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WR-35
Rev. 8/23/13

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WV GEOLOGICAL SURVEY
MORGANTOWN, WV

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

API 47-017-06159 County Doddridge District Greenbrier
Quad Big Isaac Pad Name Clarence Pad Field/Pool Name _____
Farm name Mutschelknaus, Clarence & Mary Well Number Oneacre 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 4,344,028.232m Easting 537,272.593m
Landing Point of Curve Northing 4,343,600.42m Easting 537,129.49m
Bottom Hole Northing 4,342,065.034m Easting 539,023.706m

Elevation (ft) 1050' 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 1/7/2013 Date drilling commenced 10/7/2013 Date drilling ceased 2/12/2014
Date completion activities began 6/21/2014 Date completion activities ceased 12/11/2014
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 107', 260' Open mine(s) (Y/N) depths N
Salt water depth(s) ft None Identified Void(s) encountered (Y/N) depths N
Coal depth(s) ft 1736' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:

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API 47-017 - 06159 Farm name Mutschelknaus, Clarence & Mary Well number Oneacre Unit 2H

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"	40'	New	94#/H-40	N/A	Y
Surface	17-1/2"	13-3/8"	357'	New	48#/H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2539'	New	40#/J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	15,827'	New	23#/P-110	N/A	Y
Tubing		2-3/8"	7512'		4.7#/N-80	N/A	
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	150 sx	15.6	1.18	38 Cu. Ft.	0'	8 hrs
Surface	Class A	427 sx	15.6	1.18	248 Cu. Ft.	0'	8 hrs
Coal							
Intermediate 1	Class A	937 sx	15.6	1.18	795 Cu. Ft.	0'	8 hrs
Intermediate 2							
Intermediate 3							
Production	Class H	1012 sx (Lead), 1380 sx (Tail)	13.5 (Lead), 15.2 (Tail)	15.2 (Lead), 1.80 (Tail)	3159 Cu. Ft.	~500' into Intermediate Casing	8 hrs
Tubing							

Drillers TD (ft) 15,827' MD, 7078' TVD (BHL), 7191' TVD (Deepest Point Drilled) Loggers TD (ft) 15,782' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6907'

** This is a subsequent well. Antero only runs wireline logs on one well on a multi-well pad (Ruth Unit 1H API# 47-017-06164). Please reference the wireline logs submitted with Form WR-35 for the Ruth Unit 1H. 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

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 Radioactive & Chemical

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API 47- 017 - 06159 Farm name Mutschelknaus, Clarence & Mary Well number Oneacre Unit 2H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>Marcellus</u>	<u>7123' (Top)</u>	<u>TVD</u>	<u>7565' (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 3600 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 7372 mcfpd Oil --- bpd NGL --- bpd Water --- 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	
	0		0		

*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 Rush Wellsite Services
Address 600 Alpha Drive City Canonsburg State PA Zip 15317

Cementing Company Nabors Completion & Production Services, Co.
Address 1650 Hackers Creek City Jane Lew State WV Zip 26378

Stimulating Company U.S. Well Services
Address 533 Industrial Park Drive City Jane Lew State WV Zip 26378

Please insert additional pages as applicable.

Completed by Natalie Komp Telephone 303-357-6820
Signature Natalie Komp Title Permitting Agent Date 7/22/2015

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API 47-017-06159 Farm Name Mutschelknaus, Clarence & Mary Well Number Oneacre Unit 2H

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	21-Jun-14	15,576	15,741	60	Marcellus
2	10-Aug-14	15,380	15,545	60	Marcellus
3	10-Aug-14	15,184	15,349	60	Marcellus
4	24-Sep-14	14,988	15,153	60	Marcellus
5	25-Sep-14	14,792	14,958	60	Marcellus
6	26-Sep-14	14,596	14,762	60	Marcellus
7	26-Sep-14	14,401	14,566	60	Marcellus
8	27-Sep-14	14,205	14,370	60	Marcellus
9	27-Sep-14	14,009	14,174	60	Marcellus
10	27-Sep-14	13,813	13,978	60	Marcellus
11	28-Sep-14	13,617	13,782	60	Marcellus
12	28-Sep-14	13,421	13,586	60	Marcellus
13	28-Sep-14	13,225	13,391	60	Marcellus
14	29-Sep-14	13,029	13,195	60	Marcellus
15	29-Sep-14	12,834	12,999	60	Marcellus
16	29-Sep-14	12,638	12,803	60	Marcellus
17	30-Sep-14	12,442	12,607	60	Marcellus
18	30-Sep-14	12,246	12,411	60	Marcellus
19	30-Sep-14	12,050	12,215	60	Marcellus
20	30-Sep-14	11,854	12,019	60	Marcellus
21	1-Oct-14	11,658	11,824	60	Marcellus
22	1-Oct-14	11,463	11,628	60	Marcellus
23	1-Oct-14	11,267	11,432	60	Marcellus
24	1-Oct-14	11,071	11,236	60	Marcellus
25	2-Oct-14	10,875	11,040	60	Marcellus
26	2-Oct-14	10,679	10,844	60	Marcellus
27	2-Oct-14	10,483	10,648	60	Marcellus
28	31-Oct-14	10,287	10,453	60	Marcellus
29	31-Oct-14	10,091	10,257	60	Marcellus
30	1-Nov-14	9,896	10,061	60	Marcellus
31	1-Nov-14	9,700	9,865	60	Marcellus
32	1-Nov-14	9,504	9,669	60	Marcellus
33	1-Nov-14	9,308	9,473	60	Marcellus
34	2-Nov-14	8,908	9,090	60	Marcellus
35	2-Nov-14	8,691	8,874	60	Marcellus
36	2-Nov-14	8,475	8,657	60	Marcellus
37	2-Nov-14	8,259	8,441	60	Marcellus
38	3-Nov-14	8,043	8,225	60	Marcellus
39	3-Nov-14	7,826	8,009	60	Marcellus
40	5-Nov-14	7,610	7,792	60	Marcellus

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API 47-017-06159 Farm Name Mutschelknaus, Clarence & Mary Well Number Oneacre 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	10-Aug-14	69.0	7,791	6,918	4,868	186,700	6,637	N/A
2	10-Aug-14	41.0	7,741	6,829	4,468	49,400	7,398	N/A
3	24-Sep-14	58.0	7,880	6,323	4,644	236,990	7,216	N/A
4	25-Sep-14	60.4	7,441	6,248	5,505	252,215	7,252	N/A
5	26-Sep-14	59.2	7,525	6,131	5,146	237,600	7,260	N/A
6	26-Sep-14	59.8	7,211	6,508	5,387	263,000	7,572	N/A
7	26-Sep-14	62.0	7,306	6,219	5,135	262,050	7,035	N/A
8	27-Sep-14	63.0	7,253	6,636	5,661	263,000	6,994	N/A
9	27-Sep-14	63.0	7,186	6,038	5,116	262,900	6,978	N/A
10	27-Sep-14	63.5	7,456	6,158	5,602	225,555	7,406	N/A
11	28-Sep-14	61.6	7,470	6,304	5,168	260,565	7,022	N/A
12	28-Sep-14	62.1	7,130	6,208	5,121	262,800	6,853	N/A
13	28-Sep-14	64.9	6,958	5,622	4,858	264,050	6,902	N/A
14	29-Sep-14	65.4	6,975	5,878	4,828	257,600	6,700	N/A
15	29-Sep-14	64.6	6,847	5,821	4,629	262,700	6,763	N/A
16	29-Sep-14	65.3	7,065	6,228	4,948	250,250	6,751	N/A
17	30-Sep-14	65.6	7,278	5,855	4,977	263,280	6,745	N/A
18	30-Sep-14	63.6	7,138	6,104	5,040	262,400	6,899	N/A
19	30-Sep-14	63.4	7,197	6,207	5,079	264,300	6,788	N/A
20	30-Sep-14	65.5	7,366	6,312	5,226	248,470	6,488	N/A
21	1-Oct-14	65.9	7,184	6,335	5,445	264,430	6,663	N/A
22	1-Oct-14	64.7	7,012	6,088	5,305	263,500	6,606	N/A
23	1-Oct-14	64.0	6,968	6,199	5,587	261,880	6,600	N/A
24	1-Oct-14	66.0	6,970	5,470	5,224	264,030	6,712	N/A
25	2-Oct-14	64.6	7,202	5,835	5,244	250,400	6,422	N/A
26	2-Oct-14	64.3	71,797	6,210	5,313	262,800	6,540	N/A
27	2-Oct-14	65.6	7,227	6,124	5,668	262,520	6,527	N/A
28	31-Oct-14	64.0	7,007	5,814	4,710	204,490	5,732	N/A
29	31-Oct-14	62.8	7,072	6,219	5,267	191,100	5,515	N/A
30	1-Nov-14	63.5	7,090	6,306	4,802	203,450	5,642	N/A
31	1-Nov-14	65.0	7,208	6,230	4,860	255,030	6,294	N/A
32	1-Nov-14	65.0	7,003	6,450	4,817	253,420	6,240	N/A
33	1-Nov-14	63.8	6,972	5,801	4,988	250,900	6,220	N/A
34	2-Nov-14	64.0	6,750	5,827	4,689	250,400	6,188	N/A
35	2-Nov-14	65.5	6,608	5,067	4,653	252,470	6,207	N/A
36	2-Nov-14	64.8	6,625	5,809	4,521	253,840	6,168	N/A
37	2-Nov-14	64.2	6,789	6,270	4,787	252,800	6,118	N/A
38	3-Nov-14	64.5	6,913	6,020	4,938	252,600	6,088	N/A
39	3-Nov-14	62.8	6,939	6,080	5,374	196,200	4,866	N/A
40	5-Nov-14	64.5	7,493	6,683	5,289	252,620	6,533	N/A
AVG=		63.3	8,776	6,135	5,072	9,734,705	263,540	TOTAL

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MORGANTOWN, WV

API 47-017-06159 Farm Name Mutschelknaus, Clarence & Mary Well Number Oneacre Unit 2H

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	107	N/A	107	N/A
Fresh Water	260	N/A	260	N/A
Shale	0	566	0	566
Shale/Siltstone	est. 566	676	est. 566	676
Shale	est. 676	716	est. 676	716
Shale/Coal	est. 716	836	est. 716	836
Shale/Siltstone	est. 836	1,696	est. 836	1,696
Sandstone	est. 1696	1,736	est. 1696	1,736
Coal	est. 1736	1,766	est. 1736	1,766
Shale	est. 1766	2,017	est. 1766	2,017
Big Lime	2,017	2,114	2,017	2,114
Big Injun	2,114	2,476	2,114	2,476
Gantz Sand	2,476	2,592	2,476	2,592
Fifty Foot Sandstone	2,592	2,677	2,592	2,677
Gordon	2,677	2,847	2,677	2,847
Fifth Sandstone	2,847	2,884	2,847	2,884
Bayard	2,884	3,367	2,884	3,367
Warren	3,367	3,577	3,367	3,579
Speechley	3,577	3,888	3,579	3,892
Baltown	3,888	4,385	3,892	4,392
Bradford	4,385	4,970	4,392	4,985
Benson	4,970	5,283	4,985	5,310
Alexander	5,283	5,441	5,310	5,473
Elk	5,441	6,068	5,473	6,168
Rhinestreet	6,068	6,578	6,168	6,743
Sycamore	6,578	6,798	6,743	7,002
Middlesex	6,798	6,946	7,002	7,212
Burkett	6,946	6,973	7,212	7,256
Tully	6,973	7,123	7,256	7,565
Marcellus	7,123	NA	7,565	NA
Onondaga**	7,145	NA	9,085	NA

*Please note Antero determines shallow 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.

**Antero drilled a small portion of this well less than 5 feet into the Onondaga formation from approximately 9085'-9263' in the lateral but this section was not perforated or completed.

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MORGANTOWN, WV

Hydraulic Fracturing Fluid Product Component Information Disclosure



Job Start Date:	8/10/2014
Job End Date:	11/5/2014
State:	West Virginia
County:	Doddridge
API Number:	47-017-06159-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Oneacre Unit 2H
Longitude:	-80.56806100
Latitude:	39.24476700
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	7,191
Total Base Water Volume (gal):	11,068,680
Total Base Non Water Volume:	507,483

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	Base Fluid	Water	7732-18-5	100.00000	90.03803	
Sand	U.S. Well Services, LLC	Proppant	Crystalline Silica, quartz	14808-60-7	100.00000	9.49482	
LGC-15	U.S. Well Services, LLC	Gelling Agents	Guar Gum	9000-30-0	50.00000	0.10941	
			Petroleum Distillates	64742-47-8	60.00000	0.10362	
			Suspending agent (solid)	14808-60-7	3.00000	0.01673	
			Surfactant	68439-51-0	3.00000	0.00656	
HCL Acid (12.6%-18.0%)	U.S. Well Services, LLC	Bulk Acid	Water	7732-18-5	87.50000	0.08533	
			Hydrogen Chloride	7647-01-0	18.00000	0.02038	
WFRA-405	U.S. Well Services, LLC	Friction Reducer	Water	7732-18-5	40.00000	0.02912	
			Anionic Polyacrylamide	Proprietary		0.02912	
			Petroleum Distillates	64742-47-8	22.00000	0.02344	
			Ethoxylated alcohol blend	Proprietary	5.00000	0.00364	

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WV GEOLOGICAL SURVEY
SANTOMAS, WV

SI-1100	U.S. Well Services	Scale Inhibitor	Crystalline Salt	12125-02-9	5.00000	0.00364
			DI Water	7732-18-5	80.00000	0.01082
			Ethylene Glycol	107-21-1	40.00000	0.00611
			Potassium salt of diethylene triamine penta (methylene phosphonic acid)	15827-60-8	10.00000	0.00183
			2-Phosphonobutane 1,2,4 tricarboxylic salt	37971-36-1	10.00000	0.00174
			hexamethylenediamine tetra (methylene phosphonic acid)	38820-59-6	10.00000	0.00169
			Copolymer of Maleic and Acrylic acid	26677-99-6	10.00000	0.00160
			bis (hexamethylene) tramine penta (methylene phosphonic acid) - phosphate acid	40623-75-4	10.00000	0.00155
			Acrylic polymer	52255-49-9	5.00000	0.00068
X-BAC 1020	U.S. Well Services, LLC	Anti-Bacterial Agent				
			2,2-dibromo-3-nitropropionamide	10222-01-2	20.00000	0.00467
			Deionized Water	7732-18-5	28.00000	0.00267
AP One	U.S. Well Services, LLC	Gel Breakers				
			Ammonium Persulfate	7727-54-0	100.00000	0.00244
AI-301	U.S. Well Services, LLC	Acid Corrosion Inhibitors				
			Diethylene Glycol	111-46-6	30.00000	0.00011
			Methanamine	100-97-0	20.00000	0.00009
			Hydrogen Chloride	7647-01-0	10.00000	0.00004
			Polyethylene polyamine	38603-67-8	10.00000	0.00003
			Coco amine	61791-14-8	5.00000	0.00002
AI-300	U.S. Well Services, LLC	Acid Corrosion Inhibitors				
			Ethylene Glycol	107-21-1	31.00000	0.00003
			Cinnamaldehyde	104-55-2	5.00000	0.00001
			N,N-Dimethylformamide	38-12-2	15.00000	0.00001
			2-Butoxyethanol	111-76-2	7.00000	0.00001
			tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7	13.00000	0.00001
			Triethyl Phosphate	78-40-0	3.00000	
			Ethoxylated Nonylphenol	38412-54-4	5.00000	
			Water	7732-18-5	20.00000	
			Isopropyl Alcohol	67-63-0	3.00000	

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. Oneacre Unit 2H
As-Drilled Plat
Antero Resources Corporation

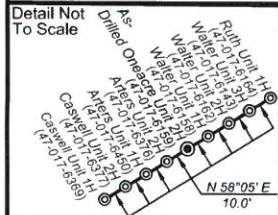
Line	Bearing	Distance
L1	N 86°50' E	896.1'
L2	N 83°35' W	1227.2'
L3	N 63°18' W	1501.7'
L4	N 19°27' E	1885.3'

(+) Denotes location of well on United States topographic maps

7,551' to Top Hole

1,912' to Bottom Hole

LATITUDE 39 - 15 - 00

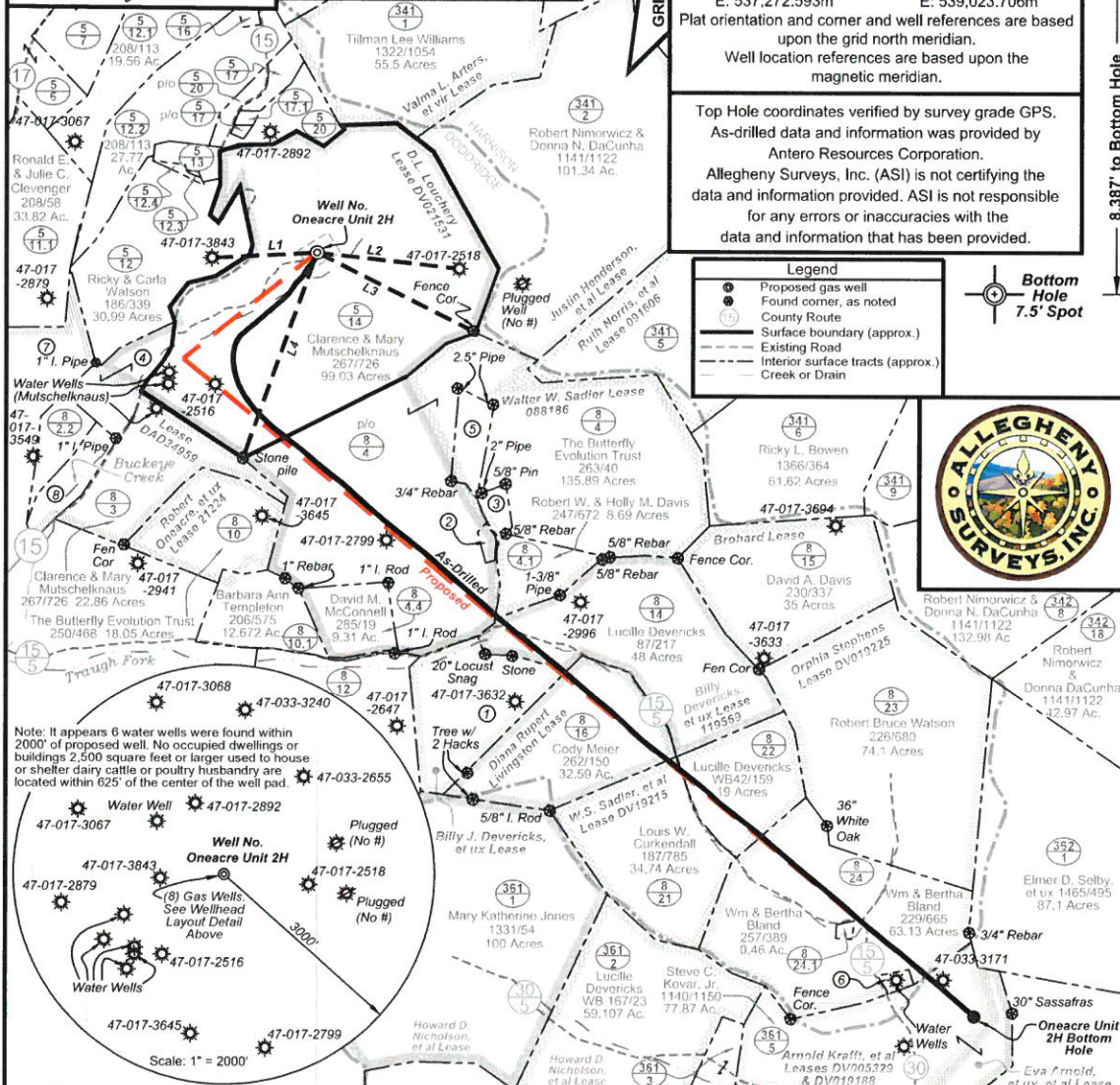
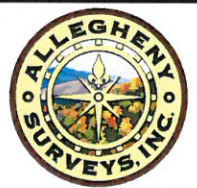


Par	Owner	DB/Pq	Acres
1	Lucille Devericks Billy J. Devericks	WB42/159	23.0
2	Robert & Holly Davis	247/672	0.79
3	Dave & Beatrice Kearns	263/40	2.0
4	Darrell R. Richards	281/289	9.35
5	Charles D. Ball	241/504	5.0
6	Wm. & Leslie Westfall	244/355	0.91
7	Don & Charlotte Henrey	294/81	69.57
8	Mikasa T. Ash	263/294	4.88

Notes:
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Oneacre Unit 2H Top Hole coordinates are
 N: 273,026.41 Latitude: 39°14'40.85"
 E: 1,697,455.47 Longitude: 80°34'05.70"
 Bottom Hole coordinates are
 N: 266,488.27 Latitude: 39°13'36.89"
 E: 1,703,094.31 Longitude: 80°32'53.06"
UTM Zone 17, NAD 1983
 Top Hole Coordinates: N: 4,344,028.232m E: 537,272.593m
 Bottom Hole Coordinates: N: 4,342,065.034m E: 539,023.706m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

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.

- Legend**
- Proposed gas well
 - Found corner, as noted
 - County Route
 - Surface boundary (approx.)
 - Existing Road
 - Interior surface tracts (approx.)
 - Creek or Drain



FILE NO: 132-30-G-12
 DRAWING NO: Oneacre 2H As-Drilled Plat
 SCALE: 1" = 1200'
 MINIMUM DEGREE OF ACCURACY: Submeter
 PROVEN SOURCE OF ELEVATION: WVDOT, Bridgeport, WV

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

DATE: March 27, 2015
 OPERATOR'S WELL NO. Oneacre Unit 2H
 API WELL NO: 47-017-06159
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: Existing Grade - 1045' Proposed Grade - 1050' WATERSHED: Headwaters Middle Island Creek QUADRANGLE: Big Isaac
 DISTRICT: Greenbrier COUNTY: Doddridge
 SURFACE OWNER: Clarence & Mary Mutschelknaus W. S. Sadler, et al; Orphia Stephens Diana Rupert Livingston; Arnold Krafft, et al DVO19225; DV019215 DV005329 & DV019188 ACREAGE: 99.03
 ROYALTY OWNER: D. L. Louchery; Walter W. Sadler; Billy Devericks, et ux LEASE NO: DV021531; 088186; 119569 ACREAGE: 172; 85.25; 48; 54
 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 TVD 7,078'
 MD 15,827'

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