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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 47-085-10088 County Ritchie District Clay  
Quad Pennsboro 7.5' Pad Name Charlene Pad Field/Pool Name -----  
Farm name Linda C. Dewberry Trust Well Number Hendershot 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 4,350,021m Easting 503,152m  
Landing Point of Curve Northing 4,350,058.46m Easting 503,496.20m  
Bottom Hole Northing 4,347,746m Easting 504,433m

Elevation (ft) 1118' 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 3/12/2014 Date drilling commenced 4/23/2014 Date drilling ceased 6/23/2014  
Date completion activities began 7/10/2014 Date completion activities ceased 9/30/2014  
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 250', 260' Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 1017', 1613', 3233' Void(s) encountered (Y/N) depths N  
Coal depth(s) ft None Identified 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 - 10088 Farm name Linda C. Dewberry Trust Well number Hendershot 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"	520'	New	48#/H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2715'	New	36#/J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	15,270'	New	23#/P-110	N/A	Y
Tubing		2-3/8"	6694'		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 <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	Class A	157 sx	15.6	1.18	38 Cu. Ft.	0'	8 hrs
Surface	Class A	604 sx	15.6	1.18	361 Cu. Ft.	0'	8 hrs
Coal							
Intermediate 1	Class A	992 sx	15.6	1.18	850 Cu. Ft.	0'	8 hrs
Intermediate 2							
Intermediate 3							
Production	Class H	1011 sx (Lead), 1365 sx (Tail)	13.5 (Lead), 15.2 (Tail)	1.44 (Lead), 1.80 (Tail)	2991 Cu. Ft.	~500' into Intermediate Casing	8 hrs
Tubing							

Drillers TD (ft) 15,270' MD, 6419' TVD (BHL), 6425' TVD (Deepest Point Drilled) Loggers TD (ft) 15,210' MD  
Deepest formation penetrated Marcellus Plug back to (ft) N/A  
Plug back procedure N/A

Kick off depth (ft) 6286'

Check all wireline logs run  caliper  density  deviated/directional  induction  
 neutron  resistivity  gamma ray  temperature

\*\* This is a subsequent well. Antero only runs wireline logs on one well on a multi-well pad (Hendershot Unit 1H API# 47-085-10060). Please reference the wireline logs submitted with Form WR-35 for the Hendershot Unit 1H. A Cement Bond Log has been included with this submittal.

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





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API 47- 085 - 10088 Farm name Linda C. Dewberry Trust Well number Hendershot Unit 2H

PRODUCING FORMATION(S)	DEPTHS	
<u>Marcellus</u>	<u>6364' (Top)</u> TVD	<u>6782' (Top)</u> 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 537 mcfpd Oil ---- bpd NGL ---- bpd Water 5 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 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 6/2/2015

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API 47-085-10088 Farm Name Dewberry, Linda C. Trust Well Number Hendershot Unit 2H

**EXHIBIT 1**

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	10-Jul-14	15012'	15180'	60	Marcellus
2	18-Aug-14	14812'	14980'	60	Marcellus
3	19-Aug-14	14612'	14781'	60	Marcellus
4	20-Aug-14	14413'	14581'	60	Marcellus
5	20-Aug-14	14213'	14382'	60	Marcellus
6	20-Aug-14	14013'	14182'	60	Marcellus
7	20-Aug-14	13814'	13982'	60	Marcellus
8	21-Aug-14	13614'	13783'	60	Marcellus
9	21-Aug-14	13415'	13583'	60	Marcellus
10	21-Aug-14	13215'	13383'	60	Marcellus
11	22-Aug-14	13015'	13184'	60	Marcellus
12	22-Aug-14	12816'	12984'	60	Marcellus
13	22-Aug-14	12616'	12784'	60	Marcellus
14	23-Aug-14	12416'	12585'	60	Marcellus
15	24-Aug-14	12217'	12385'	60	Marcellus
16	24-Aug-14	12017'	12185'	60	Marcellus
17	25-Aug-14	11817'	11986'	60	Marcellus
18	25-Aug-14	11618'	11786'	60	Marcellus
19	26-Aug-14	11418'	11586'	60	Marcellus
20	26-Aug-14	11218'	11387'	60	Marcellus
21	27-Aug-14	11019'	11187'	60	Marcellus
22	27-Aug-14	10819'	10987'	60	Marcellus
23	27-Aug-14	10819'	10,987	60	Marcellus
24	28-Aug-14	10420'	10588'	60	Marcellus
25	28-Aug-14	10220'	10389'	60	Marcellus
26	28-Aug-14	10020'	10189'	60	Marcellus
27	29-Aug-14	9821'	9989'	60	Marcellus
28	29-Aug-14	9621'	9790'	60	Marcellus
29	29-Aug-14	9422'	9590'	60	Marcellus
30	30-Aug-14	9222'	9390'	60	Marcellus
31	30-Aug-14	9022'	9191'	60	Marcellus
32	30-Aug-14	8823'	8991'	60	Marcellus
33	30-Aug-14	8623'	8791'	60	Marcellus
34	31-Aug-14	8423'	8592'	60	Marcellus
35	31-Aug-14	8224'	8392'	60	Marcellus
36	31-Aug-14	7824'	7993'	60	Marcellus
37	31-Aug-14	7824'	7993'	60	Marcellus
38	1-Sep-14	7625'	7793'	60	Marcellus
39	1-Sep-14	7425'	7593'	60	Marcellus
40	1-Sep-14	7225'	7394'	60	Marcellus
41	1-Sep-14	7026'	7194'	60	Marcellus
42	2-Sep-14	6826'	6994'	60	Marcellus



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API 47-085-10088 Farm Name Dewberry, Linda C. Trust Well Number Hendershot 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	17-Aug-14	76.0	7,031	N/A	5,377	312,660	8,375	N/A
2	18-Aug-14	76.0	7,126	5,217	4,791	294,460	8,539	N/A
3	19-Aug-14	75.0	7,230	5,832	3,248	317,680	8,237	N/A
4	20-Aug-14	76.0	6,980	5,099	5,019	269,360	8,120	N/A
5	20-Aug-14	75.8	7,576	5,170	4,457	266,460	8,867	N/A
6	20-Aug-14	73.1	6,799	5,623	3,227	318,330	8,086	N/A
7	20-Aug-14	74.0	7,311	5,409	4,711	283,970	8,842	N/A
8	21-Aug-14	75.0	7,174	5,256	5,252	272,680	8,353	N/A
9	21-Aug-14	74.5	6,750	5,231	3,144	318,770	8,027	N/A
10	21-Aug-14	82.0	6,776	4,927	5,034	267,950	8,805	N/A
11	22-Aug-14	78.4	6,702	5,355	4,542	310,320	7,943	N/A
12	22-Aug-14	76.5	6,412	5,173	3,177	314,300	7,968	N/A
13	22-Aug-14	75.0	6,621	5,664	3,322	292,130	7,945	N/A
14	24-Aug-14	77.8	6,477	5,348	3,479	300,430	8,087	N/A
15	24-Aug-14	77.8	6,477	5,348	3,479	300,430	8,087	N/A
16	24-Aug-14	81.4	6,647	5,391	4,316	295,570	8,652	N/A
17	25-Aug-14	77.1	6,296	5,201	4,203	319,790	7,842	N/A
18	25-Aug-14	76.0	6,523	6,044	4,219	321,840	8,020	N/A
19	26-Aug-14	78.4	6,411	5,096	4,266	316,380	7,916	N/A
20	26-Aug-14	76.0	6,202	4,824	4,723	316,160	7,985	N/A
21	27-Aug-14	78.0	6,288	5,190	3,831	321,460	7,951	N/A
22	27-Aug-14	77.0	6,774	5,243	4,555	261,200	8,413	N/A
23	27-Aug-14	72.0	6,417	5,050	4,978	219,800	8,566	N/A
24	28-Aug-14	78.0	6,529	5,717	4,452	275,853	8,543	N/A
25	28-Aug-14	77.8	6,306	5,138	3,139	319,970	7,755	N/A
26	28-Aug-14	72.0	6,228	5,218	4,510	281,220	8,503	N/A
27	29-Aug-14	77.1	6,137	5,296	3,343	317,790	7,928	N/A
28	29-Aug-14	75.9	6,242	5,320	4,273	254,280	7,631	N/A
29	29-Aug-14	76.0	6,078	5,483	4,327	324,240	7,714	N/A
30	30-Aug-14	78.0	6,327	4,970	4,478	319,640	7,815	N/A
31	30-Aug-14	76.6	6,105	5,225	3,989	314,260	7,710	N/A
32	30-Aug-14	76.7	5,902	4,843	4,837	312,040	7,754	N/A
33	30-Aug-14	76.0	5,967	4,882	5,302	318,980	7,753	N/A
34	31-Aug-14	76.0	5,899	4,841	4,774	322,140	7,718	N/A
35	31-Aug-14	75.8	5,939	4,951	4,537	321,630	7,691	N/A
36	31-Aug-14	76.6	6,079	4,822	5,028	317,450	7,687	N/A
37	31-Aug-14	78.0	5,795	4,895	4,783	322,260	7,628	N/A
38	1-Sep-14	77.0	6,105	5,174	5,335	326,940	7,662	N/A
39	1-Sep-14	76.0	6,055	5,196	5,191	300,825	7,519	N/A
40	1-Sep-14	75.0	5,837	5,049	5,369	308,150	7,591	N/A
41	1-Sep-14	78.0	6,003	4,970	5,409	328,300	7,558	N/A
42	1-Sep-14	78.0	6,003	4,970	5,409	328,300	7,558	N/A
	AVG=	<b>76.5</b>	<b>6,441</b>	<b>5,211</b>	<b>4,425</b>	<b>12,726,398</b>	<b>337,344</b>	<b>TOTAL</b>

## 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	250	N/A	250	N/A
Fresh Water	260	N/A	260	N/A
Shale/Siltstone	0	297	0	297
Siltstone w/ Trace Coal	est. 297	357	est. 297	357
Siltstone/Sandstone	est. 357	497	est. 357	497
Shale w/ Trace Coal	est. 497	517	est. 497	517
Shale/Siltstone	est. 517	977	est. 517	977
Sandstone	est. 977	1,017	est. 977	1,017
Shale	est. 1017	1,057	est. 1017	1,057
Sandstone	est. 1057	1,217	est. 1057	1,217
Shale w/ Coal	est. 1217	1,257	est. 1217	1,257
Sandstone/Siltstone/Shale	est. 1257	1,950	est. 1257	1,950
Big Lime	1,950	2,102	1,950	2,102
Big Injun	2,102	2,869	2,102	2,869
Fifty Foot Sandstone	2,869	2,970	2,869	2,970
Gordon	2,970	3,113	2,970	3,113
Bayard	3,113	3,578	3,113	3,578
Warren	3,578	4,162	3,578	4,167
Baltown	4,162	4,574	4,167	4,607
Bradford	4,574	4,977	4,607	5,062
Benson	4,977	5,205	5,062	5,320
Alexander	5,205	5,537	5,320	5,696
Elk	5,537	5,788	5,696	5,978
Rhinestreet	5,788	6,123	5,978	6,350
Sycamore	6,123	6,216	6,350	6,471
Middlesex	6,216	6,319	6,471	6,655
Burkett	6,319	6,344	6,655	6,718
Tully	6,344	6,364	6,718	6,782
Marcellus	6,364	NA	6,782	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.

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**Hydraulic Fracturing Fluid Product Component Information Disclosure**



Job Start Date:	8/17/2014
Job End Date:	9/2/2014
State:	West Virginia
County:	Ritchie
API Number:	47-085-10088-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Hendershot Unit 2H
Longitude:	-80.96361400
Latitude:	39.29948300
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	6,425
Total Base Water Volume (gal):	14,188,188
Total Base Non Water Volume:	631,730

**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	90.06503	
Sand	U.S. Well Services, LLC	Proppant					
LGC-15	U.S. Well Services, LLC	Gelling Agents	Crystalline Silica, quartz	14808-60-7	100.00000	9.63790	
			Guar Gum	9000-30-0	50.00000	0.05498	
			Petroleum Distillates	64742-47-8	60.00000	0.05207	
			Suspending agent (solid)	14808-60-7	3.00000	0.00841	
			Surfactant	68439-51-0	3.00000	0.00330	
HCL Acid (12.6%-18.0%)	U.S. Well Services, LLC	Bulk Acid					
			Water	7732-18-5	87.50000	0.06867	
			Hydrogen Chloride	7647-01-0	18.00000	0.01640	
WFRA-405	U.S. Well Services, LLC	Friction Reducer					
			Water	7732-18-5	40.00000	0.02398	
			Anionic Polyacrylamide	Proprietary		0.02398	
			Petroleum Distillates	64742-47-8	22.00000	0.01930	
			Ethoxylated alcohol blend	Proprietary	5.00000	0.00300	



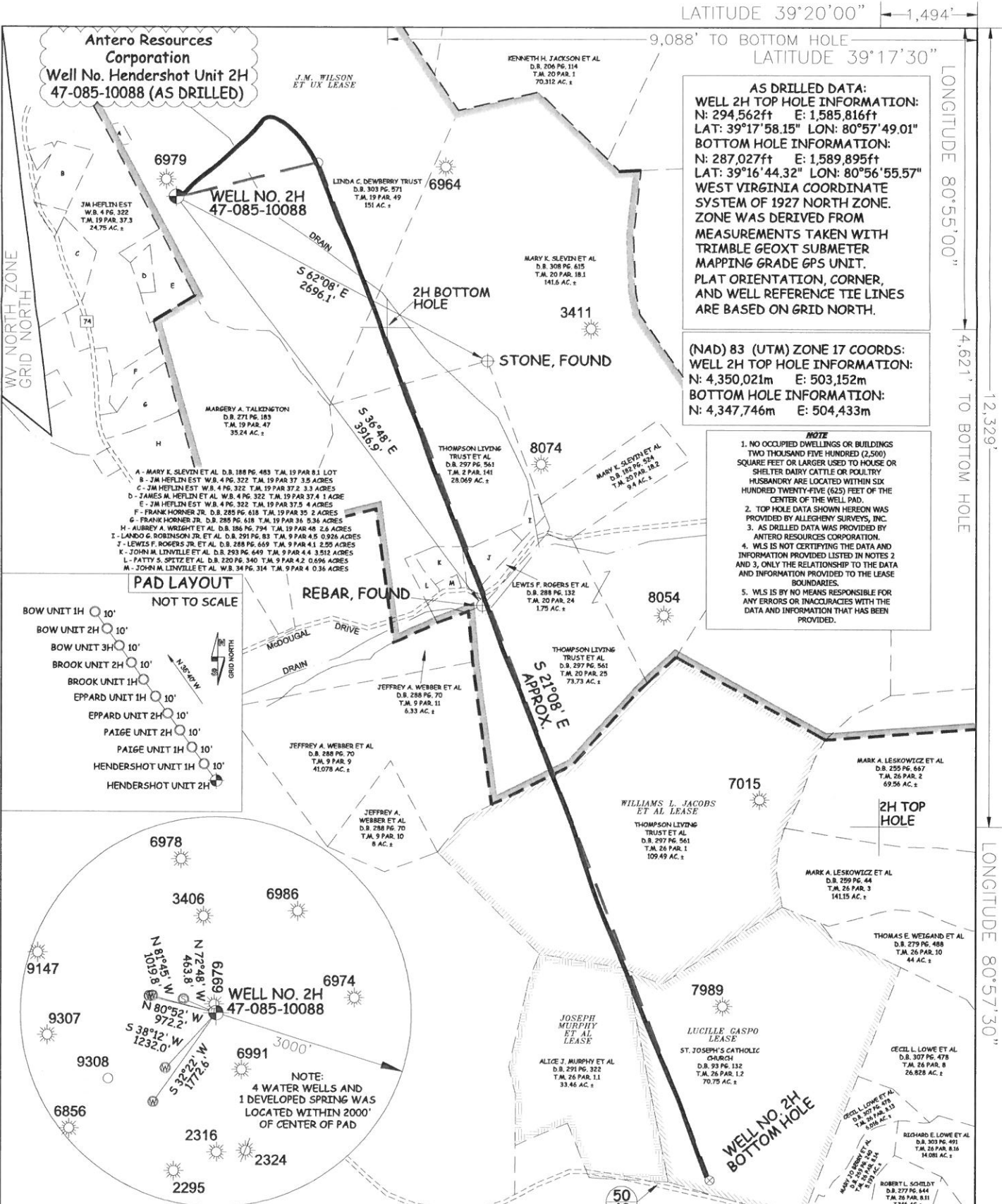
SI-1000	J.S. Well Services, LLC	Scale Inhibitor	Crystalline Salt	12125-02-9	5.00000	0.00300
			Anionic Copolymer	Proprietary		0.00423
			Ethylene Glycol	107-21-1	20.00000	0.00382
			Water	7732-18-5	30.00000	0.00319
K-BAC 1020	J.S. Well Services, LLC	Anti-Bacterial Agent				
			2,2-dibromo-3-nitropropionamide	10222-01-2	20.00000	0.00424
			Deionized Water	7732-18-5	28.00000	0.00242
AP One	J.S. Well Services, LLC	Gel Breakers				
			Ammonium Persulfate	7727-54-0	100.00000	0.00164
AI-300	J.S. Well Services, LLC	Acid Corrosion Inhibitors				
			Ethylene Glycol	107-21-1	31.00000	0.00018
			N,N-Dimethylformamide	68-12-2	15.00000	0.00006
			Cinnamaldehyde	104-55-2	5.00000	0.00005
			Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7	13.00000	0.00005
			2-Butoxyethanol	111-76-2	7.00000	0.00004
			Water	7732-18-5	20.00000	0.00002
			Ethoxylated Nonylphenol	68412-54-4	5.00000	0.00001
			Isopropyl Alcohol	67-63-0	3.00000	0.00001
			Triethyl Phosphate	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)

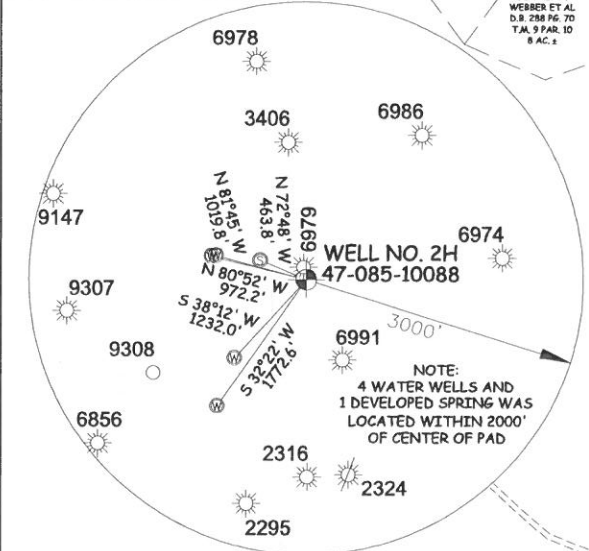
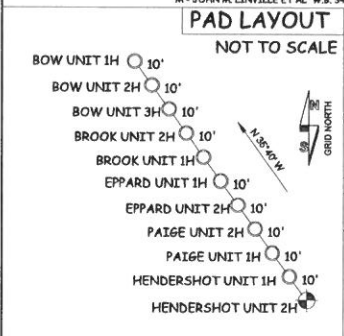
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**AS DRILLED DATA:**  
**WELL 2H TOP HOLE INFORMATION:**  
 N: 294,562ft E: 1,585,816ft  
 LAT: 39°17'58.15" LON: 80°57'49.01"  
**BOTTOM HOLE INFORMATION:**  
 N: 287,027ft E: 1,589,895ft  
 LAT: 39°16'44.32" LON: 80°56'55.57"  
**WEST VIRGINIA COORDINATE 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: 4,350,021m E: 503,152m  
**BOTTOM HOLE INFORMATION:**  
 N: 4,347,746m E: 504,433m

- 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.



JOB # 13-043WA  
 DRAWING # HENDERSHOT2HAD  
 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

**LEGEND**

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

DATE 05/12/15  
 OPERATOR'S WELL # HENDERSHOT UNIT #2H  
 API WELL # 47-085-10088  
 STATE WV COUNTY CLAY PERMIT 10088

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

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

LOCATION: ELEVATION 1,124' ORIGINAL - 1,118' AS-DRILLED WATERSHED NORTH FORK HUGHES RIVER  
 QUADRANGLE PENNSBORO 7.5' DISTRICT CLAY COUNTY RITCHIE

SURFACE OWNER LINDA C. DEWBERRY TRUST ACREAGE 151 ACRES +/-  
 OIL & GAS ROYALTY OWNER J.M. WILSON ET UX; WILLIAMS L. JACOBS ET AL; JOSEPH MURPHY ET AL; LUCILLE GASPO LEASE ACREAGE 700 ACRES±; 85 ACRES±; 33 ACRES±; 71 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     
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,418' TVD 15,270' MD

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

COUNTY NAME  
 PERMIT