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WR-35  
Rev. 8/23/13

WV GEOLOGICAL SURVEY  
MORGANTOWN, WV

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

API 47-033-05624 County Harrison District Union  
Quad Big Isaac 7.5' Pad Name Myer Pad Field/Pool Name ---  
Farm name Myer, Everett M., Jr. Well Number Courtney 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 4337890.424m Easting 542164.281m  
Landing Point of Curve Northing 4338100.07m Easting 542010.08m  
Bottom Hole Northing 4340459.178m Easting 541267.055m

Elevation (ft) 1358' 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 7/11/2012 Date drilling commenced 7/15/2013 Date drilling ceased 10/12/2013  
Date completion activities began 2/1/2014 Date completion activities ceased 4/18/2014  
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 46' Open mine(s) (Y/N) depths No  
Salt water depth(s) ft 1379' Void(s) encountered (Y/N) depths No  
Coal depth(s) ft 947' Cavern(s) encountered (Y/N) depths No  
Is coal being mined in area (Y/N) No

Reviewed by:  
\_\_\_\_\_

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API 47-033 - 05624 Farm name Myer, Everett M., Jr. Well number Courtney 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"	40'	New	94# H-40	N/A	Yes
Surface	17- 1/2"	13- 3/8"	375'	New	48# H-40	N/A	Yes
Coal							
Intermediate 1	12-1/4"	9-5/8"	2615'	New	36# J-55	N/A	Yes
Intermediate 2							
Intermediate 3							
Production	8-3/4" & 8-1/2"	5-1/2"	16097'	New	20# P-110	N/A	Yes
Tubing		2-3/8"	7428'		4.7# N-80	N/A	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 <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	Class A	335 sx	15.4	1.18	38	0'	8 Hrs.
Surface	Class A	437 sx	15.6	1.18	260	0'	8 Hrs.
Coal							
Intermediate 1	Class A	902 sx	15.6	1.18	819	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	1132 sx (Lead) 1360 sx (Tail)	14.5 Lead 15.2 Tail	1.3 Lead 1.86 Tail	3203	-500 into intermediate casing	8 Hrs.
Tubing							

Drillers TD (ft) 16097' MD, 7298' TVD (BHL), 7327' (Deepest Point Drilled) Loggers TD (ft) 16097' MD  
Deepest formation penetrated Marcellus Plug back to (ft) N/A  
Plug back procedure N/A

Kick off depth (ft) 6729'

\*\* This is a subsequent well. Antero only runs wireline logs on one well on a multi-well pad (Thaddeus Unit 2H API# 47-033-05622). Please reference the wireline logs submitted with Form WR-35 for the Thaddeus Unit 2H). 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 \_\_\_\_\_



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API 47- 033 - 05624 Farm name Myer, Everett M., Jr. Well number Courtney Unit 1H

PRODUCING FORMATION(S)	DEPTHS			
	7270' (TOP)	TVD	7482' (TOP)	MD
Marcellus				

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 11106 mcfpd Oil --- bpd NGL --- bpd Water 452 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 <sub>2</sub> S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	

	0		0		
<b>* PLEASE SEE EXHIBIT 3</b>					

Please insert additional pages as applicable.

Drilling Contractor Frontier Drilling LLC  
Address 562 Spring Run Rd. 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 US Well Services  
Address 533 Industrial Park Drive City Jane Lew State WV Zip 26378

Please insert additional pages as applicable.

Completed by Kara Quackenbush Telephone 303-357-7233  
Signature *Kara Quackenbush* Title Permit Representative Date 6/11/2015

API 47-033-05624 Farm Name Myer, Everett M., Jr. Well Number Courtney Unit 1H

**EXHIBIT 1**

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	1-Feb-14	15,820	16,009	60	Marcellus
2	4-Mar-14	15,596	15,785	60	Marcellus
3	4-Mar-14	15,372	15,561	60	Marcellus
4	4-Mar-14	15,148	15,336	60	Marcellus
5	5-Mar-14	14,923	15,112	60	Marcellus
6	5-Mar-14	14,699	14,888	60	Marcellus
7	5-Mar-14	14,475	14,664	60	Marcellus
8	5-Mar-14	14,251	14,440	60	Marcellus
9	5-Mar-14	14,027	14,215	60	Marcellus
10	6-Mar-14	13,802	13,991	60	Marcellus
11	6-Mar-14	13,578	13,767	60	Marcellus
12	6-Mar-14	13,354	13,543	60	Marcellus
13	7-Mar-14	13,130	13,319	60	Marcellus
14	7-Mar-14	12,906	13,095	60	Marcellus
15	7-Mar-14	12,682	12,870	60	Marcellus
16	7-Mar-14	12,457	12,646	60	Marcellus
17	8-Mar-14	12,233	12,422	60	Marcellus
18	8-Mar-14	12,009	12,198	60	Marcellus
19	8-Mar-14	11,785	11,974	60	Marcellus
20	8-Mar-14	11,561	11,749	60	Marcellus
21	9-Mar-14	11,336	11,525	60	Marcellus
22	9-Mar-14	11,112	11,301	60	Marcellus
23	9-Mar-14	10,888	11,077	60	Marcellus
24	9-Mar-14	10,664	10,853	60	Marcellus
25	10-Mar-14	10,440	10,628	60	Marcellus
26	10-Mar-14	10,215	10,404	60	Marcellus
27	10-Mar-14	9,991	10,180	60	Marcellus
28	10-Mar-14	9,767	9,956	60	Marcellus
29	11-Mar-14	9,543	9,732	60	Marcellus
30	11-Mar-14	9,319	9,507	60	Marcellus
31	11-Mar-14	9,094	9,283	60	Marcellus
32	11-Mar-14	8,870	9,059	60	Marcellus
33	11-Mar-14	8,646	8,835	60	Marcellus
34	12-Mar-14	8,422	8,611	60	Marcellus
35	12-Mar-14	8,198	8,387	60	Marcellus
36	12-Mar-14	7,974	8,162	60	Marcellus
37	12-Mar-14	7,749	7,938	60	Marcellus
38	12-Mar-14	7,525	7,714	60	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 (bbbls)	Amount of Nitrogen/ other (units)
1	3-Mar-14	72.1	7,432	N/A	5,223	102,700	6,782	N/A
2	4-Mar-14	70.5	7,506	5,990	5,125	168,285	5,992	N/A
3	4-Mar-14	68.5	7,733	5,797	4,550	114,020	7,281	N/A
4	4-Mar-14	65.1	7,748	6,459	5,270	118,170	7,314	N/A
5	5-Mar-14	68.0	7,515	6,215	5,065	157,900	6,788	N/A
6	5-Mar-14	72.0	7,437	6,103	6,006	260,850	7,094	N/A
7	5-Mar-14	76.1	7,411	5,818	5,268	259,760	6,757	N/A
8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9	6-Mar-14	74.0	7,466	6,095	4,608	264,000	6,660	N/A
10	6-Mar-14	75.0	7,345	6,129	4,618	259,900	6,813	N/A
11	6-Mar-14	73.1	7,555	6,020	4,949	260,080	7,668	N/A
12	7-Mar-14	60.2	7,625	6,085	4,353	259,410	6,705	N/A
13	7-Mar-14	75.3	7,468	5,787	4,674	225,542	6,481	N/A
14	7-Mar-14	72.3	7,414	5,912	4,615	261,760	6,860	N/A
15	7-Mar-14	71.2	7,597	6,174	5,461	167,250	7,217	N/A
16	8-Mar-14	76.2	7,568	6,182	4,734	260,060	6,661	N/A
17	8-Mar-14	76.8	7,513	5,922	4,708	260,965	6,709	N/A
18	8-Mar-14	75.9	7,733	5,946	4,816	258,698	6,612	N/A
19	8-Mar-14	78.9	7,210	6,171	4,672	254,510	6,313	N/A
20	9-Mar-14	77.6	7,540	6,359	4,946	259,660	6,569	N/A
21	9-Mar-14	78.4	7,230	5,892	5,250	259,945	6,606	N/A
22	9-Mar-14	83.1	7,114	5,566	5,091	259,778	8,828	N/A
23	9-Mar-14	78.0	7,102	5,855	4,799	258,930	6,366	N/A
24	9-Mar-14	79.2	6,993	5,770	4,691	261,350	6,371	N/A
25	10-Mar-14	78.5	7,255	5,712	4,561	262,087	6,380	N/A
26	10-Mar-14	75.6	7,022	5,224	5,469	263,423	6,476	N/A
27	10-Sep-14	73.7	7,465	6,202	5,000	237,900	7,001	N/A
28	11-Mar-14	79.6	6,901	6,112	4,866	259,800	6,409	N/A
29	11-Mar-14	77.7	7,402	5,574	5,047	259,850	6,435	N/A
30	11-Mar-14	76.7	7,334	5,641	4,921	260,467	6,506	N/A
31	11-Mar-14	77.5	6,971	5,586	5,195	259,340	6,379	N/A
32	11-Mar-14	79.3	6,843	6,162	4,669	260,060	6,278	N/A
33	11-Mar-14	80.9	6,926	6,107	5,368	260,880	6,390	N/A
34	12-Mar-14	77.1	6,970	6,657	4,957	260,880	6,328	N/A
35	12-Mar-14	76.7	7,135	6,080	5,732	261,740	6,420	N/A
36	12-Mar-14	78.7	6,724	5,810	5,522	261,440	6,319	N/A
37	12-Mar-14	79.7	6,724	5,715	6,114	258,540	6,287	N/A
38	12-Mar-14	74.8	6,497	5,711	5,667	206,640	6,864	N/A
	AVG=	75.2	7,282	5,959	5,043	8,786,570	247,919	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
Fresh Water	46'	N/A	46'	N/A
Shale	0	77	0	77
Siltstone	77	277	77	277
Sandy siltstone	277	587	277	587
Silty Sandstone	587	617	587	617
Siltstone	617	707	617	707
Sandstone	707	737	707	737
Siltstone	737	827	737	827
Sandstone	827	947	827	947
Coal	947	977	947	977
Sandstone	977	1097	977	1097
Siltstone	1097	1127	1097	1127
Sandy siltstone	1127	1427	1127	1427
Sandy Limestone	1427	1697	1427	1697
Silty Limestone	1697	1948	1697	1948
Big Lime	1948	2061	1948	2061
Big Injun	2061	2312	2061	2312
Gantz Sand	2312	2426	2312	2426
Fifty Foot Sandstone	2426	2515	2426	2515
Gordon	2515	2836	2515	2836
Fifth Sandstone	2836	2869	2836	2869
Bayard	2869	3247	2869	3248
Warren	3247	3526	3248	3526
Speechley	3526	3768	3526	3768
Baltown	3768	4283	3768	4283
Bradford	4283	4841	4283	4841
Benson	4841	5025	4841	5025
Alexander	5025	5185	5025	5185
Elk	5185	5797	5185	5797
Rhinestreet	5797	6609	5797	6609
Sycamore	6609	6879	6609	6885
Middlesex	6879	7050	6885	7086
Burkett	7050	7075	7086	7119
Tully	7075	7270	7119	7482
Marcellus	7270	NA	7482	NA

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# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	3/3/2014
Job End Date:	3/12/2014
State:	West Virginia
County:	Harrison
API Number:	47-033-05624-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Courtney Unit 1H
Longitude:	-80.51195000
Latitude:	39.18915280
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	7,308
Total Base Water Volume (gal):	10,412,598
Total Base Non Water Volume:	440,061



## Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	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					
Sand	U.S. Well Services, LLC	Proppant					
HCL Acid (12.6%-18.0%)	U.S. Well Services, LLC	Bulk Acid					
LGC-15	U.S. Well Services, LLC	Gelling Agents					
WFRA-405	U.S. Well Services, LLC	Friction Reducer					
			Water	7732-18-5	100.00000	90.54060	
			Crystalline Silica, quartz	14808-60-7	100.00000	9.16089	
			Water	7732-18-5	87.50000	0.08361	
			Hydrogen Chloride	7641-01-1	18.00000	0.01997	
			Guar Gum	9000-30-0	50.00000	0.04273	
			Petroleum Distillates	64742-47-8	60.00000	0.04047	
			Suspending agent (solid)	14808-60-7	3.00000	0.00654	
			Surfactant	68439-51-0	3.00000	0.00256	
			Water	7732-18-5	40.00000	0.02678	
			Anionic Polyacrylamide	Proprietary		0.02678	
			Petroleum Distillates	64742-47-8	22.00000	0.02156	
			Ethoxylated alcohol blend	Proprietary	5.00000	0.00335	



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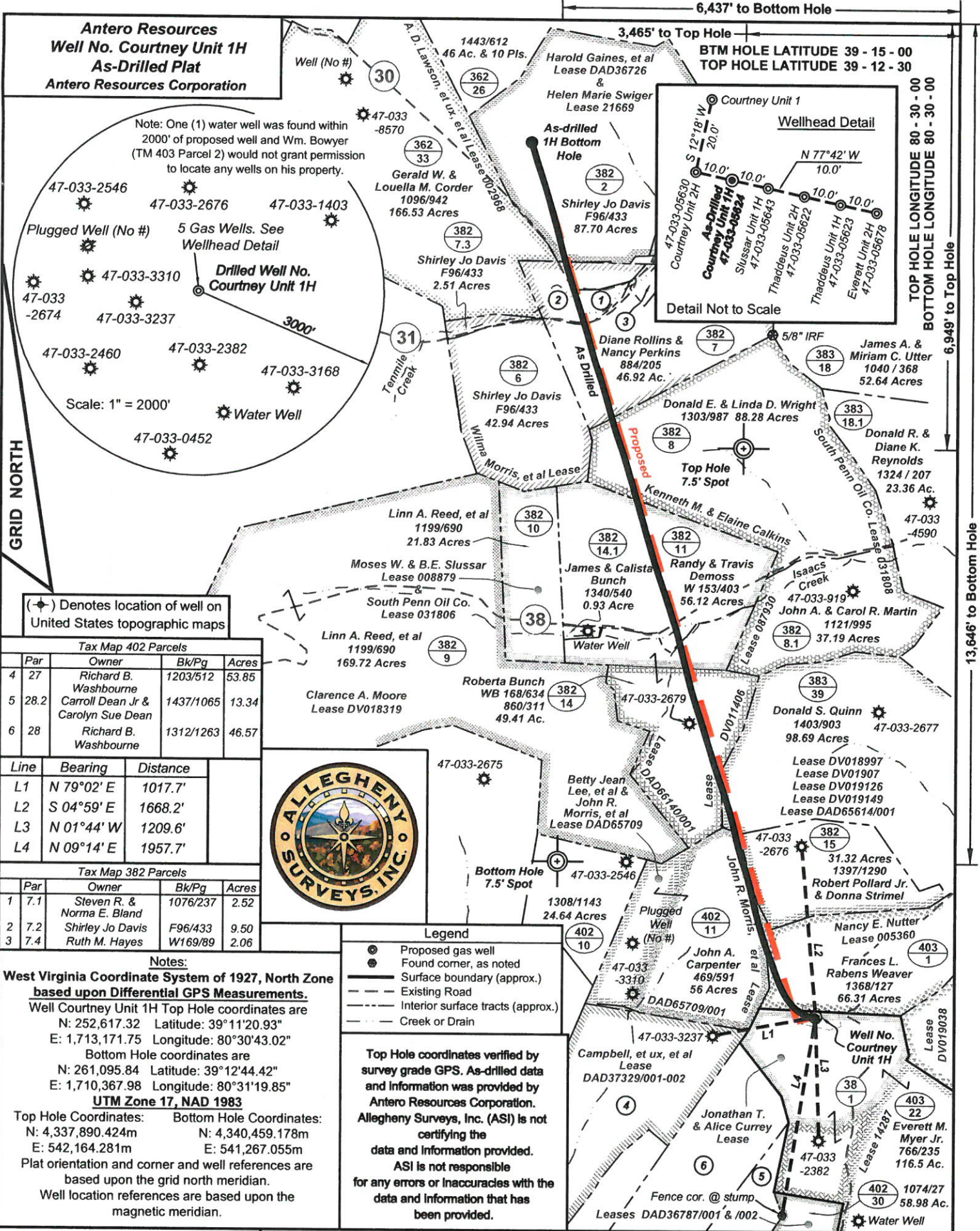
SI-1000	U.S. Well Services, LLC	Scale Inhibitor	Crystalline Salt	12125-02-9	5.00000	0.00335	
			Anionic Copolymer	Proprietary		0.00415	
			Ethylene Glycol	107-21-1	20.00000	0.00375	
			Water	7732-18-5	30.00000	0.00313	
K-BAC 1020	U.S. Well Services, LLC	Anti-Bacterial Agent					
			2,2-dibromo-3-nitropropionamide	10222-01-2	20.00000	0.00508	
			Deionized Water	7732-18-5	28.00000	0.00290	
AP One	U.S. Well Services, LLC	Gel Breakers					
			Ammonium Persulfate	7727-54-0	100.00000	0.00129	
AI-300	U.S. Well Services, LLC	Acid Corrosion Inhibitor					
			Ethylene Glycol	107-21-1	31.00000	0.00022	
			N,N-Dimethylformamide	68-12-2	15.00000	0.00007	
			Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7	13.00000	0.00006	
			Cinnamaldehyde	104-55-2	5.00000	0.00006	
			2-Butoxyethanol	111-76-2	7.00000	0.00005	
			1-Decanol	68412-54-4	5.00000	0.00002	
			Poly(oxy-1,2-ethanediy), alpha-(4-noliphenyl)-omega-hydroxy, branched	7732-18-5	20.00000	0.00002	
			Isopropyl Alcohol	67-63-0	3.00000	0.00001	
			1-Octanol	78-40-0	3.00000	0.00001	

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

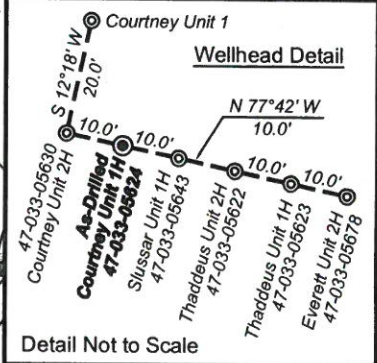
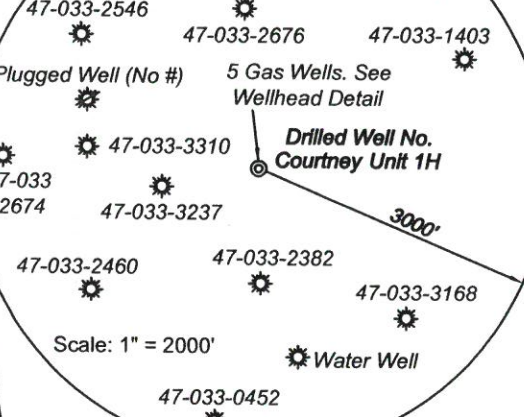
\*\* Information is based on the maximum potential for concentration and thus the total may be over 100%

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. Courtney Unit 1H**  
**As-Drilled Plat**  
**Antero Resources Corporation**

Note: One (1) water well was found within 2000' of proposed well and Wm. Bowyer (TM 403 Parcel 2) would not grant permission to locate any wells on his property.



GRID NORTH

TOP HOLE LONGITUDE 80 - 30 - 00  
 BOTTOM HOLE LONGITUDE 80 - 30 - 00

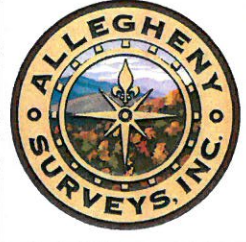
13,646' to Bottom Hole

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

Par	Owner	Bk/Pg	Acres
4 27	Richard B. Washbourne	1203/512	53.85
5 28.2	Carroll Dean Jr & Carolyn Sue Dean	1437/1065	13.34
6 28	Richard B. Washbourne	1312/1263	46.57

Line	Bearing	Distance
L1	N 79°02' E	1017.7'
L2	S 04°59' E	1668.2'
L3	N 01°44' W	1209.6'
L4	N 09°14' E	1957.7'

Par	Owner	Bk/Pg	Acres
1 7.1	Steven R. & Norma E. Bland	1076/237	2.52
2 7.2	Shirley Jo Davis	F96/433	9.50
3 7.4	Ruth M. Hayes	W169/89	2.06



**Notes:**  
**West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.**  
 Well Courtney Unit 1H Top Hole coordinates are  
 N: 252,617.32 Latitude: 39°11'20.93"  
 E: 1,713,171.75 Longitude: 80°30'43.02"  
 Bottom Hole coordinates are  
 N: 261,095.84 Latitude: 39°12'44.42"  
 E: 1,710,367.98 Longitude: 80°31'19.85"  
**UTM Zone 17, NAD 1983**  
 Top Hole Coordinates: N: 4,337,890.424m E: 542,164.281m  
 Bottom Hole Coordinates: N: 4,340,459.178m E: 541,267.055m  
 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  
 (---) Surface boundary (approx.)  
 (---) Existing Road  
 (---) Interior surface tracts (approx.)  
 (---) Creek or Drain

**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.**

DRAWING NO: 258-11 Courtney Drilled 1H  
 SCALE: 1" = 1200'  
 MINIMUM DEGREE OF ACCURACY: Submeter  
 PROVEN SOURCE OF ELEVATION: CORS Glenville, WV

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

DATE: April 23 20 15  
 API WELL NO: Courtney Unit 1H  
 API WELL NO.  
 47 - 033 - 05624  
 STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
 LOCATION: ELEVATION: Original 1,366' Existing 1,358' WATERSHED: Middle West Fork River QUADRANGLE: Big Isaac  
 DISTRICT: Union COUNTY: Harrison  
 SURFACE OWNER: Everett M. Myer Jr. ROYALTY OWNER: Jonathan T. & Alice Curry; Nancy E. Nutter; John R. Morris, et al  
 LEASE NO: 087930; 031808; DAD36726; 21669; DV011155; 005360; 008879; DV018997; DV019007; 031806; DV019149; DAD65614/001; DAD65709/001; DV019126; DAD66140/001; DV011406  
 ACREAGE: 116.5 87.35; 107 130; 120  
 ACREAGE: 30.75; 72; 56; 139; 40  
 PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled TVD 7,298'  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale DEPTH: MD 16,097'

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