

JUN 15 2015

WR-35  
Rev. 8/23/13

WV GEOLOGICAL SURVEY  
MORGANTOWN, WV

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

API 47 - 017 - 06294 County Doddridge District Central  
Quad Oxford 7.5' Pad Name Robert Williams Pad Field/Pool Name ----  
Farm name Williams, Robert Well Number Pike 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 4343161m Easting 511844m  
Landing Point of Curve Northing 4343374.18m Easting 511882.28m  
Bottom Hole Northing 4344951m Easting 511119m

Elevation (ft) 990' 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 8/21/2013 Date drilling commenced 2/9/2014 Date drilling ceased 7/20/2014  
Date completion activities began 8/21/2014 Date completion activities ceased 11/12/2014  
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 59' Open mine(s) (Y/N) depths No  
Salt water depth(s) ft 1509' Void(s) encountered (Y/N) depths No  
Coal depth(s) ft None Identified 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 - 06294 Farm name Williams, Robert Well number Pike 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	94# H-40	N/A	Y
Surface	17- 1/2"	13- 3/8"	362'	New	48# H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2549'	New	40# J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4" & 8-1/2"	5-1/2"	12757'	New	20# P-110	N/A	Y
Tubing		2-3/8"	6695'		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	185 sx	15.6	1.18	38	0'	8 Hrs.
Surface	Class A	450 sx	15.6	1.18	251	0'	8 Hrs.
Coal							
Intermediate 1	Class A	941 sx	15.6	1.18	798	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	859 sx (Lead) 1021 sx (Tail)	13.5 Lead 15.2 Tail	1.44 Lead 1.8 Tail	2457	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 12757' MD, 6532' TVD (BHL); 6535' TVD (Deepest point drilled) Loggers TD (ft) 12708'

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

Plug back procedure N/A

Kick off depth (ft) 5833'

\*\* This is a subsequent well. Antero only runs wireline logs on one well on a multi-well pad (Pike Unit 1H API #47-017-06289). Please reference the wireline logs submitted with Form WR-35 for the Pike Unit 1H. 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 - 06294 Farm name Williams, Robert Well number Pike Unit 2H

PERFORATION RECORD

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

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)
<b>*PLEASE SEE ATTACHED EXHIBIT 2</b>								

Please insert additional pages as applicable.

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API 47- 017 - 06294 Farm name Williams, Robert Well number Pike Unit 2H

PRODUCING FORMATION(S)	DEPTHS	
Marcellus	6482' (TOP) TVD	6754' (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 7142' mcfpd Oil 12 bpd NGL --- bpd Water 325 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)
	0		0		

**\*PLEASE SEE ATTACHED EXHIBIT 3**

Please insert additional pages as applicable.

Drilling Contractor Precision Drilling Company, LP  
Address 2640 Reach Rd. City Williamsport State PA Zip 17701

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 Street 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 Permit Representative Date 6/9/2015

**EXHIBIT 1**

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	21-Aug-14	12,518	12,684	60	Marcellus
2	28-Sep-14	12,320	12,487	60	Marcellus
3	28-Sep-14	12,123	12,289	60	Marcellus
4	29-Sep-14	11,925	12,092	60	Marcellus
5	29-Sep-14	11,728	11,895	60	Marcellus
6	29-Sep-14	11,531	11,697	60	Marcellus
7	29-Sep-14	11,333	11,500	60	Marcellus
8	30-Sep-14	11,136	11,302	60	Marcellus
9	30-Sep-14	10,938	11,105	60	Marcellus
10	30-Sep-14	10,741	10,907	60	Marcellus
11	30-Sep-14	10,543	10,710	60	Marcellus
12	30-Sep-14	10,346	10,513	60	Marcellus
13	1-Oct-14	10,149	10,315	60	Marcellus
14	1-Oct-14	9,951	10,118	60	Marcellus
15	2-Oct-14	9,754	9,920	60	Marcellus
16	2-Oct-14	9,556	9,723	60	Marcellus
17	3-Oct-14	9,359	9,525	60	Marcellus
18	3-Oct-14	9,161	9,328	60	Marcellus
19	3-Oct-14	8,964	9,131	60	Marcellus
20	3-Oct-14	8,767	8,933	60	Marcellus
21	4-Oct-14	8,569	8,736	60	Marcellus
22	4-Oct-14	8,372	8,538	60	Marcellus
23	4-Oct-14	8,174	8,341	60	Marcellus
24	4-Oct-14	7,977	8,143	60	Marcellus
25	5-Oct-14	7,779	7,946	60	Marcellus
26	5-Oct-14	7,582	7,749	60	Marcellus
27	6-Oct-14	7,385	7,551	60	Marcellus
28	6-Oct-14	7,187	7,354	60	Marcellus
29	6-Oct-14	6,990	7,156	60	Marcellus
30	6-Oct-14	6,792	6,959	60	Marcellus

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## 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-Sep-14	61.7	6,841	5,733	4,807	235,800	6,657	N/A
2	28-Sep-14	61.5	6,567	6,015	4,395	236,000	6,535	N/A
3	29-Sep-14	65.7	6,778	5,912	4,478	229,600	6,393	N/A
4	29-Sep-14	63.5	6,591	5,919	5,146	214,800	7,104	N/A
5	29-Sep-14	62.8	6,330	5,904	5,533	236,800	6,515	N/A
6	29-Sep-14	65.0	6,335	5,744	5,282	236,100	6,350	N/A
7	29-Sep-14	67.0	6,764	5,894	4,470	231,000	6,328	N/A
8	30-Sep-14	64.7	6,859	5,736	4,817	221,400	6,990	N/A
9	30-Sep-14	64.7	6,419	5,421	4,563	232,400	6,336	N/A
10	30-Sep-14	64.0	6,574	5,811	4,785	231,850	6,231	N/A
11	30-Sep-14	64.0	6,664	5,929	5,379	222,950	6,127	N/A
12	1-Oct-14	62.6	6,607	5,389	4,120	157,500	6,282	N/A
13	1-Oct-14	62.7	6,413	5,186	4,281	157,500	6,265	N/A
14	2-Oct-14	62.8	6,763	5,479	5,311	228,750	6,151	N/A
15	2-Oct-14	65.0	6,887	5,436	6,030	195,850	6,455	N/A
16	3-Oct-14	65.0	6,508	5,279	4,492	204,100	6,809	N/A
17	3-Oct-14	62.9	6,371	5,604	3,927	236,750	6,184	N/A
18	3-Oct-14	62.0	6,866	6,409	4,184	197,800	5,666	N/A
19	3-Oct-14	65.0	6,753	5,535	4,599	240,200	6,292	N/A
20	3-Oct-14	65.0	6,744	5,690	5,196	236,050	6,331	N/A
21	4-Oct-14	62.1	6,345	5,554	5,053	212,750	5,789	N/A
22	4-Oct-14	62.1	6,314	5,804	4,638	235,250	6,066	N/A
23	4-Oct-14	65.0	6,421	5,325	4,177	236,750	6,129	N/A
24	5-Oct-14	62.9	6,187	5,908	4,063	235,000	6,028	N/A
25	5-Oct-14	65.0	7,011	6,040	4,792	177,850	6,593	N/A
26	5-Oct-14	65.0	6,530	5,472	5,111	237,725	6,160	N/A
27	6-Oct-14	65.0	6,155	5,375	4,857	237,900	5,957	N/A
28	6-Oct-14	63.8	6,168	5,411	3,623	236,050	5,938	N/A
29	6-Oct-14	65.0	6,399	5,919	6,119	209,825	5,672	N/A
30	6-Oct-14	65.0	6,346	6,419	4,835	241,800	6,054	N/A
AVG=		<b>64.0</b>	<b>6,550</b>	<b>5,708</b>	<b>4,769</b>	<b>6,644,100</b>	<b>188,387</b>	TOTAL

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## 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	59'	N/A	59'	N/A
Shale/ Sandstone	0	429	0	429
Limestone/ Sandstone	429	509	429	509
Shale/ Siltstone	509	589	509	589
Sandstone/ Trace Coal	589	609	589	609
Sandstone/ Siltstone	609	689	609	689
Sandstone/ Limestone	689	789	689	789
Shale/ Sandstone	789	949	789	949
Siltstone/ Limestone	949	1329	949	1329
Shale/ Trace Coal	1329	1389	1329	1389
Shale/ Sandstone	1389	1429	1389	1429
Shale/ Coal	1429	1489	1429	1489
Sandstone	1489	1529	1489	1529
Sandstone/ Trace Coal	1529	1669	1529	1669
Sandstone/ Siltstone	1669	1909	1669	1909
Sandstone/ Trace Coal	1909	1999	1909	1999
Big Lime	1999	2093	1999	2093
Big Injun	2093	2404	2093	2404
Gantz Sand	2404	2589	2404	2589
Fifty Foot Sandstone	2589	2641	2589	2641
Gordon	2641	2980	2641	2980
Fifth Sandstone	2980	3026	2980	3026
Bayard	3026	3426	3026	3426
Warren	3426	3789	3426	3789
Speechley	3789	4085	3789	4085
Baltown	4085	4550	4085	4550
Bradford	4550	4958	4550	4958
Benson	4958	5220	4958	5220
Alexander	5220	5469	5220	5469
Elk	5469	5815	5469	5815
Rhinestreet	5815	6141	5815	6171
Sycamore	6141	6308	6171	6414
Middlesex	6308	6427	6414	6614
Burkett	6427	6454	6614	6673
Tully	6454	6482	6673	6754
Marcellus	6482	NA	6754	NA

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**Hydraulic Fracturing Fluid Product Component Information Disclosure**

Job Start Date:	9/28/2014
Job End Date:	10/6/2014
State:	West Virginia
County:	Doddridge
API Number:	47-017-06294-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Pike Unit 2H
Longitude:	-80.86276100
Latitude:	39.23766400
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	6,535
Total Base Water Volume (gal):	7,912,254
Total Base Non Water Volume:	339,014



**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					
Sand	U.S. Well Services, LLC	Proppant	Water	7732-18-5	100.00000	89.57272	
HCL Acid (12.6%-18.0%)	U.S. Well Services, LLC	Bulk Acid	Crystalline Silica, quartz	14808-60-7	100.00000	10.07722	
WFRA-405	U.S. Well Services, LLC	Friction Reducer	Water	7732-18-5	87.50000	0.12812	
			Hydrogen Chloride	7647-01-0	18.00000	0.03060	
			Water	7732-18-5	40.00000	0.03240	
			Antionic Polyacrylamide	Proprietary		0.03240	
			Petroleum Distillates	64742-47-8	22.00000	0.02608	
			Ethoxylated alcohol blend	Proprietary	5.00000	0.00405	
			Crystalline Salt	12125-02-9	5.00000	0.00405	
LGC-15	U.S. Well Services, LLC	Gelling Agents					
			Guar Gum	9000-30-0	50.00000	0.03343	
			Petroleum Distillates	64742-47-8	60.00000	0.03166	
			Suspending agent (solid)	14808-60-7	3.00000	0.00511	



SI-1000	J.S. Well Services, LLC	Scale Inhibitor	Surfactant	68439-51-0	3.00000	0.00201
			Anionic Copolymer	Proprietary		0.00412
			Ethylene Glycol	107-21-1	20.00000	0.00372
			Water	7732-18-5	30.00000	0.00310
K-BAC 1020	J.S. Well Services, LLC	Anti-Bacterial Agent				
			2,2-dibromo-3-nitropropionamide	10222-01-2	20.00000	0.00461
			Deionized Water	7732-18-5	28.00000	0.00263
AP One	J.S. Well Services, LLC	Gel Breakers				
			Ammonium Persulfate	7727-54-0	100.00000	0.00145
AI-301	J.S. Well Services	Acid Corrosion Inhibitors				
			Diethylene Glycol	111-46-6	30.00000	0.00020
			Methenamine	100-97-0	20.00000	0.00016
			Hydrogen Chloride	7647-01-0	10.00000	0.00007
			Polyethylene polyamine	38603-67-8	10.00000	0.00006
			Coco amine	51791-14-8	5.00000	0.00003

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"

8,382'

10,751' TO BOTTOM HOLE

LATITUDE 39°17'30"

LONGITUDE 80°50'00"

4,521'

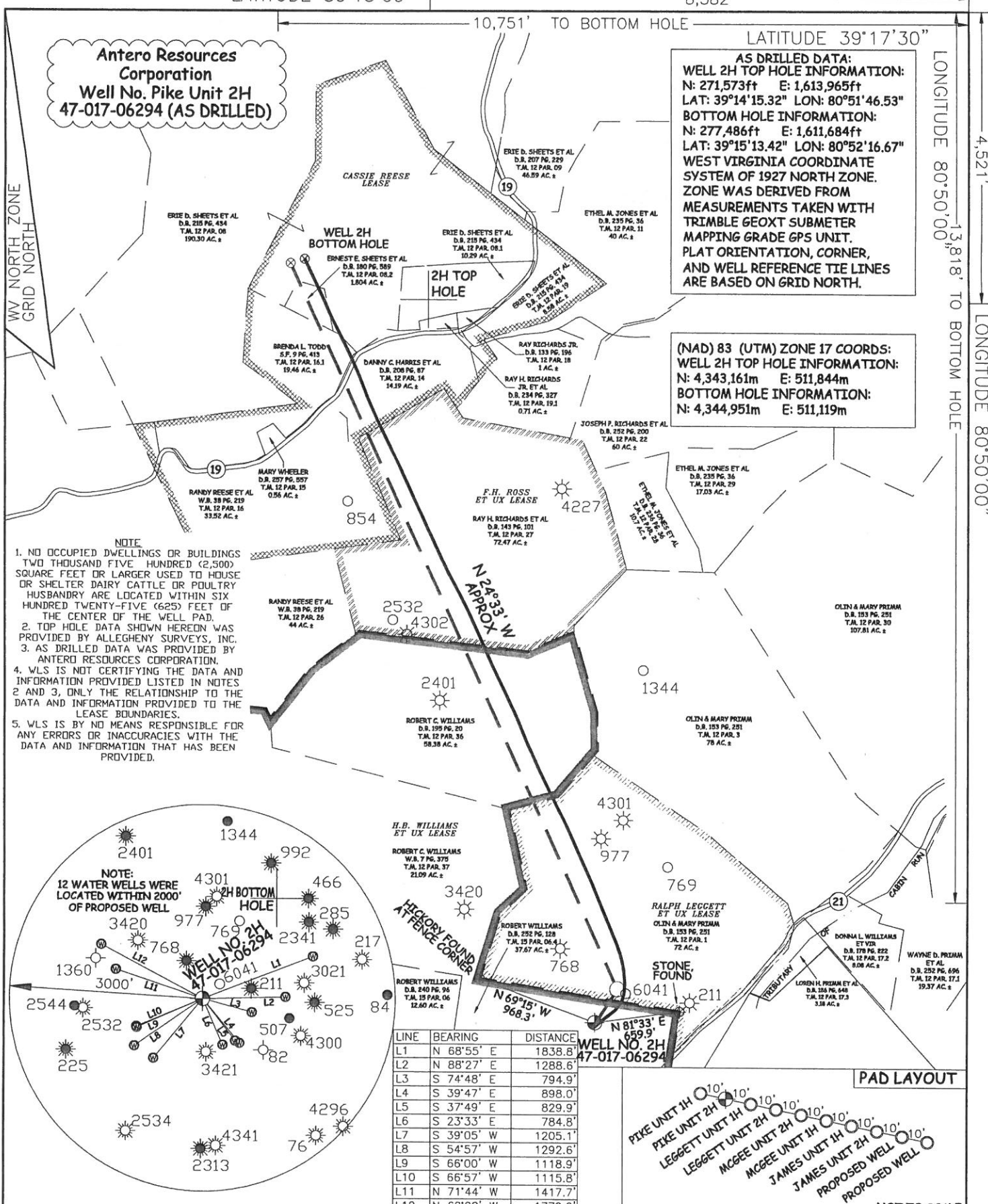
13,818' TO BOTTOM HOLE

LONGITUDE 80°50'00"

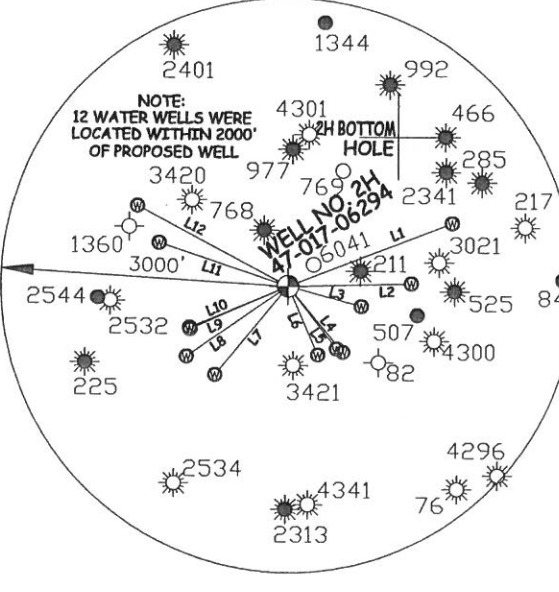
Antero Resources Corporation  
Well No. Pike Unit 2H  
47-017-06294 (AS DRILLED)

AS DRILLED DATA:  
WELL 2H TOP HOLE INFORMATION:  
N: 271,573ft E: 1,613,965ft  
LAT: 39°14'15.32" LON: 80°51'46.53"  
BOTTOM HOLE INFORMATION:  
N: 277,486ft E: 1,611,684ft  
LAT: 39°15'13.42" LON: 80°52'16.67"  
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.

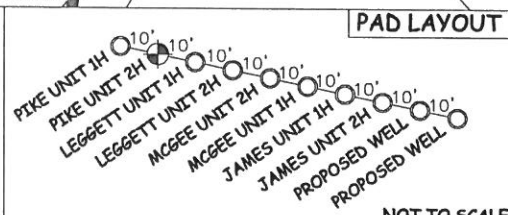
(NAD) 83 (UTM) ZONE 17 COORDS:  
WELL 2H TOP HOLE INFORMATION:  
N: 4,343,161m E: 511,844m  
BOTTOM HOLE INFORMATION:  
N: 4,344,951m E: 511,119m



- 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.



LINE	BEARING	DISTANCE
L1	N 68°55' E	1838.8'
L2	N 88°27' E	1288.6'
L3	S 74°48' E	794.9'
L4	S 39°47' E	898.0'
L5	S 37°49' E	829.9'
L6	S 23°33' E	784.8'
L7	S 39°05' W	1205.1'
L8	S 54°57' W	1292.6'
L9	S 66°00' W	1118.9'
L10	S 66°57' W	1115.8'
L11	N 71°44' W	1417.7'
L12	N 62°20' W	1779.0'



JOB # 13-018WA  
DRAWING # PIKE2HAD  
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 +/-  
X Existing Fence  
⊕ Found monument, as noted  
○ Proposed Well Path  
⊗ As Drilled Well Path  
DATE 05/26/15  
OPERATOR'S WELL# PIKE UNIT #2H  
API WELL # 47 - 017 - 06294

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 1,000' ORIGINAL - 990' 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 ROBERT WILLIAMS ACREAGE 37.67 ACRES +/-  
OIL & GAS ROYALTY OWNER H.B. WILLIAMS ET UX; RALPH LEGGETT ET UX; LEASE ACREAGE 307 ACRES±; 72 ACRES±; F.H. ROSS ET UX; CASSIE REESE 72 ACRES±; 142 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 6,532' TVD 12,757' MD  
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER  
ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD  
DENVER, CO 80202 CHARLESTON, WV 25313

COUNTY NAME PERMIT