

JUN 01 2015

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 - 085 - 10028 County Ritchie District Clay  
Quad Pennsboro 7.5' Pad Name Annie Horizontal Pad Field/Pool Name \_\_\_\_\_  
Farm name Annie Haymond (Life) et al Well Number Belle 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 4,353,116m Easting 506,438m  
Landing Point of Curve Northing 4,353,348.69m Easting 506,395.29m  
Bottom Hole Northing 4,355,177m Easting 504,957m

Elevation (ft) 1004' 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 5/9/2013 Date drilling commenced 4/11/2014 Date drilling ceased 5/5/2014  
Date completion activities began 6/18/2014 Date completion activities ceased 11/5/2014  
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 216' 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 176', 316', 516', 976', 1056', 1716' Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

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

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API 47-085 - 10028 Farm name Annie Haymond (Life) et al Well number Belle 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#/J-55	N/A	Y
Surface	17-1/2"	13-3/8"	435'	New	48#/H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2699'	New	36#/J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	14,458'	New	23#/P-110	N/A	
Tubing		2-3/8"	6450'		5.95#/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	196 sx	15.6	1.18	38 Cu. Ft.	0'	8 hrs
Surface	Class A	502 sx	15.6	1.18	302 Cu. Ft.	0'	8 hrs
Coal							
Intermediate 1	Class A	1049 sx	15.6	1.18	845 Cu. Ft.	0'	8 hrs
Intermediate 2							
Intermediate 3							
Production	Class H	781 sx (Lead), 1314 sx (Tail)	13.5 (Lead), 15.2 (Tail)	1.44 (Lead), 1.80 (Tail)	2809 Cu. Ft.	~500' into Intermediate Casing	8 hrs
Tubing							

Drillers TD (ft) 14,463' MD, 6342' TVD (BHL), 6350' TVD (Deepest Point Drilled) Loggers TD (ft) 14,318' MD

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

Plug back procedure N/A

Kick off depth (ft) 5699'

\*\* This is a subsequent well. Antero only runs wireline logs on one well on a multi-well pad (Belle Unit 3H API# 47-085-10029). Please reference the wireline logs submitted with Form WR-35 for the Belle Unit 3H. 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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PRODUCING FORMATION(S)	DEPTHS		
<u>Marcellus</u>	<u>6292' (Top)</u>	<u>TVD</u>	<u>6516' (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 3000 psi Bottom Hole 3000 psi DURATION OF TEST --- hrs

OPEN FLOW Gas 6190 mcfpd Oil 8 bpd NGL --- bpd Water 168 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 <sub>2</sub> S, ETC)
	<u>0</u>		<u>0</u>		

**\*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 Allied Oil & Gas Services, LLC  
Address 1036 East Main Street City Bridgeport State WV Zip 26330

Stimulating Company Nabors Completion & Production Services, Co.  
Address 1650 Hackers Creek 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 5/22/2015

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

API 47-085-10028 Farm Name Annie Haymond (Life) et al Well Number Belle Unit 2H

**EXHIBIT 1**

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	18-Jun-14	14244'	14372'	60	Marcellus
2	13-Jul-14	14093'	14221'	60	Marcellus
3	4-Sep-14	13943'	14070'	60	Marcellus
3.1	4-Sep-14	13943'	14070'	60	Marcellus
4	4-Sep-14	13792'	13920'	60	Marcellus
5	4-Sep-14	13642'	13769'	60	Marcellus
6	5-Sep-14	13491'	13618'	60	Marcellus
7	5-Sep-14	13340'	13468'	60	Marcellus
8	5-Sep-14	13190'	13317'	60	Marcellus
9	6-Sep-14	13039'	13166'	60	Marcellus
10	6-Sep-14	12888'	13016'	60	Marcellus
11	6-Sep-14	12738'	12865'	60	Marcellus
12	6-Sep-14	12587'	12714'	60	Marcellus
13	7-Sep-14	12436'	12564'	60	Marcellus
14	7-Sep-14	12286'	12413'	60	Marcellus
15	7-Sep-14	12135'	12262'	60	Marcellus
16	8-Sep-14	11984'	12112'	60	Marcellus
17	8-Sep-14	11834'	11961'	60	Marcellus
18	8-Sep-14	11683'	11810'	60	Marcellus
19	9-Sep-14	11532'	11660'	60	Marcellus
20	9-Sep-14	11382'	11509'	60	Marcellus
21	9-Sep-14	11231'	11358'	60	Marcellus
22	9-Sep-14	11080'	11208'	60	Marcellus
23	10-Sep-14	10930'	11057'	60	Marcellus
24	10-Sep-14	10779'	10907'	60	Marcellus
25	10-Sep-14	10628'	10756'	60	Marcellus
26	10-Sep-14	10478'	10605'	60	Marcellus
27	11-Sep-14	10327'	10455'	60	Marcellus
28	11-Sep-14	10176'	10304'	60	Marcellus
29	11-Sep-14	10026'	10153'	60	Marcellus
30	11-Sep-14	9875'	10003'	60	Marcellus
31	12-Sep-14	9724'	9852'	60	Marcellus
32	12-Sep-14	9574'	9701'	60	Marcellus
33	12-Sep-14	9423'	9551'	60	Marcellus
34	12-Sep-14	9272'	9400'	60	Marcellus
35	12-Sep-14	9122'	9249'	60	Marcellus
36	13-Sep-14	8971'	9099'	60	Marcellus
37	13-Sep-14	8820'	8948'	60	Marcellus
38	13-Sep-14	8670'	8797'	60	Marcellus
39	13-Sep-14	8519'	8647'	60	Marcellus
40	13-Sep-14	8368'	8496'	60	Marcellus
41	14-Sep-14	8218'	8345'	60	Marcellus
42	14-Sep-14	8067'	8195'	60	Marcellus
43	14-Sep-14	7916'	8044'	60	Marcellus
44	14-Sep-14	7766'	7893'	60	Marcellus
45	15-Sep-14	7615'	7743'	60	Marcellus
46	15-Sep-14	7464'	7592'	60	Marcellus
47	15-Sep-14	7314'	7441'	60	Marcellus
48	15-Sep-14	7163'	7291'	60	Marcellus
49	16-Sep-14	7012'	7140'	60	Marcellus
50	16-Sep-14	6862'	6989'	60	Marcellus
51	16-Sep-14	6711'	6839'	60	Marcellus
52	16-Sep-14	6560'	6688'	60	Marcellus

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API 47-085-10028 Farm Name Annie Haymond (Life) et al. Well Number Belle 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 (bbbls)	Amount of Nitrogen/ other (units)
1	12-Jul-14	65.7	8,002	5,961	4,204	121,100	6,291	N/A
2	13-Jul-14	42.3	8,662	0	58	9,400	5,390	N/A
3	14-Jul-14	60.0	7,969	5,709	7,202	8,600	2,840	N/A
3.1	4-Sep-14	40.2	7,556	6,856	4,777	14,200	6,624	N/A
4	4-Sep-14	54.1	7,233	7,493	4,436	174,500	6,148	N/A
5	4-Sep-14	68.8	6,834	5,850	4,464	164,000	6,626	N/A
6	5-Sep-14	65.6	6,830	5,754	4,469	168,300	6,138	N/A
7	5-Sep-14	61.9	6,407	6,016	3,967	235,500	6,392	N/A
8	5-Sep-14	65.1	6,543	6,526	4,431	189,600	6,572	N/A
9	6-Sep-14	60.9	6,410	6,282	4,798	225,800	6,357	N/A
10	6-Sep-14	56.3	6,380	6,013	4,577	225,200	6,579	N/A
11	6-Sep-14	63.9	6,607	6,013	4,701	220,200	6,161	N/A
12	6-Sep-14	63.8	6,583	5,795	4,880	212,100	6,195	N/A
13	7-Sep-14	61.5	6,274	5,685	4,971	216,100	5,940	N/A
14	7-Sep-14	64.9	6,414	5,579	4,208	218,800	6,111	N/A
15	7-Sep-14	62.8	6,714	6,325	4,288	233,300	6,633	N/A
16	8-Sep-14	56.6	6,530	5,855	4,325	232,500	6,219	N/A
17	8-Sep-14	58.8	6,293	5,630	4,653	236,500	6,182	N/A
18	8-Sep-14	64.0	6,551	6,124	5,058	232,000	6,485	N/A
19	9-Sep-14	61.6	6,569	5,850	4,654	231,900	6,154	N/A
20	9-Sep-14	61.3	6,276	5,868	4,684	231,100	6,071	N/A
21	9-Sep-14	63.3	6,432	6,106	4,756	229,100	6,195	N/A
22	9-Sep-14	63.9	6,395	5,612	4,648	232,300	6,103	N/A
23	10-Sep-14	62.1	6,243	5,539	4,365	231,500	6,042	N/A
24	10-Sep-14	61.6	6,323	5,356	4,542	232,400	6,053	N/A
25	10-Sep-14	62.5	6,297	5,830	4,818	229,200	6,149	N/A
26	10-Sep-14	61.7	6,172	5,479	4,929	229,200	6,004	N/A
27	11-Sep-14	63.2	6,320	5,685	4,389	230,100	5,971	N/A
28	11-Sep-14	60.7	6,006	5,210	4,328	230,300	5,979	N/A
29	11-Sep-14	64.7	6,243	5,100	4,974	233,900	6,041	N/A
30	11-Sep-14	63.6	6,127	5,134	5,096	231,300	6,033	N/A
31	12-Sep-14	62.3	6,059	5,150	4,693	225,300	5,893	N/A
32	12-Sep-14	64.2	6,109	5,374	4,630	215,800	5,649	N/A
33	12-Sep-14	61.1	6,174	5,539	4,623	215,400	5,656	N/A
34	12-Sep-14	65.4	6,067	5,757	5,225	217,900	5,622	N/A
35	12-Sep-14	64.7	6,046	5,515	5,178	216,000	5,615	N/A
36	13-Sep-14	65.3	6,092	5,667	4,652	216,100	5,547	N/A
37	13-Sep-14	65.9	6,242	5,765	4,683	216,400	5,527	N/A
38	13-Sep-14	70.1	6,329	5,266	4,829	209,700	5,495	N/A
39	13-Sep-14	64.2	6,284	5,391	5,115	212,300	5,498	N/A
40	13-Sep-14	67.9	5,967	5,625	4,938	211,800	5,411	N/A
41	14-Sep-14	72.2	6,051	5,486	4,947	214,600	5,502	N/A
42	14-Sep-14	65.4	5,910	5,539	4,909	167,500	5,850	N/A
43	14-Sep-14	65.9	5,942	5,648	4,676	220,300	5,969	N/A
44	1-Sep-14	71.9	6,084	5,684	5,221	217,300	5,568	N/A
45	15-Sep-14	75.1	6,159	5,338	4,824	216,400	5,417	N/A
46	15-Sep-14	75.7	6,047	5,429	4,846	138,300	5,405	N/A
47	15-Sep-14	70.6	5,940	5,669	5,058	214,300	5,383	N/A
48	15-Sep-14	64.9	5,987	5,574	5,030	211,000	5,316	N/A
49	16-Sep-14	70.6	5,871	5,237	4,290	215,100	5,361	N/A
50	16-Sep-14	69.9	5,814	5,173	4,116	215,800	5,355	N/A
51	16-Sep-14	67.1	5,781	5,429	4,410	218,200	5,298	N/A
52	16-Sep-14	62.4	6,186	5,539	3,446	213,100	5,231	N/A
AVG=		63.6	6,403	5,604	4,622	10,728,600	310,246	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	216	N/A	216	N/A
Silty Shale	0	176	0	176
Coal	176	236	176	236
Sandstone	236	316	236	316
Coal	316	376	316	376
Sandstone	376	396	376	396
Silty Shale	396	416	396	416
Sandstone	416	516	416	516
Coal	516	576	516	576
Sandstone	576	616	576	616
Sandy Shale	616	736	616	736
Shale	736	776	736	776
Sandy Siltstone	776	876	776	876
Shale	876	926	876	926
Sandstone	926	976	926	976
Coal	976	1,036	976	1,036
Shale	1,036	1,056	1,036	1,056
Coal	1,056	1,246	1,056	1,246
Shale	1,246	1,336	1,246	1,336
Sandstone	1,336	1,416	1,336	1,416
Shale	1,416	1,516	1,416	1,516
Sandy Siltstone/Coal	1,516	1,596	1,516	1,596
Silty Sandstone	1,596	1,716	1,596	1,716
Coal	1,716	1,776	1,716	1,776
Sandy Shale/Coal	1,776	1,857	1,776	1,857
Big Lime	1,857	1,986	1,857	1,986
Big Injun	1,986	2,764	1,986	2,764
Fifty Foot Sandstone	2,764	2,840	2,764	2,840
Gordon	2,840	2,934	2,840	2,934
Bayard	2,934	3,417	2,934	3,418
Warren	3,417	4,010	3,418	4,014
Baltown	4,010	4,476	4,014	4,480
Bradford	4,476	4,846	4,480	4,850
Benson	4,846	5,105	4,850	5,109
Alexander	5,105	5,401	5,109	5,405
Elk	5,401	5,706	5,405	5,710
Rhinestreet	5,706	6,033	5,710	6,070
Sycamore	6,033	6,131	6,070	6,195
Middlesex	6,131	6,239	6,195	6,365
Burkett	6,239	6,268	6,365	6,437
Tully	6,268	6,292	6,437	6,516
Marcellus	6,292	NA	6,516	NA



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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	7/12/2014
Job End Date:	9/16/2014
State:	West Virginia
County:	Ritchie
API Number:	47-085-10028-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Belle 2H
Longitude:	-80.92547800
Latitude:	39.32735300
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	6,342
Total Base Water Volume (gal):	13,030,332
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	Water	Water	7732-18-5	100.00000	90.77986	
WV Specific 40/70 mesh Sand	Nabors Completion and Production Services	Sand - Bulk - West Virginia	Crystalline Silica, quartz	14808-60-7	99.90000	5.20219	
			Aluminum Oxide	1344-28-1	1.10000	0.05728	
			Iron Oxide	1309-37-1	0.10000	0.00521	
			Titanium Oxide	13463-67-7	0.10000	0.00521	
WV Specific 20/40 mesh Sand	Nabors Completion and Production Services	Sand - Bulk - West Virginia	Crystalline Silica, quartz	14808-60-7	99.90000	3.17032	
			Aluminum Oxide	1344-28-1	1.10000	0.03491	
			Iron Oxide	1309-37-1	0.10000	0.00317	
			Titanium Oxide	13463-67-7	0.10000	0.00317	
WV Specific 100 mesh Sand	Nabors Completion and Production Services	Sand - Bulk - West Virginia	Crystalline Silica, quartz	14808-60-7	99.90000	0.58174	
			Aluminum Oxide	1344-28-1	1.10000	0.00641	



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				Titanium Oxide	13463-67-7	0.10000	0.00058	
LSG-100L	Nabors Completion and Production Services	Gelling Agents		Iron Oxide	1309-37-1	0.10000	0.00058	
WFR-6W	Nabors Completion and Production Services	Friction Reducer		Petroleum Distillates	64742-47-8	70.00000	0.07619	
HCl Acid (12.5-18.0%) 22 Baume	Nabors Completion and Production Services	Bulk Acid		Water	7732-18-5	40.00000	0.02879	
HCl Acid (12.5-18.0%) 22 Baume	Nabors Completion and Production Services	Bulk Acid		Water	7732-18-5	100.00000	0.02123	
KR-153SL	Nabors Completion and Production Services	Biocides		22° Baume Hydrochloric Acid	7647-01-0	100.00000	0.01737	
				Polyethylene-Glycol	25322-68-3	50.00000	0.00602	
				2,2-dibromo-3-nitripropionamide	10222-01-2	20.00000	0.00241	
WFR-3B	Nabors Completion and Production Services	Friction Reducer		Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8	30.00000	0.00199	
				Ethoxylated alcohols	68002-97-1	15.00000	0.00099	
				Ethoxylated oleylamine	26635-93-8	5.00000	0.00033	
Super GREEN SOLV-M	Nabors Completion and Production Services	Paraffin & Scale Additives		Aliphatic Hydrocarbons	Proprietary	95.00000	0.00162	
				Dodecane	Proprietary	14.00000	0.00024	
				tetradecane	Proprietary	11.00000	0.00019	
				Tridecane	Proprietary	9.00000	0.00015	
				Undecane	Proprietary	8.00000	0.00014	
Super TSC 2 LT	Nabors Completion and Production Services	Paraffin & Scale Additives		Bis(hexamethylene)triamine Penta (methylene phosphonic acid), Sodium Salt	35657-77-3	15.00000	0.00227	
OB-2 LT	Nabors Completion and Production Services	Gel Breakers		Ammonium Persulfate	7727-54-0	85.00000	0.00082	
Acid Inhibitor 2 (AI-2)	Nabors Completion and Production Services	Acid Corrosion Inhibitors		Crystalline Silica (in the form of quartz)	14808-60-7	10.00000	0.00010	



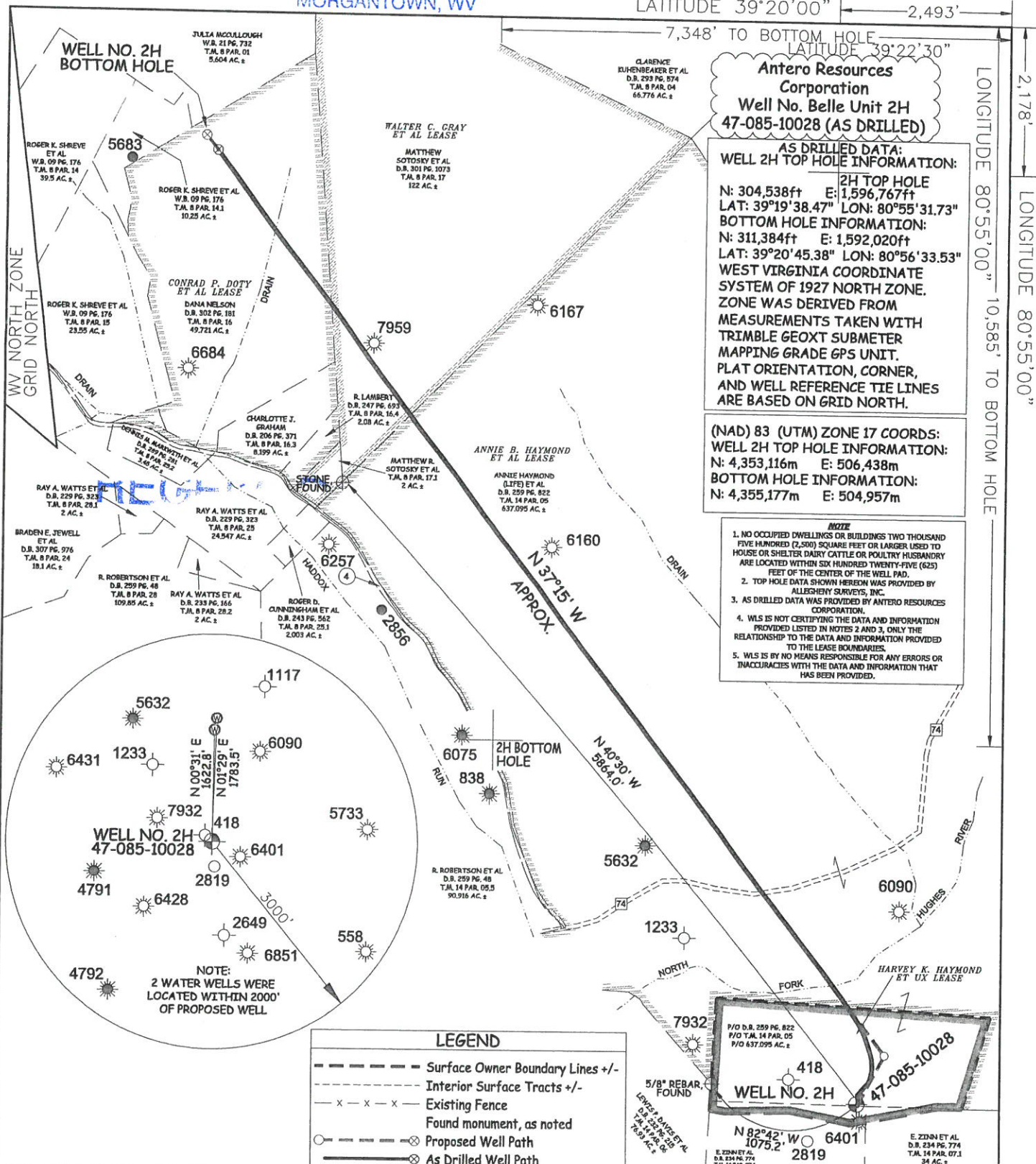




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LATITUDE 39°20'00"

2,493'



**Antero Resources Corporation**  
**Well No. Belle Unit 2H**  
**47-085-10028 (AS DRILLED)**

**AS DRILLED DATA:**  
**WELL 2H TOP HOLE INFORMATION:**  
**2H TOP HOLE**  
N: 304,538ft E: 1,596,767ft  
LAT: 39°19'38.47" LON: 80°55'31.73"  
**BOTTOM HOLE INFORMATION:**  
N: 311,384ft E: 1,592,020ft  
LAT: 39°20'45.38" LON: 80°56'33.53"  
**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: 4,353,116m E: 506,438m  
**BOTTOM HOLE INFORMATION:**  
N: 4,355,177m E: 504,957m

**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 HEREON WAS PROVIDED BY ALLEGHENY SURVEYS, INC.  
3. AS DRILLED DATA WAS PROVIDED BY ANTERO RESOURCES CORPORATION.  
4. 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.  
5. WLS IS BY NO MEANS RESPONSIBLE FOR ANY ERRORS OR INACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.

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**LEGEND**

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

**PAD LAYOUT**

5/8" REBAR FOUND

WELL NO. 2H 47-085-10028

NOT TO SCALE

JOB # 12-160WA  
DRAWING # BELLE2HAD  
SCALE 1" = 1000'  
MINIMUM DEGREE OF ACCURACY SUBMETER  
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

WILLOW LAND SURVEYING PLLC  
P.O. BOX 17  
PENNSBORO, WV 26415

DATE 05/18/15  
OPERATOR'S WELL # BELLE UNIT #2H  
API WELL # 47-085-10028  
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

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

LOCATION: ELEVATION 1,005' ORIGINAL - 1,004' AS-DRILLED WATERSHED NORTH FORK HUGHES RIVER  
QUADRANGLE PENNSBORO 7.5' DISTRICT CLAY COUNTY RITCHIE

SURFACE OWNER ANNIE HAYMOND (LIFE) ET AL ACREAGE 637.095 ACRES +/-  
OIL & GAS ROYALTY OWNER HARVEY K. HAYMOND ET UX; ANNIE HAYMOND ET AL; LEASE ACRES 33 ACRES±; 639.06 ACRES±; WALTER C. GRAY ET AL; CONRAD P. DOTY ET AL 124 ACRES±; 60 ACRES±

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION   
OTHER PHYSICAL CHANGE IN WELL (SPECIFY) (X) AS DRILLED

PLUG & ABANDON  CLEAN OUT & REPLUG  ESTIMATED DEPTH 6,342' TVD 14,463' MD  
TARGET FORMATION MARCELLUS

WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER  
ADDRESS 1615 WYNKOOP STREET ADDRESS CT CORPORATION SYSTEM  
DENVER, CO 80202 5400 D BIG TYLER ROAD  
CHARLESTON, WV 25313