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WR-35
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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 - 085 - 10063 County Ritchie District Clay
Quad Pullman 7.5' Pad Name Edwin Pad Field/Pool Name ----
Farm name Quimby, Franklin P. Well Number Hornet Unit 2H
Operator (as registered with the OOG) Antero Resources Corporation
Address 1615 Wynkoop St. 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 4342376m Easting 508389m
Landing Point of Curve Northing 4342707.02m Easting 508638.60m
Bottom Hole Northing 4345719m Easting 507196m

Elevation (ft) 1191' 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 10/25/2013 Date drilling commenced 1/29/2014 Date drilling ceased 5/12/2014
Date completion activities began 7/16/2014 Date completion activities ceased 11/8/2014
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 49' 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:

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API 47-085 - 10063 Farm name Quimby, Franklin P. Well number Hornet 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	133# J-55	N/A	Y
Surface	17- 1/2"	13- 3/8"	368'	New	54.50# J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2563'	New	36# J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4" & 8-1/2"	5-1/2"	18302'	New	23# P-110	N/A	Y
Tubing		2-3/8"	6922'		5.95# 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	200 sx	15.6	1.18	38	0'	8 Hrs.
Surface	Class A	325 sx	15.6	1.18	256	0'	8 Hrs.
Coal							
Intermediate 1	Class A	885 sx	15.6	1.18	803	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	1006 sx (Lead) 1775 sx (Tail)	14.5 Lead 15.2 Tail	1.44 Lead 1.8 Tail	3720	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 18302' MD, 6497' TVD (BHL); 6635' TVD (Deepest point drilled) Loggers TD (ft) 18302'
Deepest formation penetrated Marcellus Plug back to (ft) N/A
Plug back procedure N/A

Kick off depth (ft) 6426'

** This is a subsequent well. Antero only runs wireline logs on one well on a multi-well pad (Hornet Unit 1H API #47-085-10062). Please reference the wireline logs submitted with Form WR-35 for the Hornet 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 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 Radioactive + Chemical

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API 47- 085 - 10063 Farm name Quimby, Franklin P. Well number Mash Unit 1H

PRODUCING FORMATION(S)	DEPTHS		
Marcellus	6594' (TOP)	TVD	7042' (TOP) MD
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 3000 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 9475 mcfpd Oil 48 bpd NGL --- bpd Water 220 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	0		0		

***PLEASE SEE ATTACHED EXHIBIT 3**

Please insert additional pages as applicable.

Drilling Contractor Precision Drilling Company, LP
Address 2640 Reach Rd. City Williamsport State PA Zip 177701

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 Dr. City Jane Lew State WV Zip 26378

Please insert additional pages as applicable.

Completed by Kara Quackenbush Telephone 303-357-7233
Signature *[Signature]* Title Permit Representative Date 6/17/2015

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	16-Jul-14	18,044	18,212	60	Marcellus
2	10-Aug-14	17,845	18,013	60	Marcellus
3	10-Aug-14	17,645	17,813	60	Marcellus
4	10-Aug-14	17,446	17,614	60	Marcellus
5	11-Aug-14	17,247	17,415	60	Marcellus
6	11-Aug-14	17,047	17,215	60	Marcellus
7	11-Aug-14	16,848	17,016	60	Marcellus
8	11-Aug-14	16,649	16,817	60	Marcellus
9	12-Aug-14	16,449	16,617	60	Marcellus
10	12-Aug-14	16,250	16,418	60	Marcellus
11	13-Aug-14	16,051	16,219	60	Marcellus
12	13-Aug-14	15,851	16,019	60	Marcellus
13	11-Sep-14	15,652	15,820	60	Marcellus
14	11-Sep-14	15,453	15,621	60	Marcellus
15	12-Sep-14	15,253	15,422	60	Marcellus
16	12-Sep-14	15,054	15,222	60	Marcellus
17	12-Sep-14	14,855	15,023	60	Marcellus
18	12-Sep-14	14,655	14,824	60	Marcellus
19	13-Sep-14	14,456	14,624	60	Marcellus
20	13-Sep-14	14,257	14,425	60	Marcellus
21	13-Sep-14	14,058	14,226	60	Marcellus
22	14-Sep-14	13,858	14,026	60	Marcellus
23	14-Sep-14	13,659	13,827	60	Marcellus
24	14-Sep-14	13,460	13,628	60	Marcellus
25	15-Sep-14	13,260	13,428	60	Marcellus
26	15-Sep-14	13,061	13,229	60	Marcellus
27	15-Sep-14	12,862	13,030	60	Marcellus
28	15-Sep-14	12,662	12,830	60	Marcellus
29	16-Sep-14	12,463	12,631	60	Marcellus
30	16-Sep-14	12,264	12,432	60	Marcellus
31	16-Sep-14	12,064	12,232	60	Marcellus
32	16-Sep-14	11,865	12,033	60	Marcellus
33	16-Sep-14	11,666	11,834	60	Marcellus
34	17-Sep-14	11,466	11,634	60	Marcellus
35	17-Sep-14	11,267	11,435	60	Marcellus
36	18-Sep-14	11,068	11,236	60	Marcellus
37	18-Sep-14	10,868	11,036	60	Marcellus
38	18-Sep-14	10,669	10,837	60	Marcellus
39	18-Sep-14	10,470	10,638	60	Marcellus
40	19-Sep-14	10,270	10,439	60	Marcellus
41	19-Sep-14	10,071	10,239	60	Marcellus
42	19-Sep-14	9,872	10,040	60	Marcellus
43	19-Sep-14	9,672	9,841	60	Marcellus
44	20-Sep-14	9,473	9,641	60	Marcellus
45	20-Sep-14	9,274	9,442	60	Marcellus
46	20-Sep-14	9,075	9,243	60	Marcellus
47	21-Sep-14	8,875	9,043	60	Marcellus
48	21-Sep-14	8,676	8,844	60	Marcellus
49	21-Sep-14	8,477	8,645	60	Marcellus
50	21-Sep-14	8,277	8,445	60	Marcellus
51	22-Sep-14	8,078	8,246	60	Marcellus
52	22-Sep-14	7,879	8,047	60	Marcellus
53	22-Sep-14	7,679	7,847	60	Marcellus
54	23-Sep-14	7,480	7,648	60	Marcellus
55	23-Sep-14	7,281	7,449	60	Marcellus
56	23-Sep-14	7,081	7,249	60	Marcellus

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API 47-085-10063 Farm Name Quimby, Franklin P. Well Number Hornet 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	48.0	8,994	N/A	6,351	1,500	6,662	N/A
2	10-Aug-14	68.0	7,473	6,509	3,587	219,340	7,246	N/A
3	10-Aug-14	68.7	7,531	5,507	4,671	162,000	5,632	N/A
4	10-Aug-14	64.0	7,608	5,565	4,714	139,620	7,299	N/A
5	11-Aug-14	69.7	7,421	5,291	5,177	168,000	6,181	N/A
6	11-Aug-14	69.1	7,463	5,427	4,541	249,000	7,156	N/A
7	11-Aug-14	71.4	7,802	5,340	4,352	201,180	6,656	N/A
8	13-Aug-14	74.5	7,715	5,007	5,379	247,400	6,515	N/A
9	13-Aug-14	77.5	7,906	5,046	4,939	238,050	6,234	N/A
10	13-Aug-14	76.8	7,882	5,536	4,932	254,000	7,122	N/A
11	13-Aug-14	77.2	7,731	5,554	5,311	183,100	5,639	N/A
12	14-Aug-14	72.5	7,637	5,311	4,669	247,750	6,936	N/A
13	11-Sep-14	67.0	7,019	5,296	4,470	86,780	7,084	N/A
14	11-Sep-14	76.0	7,808	5,282	4,513	181,470	6,670	N/A
15	12-Sep-14	73.0	7,243	5,171	4,728	102,300	7,052	N/A
16	12-Sep-14	66.0	6,833	5,540	4,681	257,840	7,009	N/A
17	12-Sep-14	67.0	6,580	5,393	4,939	254,400	6,998	N/A
18	12-Sep-14	68.0	6,766	5,218	4,896	253,930	6,975	N/A
19	13-Sep-14	67.0	6,721	5,318	4,975	254,180	6,949	N/A
20	13-Sep-14	68.0	6,890	5,976	4,238	254,980	6,937	N/A
21	14-Sep-14	69.0	6,904	5,450	4,821	254,200	6,929	N/A
22	14-Sep-14	67.0	6,805	5,561	4,907	255,960	6,832	N/A
23	14-Sep-14	68.0	6,781	5,372	5,372	254,120	6,864	N/A
24	14-Sep-14	69.0	6,969	5,257	4,499	246,770	6,726	N/A
25	15-Sep-14	68.0	6,730	5,532	5,060	256,160	6,835	N/A
26	15-Sep-14	65.0	6,477	5,486	4,914	193,970	6,861	N/A
27	15-Sep-14	68.0	6,880	5,522	4,878	200,360	6,302	N/A
28	15-Sep-14	67.0	6,755	5,597	4,907	236,330	6,761	N/A
29	16-Sep-14	68.0	7,030	5,500	4,953	256,940	6,784	N/A
30	16-Sep-14	66.0	6,714	5,704	5,254	154,470	6,746	N/A
31	16-Sep-14	66.0	6,724	5,536	5,322	251,950	6,638	N/A
32	16-Sep-14	68.0	6,634	5,311	4,817	255,690	6,695	N/A
33	17-Sep-14	68.0	6,422	5,354	5,128	256,740	6,688	N/A
34	17-Sep-14	67.0	6,482	5,232	5,318	257,000	6,632	N/A
35	18-Sep-14	68.0	6,335	5,111	5,575	255,400	6,658	N/A
36	18-Sep-14	66.0	6,294	5,479	5,271	251,680	6,590	N/A
37	18-Sep-14	67.0	6,395	5,425	6,279	257,420	6,567	N/A
38	18-Sep-14	67.0	6,642	6,087	4,649	255,600	6,554	N/A
39	19-Sep-14	69.0	6,550	5,851	4,714	257,920	6,530	N/A
40	19-Sep-14	68.0	6,648	5,518	4,992	254,860	6,505	N/A
41	19-Sep-14	69.0	6,379	5,171	4,678	263,400	6,478	N/A
42	19-Sep-14	69.0	6,530	5,343	4,588	254,900	6,480	N/A
43	20-Sep-14	68.0	6,409	5,744	4,528	259,340	6,409	N/A
44	20-Sep-14	68.0	6,560	5,493	4,578	243,580	6,174	N/A
45	20-Sep-14	69.0	6,474	5,178	4,656	259,380	6,404	N/A
46	20-Sep-14	68.0	6,406	5,275	4,867	256,140	6,599	N/A
47	21-Sep-14	69.0	6,145	5,193	4,828	254,600	6,457	N/A
48	21-Sep-14	68.0	6,225	5,432	4,846	260,820	6,339	N/A
49	21-Sep-14	67.0	6,265	5,175	4,570	256,640	6,414	N/A
50	21-Sep-14	69.0	6,554	5,289	5,114	255,100	6,371	N/A
51	22-Sep-14	68.0	6,234	5,261	5,075	254,760	6,266	N/A
52	22-Sep-14	75.0	6,368	5,304	5,068	254,020	6,193	N/A
53	23-Sep-14	76.0	6,410	5,246	5,157	253,570	6,185	N/A
54	23-Sep-14	74.0	6,603	5,618	4,939	220,600	6,123	N/A
55	23-Sep-14	69.0	6,412	5,150	4,939	255,150	6,207	N/A
56	23-Sep-14	70.0	6,581	6,055	4,424	229,160	6,433	N/A
AVG=		68.8	6,871	5,438	4,903	12,851,520	370,181	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	49'	N/A	49'	N/A
Sandstone/ Shale	0	307	0	307
Sandstone/ Shale	307	447	307	447
Siltstone/ Shale	447	567	447	567
Shale/ Limestone	567	587	567	587
Siltstone	587	607	587	607
Shale/ Trace Coal	607	647	607	647
Limestone/ Shale	647	707	647	707
Shale/ Siltstone	707	847	707	847
Shale	847	1127	847	1127
Shale/ Limestone	1127	1187	1127	1187
Shale/Limestone/ Trace Coal	1187	1207	1187	1207
Limestone/ Shale	1207	1287	1207	1287
Shale/ Coal	1287	1327	1287	1327
Shale/ Limestone	1327	1387	1327	1387
Shale/ Trace Coal	1387	1407	1387	1407
Shale	1407	1727	1407	1727
Siltstone/Shale	1727	1787	1727	1787
Siltstone/ Trace Coal	1787	1967	1787	1967
Shale/Trace Coal	1967	2007	1967	2007
Siltstone	2007	2120	2007	2120
Big Lime	2120	2220	2120	2220
Big Injun	2220	2579	2220	2579
Gantz Sand	2579	2795	2579	2795
Fifty Foot Sandstone	2795	2860	2795	2860
Gordon	2860	3034	2860	3034
Fifth Sandstone	3034	3145	3034	3145
Bayard	3145	3591	3145	3591
Warren	3591	3978	3591	3979
Speechley	3978	4241	3979	4244
Baltown	4241	4684	4244	4708
Bradford	4684	5068	4708	5132
Benson	5068	5334	5132	5428
Alexander	5334	5511	5428	5625
Elk	5511	5978	5625	6138
Rhinestreet	5978	6272	6138	6468
Sycamore	6272	6431	6468	6685
Middlesex	6431	6539	6685	6887
Burkett	6539	6571	6887	6967
Tully	6571	6594	6967	7042
Marcellus	6594	NA	7042	NA

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	8/10/2014
Job End Date:	9/23/2014
State:	West Virginia
County:	Ritchie
API Number:	47-085-10063-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Hornet Unit 2H
Longitude:	-80.90280300
Latitude:	39.23063100
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	6,635
Total Base Water Volume (gal):	15,547,602
Total Base Non Water Volume:	666,547



Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical 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	90.59259	
Sand	J.S. Well Services, LLC	Proppant	Crystalline Silica, quartz	14808-60-7	100.00000	8.99175	
LGC-15	J.S. Well Services, LLC	Gelling Agents	Guar Gum	9000-30-0	50.00000	0.09709	
			Petroleum Distillates	64742-47-8	60.00000	0.09195	
			Suspending agent (solid)	14808-60-7	3.00000	0.01485	
			Surfactant	68439-51-0	3.00000	0.00583	
HCL Acid (12.6%-18.0%)	J.S. Well Services, LLC	Bulk Acid	Water	7732-18-5	87.50000	0.07704	
			Hydrogen Chloride	7647-01-1	18.00000	0.01962	
WFRA-405	J.S. Well Services, LLC	Friction Reducer	Antionic Polyacrylamide	Proprietary		0.02822	
			Water	7732-18-5	40.00000	0.02822	
			Petroleum Distillates	64742-47-8	22.00000	0.02272	
			Crystalline Salt	12125-02-9	5.00000	0.00353	

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SI-1000	J.S. Well Services, LLC	Scale Inhibitor	Ethoxylated alcohol blend	Proprietary	5.00000	0.00353
			Anionic Copolymer	Proprietary		0.00397
			Ethylene Glycol	107-21-1	20.00000	0.00359
			Water	7732-18-5	30.00000	0.00298
K-BAC 1020	J.S. Well Services, LLC	Anti-Bacterial Agent				
			2,2-dibromo-3-nitropropionamide	10222-01-2	20.00000	0.00595
			Deionized Water	7732-18-5	28.00000	0.00340
AP One	J.S. Well Services, LLC	Gel Breakers				
			Ammonium Persulfate	7727-54-0	100.00000	0.00276
AI-300	J.S. Well Services, LLC	Acid Corrosion Inhibitors				
			Ethylene Glycol	107-21-1	31.00000	0.00012
			N,N-Dimethylformamide	68-12-2	15.00000	0.00004
			Cinnamaldehyde	104-55-2	5.00000	0.00003
			Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7	13.00000	0.00003
			2-Butoxyethanol	111-76-2	7.00000	0.00003
			Ethoxylated Nonylphenol	68412-54-4	5.00000	0.00001
			Water	7732-18-5	20.00000	0.00001
			Triethyl Phosphate	78-40-0	3.00000	0.00001
			Isopropyl Alcohol	67-63-0	3.00000	
AI-301	J.S. Well Services	Acid Corrosion Inhibitors				
			Diethylene Glycol	111-46-6	30.00000	0.00005
			Methenamine	100-97-0	20.00000	0.00004
			Hydrogen Chloride	7647-01-0	10.00000	0.00002
			Polyethylene polyamine	68603-67-8	10.00000	0.00002
			Coco amine	61791-14-8	5.00000	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)

LATITUDE 39°15'00"

7,924'

27' TO BOTTOM HOLE
LATITUDE 39°17'30"

LONGITUDE 80°55'00" 11,280' TO BOTTOM HOLE

LONGITUDE 80°52'30"

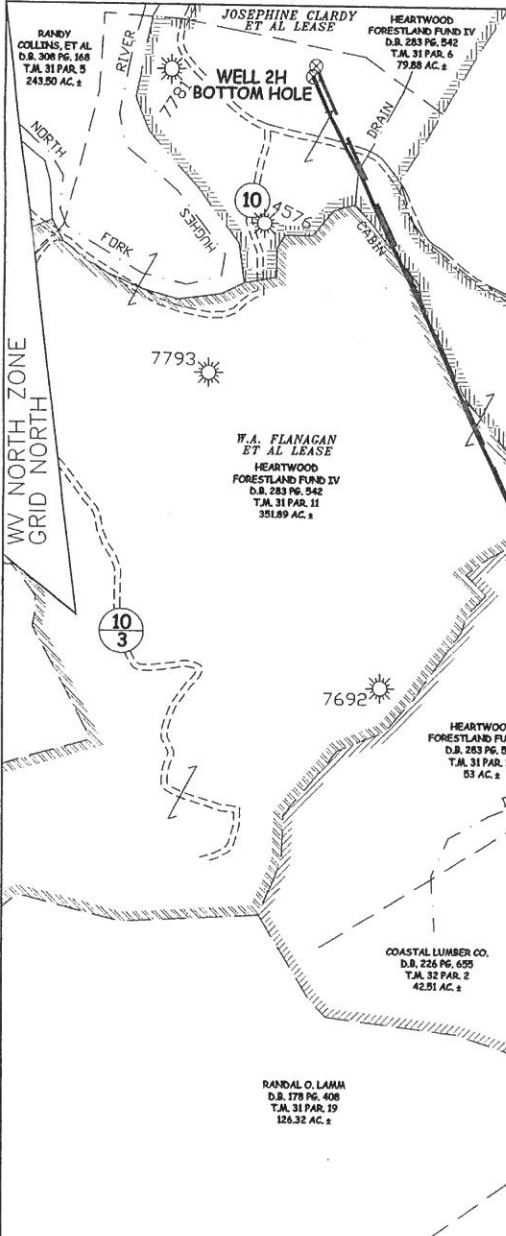
Antero Resources
Appalachian
Well No. Hornet Unit 2H
47-085-10063 (AS DRILLED)



AS DRILLED DATA:
WELL 2H TOP HOLE INFORMATION:
N: 269,186ft E: 1,602,583ft
LAT: 39°13'49.99" LON: 80°54'10.71"
BOTTOM HOLE INFORMATION:
N: 280,225ft E: 1,598,850ft
LAT: 39°15'38.51" LON: 80°55'00.34"
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 2H TOP HOLE INFORMATION:
N: 4,342,376m E: 508,389m
BOTTOM HOLE INFORMATION:
N: 4,345,719m E: 507,196m

- NOTE
1. 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.
 2. TOP HOLE DATA SHOWN HEREIN WAS PROVIDED BY ALLEGHENY SURVEYS, INC.
 3. AS DRILLED DATA WAS PROVIDED BY ANTERO RESOURCES CORPORATION. WLS IS NOT CERTIFYING THE DATA AND INFORMATION PROVIDED LISTED IN NOTES 2 AND 3, ONLY THE RELATIONSHIP TO THE DATA AND INFORMATION PROVIDED TO THE LEASE BOUNDARIES.
 4. WLS IS BY NO MEANS RESPONSIBLE FOR ANY ERRORS OR INACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.



JOB # 13-049WA
DRAWING # HORNETUNIT2HAD
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY SUBMETER
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

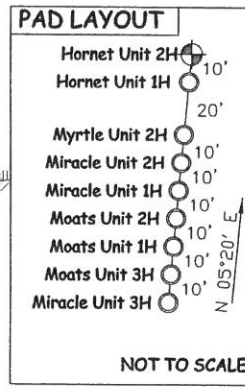
LEGEND
--- Surface Owner Boundary Lines +/-
--- Interior Surface Tracts +/-
--- Existing Fence
--- Found monument, as noted
--- Proposed Well Path
--- As Drilled Well Path

DATE 06/09/15
OPERATOR'S WELL # HORNET UNIT #2H



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	API WELL #	47	085	10063
DEPARTMENT OF ENERGY	STATE COUNTY PERMIT			
DIVISION OF OIL AND GAS	WELL TYPE: OIL GAS <input checked="" type="checkbox"/> LIQUID INJECTION WASTE DISPOSAL			
	(IF "GAS") PRODUCTION <input checked="" type="checkbox"/> STORAGE DEEP SHALLOW <input checked="" type="checkbox"/>			
	LOCATION: ELEVATION 1,217' ORIGINAL - 1,191' AS DRILLED WATERSHED NORTH FORK HUGHES RIVER			
	QUADRANGLE PULLMAN 7.5 (TH) PENNSBORO 7.5 (BH) DISTRICT CLAY COUNTY RITCHIE			
	SURFACE OWNER FRANKLIN P. QUIMBY ACREAGE 23 ACRES +/-			
	OIL & GAS ROYALTY OWNER LAWRENCE C. HEIM ET AL; W.M. VANCAMPEN; ANN BATTA ET AL; M.B. NUTTER ET UX; W.A. FLANAGAN ET AL; JOSEPHINE CLARDY ET AL			
	LEASE ACREAGE 53 ACRES±; 312 ACRES±; 111 ACRES±; 400 ACRES±; 176.9 ACRES±; 243 ACRES±			
	PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE			
	PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL			
	(SPECIFY) <input checked="" type="checkbox"/> AS DRILLED PLUG & ABANDON CLEAN OUT & REPLUG			
	TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,497' TVD 18,302' MD			
	WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER			
	ADDRESS 1615 WYNKOOP STREET ADDRESS CT CORPORATION SYSTEM			
	FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313			



COUNTY NAME PERMIT