

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 - 017 - 06839 County Doddridge District West Union
 Quad West Union 7.5' Pad Name Strickling Pad Field/Pool Name -----
 Farm name John Paul Strickling, et al Well Number Jimmy 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 4353670.653m Easting 518642.994m
 Landing Point of Curve Northing 4353649.85m Easting 518943.60m
 Bottom Hole Northing 4351296.948m Easting 519915.881m

Elevation (ft) 1065' 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 7/13/2017 Date drilling commenced 9/5/2017 Date drilling ceased 4/24/2018
 Date completion activities began 8/29/2018 Date completion activities ceased 9/27/2018
 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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API 47- 017 - 06839 Farm name John Paul Strickling, et al Well number Jimmy 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"	357'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2605'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	15925'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6890'		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	284 sx	15.6	1.18	335	0'	8 Hrs.
Surface	Class A	330 sx	15.6	1.2	396	0'	8 Hrs.
Coal							
Intermediate 1	Class A	906 sx	15.6	1.18	1069	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	744sx (Lead) 1442 sx (Tail)	14(Lead), 15.2 (Tail)	1.45 (Lead), 1.83 (Tail)	3718	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 15925' MD, 6773' TVD (BHL), 6799' (Deepest Point Drilled) Loggers TD (ft) 15925' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6136'

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- 017 - 06839 Farm name John Paul Strickling, et al Well number Jimmy 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.

WR-35
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PRODUCING FORMATION(S)	DEPTHS	
Marcellus	6681' (TOP) TVD	6945' (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 10090.65 mcfpd Oil 110.39 bpd NGL --- bpd Water 506.63 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**

Please insert additional pages as applicable.


Drilling Contractor Frontier Drilling 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 15301

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

Stimulating Company US Well Services
Address 533 Industrial Park Road City Lane Jew State WV Zip 26378

Please insert additional pages as applicable.

Completed by Karin Cox Telephone 303-357-6820
Signature  Title Permitting Agent Date 2/1/2019

API 47-017-06839 Farm Name John Paul Strickling, et al Well Number Jimmy Unit 3H					
EXHIBIT 1					
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	8/29/2018	15776.2	15831	48	Marcellus
2	8/30/2018	15576.52	15744.92	48	Marcellus
3	8/30/2018	15376.84	15545.24	48	Marcellus
4	8/31/2018	15177.16	15345.56	48	Marcellus
5	8/31/2018	14977.48	15145.88	48	Marcellus
6	9/1/2018	14777.8	14946.2	48	Marcellus
7	9/1/2018	14578.12	14746.52	48	Marcellus
8	9/1/2018	14378.44	14546.84	48	Marcellus
9	9/2/2018	14178.76	14347.16	48	Marcellus
10	9/2/2018	13979.08	14147.48	48	Marcellus
11	9/3/2018	13779.4	13947.8	48	Marcellus
12	9/3/2018	13579.72	13748.12	48	Marcellus
13	9/4/2018	13380.04	13548.44	48	Marcellus
14	9/4/2018	13180.36	13348.76	48	Marcellus
15	9/4/2018	12980.68	13149.08	48	Marcellus
16	9/5/2018	12781	12949.4	48	Marcellus
17	9/5/2018	12581.32	12749.72	48	Marcellus
18	9/6/2018	12381.64	12550.04	48	Marcellus
19	9/6/2018	12181.96	12350.36	48	Marcellus
20	9/7/2018	11982.28	12150.68	48	Marcellus
21	9/7/2018	11782.6	11951	48	Marcellus
22	9/8/2018	11582.92	11751.32	48	Marcellus
23	9/8/2018	11383.24	11551.64	48	Marcellus
24	9/8/2018	11183.56	11351.96	48	Marcellus
25	9/9/2018	10983.88	11152.28	48	Marcellus
26	9/9/2018	10784.2	10952.6	48	Marcellus
27	9/10/2018	10584.52	10752.92	48	Marcellus
28	9/10/2018	10384.84	10553.24	48	Marcellus
29	9/11/2018	10185.16	10353.56	48	Marcellus
30	9/12/2018	9985.48	10153.88	48	Marcellus
31	9/12/2018	9785.8	9954.2	48	Marcellus
32	9/12/2018	9586.12	9754.52	48	Marcellus
33	9/13/2018	9386.44	9554.84	48	Marcellus
34	9/13/2018	9186.76	9355.16	48	Marcellus
35	9/13/2018	8987.08	9155.48	48	Marcellus
36	9/14/2018	8787.4	8955.8	48	Marcellus
37	9/14/2018	8587.72	8756.12	48	Marcellus
38	9/15/2018	8388.04	8556.44	48	Marcellus
39	9/15/2018	8188.36	8356.76	48	Marcellus
40	9/16/2018	7988.68	8157.08	48	Marcellus
41	9/16/2018	7789	7957.4	48	Marcellus
42	9/16/2018	7589.32	7757.72	48	Marcellus
43	9/17/2018	7389.64	7558.04	48	Marcellus
44	9/18/2018	7189.96	7358.36	48	Marcellus
45	9/18/2018	6990.28	7158.68	48	Marcellus

API 47-017-06839 Farm Name John Paul Strickling, et al Well Number Jimmy Unit 3H								
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	8/29/2018	76.9077	8134.213	8480	4050	258480	7310	N/A
2	8/30/2018	76.7534	7771.584	5696	4183	399600	8083	N/A
3	8/30/2018	78.4892	7984.835	5862	4466	399260	7886	N/A
4	8/31/2018	79.5498	8212.256	5774	3829	400600	7760	N/A
5	8/31/2018	78.3589	8142.454	5910	4240	400000	7847	N/A
6	9/1/2018	79.6979	8073.564	5712	3861	398820	7745	N/A
7	9/1/2018	79.0515	7811.245	5612	3701	397600	7798	N/A
8	9/1/2018	79.2547	7828.475	5901	4180	400310	7720	N/A
9	9/2/2018	78.9319	8053.262	5790	3595	398100	7788	N/A
10	9/2/2018	75.8055	7845.178	5709	4113	401200	7742	N/A
11	9/3/2018	79.6876	7992.261	5802	3819	400150	7742	N/A
12	9/3/2018	78.5276	7974.9	5897	3607	399360	7823	N/A
13	9/4/2018	78.0548	7941.452	6531	3988	399200	7686	N/A
14	9/4/2018	78.7888	7998.654	6121	3876	398970	7659	N/A
15	9/4/2018	79.7927	8182.238	5969	4087	400250	7646	N/A
16	9/5/2018	80.0577	7847.005	5738	3858	400380	7692	N/A
17	9/5/2018	78.7369	7616.773	6127	3578	399350	7442	N/A
18	9/6/2018	79.2603	7661.869	5812	3946	400900	7638	N/A
19	9/6/2018	74.6916	7531.373	5789	3678	399200	7622	N/A
20	9/7/2018	78.209	7746.886	5701	3979	399400	7610	N/A
21	9/7/2018	77.196	7187.357	5877	3425	399775	7787	N/A
22	9/8/2018	75.948	7294.25	6030	3844	397760	7663	N/A
23	9/8/2018	79.3025	7652.431	6035	3741	399850	7609	N/A
24	9/8/2018	76.5594	7407.328	5788	4060	401080	7600	N/A
25	9/9/2018	74.5348	7288.147	6098	4076	401590	8361	N/A
26	9/9/2018	79.3233	7519.778	5980	3943	400080	7448	N/A
27	9/10/2018	79.165	7706.127	5586	3904	400110	7593	N/A
28	9/10/2018	79.3534	7485.949	5932	3577	400300	7500	N/A
29	9/11/2018	77.7298	7559.566	6172	4618	399000	10297	N/A
30	9/12/2018	80.1039	7205.159	5582	4081	401300	7492	N/A
31	9/12/2018	80.1162	7081.477	5824	3679	399550	7621	N/A
32	9/12/2018	79.9206	7303.453	5823	4585	400400	7564	N/A
33	9/13/2018	79.3105	7182.842	5866	3821	398250	7564	N/A
34	9/13/2018	78.944	7140.031	5634	4061	399310	7739	N/A
35	9/13/2018	79.6212	7152.288	6409	4059	398100	7556	N/A
36	9/14/2018	80.0091	7317.058	5784	4372	401250	7579	N/A
37	9/14/2018	79.6484	7276.445	6103	3789	398700	7441	N/A
38	9/15/2018	79.6271	7293.685	5983	3754	399850	7486	N/A
39	9/15/2018	77.3491	7540.432	5881	3708	399950	7552	N/A
40	9/16/2018	77.6824	7168.518	5627	3617	398600	7568	N/A
41	9/16/2018	78.7	7455	5825	3830	400700	8754	N/A
42	9/16/2018	79.7768	7477.776	5771	3770	401300	7609	N/A
43	9/17/2018	80.2285	7258.367	6337	3742	398400	7496	N/A
44	9/18/2018	78.76	7286.777	6043	4116	402120	7503	N/A
45	9/18/2018	80.5017	6990.165	6061	4023	400700	7410	N/A
	AVG=	79	7,591	5,955	3,930	17,849,155	348,031	TOTAL

API 47-017-06839 Farm Name John Paul Strickling, et al Well Number Jimmy Unit 3H				
EXHIBIT 3				
LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
Sandstone	0	187	0	187
Sandstone tr coal	est 187	267	est 187	267
Sandy shale	est 267	807	est 267	807
Calcareous Shale	est 807	1,187	est 807	1,187
Shale tr coal	est 1187	1,207	est 1187	1,207
Sandy Shale	est 1207	1,527	est 1207	1,527
Sandstone	est 1527	1,567	est 1527	1,567
Silty shale	est 1567	1,667	est 1567	1,667
Sandstone	est 1667	1,787	est 1667	1,787
Sandy shale	est 1787	1,955	est 1787	1,977
Big Lime	1,955	2,530	1,977	2,561
Fifty Foot Sandstone	2,530	2,718	2,561	2,752
Gordon	2,718	2,927	2,752	2,965
Fifth Sandstone	2,927	2,987	2,965	3,026
Bayard	2,987	3,809	3,026	3,864
Speechley	3,809	4,086	3,864	4,147
Balltown	4,086	4,587	4,147	4,658
Bradford	4,587	5,021	4,658	5,101
Benson	5,021	5,291	5,101	5,375
Alexander	5,291	6,288	5,375	6,415
Sycamore	6,288	6,463	6,415	6,617
Middlesex	6,463	6,599	6,617	6,791
Burkett	6,599	6,633	6,791	5,847
Tully	6,633	6,681	5,847	6,945
Marcellus	6,681	N/A	6,945	N/A

*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:	8/29/2018
Job End Date:	9/17/2018
State:	West Virginia
County:	Doddridge
API Number:	47-017-06839-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Jimmy 3H
Latitude:	39.33217200
Longitude:	-80.78386100
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,799
Total Base Water Volume (gal):	15,080,062
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	87.38406	
Sand	U.S. Well Services, LLC	Proppant					
HCL Acid (12.6%-17.5%)	U.S. Well Services, LLC	Bulk Acid	Crystalline Silica, quartz	14808-60-7	100.00000	12.40168	
WFRA-405	U.S. Well Services, LLC	Friction Reducer	Water Hydrogen Chloride	7732-18-5 7647-01-0	87.40000 17.50000	0.13534 0.03147	
LGC-15	U.S. Well Services, LLC	Gelling Agents	2-Propenoic acid, polymer with 2-propenamide Hydrated light distillate (petroleum)	29003-06-9 64742-47-8	30.00000 30.00000	0.01504 0.01211	
			Guar Gum	9000-30-0	50.00000	0.00576	
			Petroleum Distillates	64742-47-8	60.00000	0.00546	
			Suspending agent (solid)	14808-60-7	3.00000	0.00088	
			Surfactant	68439-51-0	3.00000	0.00035	

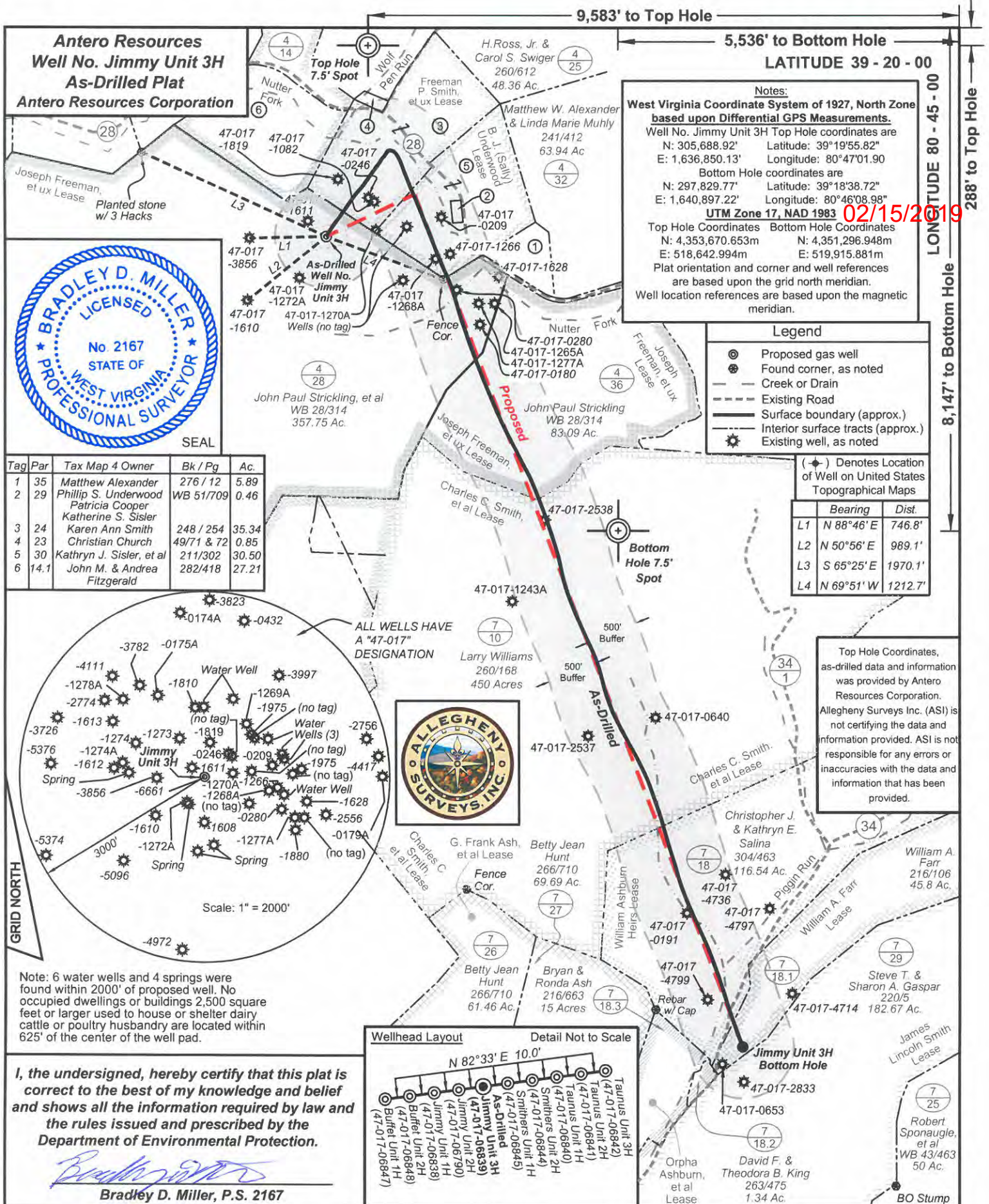
Bioclear 2000	U.S. Well Services, LLC	Anti-Bacterial Agent							
			2,2-dibromo-3-nitropropionamide	10222-01-2	20.00000	0.00401			
			Deionized Water	7732-18-5	28.00000	0.00229			
SI-1200s	U.S. Well Services, LLC	Scale Inhibitor							
			Proprietary Scale Inhibitor	Proprietary	10.00000	0.00128			
AP One	U.S. Well Services, LLC	Gel Breakers							
			Ammonium Persulfate	7727-54-0	100.00000	0.00017			
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	0.00002			
			Formic acid	64-18-6	20.00000	0.00002			
			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

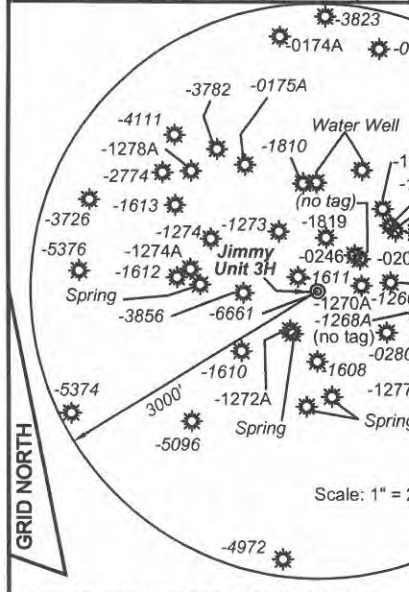
** Information is based on the maximum potential for concentration and thus the total may be over 100%

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)



Antero Resources
Well No. Jimmy Unit 3H
As-Drilled Plat
Antero Resources Corporation

Tag	Par	Tax Map 4 Owner	Bk / Pg	Ac.
1	35	Matthew Alexander	276 / 12	5.89
2	29	Phillip S. Underwood Patricia Cooper Katherine S. Sisler	WB 51/709	0.46
3	24	Karen Ann Smith	248 / 254	35.34
4	23	Christian Church	49/71 & 72	0.85
5	30	Kathryn J. Sisler, et al	211/302	30.50
6	14.1	John M. & Andrea Fitzgerald	282/418	27.21



BRADLEY D. MILLER
LICENSED
No. 2167
STATE OF WEST VIRGINIA
PROFESSIONAL SURVEYOR
SEAL

ALL WELLS HAVE A "47-017" DESIGNATION

Note: 6 water wells and 4 springs 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.

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

FILE NO: 50-30-WU-14
DRAWING NO: Jimmy Unit 3H As-Drilled Plat
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: December 27 2018
OPERATOR'S WELL NO. Jimmy Unit 3H
API WELL NO
47 - 017 - 06839
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1065' WATERSHED: Headwaters Middle Island Creek QUADRANGLE: West Union
DISTRICT: West Union COUNTY: Doddridge
SURFACE OWNER: John Paul Strickling, et al ACREAGE: 357.75
ROYALTY OWNER: Charles C. Smith, et al; William Ashburn Heirs; William A. Farr LEASE NO: _____ ACREAGE: 120; 45.88; 36
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: 15,925' 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

Notes:
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
Well No. Jimmy Unit 3H Top Hole coordinates are
N: 305,688.92" Latitude: 39°19'55.82"
E: 1,636,850.13' Longitude: 80°47'01.90"
Bottom Hole coordinates are
N: 297,829.77" Latitude: 39°18'38.72"
E: 1,640,897.22" Longitude: 80°46'08.98"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,353,670.653m N: 4,351,296.948m
E: 518,642.994m E: 519,915.881m
Plat orientation and corner and well references are based upon the grid north meridian.
Well location references are based upon the magnetic meridian.

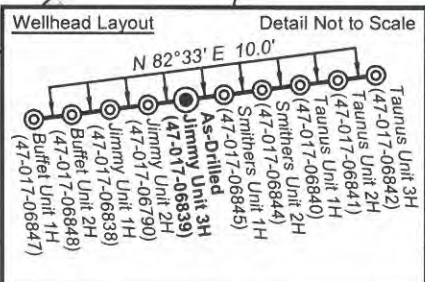
Legend

- ⊕ Proposed gas well
- ⊙ Found corner, as noted
- - - Creek or Drain
- - - Existing Road
- Surface boundary (approx.)
- - - Interior surface tracts (approx.)
- ⊙ Existing well, as noted

(⊕) Denotes Location of Well on United States Topographical Maps

Line	Bearing	Dist.
L1	N 88°46' E	746.8'
L2	N 50°56' E	989.1'
L3	S 65°25' E	1970.1'
L4	N 69°51' W	1212.7'

Top Hole Coordinates, 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.



LONGITUDE 80 - 45 - 00

8,147' to Bottom Hole

288' to Top Hole

9,583' to Top Hole

5,536' to Bottom Hole

LATITUDE 39 - 20 - 00