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WR-35
Rev. 8/23/13

Page ___ of ___

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 47-085-10060 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 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 4,350,024m Easting 503,150m
Landing Point of Curve Northing 4,350,149.39m Easting 503,796.13m
Bottom Hole Northing 4,347,891m Easting 504,712m

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 11/8/2013 Date drilling commenced 4/23/2014 Date drilling ceased 5/30/2014
Date completion activities began 7/10/2014 Date completion activities ceased 9/16/2014
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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JUN 15 2015

WR-35

Rev. 8/23/13

Page ___ of ___

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MORGANTOWN, WV

API 47-085 - 10060

Farm name Linda C. Dewberry Trust

Well number Hendershot 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	133#/J-55	N/A	Y
Surface	17-1/2"	13-3/8"	439'	New	48#/H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2633'	New	36#/J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	15,335'	New	23#/P-110	N/A	Y
Tubing		2-3/8"	7045'		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	157 sx	15.6	1.18	38 Cu. Ft.	0'	8 hrs
Surface	Class A	512 sx	15.6	1.18	305 Cu. Ft.	0'	8 hrs
Coal							
Intermediate 1	Class A	1021 sx	15.6	1.18	825 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)	3025 Cu. Ft.	-500' into Intermediate Casing	8 hrs
Tubing							

Drillers TD (ft) 15,335' MD, 6446' TVD (BHL), 6450' TVD (Deepest Point Drilled), Loggers TD (ft) 15,289' MD

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

Plug back procedure N/A

Kick off depth (ft) 6547'

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 N/A

JUN 15 2015

WR-35
Rev. 8/23/13

WV GEOLOGICAL SURVEY
MORGANTOWN, WV

Page ___ of ___

API 47- 085 - 10060 Farm name Linda C. Dewberry Trust Well number Hendershot Unit 1H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
*PLEASE SEE ATTACHED EXHIBIT 1					

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
*PLEASE SEE ATTACHED EXHIBIT 2								

Please insert additional pages as applicable.

JUN 15 2015

WR-35
Rev. 8/23/13

WV GEOLOGICAL SURVEY
MORGANTOWN, WV

Page ___ of ___

API 47- 085 - 10060 Farm name Linda C. Dewberry Trust Well number Hendershot Unit 1H

PRODUCING FORMATION(S)	DEPTHS	
<u>Marcellus</u>	<u>6375' (Top)</u> TVD	<u>7165' (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 7283 mcfpd Oil 113 bpd NGL --- bpd Water 706 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	
	<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 6/1/2015

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JUN 15 2015

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API 47-085-10060 Farm Name Dewberry, Linda C. Trust Well Number Hendershot Unit 1H

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	10-Jul-14	15078'	15244'	60	Marcellus
2	12-Aug-14	14881'	15047'	60	Marcellus
3	12-Aug-14	14684'	14850'	60	Marcellus
4	13-Aug-14	14487'	14654'	60	Marcellus
5	13-Aug-14	14291'	14457'	60	Marcellus
6	13-Aug-14	14094'	14260'	60	Marcellus
7	13-Aug-14	13897'	14063'	60	Marcellus
8	13-Aug-14	13700'	13866'	60	Marcellus
9	14-Aug-14	13503'	13669'	60	Marcellus
10	14-Aug-14	13306'	13472'	60	Marcellus
11	14-Aug-14	13109'	13275'	60	Marcellus
12	15-Aug-14	12912'	13078'	60	Marcellus
13	15-Aug-14	12715'	12882'	60	Marcellus
14	15-Aug-14	12519'	12685'	60	Marcellus
15	16-Aug-14	12322'	12488'	60	Marcellus
16	16-Aug-14	12125'	12291'	60	Marcellus
17	16-Aug-14	11928'	12094'	60	Marcellus
18	16-Aug-14	11731'	11897'	60	Marcellus
19	2-Sep-14	11534'	11700'	60	Marcellus
20	3-Sep-14	11337'	11503'	60	Marcellus
21	3-Sep-14	11140'	11306'	60	Marcellus
22	3-Sep-14	10943'	11110'	60	Marcellus
23	4-Sep-14	10747'	10913'	60	Marcellus
24	4-Sep-14	10353'	10519'	60	Marcellus
25	4-Sep-14	10,353	10519'	60	Marcellus
26	4-Sep-14	10156'	10322'	60	Marcellus
27	5-Sep-14	9959'	10125'	60	Marcellus
28	5-Sep-14	9762'	9928'	60	Marcellus
29	5-Sep-14	9565'	9731'	60	Marcellus
30	5-Sep-14	9368'	9534'	60	Marcellus
31	6-Sep-14	9171'	9337'	60	Marcellus
32	6-Sep-14	8975'	9141'	60	Marcellus
33	6-Sep-14	8778'	8944'	60	Marcellus
34	6-Sep-14	8581'	8747'	60	Marcellus
35	6-Sep-14	8384'	8550'	60	Marcellus
36	7-Sep-14	8187'	8353'	60	Marcellus
37	7-Sep-14	7990'	8156'	60	Marcellus
38	7-Sep-14	7793'	7959'	60	Marcellus
39	7-Sep-14	7596'	7762'	60	Marcellus
40	8-Sep-14	7399'	7565'	60	Marcellus
41	8-Sep-14	7203'	7369'	60	Marcellus

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API 47-085-10060 Farm Name Dewberry, Linda C. Trust Well Number Hendershot Unit 1H

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	11-Aug-14	70.0	7,150	N/A	4,343	263,460	7,272	N/A
2	12-Aug-14	50.0	7,883	5,588	5,294	30,800	7,458	N/A
3	12-Aug-14	76.0	7,377	5,248	4,870	306,260	7,594	N/A
4	13-Aug-14	76.0	7,188	5,484	4,597	251,520	7,166	N/A
5	13-Aug-14	75.0	7,131	5,769	4,394	242,190	7,001	N/A
6	13-Aug-14	76.0	7,228	5,279	3,308	318,580	7,920	N/A
7	13-Aug-14	76.0	6,913	5,285	3,397	284,670	7,746	N/A
8	13-Aug-14	77.0	7,193	5,335	3,655	281,460	7,735	N/A
9	14-Aug-14	76.0	7,643	5,567	5,275	253,760	8,609	N/A
10	14-Aug-14	75.0	7,166	5,495	3,050	286,900	7,932	N/A
11	14-Aug-14	78.0	7,141	5,329	3,487	285,455	7,902	N/A
12	15-Aug-14	77.0	7,014	5,755	5,310	295,300	7,844	N/A
13	15-Aug-14	77.0	7,006	5,256	4,800	192,700	8,626	N/A
14	15-Aug-14	77.0	7,158	5,141	5,237	302,720	7,826	N/A
15	16-Aug-14	76.0	6,908	5,101	2,990	316,520	7,821	N/A
16	16-Aug-14	75.0	7,179	5,049	4,760	274,000	8,559	N/A
17	16-Aug-14	77.0	7,134	5,205	2,993	296,520	7,843	N/A
18	16-Aug-14	74.0	6,913	5,685	5,592	200,180	5,495	N/A
19	2-Sep-14	77.0	6,559	5,563	4,181	300,430	7,740	N/A
20	3-Sep-14	78.0	6,817	5,530	3,988	300,370	7,878	N/A
21	3-Sep-14	78.0	6,496	5,724	3,670	297,510	7,805	N/A
22	3-Sep-14	77.0	6,340	5,603	4,398	318,540	7,783	N/A
23	4-Sep-14	77.0	6,448	5,156	5,067	308,310	7,736	N/A
24	4-Sep-14	77.6	6,091	5,277	5,061	323,330	7,740	N/A
25	4-Sep-14	78.0	5,966	4,977	3,806	320,520	7,725	N/A
26	4-Sep-14	78.0	6,530	4,941	5,169	313,586	8,309	N/A
27	5-Sep-14	77.0	6,201	5,187	5,233	318,895	7,688	N/A
28	5-Sep-14	77.0	6,521	5,035	4,037	305,712	7,541	N/A
29	5-Sep-14	77.0	6,461	5,226	5,331	290,010	7,417	N/A
30	5-Sep-14	77.0	6,415	5,628	3,396	321,440	7,621	N/A
31	6-Sep-14	77.0	6,330	5,282	3,710	318,380	7,604	N/A
32	6-Sep-14	78.3	6,282	5,141	3,557	302,866	7,490	N/A
33	6-Sep-14	77.5	6,224	5,123	3,328	300,169	7,789	N/A
34	6-Sep-14	78.0	6,705	5,211	5,240	233,680	6,941	N/A
35	6-Sep-14	77.0	6,414	4,972	3,785	315,000	7,713	N/A
36	7-Sep-14	78.0	6,252	5,461	4,056	308,740	7,651	N/A
37	7-Sep-14	78.0	6,530	5,931	4,825	244,110	7,079	N/A
38	7-Sep-14	75.0	6,863	5,929	3,974	238,125	7,668	N/A
39	7-Sep-14	77.0	6,298	6,116	4,986	305,230	7,463	N/A
40	8-Sep-14	37.0	8,395	5,591	5,139	2,591	7,448	N/A
41	8-Sep-14	78.5	6,268	6,397	3,605	311,305	7,830	N/A
	AVG=	75.1	6,798	5,414	4,314	11,281,844	314,008	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	250	N/A	250	N/A
Fresh Water	260	N/A	260	N/A
Shale/Siltstone	0	297	0	297
Siltstone w/ Trace Coal	297	357	297	357
Siltstone/Sandstone	357	497	357	497
Shale w/ Trace Coal	497	517	497	517
Shale/Siltstone	517	977	517	977
Sandstone	977	1,017	977	1,017
Shale	1,017	1,057	1,017	1,057
Sandstone	1,057	1,217	1,057	1,217
Shale w/ Coal	1,217	1,257	1,217	1,257
Sandstone/Siltstone/Shale	1,257	1,934	1,257	1,934
Big Lime	1,934	2,074	1,934	2,074
Big Injun	2,074	2,851	2,074	2,851
Fifty Foot Sandstone	2,851	2,946	2,851	2,948
Gordon	2,946	3,096	2,948	3,100
Bayard	3,096	3,556	3,100	3,588
Warren	3,556	4,141	3,588	4,280
Baltown	4,141	4,556	4,280	4,780
Bradford	4,556	4,959	4,780	5,273
Benson	4,959	5,185	5,273	5,543
Alexander	5,185	5,517	5,543	5,937
Elk	5,517	5,795	5,937	6,261
Rhinestreet	5,795	6,128	6,261	6,669
Sycamore	6,128	6,221	6,669	6,810
Middlesex	6,221	6,328	6,810	7,015
Burkett	6,328	6,353	7,015	7,083
Tully	6,353	6,375	7,083	7,165
Marcellus	6,375	NA	7,165	NA

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Hydraulic Fracturing Fluid Product Component Information Disclosure

WV GEOLOGICAL SURVEY
MORGANTOWN, WV



Job Start Date:	8/11/2014
Job End Date:	9/8/2014
State:	West Virginia
County:	Ritchie
API Number:	47-085-10060-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Hendershot Unit 1H
Longitude:	-80.96363600
Latitude:	39.29950600
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	6,450
Total Base Water Volume (gal):	13,188,336
Total Base Non Water Volume:	563,935

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	90.43045	
Sand	J.S. Well Services, LLC	Proppant					
LGC-15	J.S. Well Services, LLC	Gelling Agents	Crystalline Silica, quartz	14808-60-7	100.00000	9.27553	
			Guar Gum	9000-30-0	50.00000	0.05128	
			Petroleum Distillates	64742-47-8	60.00000	0.04856	
			Suspending agent (solid)	14808-60-7	3.00000	0.00784	
			Surfactant	68439-51-0	3.00000	0.00308	
HCL Acid (12.6%-18.0%)	J.S. Well Services, LLC	Bulk Acid					
			Water	7732-18-5	87.50000	0.07342	
			Hydrogen Chloride	7647-01-0	18.00000	0.01754	
WFRA-405	J.S. Well Services, LLC	Friction Reducer					
			Water	7732-18-5	40.00000	0.02334	
			Anionic Polyacrylamide	Proprietary		0.02334	
			Petroleum Distillates	64742-47-8	22.00000	0.01879	
			Crystalline Salt	12125-02-9	5.00000	0.00292	

SI-1000	J.S. Well Services, LLC	Scale Inhibitor	Ethoxylated alcohol blend	Proprietary	5.00000	0.00292
			Anionic Copolymer	Proprietary		0.00435
			Ethylene Glycol	107-21-1	20.00000	0.00394
			Water	7732-18-5	30.00000	0.00328
K-BAC 1020	J.S. Well Services, LLC	Anti-Bacterial Agent				
			2,2-dibromo-3-nitropropionamide	10222-01-2	20.00000	0.00474
			Deionized Water	7732-18-5	28.00000	0.00271
AP One	J.S. Well Services, LLC	Gel Breakers				
			Ammonium Persulfate	7727-54-0	100.00000	0.00152
AI-300	J.S. Well Services, LLC	Acid Corrosion Inhibitors				
			Ethylene Glycol	107-21-1	31.00000	0.00019
			N,N-Dimethylformamide	68-12-2	15.00000	0.00006
			2-Butoxyethanol	111-76-2	7.00000	0.00005
			Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7	13.00000	0.00005
			Cinnamaldehyde	104-55-2	5.00000	0.00005
			Water	7732-18-5	20.00000	0.00002
			Ethoxylated Nonylphenol	68412-54-4	5.00000	0.00001
			Triethyl Phosphate	78-40-0	3.00000	0.00001
			Isopropyl Alcohol	67-63-0	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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 MORGANTOWN, WV

LATITUDE 39°20'00" | 1,501'

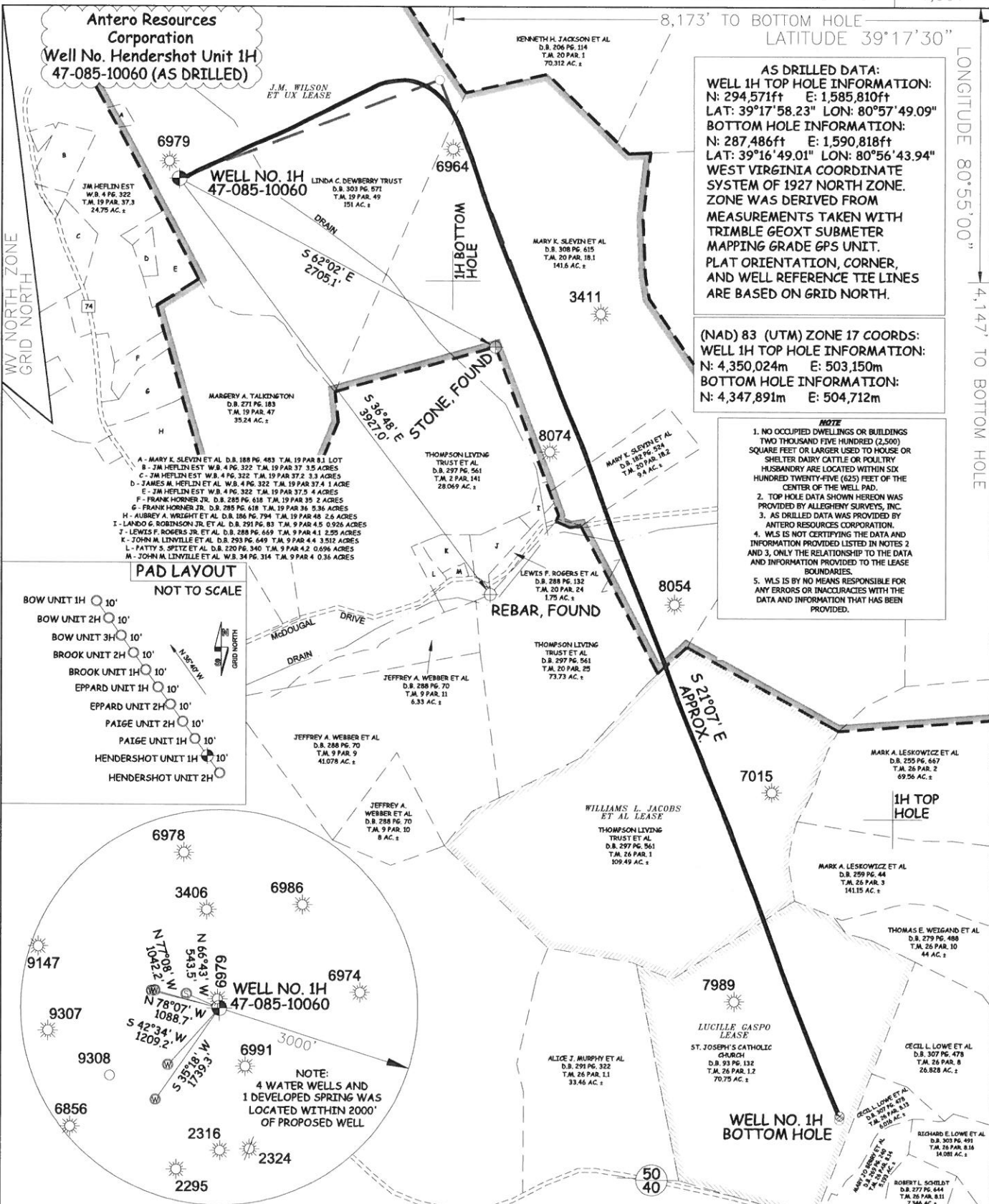
LATITUDE 39°17'30"

LONGITUDE 80°55'00"

4,147' TO BOTTOM HOLE

12,321'

LONGITUDE 80°57'30"

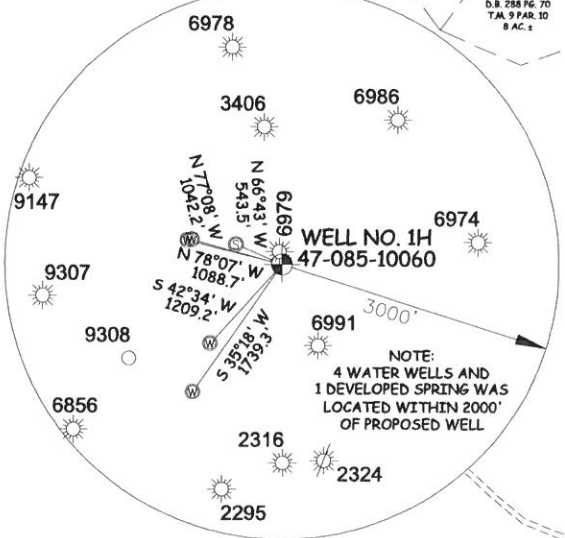
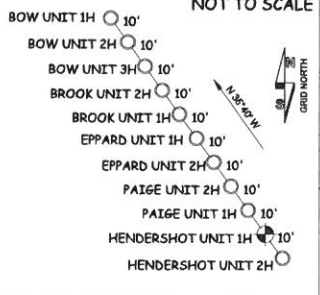


AS DRILLED DATA:
WELL 1H TOP HOLE INFORMATION:
 N: 294,571ft E: 1,585,810ft
 LAT: 39°17'58.23" LON: 80°57'49.09"
BOTTOM HOLE INFORMATION:
 N: 287,486ft E: 1,590,818ft
 LAT: 39°16'49.01" LON: 80°56'43.94"
WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE.
ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH 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 1H TOP HOLE INFORMATION:
 N: 4,350,024m E: 503,150m
BOTTOM HOLE INFORMATION:
 N: 4,347,891m E: 504,712m

- 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.

PAD LAYOUT NOT TO SCALE



JOB # 13-043WA
 DRAWING # HENDERSHOT1H
 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 +/-
- Existing Fence
- Found monument, as noted
- Proposed Well Path
- As Drilled Well Path

DATE 05/12/15
 OPERATOR'S WELL# HENDERSHOT UNIT 1H
 API WELL # 47-085-10060
 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 1,124' 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; LEASE ACREAGE 503.3 ACRES±; 85 ACRES±;
 LUCILLE GASPO 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 6,446' TVD 15,335' MD

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