 QUADRANGLE WEST UNION 7.5 DISTRICT W. 11 CC ACREAGE 125.48 ACRES +/-
 SURFACE OWNER YVONNE R. FOSTER
 OIL & GAS ROVALLY OWNER FREEMAN PAUL SMITH ET UX ET AL. BARBARA BLAKE. XTO. JANICE COWAN ET AL.
 EMMA LIPSCOMB ET VIR
 LEASE ACREAGE 125 AC. 31.5 AC. 50 AC. 428.5 AC. 96 AC.

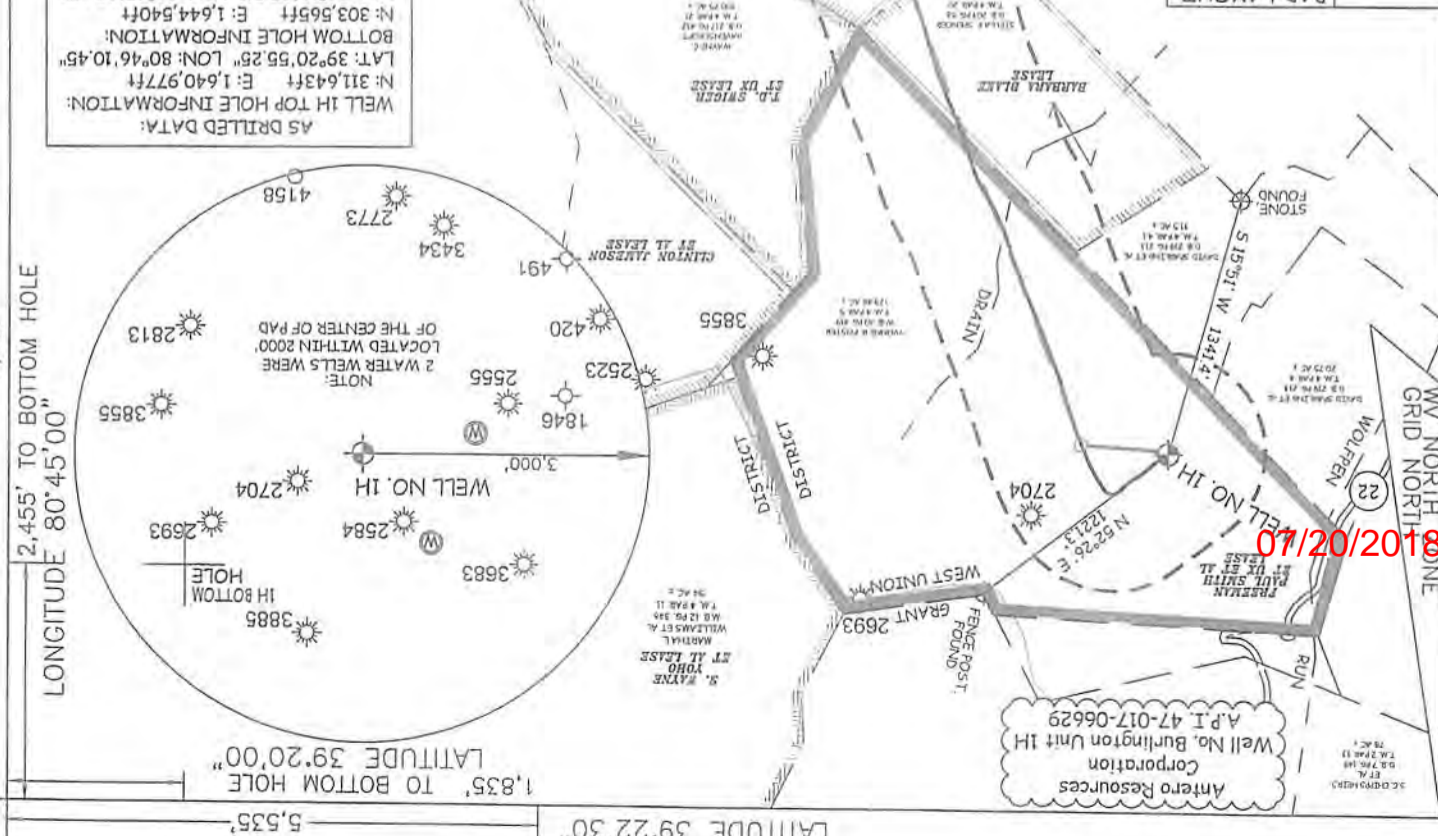
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL OTHER PHYSICAL CHANGE IN WELL
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION
 (SPECIFY) AS DRILLED
 TARGET FORMATION MARCELLUS
 WELL OPERATOR ANTERO RESOURCES CORP.
 DESIGNATED AGENT CI CORPORATION SYSTEM-DIANNA STAMPER
 ADDRESS 1615 WYNKOOP STREET DENVER, CO 80202
 FORM WW-6

NOTE
 1. NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER CATTLE OR OTHER LIVESTOCK 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 SURVEY, 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 RELIABILITY 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.

AP1 WELL # 47-017-06629
 COUNTY PERMIT STATE COUNTY PERMIT
 WEST VIRGINIA 26415
 220 MASONIC AVE. PENNSBORO
 WILLLOW LAND SURVEYING PLLC
 STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION,
 OFFICE OF OIL AND GAS
 STATE OF WEST VIRGINIA

LEGEND
 Surface Owner Boundary Lines +/-
 Interior Surface Tracts +/-
 Proposed Well Path
 As Drilled Well Path
 OPERATOR'S WELL # BURLINGTON UNIT #1H
 DATE 05/01/18
 DOUGLAS R. ROWE P.S. 2202
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 WV Department of Environmental Protection
 JUL 06 2018

JOB # 14-033WA
 DRAWING # BURLINGTON UNIT 1H AD
 SCALE 1" = 100'
 MINIMUM DEGREE OF ACCURACY SUBMETER
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS
 NOT TO SCALE
 PAD LAYOUT
 Brocade Unit 1H
 Brocade Unit 2H
 Manzarek Unit 1H
 Manzarek Unit 2H
 Yoho Unit 1H
 Burlington Unit 1H
 Burlington Unit 2H
 Walker Unit 1H
 Walker Unit 2H



AS DRILLED DATA:
 WELL 1H TOP HOLE INFORMATION: N. 311.643ft E. 1,640.977ft
 LAT: 39°20'55.28" LON: 80°46'10.45"
 BOTTOM HOLE INFORMATION: N. 303.565ft E. 1,644.540ft
 LAT: 39°19'35.91" LON: 80°45'23.67"
 WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIANGLE 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. 4,355.506m E. 519.870m
 BOTTOM HOLE INFORMATION: N. 4,353.063m E. 520.996m

PERMIT COUNTY NAME
 LONGITUDE 80°45'00"
 LONGITUDE 80°45'00"
 2,455' TO BOTTOM HOLE
 1,835' TO BOTTOM HOLE
 5,535' LATITUDE 39°22'30"

8/10/2018
 WV NORTH GRID NORTH
 ANTERO RESOURCES CORPORATION
 Well No. Burlington Unit 1H
 A.P.I. 47-017-06629

LATITUDE 39°22'30"

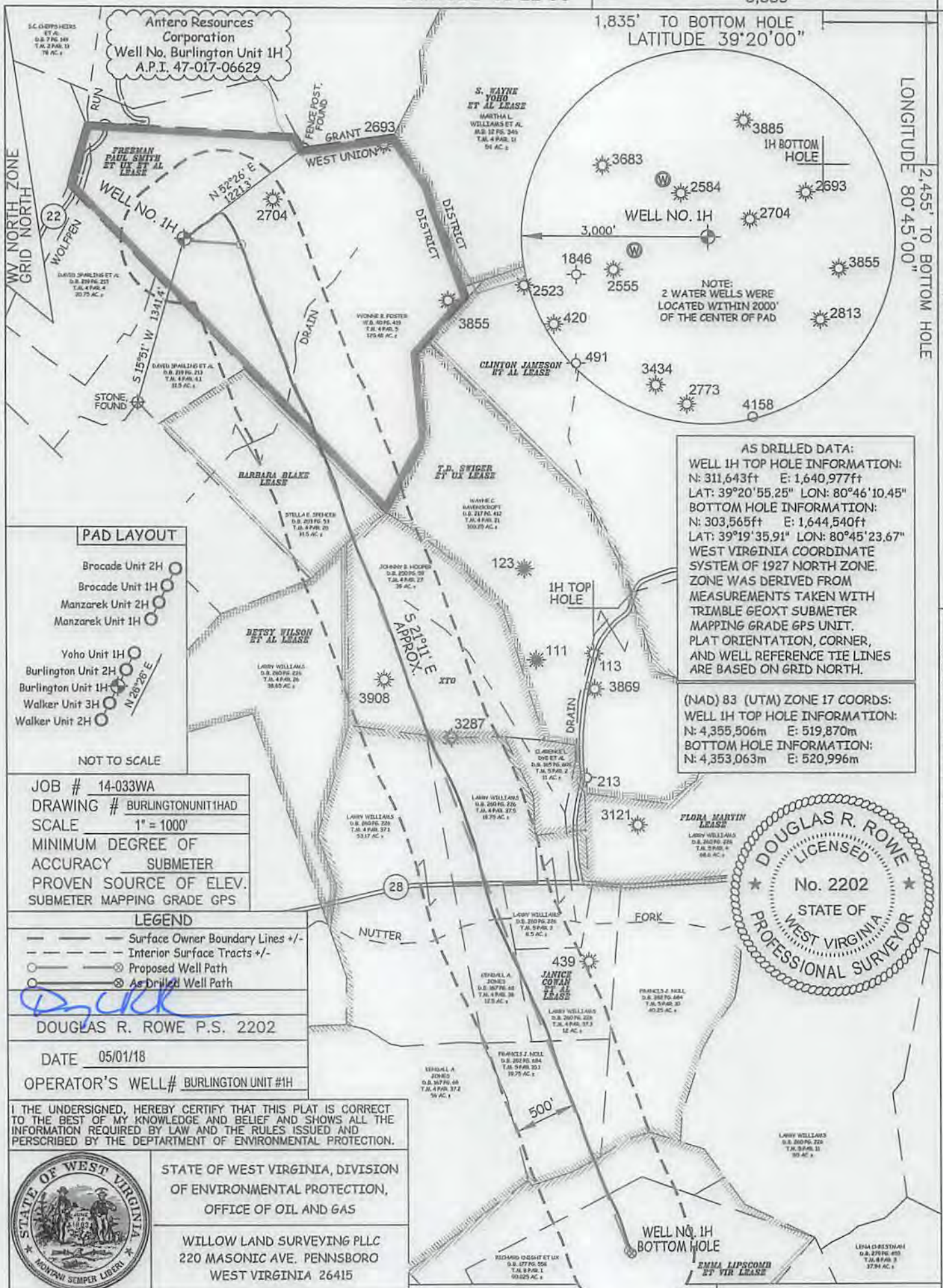
5,535'

1,835' TO BOTTOM HOLE
LATITUDE 39°20'00"

LONGITUDE 80°45'00"

9,587'

LONGITUDE 80°45'00"



Antero Resources Corporation
Well No. Burlington Unit 1H
A.P.I. 47-017-06629

AS DRILLED DATA:
WELL 1H TOP HOLE INFORMATION:
 N: 311,643ft E: 1,640,977ft
 LAT: 39°20'55.25" LON: 80°46'10.45"
BOTTOM HOLE INFORMATION:
 N: 303,565ft E: 1,644,540ft
 LAT: 39°19'35.91" LON: 80°45'23.67"
 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: 4,355,506m E: 519,870m
BOTTOM HOLE INFORMATION:
 N: 4,353,063m E: 520,996m



PAD LAYOUT

- Brocade Unit 2H
- Brocade Unit 1H
- Manzarek Unit 2H
- Manzarek Unit 1H
- Yoho Unit 1H
- Burlington Unit 2H
- Burlington Unit 1H
- Walker Unit 3H
- Walker Unit 2H

NOT TO SCALE

JOB # 14-033WA
 DRAWING # BURLINGTONUNIT1HAD
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY SUBMETER
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

LEGEND

- Surface Owner Boundary Lines +/-
- Interior Surface Tracts +/-
- Proposed Well Path
- As Drilled Well Path

DOUGLAS R. ROWE P.S. 2202
 DATE 05/01/18
 OPERATOR'S WELL# BURLINGTON UNIT #1H

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

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS
 WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1,229' AS DRILLED WATERSHED HEADWATERS MIDDLE ISLAND CREEK
 QUADRANGLE WEST UNION 7.5' DISTRICT WEST UNION COUNTY DODDRIDGE
 SURFACE OWNER YVONNER R. FOSTER ACREAGE 125.48 ACRES +/-
 OIL & GAS ROYALTY OWNER FREEMAN PAUL SMITH ET UX ET AL; BARBARA BLAKE; XTO; JANICE COWAN ET AL
 EMMA LIPSCOMB ET VIR LEASE

- NOTE**
- 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.
 - TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ALLEGHENY SURVEYS, INC.
 - AS DRILLED DATA WAS PROVIDED BY ANTERO RESOURCES CORPORATION.
 - WLS IS NOT CERTIFYING THE DATA AND INFORMATION PROVIDED LISTED IN THIS PLAT.
 - ONLY THE RELATIONSHIP BETWEEN THE DATA AND INFORMATION PROVIDED TO THE LEASE SOURCES.
 - WLS IS BY NO MEANS RESPONSIBLE FOR ANY ERRORS OR INACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.

LEASE ACREAGE 125 AC±; 31.5 AC±; 50 AC±; 428.5 AC±; 96AC±
 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 7,033' TVD 15,699' MD
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT CT CORPORATION SYSTEM-DIANNA STAMPER
 ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD
 FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

COUNTY NAME PERMIT

07/20/2018