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WR-35
Rev. 8/23/13

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 - 06395 County Doddridge District Grant
Quad Smithburg 7.5' Pad Name Revival Pad Field/Pool Name _____
Farm name Williams, Larry et al Well Number Gains 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 4,352,804m Easting 526,712m
Landing Point of Curve Northing 4,352,496.63m Easting 526,557.50m
Bottom Hole Northing 4,350,655m Easting 527,169m

Elevation (ft) 1,376' 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 11/26/2013 Date drilling commenced 12/05/2013 Date drilling ceased 10/17/2014
Date completion activities began 11/11/2014 Date completion activities ceased 01/23/2015
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 427' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1,687' Void(s) encountered (Y/N) depths None
Coal depth(s) ft None Identified Cavern(s) encountered (Y/N) depths None
Is coal being mined in area (Y/N) No

Reviewed by: _____

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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	51#; H-40	N/A	Yes
Surface	17 1/2"	13 3/8"	483'	New	48#; H-40	N/A	Yes
Coal							
Intermediate 1	12 1/4"	9 5/8"	2,550'	New	36#; J-55	N/A	Yes
Intermediate 2							
Intermediate 3							
Production	8 3/4" & 8 1/2"	5 1/2"	14,070'	New	20#; P-110	N/A	Yes
Tubing		2 3/8"	7,381'	New	4.7#; N-80	N/A	
Packer type and depth set							

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	100 sx	15.6	1.18	38	0'	8 Hrs.
Surface	Class A	590 sx	15.6	1.18	335	0'	8 Hrs.
Coal							
Intermediate 1	Class A	939 sx	15.6	1.18	799	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	1,141 sx (Lead); 1,059 sx (Tail)	14.2 (Lead); 15.2 (Tail)	1.3 (Lead); 1.86 (Tail)	2,754	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 14,070' MD, 7,196' TVD (BHL); 7,236' TVD (Deepest Point Drilled) Loggers TD (ft) 14,022'

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

Plug back procedure N/A

Kick off depth (ft) 6,882'

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 _____

**This is a subsequent well. Antero only runs wireline logs on one well on a multi-well pad (Mt. Salem Revival Unit 1H, API #47-017-06269). Please reference the wireline logs submitted with Form WR-35 for the Mt. Salem Revival Unit 1H. A Cement Bond Log has been included with this submittal.

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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.

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>			
Marcellus	7,172' (top)	TVD	7,444' (top)	MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 3,550 psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas Oil NGL Water GAS MEASURED BY
8,434 mcfpd 3 bpd _____ bpd 1 bpd 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 ATTACHED EXHIBIT 3					

Please insert additional pages as applicable.

Drilling Contractor Patterson- UTI Drilling Company, LLC
Address 207 Carlton Drive City Eighty Four State PA Zip 15330

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

Cementing Company Nabors Completion & Production Services, Co.
Address 1650 Hackers Creek City Jane Lew State WV Zip 26378

Stimulating Company Baker Hughes
Address 837 Philippi Pike City Clarksburg State WV Zip 26301

Please insert additional pages as applicable.

Completed by Megan Darling Telephone 303-357-7230
Signature  Title Permitting Agent Date 08/14/2015

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EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	11-Nov-14	13,806	13,972	60	Marcellus
2	11-Dec-14	13,608	13,775	60	Marcellus
3	11-Dec-14	13,411	13,577	60	Marcellus
4	12-Dec-14	13,213	13,380	60	Marcellus
5	12-Dec-14	13,016	13,183	60	Marcellus
6	12-Dec-14	12,819	12,985	60	Marcellus
7	13-Dec-14	12,621	12,788	60	Marcellus
8	13-Dec-14	12,424	12,590	60	Marcellus
9	13-Dec-14	12,226	12,393	60	Marcellus
10	13-Dec-14	12,029	12,195	60	Marcellus
11	14-Dec-14	11,831	11,998	60	Marcellus
12	14-Dec-14	11,634	11,800	60	Marcellus
13	14-Dec-14	11,436	11,603	60	Marcellus
14	14-Dec-14	11,239	11,405	60	Marcellus
15	15-Dec-14	11,041	11,208	60	Marcellus
16	15-Dec-14	10,844	11,011	60	Marcellus
17	16-Dec-14	10,646	10,813	60	Marcellus
18	16-Dec-14	10,449	10,616	60	Marcellus
19	16-Dec-14	10,252	10,418	60	Marcellus
20	17-Dec-14	10,054	10,221	60	Marcellus
21	17-Dec-14	9,857	10,023	60	Marcellus
22	17-Dec-14	9,659	9,826	60	Marcellus
23	17-Dec-14	9,462	9,628	60	Marcellus
24	18-Dec-14	9,264	9,431	60	Marcellus
25	18-Dec-14	9,067	9,233	60	Marcellus
26	18-Dec-14	8,869	9,036	60	Marcellus
27	18-Dec-14	8,672	8,838	60	Marcellus
28	19-Dec-14	8,474	8,641	60	Marcellus
29	19-Dec-14	8,277	8,444	60	Marcellus
30	19-Dec-14	8,080	8,246	60	Marcellus
31	19-Dec-14	7,882	8,049	60	Marcellus
32	20-Dec-14	7,685	7,851	60	Marcellus
33	20-Dec-14	7,487	7,654	60	Marcellus

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API 47-017-06395 Farm Name Williams, Larry et al Well Number Gains 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-Dec-14	63.0	6,648	0	5,022	212,557	7,013	N/A
2	11-Dec-14	64.0	7,151	6,310	5,662	244,640	6,603	N/A
3	11-Dec-14	65.8	6,798	5,599	5,354	242,697	6,561	N/A
4	12-Dec-14	64.0	6,647	5,706	5,406	241,354	6,482	N/A
5	12-Dec-14	65.0	6,885	5,900	5,551	242,024	6,397	N/A
6	12-Dec-14	65.0	6,804	5,747	5,207	240,867	6,451	N/A
7	13-Dec-14	65.0	6,466	5,670	5,310	243,016	6,728	N/A
8	13-Dec-14	64.0	6,699	5,918	5,214	241,793	6,360	N/A
9	13-Dec-14	64.0	6,736	5,785	5,299	241,517	6,350	N/A
10	13-Dec-14	64.0	6,318	5,515	5,240	241,522	6,328	N/A
11	14-Dec-14	64.0	6,671	5,683	5,108	241,451	6,305	N/A
12	14-Dec-14	64.0	6,612	5,852	5,299	242,840	6,296	N/A
13	14-Dec-14	65.0	6,590	5,774	4,990	241,970	6,265	N/A
14	14-Dec-14	64.0	6,618	5,720	5,166	242,908	6,323	N/A
15	15-Dec-14	63.0	6,820	5,576	5,271	242,665	6,239	N/A
16	15-Dec-14	63.0	6,618	5,446	5,607	247,110	6,313	N/A
17	16-Dec-14	60.0	6,138	5,612	5,269	112,843	6,789	N/A
18	16-Dec-14	63.0	6,535	5,523	5,252	242,933	6,226	N/A
19	16-Dec-14	64.0	6,431	6,321	5,158	244,128	6,209	N/A
20	17-Dec-14	64.0	6,182	5,160	6,214	260,354	6,473	N/A
21	17-Dec-14	64.0	6,482	5,472	5,453	241,627	6,125	N/A
22	17-Dec-14	65.0	6,199	5,310	5,325	246,401	6,139	N/A
23	17-Dec-14	63.3	6,247	5,278	5,155	244,114	6,194	N/A
24	18-Dec-14	63.5	6,312	5,405	5,137	241,449	6,397	N/A
25	18-Dec-14	64.0	6,258	5,394	5,212	240,864	6,102	N/A
26	18-Dec-14	65.0	6,369	5,493	4,850	243,243	6,061	N/A
27	18-Dec-14	64.0	6,114	5,246	5,255	240,962	6,216	N/A
28	19-Dec-14	64.0	6,517	5,365	5,090	241,413	6,160	N/A
29	19-Dec-14	64.0	6,189	5,468	4,933	243,100	6,082	N/A
30	19-Dec-14	64.0	6,202	5,301	5,345	240,929	6,017	N/A
31	19-Dec-14	64.0	6,104	5,302	5,338	244,109	6,124	N/A
32	20-Dec-14	64.0	6,231	5,360	5,401	243,967	6,076	N/A
33	20-Dec-14	64.0	6,055	5,959	4,436	241,083	5,971	N/A
	AVG=	64.0	6,474	5,429	5,258	7,864,450	208,374	TOTAL

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EXHIBIT 3				
LITHOLOGY/ FORMATION	TOP DEPTH (TVD) From Surface	BOTTOM DEPTH (TVD) From Surface	TOP DEPTH (MD) From Surface	BOTTOM DEPTH (MD) From Surface
Fresh Water	427'	N/A	427'	N/A
Shale	0	337	0	337
Siltstone/ Sandstone	Est. 337	597	Est. 337	597
Shale	Est. 597	707	Est. 597	707
Sandstone	Est. 707	837	Est. 707	837
Siltstone/ Shale	Est. 837	917	Est. 837	917
Shale	Est. 917	1,727	Est. 917	1,727
Sandstone	Est. 1727	1,787	Est. 1727	1,787
Shale	Est. 1787	1,907	Est. 1787	1,907
Sandstone/ Trace Coal	Est. 1907	1,987	Est. 1907	1,987
Sandstone	Est. 1987	2,127	Est. 1987	2,127
Sandstone/ Trace Coal	Est. 2127	2,147	Est. 2127	2,147
Shale/ Sandstone	Est. 2147	2,221	Est. 2147	2,221
Big Lime	2,221	2,316	2,221	2,316
Big Injun	2,316	2,787	2,316	2,787
Gantz Sand	2,787	2,957	2,787	2,957
Fifty Foot Sandstone	2,957	2,991	2,957	2,991
Gordon	2,991	3,316	2,991	3,316
Fifth Sandstone	3,316	3,381	3,316	3,381
Bayard	3,381	3,738	3,381	3,738
Warren	3,738	4,100	3,738	4,100
Speechley	4,100	4,393	4,100	4,396
Baltown	4,393	4,857	4,396	4,870
Bradford	4,857	5,323	4,870	5,371
Benson	5,323	5,587	5,371	5,640
Alexander	5,587	5,731	5,640	5,786
Elk	5,731	6,488	5,786	6,553
Rhinestreet	6,488	6,689	6,553	6,761
Sycamore	6,689	6,920	6,761	7,011
Middlesex	6,920	7,065	7,011	7,212
Burkett	7,065	7,092	7,212	7,261
Tully	7,092	7,172	7,261	7,444
Marcellus	7,172	NA	7,444	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:	12/11/2014
Job End Date:	12/20/2014
State:	West Virginia
County:	Doddridge
API Number:	47-017-06395-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Gains Unit 1H
Longitude:	-80.69010000
Latitude:	39.32423300
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	7,236
Total Base Water Volume (gal):	7,246,134
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	Operator	Carrier	Water	7732-18-5	100.00000	88.08365	
Sand, White, 40/70	Baker Hughes	Proppant	MSDS and Non-MSDS Ingredients Listed Below	N/A		6.41063	
Sand, White, 20/40	Baker Hughes	Proppant	MSDS and Non-MSDS Ingredients Listed Below	N/A		4.17522	
Sand, White, 100 mesh	Baker Hughes	Proppant	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.85560	
HCl, 10.1 - 15%	Baker Hughes	Acidizing	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.26744	SmartCare Product
FRW-18	Baker Hughes	Friction Reducer	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.07221	SmartCare Product
GW-3	Baker Hughes	Gelling Agent	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.05760	
Scaletrol 720	Baker Hughes	Scale Inhibitor	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.01978	SmartCare Product

Enzyme G-NE	Baker Hughes	Breaker	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.01949	SmartCare Product
Alpha 1427	Baker Hughes	Biocide	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.01087	SmartCare Product
GW-3LDF	Baker Hughes	Gelling Agent	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.00610	SmartCare Product
Ferrotrol 300L	Baker Hughes	Iron Control	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.00185	SmartCare Product
CI-14	Baker Hughes	Corrosion Inhibitor	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.00039	SmartCare Product
CI-39	Baker Hughes	Corrosion Inhibitor	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.00005	
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.							
Ingredients in Additive (s) (MSDS and non- MSDS)	Baker Hughes	See Trade Name(s) List					
			Crystalline Silica (Quartz)	14808-60-7	100.00000	11.43898	
			Water	7732-18-5	95.00000	0.29201	
			Guar Gum	9000-30-0	100.00000	0.06124	
			Hydrochloric Acid	7647-01-0	15.00000	0.04011	
			Poly (acrylamide-co-acrylic acid) partial sodium salt	62649-23-4	30.00000	0.02166	
			Hydrotreated Light Distillate	64742-47-8	30.00000	0.02166	
			Ethylene Glycol	107-21-1	45.00000	0.00890	
			Mineral Oil	8042-47-5	70.00000	0.00427	
			2-Propenoic, Polymer with Sodium Phosphinate, Sodium Salt	71050-62-9	20.00000	0.00395	
			Sodium Chloride	7647-14-5	5.00000	0.00381	
			Glutaraldehyde	111-30-8	30.00000	0.00326	
			Ammonium Chloride	12125-02-9	3.00000	0.00217	
			Paraffinic Petroleum Distillate	64742-55-8	30.00000	0.00183	
			Petroleum Distillates	64742-47-8	30.00000	0.00183	
			Oleamide DEA	93-83-4	2.00000	0.00144	
			Alcohols, C12-16, ethoxylated	68551-12-2	2.00000	0.00144	
			Citric Acid	77-92-9	60.00000	0.00111	
			Didecyl Dimethyl Ammonium Chloride	7173-51-5	10.00000	0.00109	
			Calcium Chloride	10043-52-4	5.00000	0.00099	
			Hemicellulase Enzyme Concentrate	9025-56-3	5.00000	0.00097	
			Quaternary Ammonium Compound	68424-85-1	5.00000	0.00055	
			Ethanol	64-17-5	5.00000	0.00054	
			Methanol	67-56-1	100.00000	0.00039	

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Sorbitan Monooleate	1338-43-8	0.50000	0.00036
Polyoxyethylene Sorbitan Monooleate	9005-65-6	0.50000	0.00036
1-butoxy-2-propanol	5131-66-8	5.00000	0.00030
Isotridecanol, ethoxylated	9043-30-5	5.00000	0.00030
Crystalline Silica: Quartz	14808-60-7	5.00000	0.00030
Potassium Chloride	7447-40-7	1.00000	0.00020
Polyoxyalkylenes	68951-67-7	30.00000	0.00012
Fatty Acids	61790-12-3	10.00000	0.00004
Modified Thiourea Polymer	68527-49-1	7.00000	0.00003
Oxyalkylated Fatty Acid	61791-002	40.00000	0.00002
Propargyl Alcohol	107-19-7	5.00000	0.00002
Olefin	64743-02-8	5.00000	0.00002
Tar Bases, Quinoline Derivs., Benzyl Chloride-Quaternized	72480-70-7	30.00000	0.00002
Aldehyde	104-55-2	30.00000	0.00002
Formic Acid	64-18-6	30.00000	0.00002
2-butoxy-1-propanol	15821-83-7	0.10000	0.00001
Formaldehyde	50-00-0	1.00000	0.00000
Isopropanol	67-63-0	5.00000	0.00000
Sulfurized polyolefin	68037-13-8	5.00000	0.00000
Potassium Iodide	7681-11-0	2.00000	0.00000
Polyalkylene	7756-94-7	1.00000	0.00000
Potassium Acetate	127-08-2	0.50000	0.00000

* 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)

LATITUDE 39°20'00"

6,679'

5,206' TO BOTTOM HOLE
LATITUDE 39°20'00"

LONGITUDE 80°40'00" TO BOTTOM HOLE

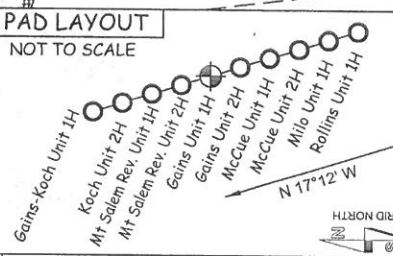
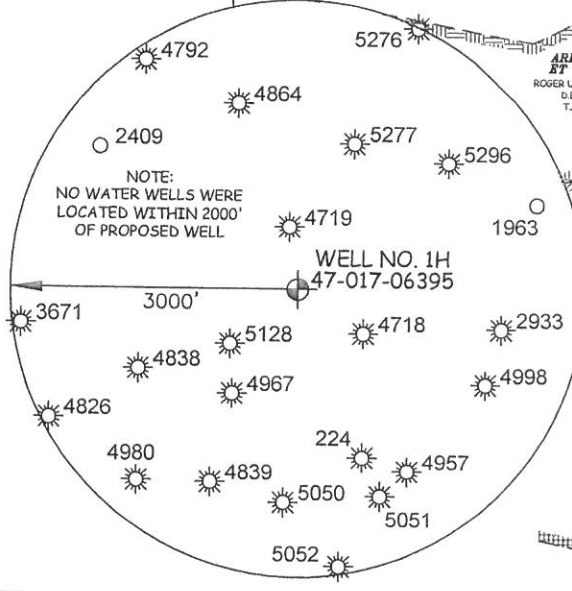
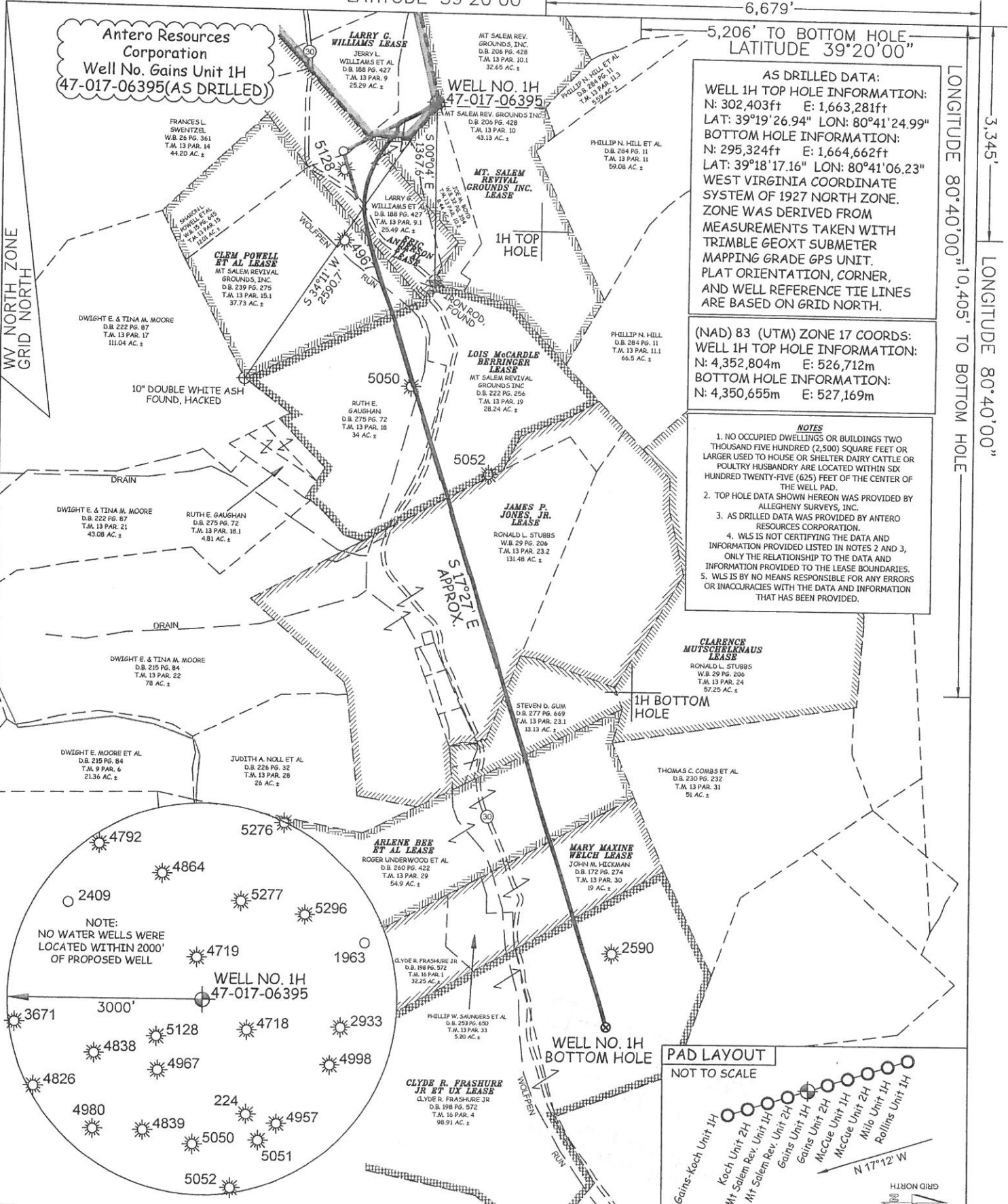
LONGITUDE 80°40'00"

Antero Resources Corporation
Well No. Gains Unit 1H
47-017-06395 (AS DRILLED)

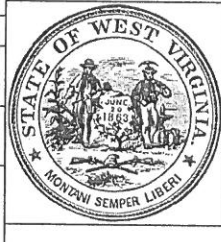
AS DRILLED DATA:
WELL 1H TOP HOLE INFORMATION:
N: 302,403ft E: 1,663,281ft
LAT: 39°19'26.94" LON: 80°41'24.99"
BOTTOM HOLE INFORMATION:
N: 295,324ft E: 1,664,662ft
LAT: 39°18'17.16" LON: 80°41'06.23"
WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE.
ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE 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: 4,352,804m E: 526,712m
BOTTOM HOLE INFORMATION:
N: 4,350,655m E: 527,169m

- NOTES
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 # 13-077WA
DRAWING # GAINSSUNIT1HAD
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
220 MASONIC AVE. PENNSBORO WEST VIRGINIA 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 1,402' ORIGINAL - 1,376' AS-DRILLED WATERSHED HEADWATERS MIDDLE ISLAND CREEK
QUADRANGLE SMITHBURG 7.5'
SURFACE OWNER LARRY WILLIAMS ET AL DISTRICT GRANT COUNTY DODDRIDGE ACREAGE 25.49 ACRES +/-
OIL & GAS ROYALTY OWNER LARRY G. WILLIAMS, MT. SALEM REVIVAL GROUNDS INC., ERIC ANDERSON ET AL; LEASE ACREAGE 35.11 ACRES +/-; 72.7 ACRES +/-; 40 ACRES +/-; CLEM POWELL ET AL; LOIS MCCARDLE BERRINGER, JAMES P. JONES, JR.; CLARENCE MUTSCHELKNAUS; ARLENE BEE ET AL; MARY MAXINE WELCH; CLYDE RYLAN FRASHURE JR. ET UX 51 AC +/-; 67.5 AC +/-; 141 AC +/-; 57 AC +/-; 55 AC +/-; 63.434 AC +/-; 131 AC +/-
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL
(SPECIFY) AS DRILLED PLUG & ABANDON CLEAN OUT & REPLUG
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,196' TVD 14,070' MD
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1615 WYNKOOP STREET ADDRESS CT CORPORATION SYSTEM
DENVER, CO 80202 CHARLESTON, WV 25313

DATE 04/22/15
OPERATOR'S WELL # GAINS UNIT #1H
API WELL # 47 - 017 - 06395
STATE COUNTY PERMIT
COUNTY NAME
PERMIT