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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 - 017 - 06370 County Doddridge District Central
Quad Oxford 7.5' Pad Name Fritz Pad Field/Pool Name ---
Farm name Horton, Judy A. Well Number Washington Unit 1H
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 4342782m Easting 513818m
Landing Point of Curve Northing 4343053.06m Easting 513593.04m
Bottom Hole Northing 4345156m Easting 512595m

Elevation (ft) 1053' 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 11/21/2013 Date drilling commenced 4/15/2014 Date drilling ceased 9/6/2014
Date completion activities began 9/30/2014 Date completion activities ceased 2/2/2015
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 97' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1143', 1529' Void(s) encountered (Y/N) depths No
Coal depth(s) ft 1429' Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

Reviewed by: _____

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API 47-017 - 06370 Farm name Horton, Judy A. Well number Washington 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	28"	20"	90'	New	94# J-55	N/A	Y
Surface	17- 1/2"	13- 3/8"	363'	New	48# H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2513'	New	36# J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4" & 8-1/2"	5-1/2"	15257'	New	23# P-110	N/A	Y
Tubing		2-3/8"	6709'		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 ²)	Cement Top (MD)	WOC (hrs)
Conductor	Class A	300 sx	15.6	1.18	86	0'	8 Hrs.
Surface	Class A	419 sx	15.6	1.18	252	0'	8 Hrs.
Coal							
Intermediate 1	Class A	929 sx	15.6	1.18	787	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	993 sx (Lead) 1343 sx (Tail)	13.5 Lead 15.2 Tail	1.30 Lead 1.86 Tail	3044	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 15257' MD, 6635' TVD (BHL), 6646' TVD (Deepest Point Drilled) Loggers TD (ft) 15211'
Deepest formation penetrated Marcellus Plug back to (ft) N/A
Plug back procedure N/A

Kick off depth (ft) 5390'

** This is a subsequent well. Antero only runs wireline logs on one well on a multi-well pad (Washington Unit 2H API #47-017-06371). Please reference the wireline logs submitted with Form WR-35 for Washington 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- 017 - 06370 Farm name Horton, Judy A. Well number Washington Unit 1H

PRODUCING FORMATION(S)	DEPTHS	
	DEPTH	DEPTH
Marcellus	6567' (TOP) TVD	6753' (TOP) MD

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 9067 mcfpd Oil 6 bpd NGL --- bpd Water --- 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	
	0		0		

*PLEASE SEE EXHIBIT 3

Please insert additional pages as applicable.

Drilling Contractor Patterson - UTI Drilling Company LLC
Address 207 Carolton Dr. City Eighty Four State PA Zip 15330

Logging Company STRC
Address 1560 Good Hope Pike City Clarksburg State WV Zip 26301

Cementing Company Allied Oil & Gas Services, LLC
Address 1036 East Main St. City Bridgeport State WV Zip 26330

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 Permitting Agent Date 7/13/2015

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WEST VIRGINIA GEOLOGICAL SURVEY
MORGANTOWN, WV

API 47-017-06370 Farm Name Horton, Judy A. Well Number Washington Unit 1H

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	30-Sep-14	14,995	15,164	60	Marcellus
2	28-Oct-14	14,795	14,964	60	Marcellus
3	29-Oct-14	14,595	14,764	60	Marcellus
4	29-Oct-14	14,396	14,564	60	Marcellus
5	30-Oct-14	14,196	14,364	60	Marcellus
6	30-Oct-14	13,996	14,164	60	Marcellus
7	30-Oct-14	13,796	13,964	60	Marcellus
8	31-Oct-14	13,596	13,764	60	Marcellus
9	31-Oct-14	13,396	13,564	60	Marcellus
10	31-Oct-14	13,196	13,364	60	Marcellus
11	31-Oct-14	12,996	13,165	60	Marcellus
12	1-Nov-14	12,796	12,965	60	Marcellus
13	1-Nov-14	12,596	12,765	60	Marcellus
14	1-Nov-14	12,396	12,565	60	Marcellus
15	2-Nov-14	12,196	12,365	60	Marcellus
16	2-Nov-14	11,996	12,165	60	Marcellus
17	2-Nov-14	11,796	11,965	60	Marcellus
18	3-Nov-14	11,596	11,765	60	Marcellus
19	3-Nov-14	11,396	11,565	60	Marcellus
20	3-Nov-14	11,196	11,365	60	Marcellus
21	4-Nov-14	10,996	11,165	60	Marcellus
22	5-Nov-14	10,796	10,965	60	Marcellus
23	5-Nov-14	10,596	10,765	60	Marcellus
24	5-Nov-14	10,397	10,565	60	Marcellus
25	5-Nov-14	10,197	10,365	60	Marcellus
26	5-Nov-14	9,997	10,165	60	Marcellus
27	6-Nov-14	9,797	9,965	60	Marcellus
28	6-Nov-14	9,597	9,765	60	Marcellus
29	6-Nov-14	9,397	9,565	60	Marcellus
30	6-Nov-14	9,197	9,365	60	Marcellus
31	7-Nov-14	8,997	9,165	60	Marcellus
32	7-Nov-14	8,797	8,966	60	Marcellus
33	8-Nov-14	8,597	8,766	60	Marcellus
34	8-Nov-14	8,397	8,566	60	Marcellus
35	8-Nov-14	8,197	8,366	60	Marcellus
36	8-Nov-14	7,997	8,166	60	Marcellus
37	8-Nov-14	7,797	7,966	60	Marcellus
38	9-Nov-14	7,597	7,766	60	Marcellus
39	9-Nov-14	7,397	7,566	60	Marcellus
40	9-Nov-14	7,197	7,366	60	Marcellus
41	9-Nov-14	6,997	7,166	60	Marcellus
42	9-Nov-14	6,797	6,966	60	Marcellus

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API 47-017-06370 Farm Name Horton, Judy A. Well Number Washington 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	28-Oct-14	65.0	7,059	N/A	4,435	230,640	6,632	N/A
2	29-Oct-14	64.0	7,083	5,887	4,599	187,500	5,837	N/A
3	29-Oct-14	70.0	6,943	5,869	5,275	178,580	6,696	N/A
4	29-Oct-14	62.0	7,284	5,822	4,746	120,400	6,730	N/A
5	30-Oct-14	63.0	7,070	5,690	3,787	209,630	5,988	N/A
6	30-Oct-14	60.0	7,231	5,683	5,139	94,370	5,554	N/A
7	30-Oct-14	64.0	7,081	5,733	3,666	205,100	6,954	N/A
8	31-Oct-14	64.0	7,137	5,794	4,646	212,848	6,106	N/A
9	31-Oct-14	63.0	7,112	5,214	4,610	149,132	5,326	N/A
10	31-Oct-14	65.0	6,919	5,547	3,827	236,230	6,268	N/A
11	1-Nov-14	64.0	7,034	5,815	4,674	190,660	6,719	N/A
12	1-Nov-14	62.0	7,109	6,101	4,467	217,090	6,494	N/A
13	1-Nov-14	62.0	7,178	5,740	4,174	113,295	6,140	N/A
14	1-Nov-14	64.0	6,982	5,808	4,599	238,180	6,288	N/A
15	2-Nov-14	64.0	6,775	5,718	5,157	238,400	6,270	N/A
16	2-Nov-14	63.0	6,522	5,254	4,817	189,315	6,222	N/A
17	2-Nov-14	67.0	6,578	5,482	5,203	218,610	6,657	N/A
18	3-Nov-14	63.0	6,643	5,987	3,830	231,312	6,041	N/A
19	3-Nov-14	65.0	6,606	5,586	4,066	224,048	5,927	N/A
20	3-Nov-14	65.0	6,780	5,661	N/A	231,800	6,244	N/A
21	4-Nov-14	64.0	6,867	5,829	4,874	237,880	6,087	N/A
22	5-Nov-14	64.0	6,886	6,112	4,224	168,720	6,086	N/A
23	5-Nov-14	63.2	7,061	5,561	4,063	152,400	6,391	N/A
24	5-Nov-14	64.3	6,600	5,808	3,444	237,690	6,013	N/A
25	5-Nov-14	53.0	6,489	5,572	4,642	103,410	6,841	N/A
26	6-Nov-14	62.0	7,228	5,797	4,406	157,720	6,137	N/A
27	6-Nov-14	63.1	6,638	5,636	4,996	175,160	5,256	N/A
28	6-Nov-14	60.4	6,287	5,475	3,126	238,240	6,014	N/A
29	6-Nov-14	60.4	6,291	5,997	3,394	239,620	5,990	N/A
30	6-Nov-14	60.0	6,630	5,865	5,082	186,440	4,902	N/A
31	8-Nov-14	62.0	7,421	5,736	4,563	129,920	6,585	N/A
32	8-Nov-14	60.0	6,836	5,615	5,035	159,890	6,610	N/A
33	8-Nov-14	62.2	6,502	5,393	5,225	240,310	6,093	N/A
34	8-Nov-14	63.0	6,270	5,382	5,339	235,980	6,081	N/A
35	8-Nov-14	62.0	6,153	5,121	5,146	236,380	6,068	N/A
36	9-Nov-14	62.0	6,183	5,372	5,136	242,140	6,072	N/A
37	9-Nov-14	60.1	6,321	5,361	4,907	229,460	5,986	N/A
38	9-Nov-14	62.2	6,562	6,301	4,914	173,460	6,493	N/A
39	9-Nov-14	61.0	6,469	6,219	4,917	209,600	6,306	N/A
40	9-Nov-14	39.0	8,556	6,180	4,767	1,020	5,915	N/A
41	10-Nov-14	62.0	6,418	5,701	4,252	192,170	6,033	N/A
42	10-Nov-14	59.8	6,497	6,777	3,608	187,360	6,148	N/A
	AVG=	62.1	6,816	5,737	4,531	8,052,110	259,200	TOTAL

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MORGANTOWN, WV

API 47-017-06370 Farm Name Horton, Judy A. Well Number Washington Unit 1H

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	97'	N/A	97'	N/A
Siltstone/Sandstone	0	109	0	109
Shale/ Siltstone	est. 109	169	est. 109	169
Siltstone/ Trace Coal	est. 169	329	est. 169	329
Siltstone/ Shale	est. 329	429	est. 329	429
Shale	est. 429	509	est. 429	509
Sandstone	est. 509	549	est. 509	549
Shale/ Siltstone	est. 549	629	est. 549	629
Limestone/ Shale	est. 629	689	est. 629	689
Shale/ Siltstone	est. 689	829	est. 689	829
Shale/ Limestone	est. 829	909	est. 829	909
Sandstone	est. 909	969	est. 909	969
Shale	est. 969	1089	est. 969	1089
Siltstone/ Trace Coal	est. 1089	1429	est. 1089	1429
Coal	est. 1429	1549	est. 1429	1549
Siltstone/ Trace Coal	est. 1549	1689	est. 1549	1689
Shale/ Siltstone	est. 1689	1909	est. 1689	1909
Sandstone	est. 1909	1940	est. 1909	1940
Big Lime	1940	2086	1940	2086
Big Injun	2086	2428	2086	2428
Gantz Sand	2428	2614	2428	2614
Fifty Foot Sandstone	2614	2706	2614	2706
Gordon	2706	3003	2706	3003
Fifth Sandstone	3003	3021	3003	3021
Bayard	3021	3403	3021	3404
Warren	3403	3735	3404	3736
Speechley	3735	4013	3736	4014
Baltown	4013	4515	4014	4516
Bradford	4515	4985	4516	4985
Benson	4985	5269	4985	5270
Alexander	5269	5451	5270	5453
Elk	5451	5906	5453	5912
Rhinestreet	5906	6191	5912	6201
Sycamore	6191	6371	6201	6404
Middlesex	6371	6505	6404	6597
Burkett	6505	6530	6597	6648
Tully	6530	6567	6648	6753
Marcellus	6567	NA	6753	NA

*Please note Antero determines 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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WV GEOLOGICAL SURVEY
MORGANTOWN, WV

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	10/28/2014
Job End Date:	11/10/2014
State:	West Virginia
County:	Doddridge
API Number:	47-017-06370-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Washington Unit 1H
Longitude:	-80.83989400
Latitude:	39.23423100
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	6,646
Total Base Water Volume (gal):	10,886,400
Total Base Non Water Volume:	422,736



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	91.46285	
Sand	J.S. Well Services, LLC	Proppant	Crystalline Silica, quartz	14808-60-7	100.00000	8.11155	
LGC-15	J.S. Well Services, LLC	Gelling Agents	Guar Gum	9000-30-0	50.00000	0.07932	
			Petroleum Distillates	64742-47-8	60.00000	0.07512	
			Suspending agent (solid)	14808-60-7	3.00000	0.01213	
			Surfactant	68439-51-0	3.00000	0.00476	
HCL Acid (12.6%-18.0%)	J.S. Well Services, LLC	Bulk Acid	Water	7732-18-5	87.50000	0.08996	
			Hydrogen Chloride	7647-01-1	18.00000	0.02149	
WFRA-405	J.S. Well Services, LLC	Friction Reducer	Anionic Polyacrylamide	Proprietary	40.00000	0.03432	
			Water	7732-18-5	40.00000	0.03432	
			Petroleum Distillates	64742-47-8	40.00000	0.02763	
			Ethoxylated alcohol blend	Proprietary	5.00000	0.00429	

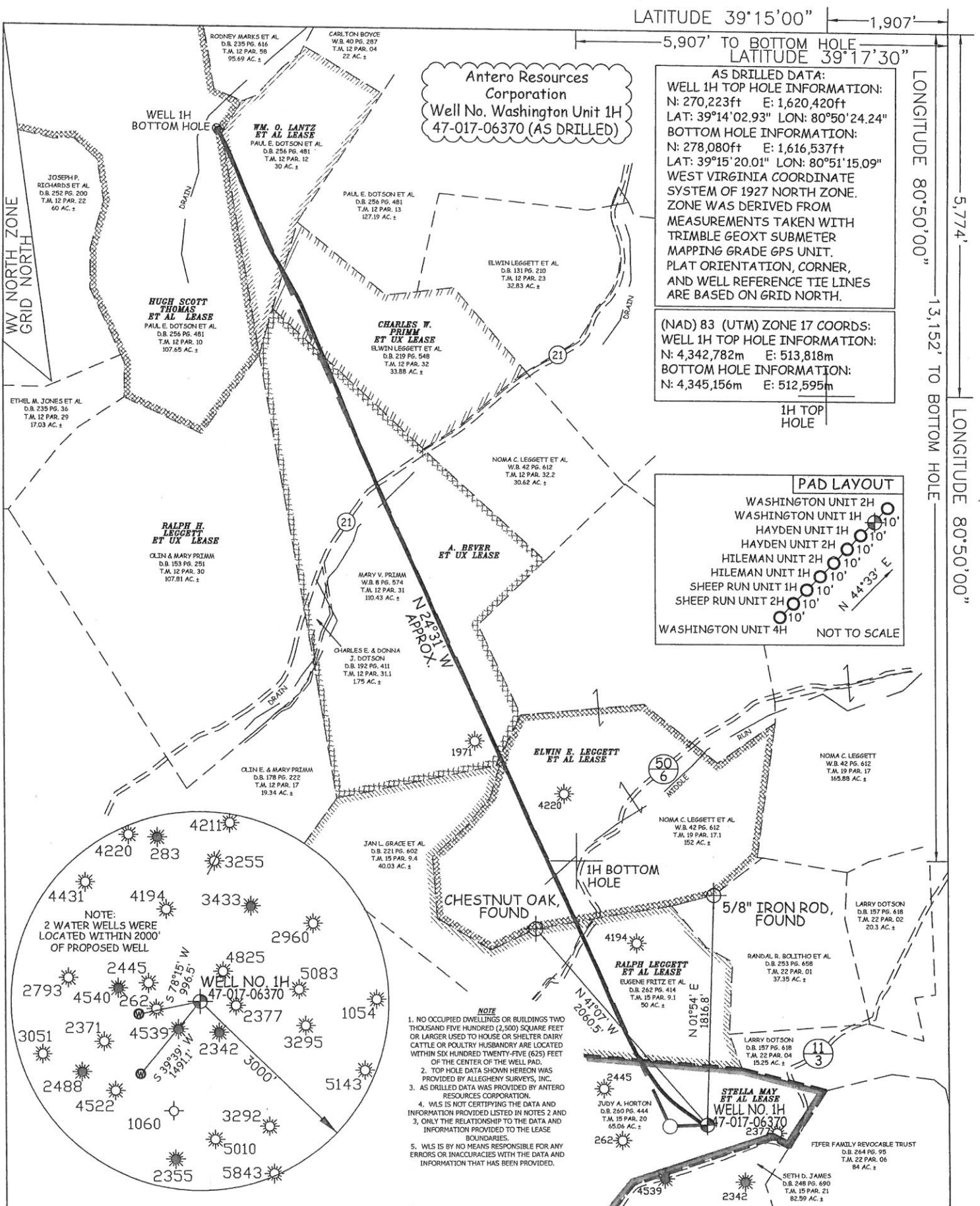
SI-1100	U.S. Well Services	Scale Inhibitor	Crystalline Salt	12125-02-9	5.00000	0.00429
			Di Water	7732-18-5	80.00000	0.01139
			Ethylene Glycol	107-21-1	40.00000	0.00643
			Potassium salt of diethylene triamine penta (methylene phosphonic acid)	15827-60-8	10.00000	0.00192
			2-Phosphonobutane 1,2,4 tricarboxylic salt	37971-36-1	10.00000	0.00184
			hexamethylenediamine tetra (methylene phosphonic acid)	38820-59-6	10.00000	0.00178
			Copolymer of Maleic and Acrylic acid	26677-99-6	10.00000	0.00168
			bis (hexamethylene) trimine penta (methylene phosphonic acid) - phosphate acid	40623-75-4	10.00000	0.00164
			Acrylic polymer	52255-49-9	5.00000	0.00071
K-BAC 1020	U.S. Well Services, LLC	Anti-Bacterial Agent				
			2,2-dibromo-3-nitropropionamide	10222-01-2	20.00000	0.00487
			Deionized Water	7732-18-5	28.00000	0.00278
AP One	U.S. Well Services, LLC	Gel Breakers				
			Ammonium Persulfate	7727-54-0	100.00000	0.00258
AI-301	U.S. Well Services, LLC	Acid Corrosion Inhibitors				
			Diethylene Glycol	111-46-6	30.00000	0.00014
			Methanamine	100-97-0	20.00000	0.00011
			Hydrogen Chloride	7647-01-0	10.00000	0.00005
			Polyethylene polyamine	68603-67-8	10.00000	0.00004
			Coco amine	61791-14-8	5.00000	0.00002

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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LATITUDE 39°15'00" | 1,907'

5,907' TO BOTTOM HOLE | LATITUDE 39°17'30"

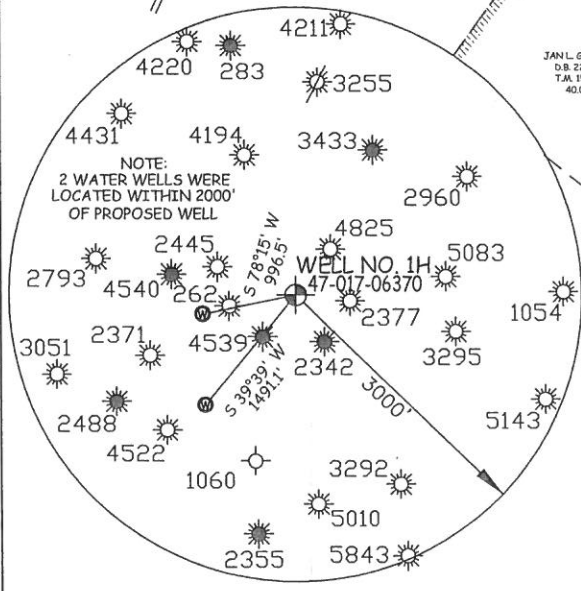
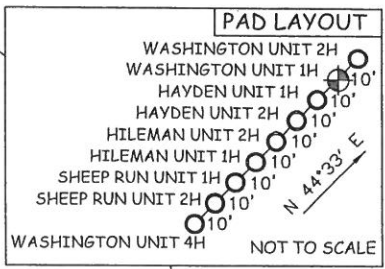
LONGITUDE 80°50'00" | 5,774'

13,152' TO BOTTOM HOLE | LONGITUDE 80°50'00"

AS DRILLED DATA:
WELL 1H TOP HOLE INFORMATION:
 N: 270,223ft E: 1,620,420ft
 LAT: 39°14'02.93" LON: 80°50'24.24"
BOTTOM HOLE INFORMATION:
 N: 278,080ft E: 1,616,537ft
 LAT: 39°15'20.01" LON: 80°51'15.09"
 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: 4,342,782m E: 513,818m
BOTTOM HOLE INFORMATION:
 N: 4,345,156m E: 512,595m

1H TOP HOLE



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 # 13-065WA
 DRAWING # WASHINGTON1HAD
 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

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 1,066' ORIGINAL - 1,053' AS-DRILLED WATERSHED NORTH FORK HUGHES RIVER
 QUADRANGLE OXFORD 7.5' (TOP HOLE) WEST UNION 7.5' (BOTTOM HOLE) DISTRICT CENTRAL COUNTY DODDRIDGE

SURFACE OWNER JUDY A. HORTON ACREAGE 65.06 ACRES +/-
 OIL & GAS ROYALTY OWNER STELLA MAY ET AL; RALPH LEGGETT ET AL; ELWIN E. LEGGETT ET AL; A. BEVER ET UX; CHARLES W. PRIMM ET UX; WM. O. LANTZ ET AL; HUGH SCOTT THOMAS ET AL; LEASE ACREAGE 65 ACRES±; 187 ACRES±; 79 ACRES±; 113 ACRES±; 34 ACRES±; 30 ACRES±; 107 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 6,835' TVD 15,257' MD

WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER
 ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD
 FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

DATE 07/09/15
 OPERATOR'S WELL # WASHINGTON UNIT #1H
 API WELL # 47 - 017 - 06370
 STATE COUNTY PERMIT

COUNTY NAME PERMIT