

REVIEW
Antero
12/28/18

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

API 47-017-06807 County Doddridge District West Union
Quad West Union 7.5' Pad Name Addie Pad Field/Pool Name -----
Farm name Antero Resources Corporation Well Number Addie Unit 2H
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 4353811m Easting 516765m
Landing Point of Curve Northing 4354059m Easting 517084m
Bottom Hole Northing 4356132m Easting 516267m

Elevation (ft) 891' 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 5/11/2017 Date drilling commenced 7/6/2017 Date drilling ceased 11/22/2017
Date completion activities began 2/10/2018 Date completion activities ceased 7/10/2018
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 370' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1495', 1535' 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
Rev. 8/23/13

API 47-017 - 06807 Farm name Antero Resources Corporation Well number Addie Unit 2H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade w/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"	493'	New	54#, 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"	14749'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6843'		4.7#, P-110		
Packer type and depth set		N/A					

Comment Details Cement Plug 12/6/2017 with 260 sacks @ 7616'

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	440 sx	15.6	1.19	524	0'	8 Hrs.
Coal							
Intermediate 1	Class A	900 sx	15.6	1.18	1062	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	674sx (Lead) 1112sx (Tail)	13.5(Lead), 15.2 (Tail)	1.53 (Lead), 1.83 (Tail)	3066	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 14749' MD, 6460' TVD (BHL), 6492' (Deepest Point Drilled) Loggers TD (ft) 14749' MD

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

Plug back procedure N/A

Kick off depth (ft) 6074'

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

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WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS

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WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED N/A

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Rev. 8/23/13

API 47- 017 - 06807 Farm name Antero Resources Corporation Well number Addie Unit 2H

PRODUCING FORMATION(S)	DEPTHS		
Marcellus	6448' (TOP)	TVD	6886' (TOP) MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 3600 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 14843 mcfpd Oil 104 bpd NGL --- bpd Water 3105 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	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**

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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
Address 381 Colonial Manor Rd City North Huntington State PA Zip 15642

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

Stimulating Company Keane Group
Address 5825 North Sam Houston Parkway West, Suite 600 City Houston State TX Zip 77086

Please insert additional pages as applicable.

Completed by Karin Cox Telephone 303-357-6820
Signature  Title Permitting Agent Date 11/9/2018

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

API 47-017-06807 Farm Name Antero Resources Corp Well Number Addie Unit 2H					
EXHIBIT 1					
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	2/10/2018	14479	14647	48	Marcellus
2	2/25/2018	14280	14448	48	Marcellus
3	2/26/2018	14081	14249	48	Marcellus
4	2/26/2018	13881	14049	48	Marcellus
5	2/27/2018	13682	13850	48	Marcellus
6	2/28/2018	13483	13651	48	Marcellus
7	2/28/2018	13284	13452	48	Marcellus
8	3/1/2018	13084	13252	48	Marcellus
9	3/1/2018	12885	13053	48	Marcellus
10	3/2/2018	12686	12854	48	Marcellus
11	3/2/2018	12486	12654	48	Marcellus
12	3/3/2018	12287	12455	48	Marcellus
13	3/3/2018	12088	12256	48	Marcellus
14	3/3/2018	11889	12057	48	Marcellus
15	3/4/2018	11689	11857	48	Marcellus
16	3/5/2018	11490	11658	48	Marcellus
17	3/6/2018	11291	11459	48	Marcellus
18	4/16/2018	11091	11259	48	Marcellus
19	4/17/2018	10892	11060	48	Marcellus
20	4/17/2018	10693	10861	48	Marcellus
21	4/18/2018	10494	10662	48	Marcellus
22	4/18/2018	10294	10462	48	Marcellus
23	4/18/2018	10095	10263	48	Marcellus
24	4/19/2018	9896	10064	48	Marcellus
25	4/19/2018	9696	9864	48	Marcellus
26	4/20/2018	9497	9665	48	Marcellus
27	4/20/2018	9298	9466	48	Marcellus
28	4/21/2018	9099	9267	48	Marcellus
29	4/21/2018	8899	9067	48	Marcellus
30	4/21/2018	8700	8868	48	Marcellus
31	4/22/2018	8501	8669	48	Marcellus
32	4/22/2018	8301	8469	48	Marcellus
33	4/22/2018	8102	8270	48	Marcellus
34	4/23/2018	7903	8071	48	Marcellus
35	4/23/2018	7704	7872	48	Marcellus
36	4/24/2018	7504	7672	48	Marcellus
37	4/24/2018	7305	7473	48	Marcellus
38	4/25/2018	7106	7274	48	Marcellus
39	4/25/2018	6906	7075	48	Marcellus

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API 47-017-06807 Farm Name Antero Resources Corp Well Number Addie Unit 2H

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	2/10/2018	73.6	7463	5440	4636	465263	11931	N/A
2	2/25/2018	71.7	7542	5658	3531	464411	10366	N/A
3	2/26/2018	70.6	7220	5597	4263	460660	10339	N/A
4	2/26/2018	71.2	7577	5381	3839	505590	10382	N/A
5	2/27/2018	72.6	7436	5779	4012	504000	10354	N/A
6	2/28/2018	79.6	7667	5224	3711	482452	10122	N/A
7	2/28/2018	78.8	7224	4852	3935	504350	10452	N/A
8	3/1/2018	75.5	7342	5118	3900	504343	10715	N/A
9	3/1/2018	76.5	7885	5449	3632	504600	10328	N/A
10	3/2/2018	76.9	7224	5529	4903	504500	10219	N/A
11	3/2/2018	78	7457	6108	5396	506180	10221	N/A
12	3/3/2018	73.6	6927	5367	5058	505700	10178	N/A
13	3/3/2018	78.9	7620	5588	5173	506580	10137	N/A
14	3/3/2018	73.5	7385	5414	4749	504300	11552	N/A
15	3/4/2018	78.4	7245	5412	5206	505900	10178	N/A
16	3/5/2018	75.7	7037	4069	5174	505000	10176	N/A
17	3/6/2018	79.9	7331	5431	5356	507000	10061	N/A
18	4/16/2018	78.9	7202	5109	5112	504750	10106	N/A
19	4/17/2018	77.1	7020	5879	4667	504350	10151	N/A
20	4/17/2018	76.5	7163	5858	5241	504000	10159	N/A
21	4/18/2018	78.9	7186	7873	5200	494200	10222	N/A
22	4/18/2018	79.3	7021	5691	4911	504725	10121	N/A
23	4/18/2018	77.7	7162	5650	4877	509000	10136	N/A
24	4/19/2018	77.9	6927	5104	4911	511306	10118	N/A
25	4/19/2018	79.5	7023	5356	5089	511420	10961	N/A
26	4/20/2018	79.4	6939	5528	5378	504402	11321	N/A
27	4/20/2018	79.3	6818	5679	5040	506000	10158	N/A
28	4/21/2018	80.8	7177	5505	4798	496000	10120	N/A
29	4/21/2018	80	6846	5907	4889	507694	10034	N/A
30	4/21/2018	79	6806	5594	5120	506000	10105	N/A
31	4/22/2018	80.7	6927	5311	5248	510085	10152	N/A
32	4/22/2018	80	6793	5904	5090	522354	10036	N/A
33	4/22/2018	76.8	6565	5608	5158	505000	12803	N/A
34	4/23/2018	80.4	6501	5724	4144	504350	10014	N/A
35	4/23/2018	80.2	6714	5783	5069	504000	10049	N/A
36	4/24/2018	80.6	6607	5701	4279	504646	9975	N/A
37	4/24/2018	78.5	6663	5626	4116	504000	10062	N/A
38	4/25/2018	78.8	6783	5438	4583	504660	11423	N/A
39	4/25/2018	78.9	6496	6206	4274	505150	10112	N/A
	AVG=	78	7,101	5,576	4,709	19,568,921	406,049	TOTAL

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API 47-017-06807 Farm Name Antero Resources Corp Well Number Addie Unit 2H				
EXHIBIT 3				
LITHOLOGY/ FORMATION	TOP DEPTH (TVD) From Surface	BOTTOM DEPTH (TVD) From Surface	TOP DEPTH (MD) From Surface	BOTTOM DEPTH (MD) From Surface
Shale	0	197	0	197
Sandy shale	197	357	197	357
Sandstone	357	417	357	417
Sandstone tr coal	417	437	417	437
Sandy shale	437	537	437	537
Shale	537	737	537	737
Silty sandstone	737	817	737	817
Silty shale	817	997	817	997
Sandstone	997	1,017	997	1,017
Silty shale	1,017	1,277	1,017	1,277
Sandstone	1,277	1,417	1,277	1,417
Sandy shale	1,417	1,677	1,417	1,677
Silty shale	1,677	1,733	1,677	1,737
Big Lime	1,733	2,279	1,737	2,283
Fifty Foot Sandstone	2,279	2,492	2,283	2,496
Gordon	2,492	2,712	2,496	2,716
Fifth Sandstone	2,712	2,772	2,716	2,776
Bayard	2,772	3,554	2,776	3,588
Speechley	3,554	3,751	3,588	3,799
Balltown	3,751	4,352	3,799	4,446
Bradford	4,352	4,794	4,446	4,924
Benson	4,794	5,088	4,924	5,240
Alexander	5,088	6,043	5,240	6,263
Sycamore	6,043	6,222	6,263	6,481
Middlesex	6,222	6,353	6,481	6,687
Burkett	6,353	6,380	6,687	6,745
Tully	6,380	6,423	6,745	6,861
Marcellus	6,423	NA	6,861	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:	2/24/2018
Job End Date:	4/25/2018
State:	West Virginia
County:	Doddridge
API Number:	47-017-06807-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Addie 2H
Latitude:	39.33348000
Longitude:	-80.80564000
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,491
Total Base Water Volume (gal):	17,437,560
Total Base Non Water Volume:	0



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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	Ascent	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	87.91995	None
Sand (Proppant)	Keane	Proppant					
			Crystalline silica: Quartz (SiO2)	14808-60-7	100.00000	11.83792	None
KFR-16FW	Keane	Friction Reducer					
			Water	7732-18-5	60.00000	0.03381	None
			Distillates (petroleum), hydrotreated light	64742-47-8	20.00000	0.01127	None
			oleic acid diethanolamide	93-83-4	1.50000	0.00085	None
			ammonium chloride	12125-02-9	1.50000	0.00085	None
KWG-111LS	Keane	Gel					
			alcohols, C12-16, ethoxylated	68551-12-2	1.00000	0.00056	None
			Distillates (petroleum), hydrotreated light	64742-47-8	55.00000	0.01573	None
			Guar gum	9000-30-0	55.00000	0.01573	None
Hydrochloric Acid (15%)	Keane	Acidizing					
			Hydrochloric Acid	7647-01-0	15.00000	0.01993	None
MBC-516W	Keane	Biocide					

			Water	7732-18-5	56.70000	0.00513	None
			Glutaral	111-30-8	26.70000	0.00241	None
			didecyldimethylammonium chloride	7173-51-5	8.00000	0.00072	None
			quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	5.30000	0.00048	None
			ethonal	64-17-5	2.80000	0.00025	None
KSI-19	Keane	Scale Inhibitor					
			Methanol	67-56-1	30.00000	0.00416	None
KWBO-2	Keane	Breaker					
			Sodium persulfate	7775-27-1	99.00000	0.00061	None
KAI-12	Keane	Acid Inhibitor					
			Ethylene glycol	107-21-1	40.00000	0.00008	None
			dipropylene glycol, monomethyl ether	34590-94-8	20.00000	0.00004	None
			Cinnamaldehyde	104-55-2	10.00000	0.00002	None
			formic acid	64-18-6	10.00000	0.00002	None
			Ethoxylated alcohol	68131-39-5	10.00000	0.00002	None
			Tar bases, quinoline derivs., benzyl chloride-quaternized	72480-70-7	10.00000	0.00002	None
			isopropyl alcohol	67-63-0	5.00000	0.00001	None
KFEAC-30	Keane	Iron Control					
			Citric acid	77-92-9	30.00000	0.00017	None
			Acetic acid	64-19-7	5.00000	0.00003	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.

Other Chemical(s)	Listed Above	See Trade Name(s) List					
			Distillates (petroleum), hydrotreated light	64742-47-8	55.00000	0.01573	
			Distillates (petroleum), hydrotreated light	64742-47-8	20.00000	0.01127	
			Glutaral	111-30-8	26.70000	0.00241	
			ammonium chloride	12125-02-9	1.50000	0.00085	
			oleic acid diethanolamide	93-83-4	1.50000	0.00085	
			didecyldimethylammonium chloride	7173-51-5	8.00000	0.00072	
			alcohols, C12-16, ethoxylated	68551-12-2	1.00000	0.00056	
			quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	5.30000	0.00048	
			ethonal	64-17-5	2.80000	0.00025	
			Citric acid	77-92-9	30.00000	0.00017	
			dipropylene glycol, monomethyl ether	34590-94-8	20.00000	0.00004	
			Tar bases, quinoline derivs., benzyl chloride-quaternized	72480-70-7	10.00000	0.00002	
			formic acid	64-18-6	10.00000	0.00002	
			Ethoxylated alcohol	68131-39-5	10.00000	0.00002	
			Cinnamaldehyde	104-55-2	10.00000	0.00002	

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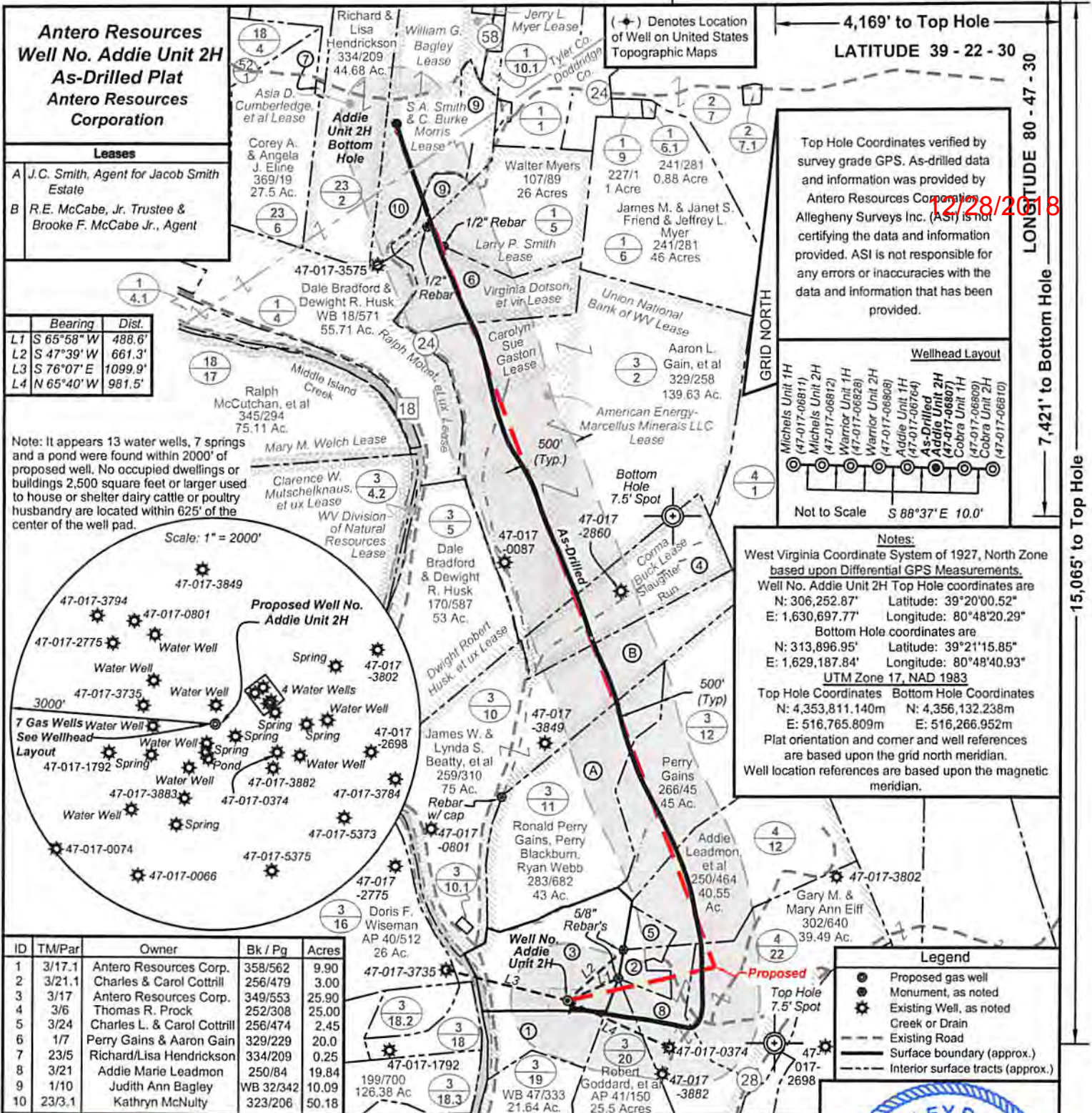
* Total Water Volume sources may include fresh water, produced water, and/or recycled water
 ** Information is based on the maximum potential for concentration and thus the total may be over 100%

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)

		isopropyl alcohol	57-83-0	5.00000	0.00001
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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 rules issued and prescribed by the Department of Environmental Protection.

Bradley D. Miller

Bradley D. Miller, P.S. 2167



FILE NO: 55-30-WU-15
DRAWING NO: Addie 2H Well Plat As-Drilled
SCALE: 1" = 1200'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

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

DATE: June 7 20 18
OPERATOR'S WELL NO. Addie Unit 2H
API WELL NO
47 - 017 - 06807
STATE COUNTY PERMIT

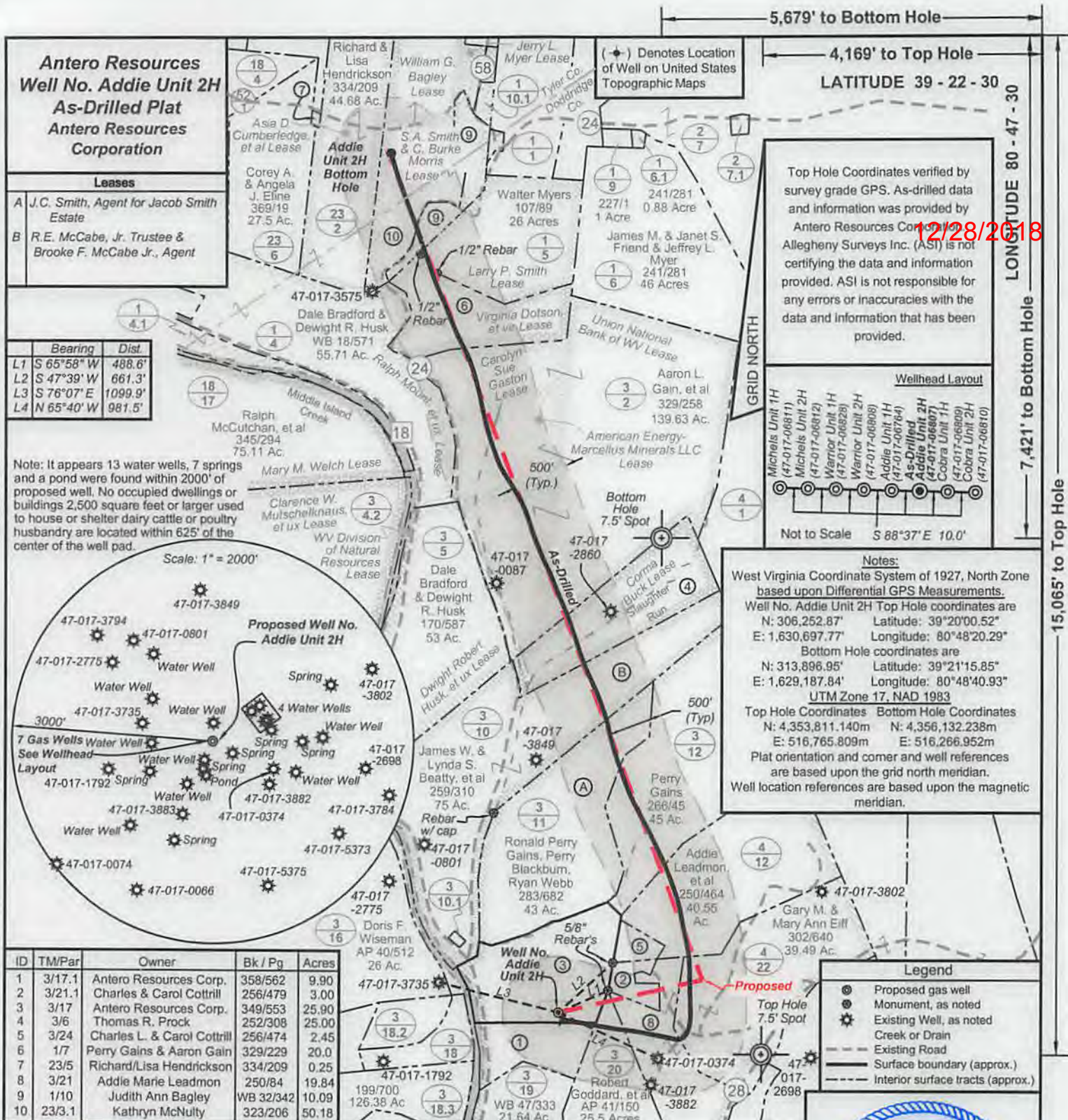
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: 891' As-Drilled WATERSHED: Headwaters Middle Island Creek QUADRANGLE: West Union
DISTRICT: West Union LARRY P. SMITH; S.A. SMITH & C. BURKE MORRIS
VIRGINIA SUE GASTON
SURFACE OWNER: Antero Resources Corp. J. C. SMITH, AGENT FOR JACOB SMITH ESTATE; UNION NATIONAL BANK OF WV
Dwight Robert Husk, et ux; American Energy-Marcellus Minerals LLC
ROYALTY OWNER: R. E. McCabe, Jr. Trustee & Brooke F. McCabe, Jr, Agent; Corma Buck LEASE NO: ACREAGE: 290; 75; 20; 28.1
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 6,460' TVD
14,749' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road
Denver, CO 80202 Charleston, WV 25313

12/28/2018





Antero Resources
Well No. Addie Unit 2H
As-Drilled Plat
Antero Resources
Corporation

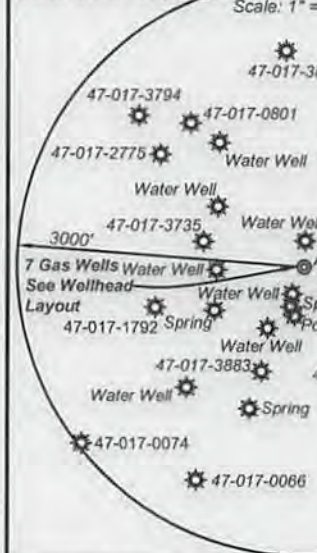
Leases

A J.C. Smith, Agent for Jacob Smith Estate

B R.E. McCabe, Jr. Trustee & Brooke F. McCabe Jr., Agent

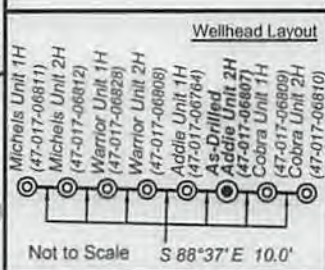
Bearing	Dist.
L1 S 65°58' W	488.6'
L2 S 47°39' W	661.3'
L3 S 76°07' E	1099.9'
L4 N 65°40' W	981.5'

Note: It appears 13 water wells, 7 springs and a pond were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.



ID	TM/Par	Owner	Bk / Pg	Acres
1	3/17.1	Antero Resources Corp.	358/562	9.90
2	3/21.1	Charles & Carol Coltrill	256/479	3.00
3	3/17	Antero Resources Corp.	349/553	25.90
4	3/6	Thomas R. Prock	252/308	25.00
5	3/24	Charles L. & Carol Coltrill	256/474	2.45
6	1/7	Perry Gains & Aaron Gain	329/229	20.0
7	23/5	Richard/Lisa Hendrickson	334/209	0.25
8	3/21	Addie Marie Leadmon	250/84	19.84
9	1/10	Judith Ann Bagley	WB 32/342	10.09
10	23/3.1	Kathryn McNulty	323/206	50.18

Top Hole Coordinates verified by survey grade GPS. As-drilled data and information was provided by Antero Resources Corporation. Allegheny Surveys Inc. (ASI) is not certifying the data and information provided. ASI is not responsible for any errors or inaccuracies with the data and information that has been provided.



Notes:
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Addie Unit 2H Top Hole coordinates are
 N: 306,252.87' Latitude: 39°20'00.52"
 E: 1,630,697.77' Longitude: 80°48'20.29"
 Bottom Hole coordinates are
 N: 313,896.95' Latitude: 39°21'15.85"
 E: 1,629,187.84' Longitude: 80°48'40.93"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,353,811.140m N: 4,356,132.238m
 E: 516,765.809m E: 516,266.952m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

Legend

- Proposed gas well
- Monument, as noted
- Existing Well, as noted
- Creek or Drain
- Existing Road
- Surface boundary (approx.)
- Interior surface tracts (approx.)

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.

Bradley D. Miller
 Bradley D. Miller, P.S. 2167

FILE NO: 55-30-WU-15
 DRAWING NO: Addie 2H Well Plat As-Drilled
 SCALE: 1" = 1200'
 MINIMUM DEGREE OF ACCURACY: Submeter
 PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

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

DATE: June 7, 2018
 OPERATOR'S WELL NO. Addie Unit 2H
 API WELL NO
 47 - 017 - 06807
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: 891' As-Drilled WATERSHED: Headwaters Middle Island Creek QUADRANGLE: West Union
 DISTRICT: West Union LARRY P. SMITH; S.A. SMITH & C. BURKE MORRIS VIRGINIA DOTSON, ET VIR; CAROLYN SUE GASTON
 SURFACE OWNER: Antero Resources Corp. J. C. SMITH, AGENT FOR JACOB SMITH ESTATE; UNION NATIONAL BANK OF WV ACREAGE: 29.57; 79
 ROYALTY OWNER: R. E. McCabe, Jr. Trustee & Brooke F. McCabe, Jr. Agent; COMA BUCK LEASE NO: ACREAGE: 290; 75; 20; 28.1
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 6,460' TVD 14,749' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
 ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road
 Denver, CO 80202 Charleston, WV 25313

