

RECEIVED

JUL 20 2015

WR-35
Rev. 8/23/13

WV GEOLOGICAL SURVEY
MORGANTOWN, WV

Page ___ of ___

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47 - 017 - 06371 County Doddridge District Central
Quad Oxford 7.5' Pad Name Fritz Pad Field/Pool Name ---
Farm name Horton, Judy A. Well Number Washington 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 4342785m Easting 513820m
Landing Point of Curve Northing 4343000.05m Easting 513843.99m
Bottom Hole Northing 4345245m Easting 512775m

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 9/22/2014
Date completion activities began 9/30/2014 Date completion activities ceased 2/8/2015
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: _____

RECEIVED

JUL 20 2015

WR-35
Rev. 8/23/13

WV GEOLOGICAL SURVEY
MORGANTOWN, WV

Page ___ of ___

API 47-017 - 06371

Farm name Horton, Judy A.

Well number Washington 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	28"	20"	90'	New	94# J-55	N/A	Y
Surface	17- 1/2"	13- 3/8"	347'	New	48# H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2496'	New	36# J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4" & 8-1/2"	5-1/2"	15297'	New	23# P-110	N/A	Y
Tubing		2-3/8"	6705'		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	300 sx	15.6	1.18	86	0'	8 Hrs.
Surface	Class A	410 sx	14.5	1.3	241	0'	8 Hrs.
Coal							
Intermediate 1	Class A	925 sx	15.6	1.18	782	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	879 sx (Lead) 1399 sx (Tail)	14.5 Lead 15.2 Tail	1.30 Lead 1.86 Tail	3047	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 15297' MD, 6644' TVD (BHL), 6658' TVD (Deepest Point Drilled) Loggers TD (ft) 15249'

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

Plug back procedure N/A

Kick off depth (ft) 6009'

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 _____

JUL 20 2015

WR-35
Rev. 8/23/13

WV GEOLOGICAL SURVEY
MORGANTOWN, WV

API 47- 017 - 06371 Farm name Horton, Judy A. Well number Washington Unit 2H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
*PLEASE SEE 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 EXHIBIT 2 _____								

Please insert additional pages as applicable.

RECEIVED

JUL 20 2015

WR-35
Rev. 8/23/13

WV GEOLOGICAL SURVEY
MORGANTOWN, WV

Page ___ of ___

API 47- 017 - 06371 Farm name Horton, Judy A. Well number Washington Unit 2H

PRODUCING FORMATION(S)	DEPTHS	
Marcellus	6551' (TOP) TVD	6821' (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 11046 mcfpd Oil 8 bpd NGL --- bpd Water 0 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.

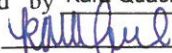
Drilling Contractor Patterson - UTI Drilling Company LLC
Address 207 Carolton Dr. City Eighty Four State PA Zip 15330

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  Title Permitting Agent Date 7/13/2015

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

RECEIVED

JUL 20 2015

WV GEOLOGICAL SURVEY
MORGANTOWN, WV

API 47-017-06371 Farm Name Horton, Judy A. Well Number Washington Unit 2H

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	30-Sep-14	15,043	15,212	60	Marcellus
2	19-Dec-14	14,844	15,012	60	Marcellus
3	20-Dec-14	14,644	14,813	60	Marcellus
4	20-Dec-14	14,445	14,613	60	Marcellus
5	20-Dec-14	14,245	14,414	60	Marcellus
6	21-Dec-14	14,046	14,214	60	Marcellus
7	21-Dec-14	13,847	14,015	60	Marcellus
8	21-Dec-14	13,647	13,815	60	Marcellus
9	21-Dec-14	13,448	13,616	60	Marcellus
10	22-Dec-14	13,248	13,416	60	Marcellus
11	22-Dec-14	13,049	13,217	60	Marcellus
12	22-Dec-14	12,849	13,017	60	Marcellus
13	23-Dec-14	12,650	12,818	60	Marcellus
14	23-Dec-14	12,450	12,618	60	Marcellus
15	23-Dec-14	12,251	12,419	60	Marcellus
16	23-Dec-14	12,051	12,220	60	Marcellus
17	23-Dec-14	11,852	12,020	60	Marcellus
18	26-Dec-14	11,652	11,821	60	Marcellus
19	26-Dec-14	11,453	11,621	60	Marcellus
20	26-Dec-14	11,253	11,422	60	Marcellus
21	27-Dec-14	11,054	11,222	60	Marcellus
22	27-Dec-14	10,855	11,023	60	Marcellus
23	27-Dec-14	10,655	10,823	60	Marcellus
24	27-Dec-14	10,456	10,624	60	Marcellus
25	28-Dec-14	10,256	10,424	60	Marcellus
26	28-Dec-14	10,057	10,225	60	Marcellus
27	28-Dec-14	9,857	10,025	60	Marcellus
28	28-Dec-14	9,658	9,826	60	Marcellus
29	29-Dec-14	9,458	9,626	60	Marcellus
30	29-Dec-14	9,259	9,427	60	Marcellus
31	29-Dec-14	9,059	9,227	60	Marcellus
32	29-Dec-14	8,860	9,028	60	Marcellus
33	30-Dec-14	8,660	8,829	60	Marcellus
34	30-Dec-14	8,461	8,629	60	Marcellus
35	30-Dec-14	8,261	8,430	60	Marcellus
36	30-Dec-14	8,062	8,230	60	Marcellus
37	31-Dec-14	7,862	8,031	60	Marcellus
38	31-Dec-14	7,663	7,831	60	Marcellus
39	31-Dec-14	7,464	7,632	60	Marcellus
40	31-Dec-14	7,264	7,432	60	Marcellus
41	1-Jan-15	7,065	7,233	60	Marcellus
42	1-Jan-15	6,865	7,033	60	Marcellus

RECEIVED
 JUL 20 2015
 WV GEOLOGICAL SURVEY
 MORGANTOWN, WV

API 47-017-06371 Farm Name Horton, Judy A. Well Number Washington 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	28-Oct-14	60.0	7,278	N/A	0	207,280	6,073	N/A
2	20-Dec-14	61.6	7,238	N/A	4,692	232,070	6,568	N/A
3	20-Dec-14	64.0	6,976	5,990	4,681	236,590	6,438	N/A
4	20-Dec-14	63.5	6,791	5,445	4,413	237,720	6,488	N/A
5	21-Dec-14	63.1	6,960	5,879	4,549	237,640	6,358	N/A
6	21-Dec-14	64.0	7,025	5,776	4,485	236,280	6,445	N/A
7	21-Dec-14	64.0	6,918	5,572	4,612	233,480	6,281	N/A
8	21-Dec-14	60.3	6,973	5,558	4,570	239,440	6,304	N/A
9	22-Dec-14	61.2	6,904	5,636	4,170	238,980	6,288	N/A
10	22-Dec-14	64.0	6,966	5,429	4,317	210,820	6,940	N/A
11	22-Dec-14	63.0	7,158	6,098	4,603	229,360	6,170	N/A
12	22-Dec-14	62.7	7,082	5,540	4,295	236,915	6,233	N/A
13	23-Dec-14	63.4	6,874	5,754	4,367	237,250	6,187	N/A
14	23-Dec-14	63.0	6,897	5,840	4,077	237,040	6,202	N/A
15	23-Dec-14	63.0	6,899	5,715	4,148	237,020	6,183	N/A
16	23-Dec-14	62.3	6,537	6,145	4,309	229,435	6,071	N/A
17	26-Dec-14	63.0	7,094	5,940	4,710	228,640	6,036	N/A
18	26-Dec-14	36.0	8,870	5,802	5,183	1,860	5,925	N/A
19	26-Dec-14	62.9	6,783	6,170	4,752	214,185	6,065	N/A
20	27-Dec-14	62.0	6,437	5,581	5,121	237,875	6,227	N/A
21	27-Dec-14	64.0	6,751	5,991	4,375	230,300	5,987	N/A
22	27-Dec-14	63.0	6,743	5,616	4,558	206,740	5,649	N/A
23	27-Dec-14	64.5	6,684	5,693	5,275	238,480	6,061	N/A
24	28-Dec-14	64.3	6,669	5,697	5,440	238,060	6,054	N/A
25	28-Dec-14	64.0	6,682	5,645	4,627	229,240	5,918	N/A
26	28-Dec-14	64.3	6,769	6,505	5,046	237,780	6,008	N/A
27	28-Dec-14	64.7	6,505	6,358	5,243	236,525	5,998	N/A
28	29-Dec-14	64.7	6,513	5,704	5,161	237,550	5,957	N/A
29	29-Dec-14	64.5	6,642	5,636	4,499	237,375	5,946	N/A
30	29-Dec-14	64.3	6,442	5,361	4,846	235,420	5,952	N/A
31	29-Dec-14	64.8	6,424	5,450	5,107	237,700	5,909	N/A
32	30-Dec-14	66.4	6,518	5,285	5,232	237,550	5,905	N/A
33	30-Dec-14	65.7	6,420	5,293	5,089	234,175	5,871	N/A
34	30-Dec-14	64.2	6,332	5,479	4,084	202,090	6,419	N/A
35	30-Dec-14	64.6	6,265	5,411	4,978	236,900	5,892	N/A
36	31-Dec-14	66.1	6,626	5,465	5,389	221,925	6,391	N/A
37	31-Dec-14	58.9	6,788	5,736	4,681	101,865	6,003	N/A
38	31-Dec-14	64.3	6,645	5,014	3,505	237,405	5,816	N/A
39	31-Dec-14	64.9	6,101	5,408	4,942	234,000	5,761	N/A
40	31-Dec-14	65.9	6,466	5,536	4,774	237,595	5,784	N/A
41	1-Jan-15	65.4	6,431	5,859	4,882	237,555	5,757	N/A
42	1-Jan-15	63.1	5,921	5,704	4,202	226,280	5,642	N/A
AVG=		62.9	6,762	5,693	4,571	9,372,390	256,162	TOTAL

RECEIVED

JUL 20 2015

WV GEOLOGICAL SURVEY
MORGANTOWN, WV

API 47-017-06371 Farm Name Horton, Judy A. Well Number Washington Unit 2H

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	109	169	109	169
Siltstone/ Trace Coal	169	329	169	329
Siltstone/ Shale	329	429	329	429
Shale	429	509	429	509
Sandstone	509	549	509	549
Shale/ Siltstone	549	629	549	629
Limestone/ Shale	629	689	629	689
Shale/ Siltstone	689	829	689	829
Shale/ Limestone	829	909	829	909
Sandstone	909	969	909	969
Shale	969	1089	969	1089
Siltstone/ Trace Coal	1089	1429	1089	1429
Coal	1429	1549	1429	1549
Siltstone/ Trace Coal	1549	1689	1549	1689
Shale/ Siltstone	1689	1909	1689	1909
Big Lime	1,899	2028	1900	2029
Big Injun	2028	2382	2029	2382
Gantz Sand	2382	2562	2382	2562
Fifty Foot Sandstone	2562	2637	2562	2638
Gordon	2637	2964	2638	2965
Fifth Sandstone	2964	2983	2965	2983
Bayard	2983	3367	2983	3368
Warren	3367	3719	3368	3719
Speechley	3719	3992	3719	3993
Baltown	3992	4496	3993	4497
Bradford	4496	4915	4497	4916
Benson	4915	5181	4916	5182
Alexander	5181	5364	5182	5364
Elk	5364	5817	5364	5818
Rhinestreet	5817	6186	5818	6197
Sycamore	6186	6363	6197	6421
Middlesex	6363	6487	6421	6636
Burkett	6487	6519	6636	6716
Tully	6519	6551	6716	6821
Marcellus	6551	NA	6821	NA

RECEIVED
JUL 20 2015

WV GEOLOGICAL SURVEY
MORGANTOWN, WV

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	10/28/2014
Job End Date:	1/1/2015
State:	West Virginia
County:	Doddridge
API Number:	47-017-06371-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Washington Unit 2H
Longitude:	-80.83987200
Latitude:	39.23424700
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	6,658
Total Base Water Volume (gal):	10,757,880
Total Base Non Water Volume:	477,815



Frac Focus
Chemical Disclosure Registry



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	90.19960	
Sand	J.S. Well Services, LLC	Proppant	Crystalline Silica, quartz	14808-60-7	100.00000	9.42242	
LGC-15	J.S. Well Services	Gelling Agents	Guar Gum	9000-30-0	50.00000	0.06813	
			Petroleum Distillates	64742-47-8	60.00000	0.06452	
			Suspending agent (solid)	14808-60-7	3.00000	0.01042	
			Surfactant	68439-51-0	3.00000	0.00409	
HCL Acid (12.6%-18.0%)	J.S. Well Services, LLC	Bulk Acid	Water	7732-18-5	87.50000	0.08978	
			Hydrogen Chloride	7647-01-0	18.00000	0.02145	
WFRA-405	J.S. Well Services	Friction Reducer	Water	7732-18-5	40.00000	0.02760	
			Anionic Polyacrylamide	Proprietary	40.00000	0.02760	
			Petroleum Distillates	64742-47-8	40.00000	0.02222	
			Ethoxylated alcohol blend	Proprietary	5.00000	0.00345	
			Crystalline Salt	12125-02-9	5.00000	0.00345	

SI-1100	J.S. Well Services	Scale Inhibitor						
		Di Water	7732-18-5		80.00000		0.01069	
		Ethylene Glycol	107-21-1		40.00000		0.00604	
		Potassium salt of diethylene triamine penta (methylene phosphonic acid)	15827-60-8		10.00000		0.00180	
		2-Phosphonobutane 1,2,4 tricarboxylic salt	37971-36-1		10.00000		0.00172	
		hexamethylenediamine tetra (methylene phosphonic acid)	38820-59-6		10.00000		0.00167	
		Copolymer of Maleic and Acrylic acid	26677-99-6		10.00000		0.00158	
		bis (hexamethylene) tramine penta (methylene phosphonic acid) - phosphate acid	40623-75-4		10.00000		0.00154	
		Acrylic polymer	52255-49-9		5.00000		0.00067	
K-BAC 1020	J.S. Well Services	Anti-Bacterial Agent						
		2,2-dibromo-3-nitropropionamide	10222-01-2		20.00000		0.00470	
		Deionized Water	7732-18-5		28.00000		0.00269	
AP One	J.S. Well Services	Gel Breakers						
		Ammonium Persulfate	7727-54-0		100.00000		0.00182	
AI-301	J.S. Well Services	Acid Corrosion Inhibitors						
		Diethylene Glycol	111-46-6		30.00000		0.00014	
		Methenamine	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	

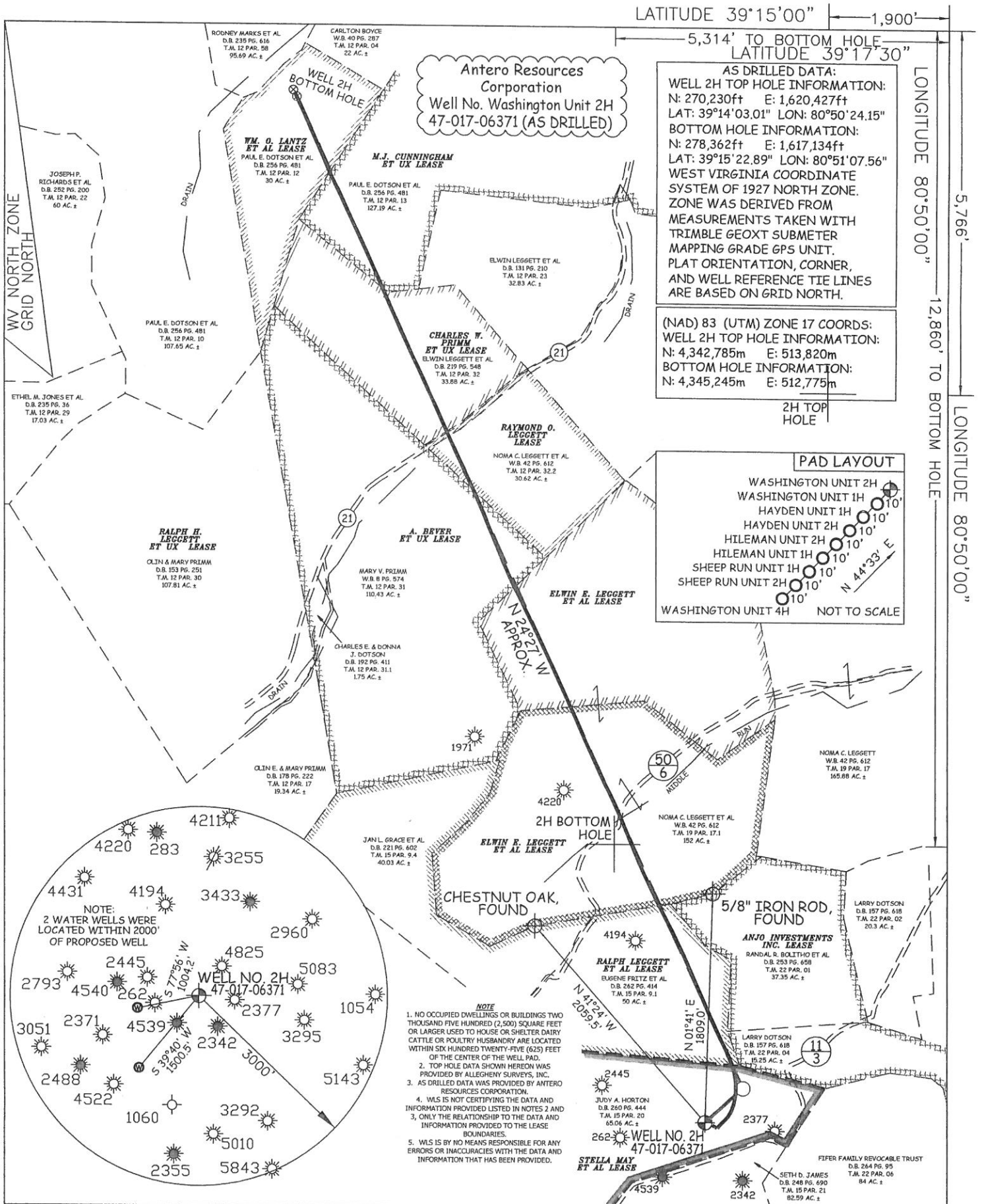
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.

* 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%

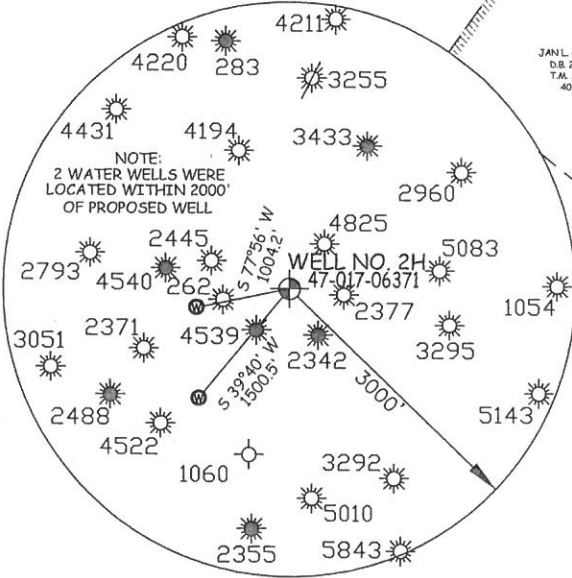
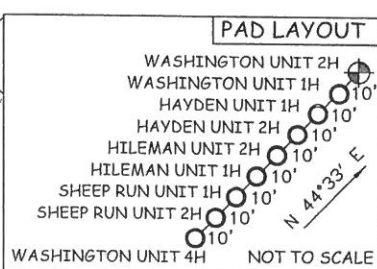
Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided. Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

RECEIVED
 JUL 20 2015
 WV GEOLOGICAL SURVEY
 MORGANTOWN, WV



AS DRILLED DATA:
 WELL 2H TOP HOLE INFORMATION:
 N: 270,230ft E: 1,620,427ft
 LAT: 39°14'03.01" LON: 80°50'24.15"
 BOTTOM HOLE INFORMATION:
 N: 278,362ft E: 1,617,134ft
 LAT: 39°15'22.89" LON: 80°51'07.56"
 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: 4,342,785m E: 513,820m
 BOTTOM HOLE INFORMATION:
 N: 4,345,245m E: 512,775m



- 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 # WASHINGTON2HAD
 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 07/09/15
 OPERATOR'S WELL# WASHINGTON UNIT #2H
 API WELL # 47-017-06371
 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 1,066' 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; LEASE ACREAGE 65 ACRES+; 187 ACRES+; 79 ACRES+; ELWIN E. LEGGETT ET AL; A. BEVER ET UX; RAYMOND O. LEGGETT; CHARLES W. PRIMM ET UX; M.J. CUNNINGHAM ET UX; WM O. LANTZ ET AL 71 ACRES+; 113 ACRES+; 30 ACRES+; 34 ACRES+; 228 ACRES+; 30 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 6,644' TVD 15,297' 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