

APPROVED

NAME: *Carol G. Kim*

DATE *1/3/18*



November 3, 2017

Antero Resources
1615 Wynkoop Street
Denver, CO 80202
Office 303.357.7310
Fax 303.357.7315

West Virginia Department of Environmental Protection
Office of Oil and Gas
Attn: John Kearney
601 57th Street
Charleston, WV 25304

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Mr. Kearney:

Please find enclosed the Well Operator's Report of Well Work, Form WR-35 (including As-Drilled Survey Plat, Directional Survey and FracFocus report), Discharge Monitoring Report Form WR-34 and corresponding logs for the following wells:

- Baker Unit 1H (API#47-017-06468) – Trent Pad
- Nestor Unit 1H (API#47-017-06454) – Trent Pad

If you have any questions please feel free to contact me at (303) 357-6759.

Sincerely,

A handwritten signature in blue ink, appearing to read "S. Klaas".

Samantha Klaas
Permitting Agent
Antero Resources Corporation

Enclosures

01/05/2018

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

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API 47 - 017 - 06468 County Doddridge District Greenbrier
Quad New Milton 7.5' Pad Name Trent Pad Field/Pool Name -----
Farm name Clarence Trent Jr. et al Well Number Baker 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 4340078m Easting 532021m
Landing Point of Curve Northing 4340022.047m Easting 531581.078m
Bottom Hole Northing 4342881m Easting 530667m

Elevation (ft) 1409' 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 03/19/2014 Date drilling commenced 05/14/2014 Date drilling ceased 09/07/2014
Date completion activities began 11/20/2014 Date completion activities ceased 07/14/2017
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 32', 77', 112' Open mine(s) (Y/N) depths No
Salt water depth(s) ft None Identified Void(s) encountered (Y/N) depths No
Coal depth(s) ft 1037', 1957' Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

Reviewed by:

01/05/2018

API 47-017 - 06468 Farm name Clarence Trent Jr. et al Well number Baker 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"	52'	New	133#, J-55	N/A	Y
Surface	17-1/2"	13-3/8"	351'	New	48#, H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2522'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	17914'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	7841'		4.7#, N-80		
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	120 sx	15.6	1.18	142	0'	8 Hrs.
Surface	Class A	420 sx	15.6	1.19	500	0'	8 Hrs.
Coal							
Intermediate 1	Class A	988 sx	15.6	1.18	1166	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	1233 sx (Lead) 1571 sx (Tail)	14.5 (Lead), 15.2 (Tail)	1.3 (Lead), 1.86 (Tail)	4525	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 17914' MD, 7432' TVD (BHL) & 7449' TVD (Deepest Point Drilled) Loggers TD (ft) 17874' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 7228'

** This is a subsequent well. Antero only runs wireline logs on one well on a multi-well pad (Bowen Unit 2H API #47-017-06167). Please reference the wireline logs submitted with Form WR-35 for Bowen 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

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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

API 47- 017 - 06468 Farm name Clarence Trent Jr. et al Well number Baker Unit 1H

PRODUCING FORMATION(S)	DEPTHS		
Marcellus	7399' (TOP)	TVD	7853' (TOP) MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 3950 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 10569 mcfpd Oil 2 bpd NGL --- bpd Water 791 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP		BOTTOM		DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	

***PLEASE SEE ATTACHED EXHIBIT 3**

Please insert additional pages as applicable.

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

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 US Well Services
Address 533 Industrial Park Drive City Jane Lew State WV Zip 26378

Please insert additional pages as applicable.

Completed by Samantha Klaas Telephone 303-357-6759
Signature [Signature] Title Permitting Agent Date 11/03/2017

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

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EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	11/20/2014	17654	17822	60	Marcellus
2	6/8/2017	17455	17622	60	Marcellus
3	6/8/2017	17255	17423	60	Marcellus
4	6/8/2017	17056	17224	60	Marcellus
5	6/9/2017	16857	17025	60	Marcellus
6	6/9/2017	16658	16826	60	Marcellus
7	6/9/2017	16459	16627	60	Marcellus
8	6/9/2017	16260	16428	60	Marcellus
9	6/10/2017	16061	16228	60	Marcellus
10	6/10/2017	15861	16029	60	Marcellus
11	6/10/2017	15662	15830	60	Marcellus
12	6/11/2017	15463	15631	60	Marcellus
13	6/11/2017	15264	15432	60	Marcellus
14	6/11/2017	15065	15233	60	Marcellus
15	6/11/2017	14866	15034	60	Marcellus
16	6/12/2017	14667	14835	60	Marcellus
17	6/12/2017	14467	14635	60	Marcellus
18	6/12/2017	14268	14436	60	Marcellus
19	6/12/2017	14069	14237	60	Marcellus
20	6/13/2017	13870	14038	60	Marcellus
21	6/13/2017	13671	13839	60	Marcellus
22	6/14/2017	13472	13640	60	Marcellus
23	6/14/2017	13273	13441	60	Marcellus
24	6/15/2017	13073	13241	60	Marcellus
25	6/15/2017	12874	13042	60	Marcellus
26	6/15/2017	12675	12843	60	Marcellus
27	6/15/2017	12476	12644	60	Marcellus
28	6/16/2017	12277	12445	60	Marcellus
29	6/16/2017	12078	12246	60	Marcellus
30	6/16/2017	11879	12047	60	Marcellus
31	6/16/2017	11679	11847	60	Marcellus
32	6/17/2017	11480	11648	60	Marcellus
33	6/17/2017	11281	11449	60	Marcellus
34	6/17/2017	11082	11250	60	Marcellus
35	6/17/2017	10883	11051	60	Marcellus
36	6/18/2017	10684	10852	60	Marcellus
37	6/18/2017	10485	10653	60	Marcellus
38	6/18/2017	10285	10453	60	Marcellus
39	6/18/2017	10086	10254	60	Marcellus
40	6/18/2017	9887	10055	60	Marcellus
41	6/19/2017	9688	9856	60	Marcellus
42	6/19/2017	9489	9657	60	Marcellus
43	6/19/2017	9290	9458	60	Marcellus
44	6/19/2017	9091	9259	60	Marcellus
45	6/20/2017	8891	9059	60	Marcellus
46	6/20/2017	8692	8860	60	Marcellus
47	6/20/2017	8493	8661	60	Marcellus
48	6/20/2017	8294	8462	60	Marcellus
49	12/19/2016	8095	8263	60	Marcellus
50	12/20/2016	7896	8064	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	12/13/2014	63.0	7382	5865	4113	221000	7296	N/A
2	6/8/2017	68.4	7850	6026	4760	403710	8675	N/A
3	6/8/2017	69.0	7804	7532	5136	402310	8643	N/A
4	6/8/2017	71.0	8023	6416	5136	404200	9044	N/A
5	6/9/2017	71.7	7972	6205	5279	403950	8581	N/A
6	6/9/2017	72.5	8003	5950	5325	402240	8526	N/A
7	6/9/2017	75.2	8168	5661	5146	401760	8527	N/A
8	6/9/2017	70.5	8001	6019	5339	403150	8648	N/A
9	6/10/2017	72.4	8013	5896	5218	401760	8530	N/A
10	6/10/2017	67.2	8309	6083	5347	401880	10483	N/A
11	6/10/2017	67.7	7963	5890	4685	404350	8712	N/A
12	6/11/2017	70.9	8043	5897	5586	404400	8604	N/A
13	6/11/2017	68.0	8217	5887	4832	402740	9773	N/A
14	6/11/2017	68.5	8200	5929	5296	403840	8408	N/A
15	6/11/2017	69.3	7983	6241	5200	404250	8544	N/A
16	6/12/2017	65.8	8029	6055	5629	404850	8583	N/A
17	6/12/2017	68.0	8023	6255	5221	402610	8608	N/A
18	6/12/2017	70.6	8009	6448	5282	405150	8626	N/A
19	6/12/2017	70.0	7902	6609	4241	404350	8533	N/A
20	6/13/2017	68.6	7989	6566	7020	404880	8256	N/A
21	6/13/2017	70.8	7926	5847	5511	379100	9779	N/A
22	6/14/2017	76.7	7875	5786	5543	403210	8529	N/A
23	6/14/2017	77.8	7943	6112	4878	404000	8662	N/A
24	6/15/2017	72.8	7701	6241	4982	405350	8677	N/A
25	6/15/2017	76.7	8050	6534	5164	404000	8897	N/A
26	6/15/2017	73.6	7832	6462	5329	405500	8423	N/A
27	6/15/2017	71.4	7910	6452	5164	405250	8590	N/A
28	6/16/2017	80.1	7964	6058	5153	405350	8608	N/A
29	6/16/2017	74.4	7730	6298	5203	402780	8375	N/A
30	6/16/2017	74.2	7921	6276	4503	403440	8365	N/A
31	6/16/2017	69.5	7664	6198	5225	405050	8510	N/A
32	6/17/2017	75.0	7814	5547	5364	404200	9538	N/A
33	6/17/2017	76.6	7632	5944	5047	404150	8525	N/A
34	6/17/2017	76.0	7662	6269	5053	403800	8479	N/A
35	6/17/2017	75.2	7813	6301	5332	404100	8453	N/A
36	6/18/2017	72.5	7696	6233	4796	405700	8363	N/A
37	6/18/2017	73.8	7905	6044	5064	404250	8311	N/A
38	6/18/2017	75.6	7488	5929	4746	404720	8370	N/A
39	6/18/2017	77.6	7884	5929	4967	402190	8742	N/A
40	6/18/2017	72.6	7090	6452	5411	404450	9756	N/A
41	6/19/2017	77.9	7532	6026	4828	405050	8311	N/A
42	6/19/2017	75.0	7494	6645	5168	403650	8364	N/A
43	6/19/2017	72.3	7578	6348	5404	403080	8333	N/A
44	6/19/2017	73.2	7540	6702	5096	402950	8280	N/A
45	6/20/2017	74.6	7338	5976	5182	404300	8205	N/A
46	6/20/2017	75.9	7396	5529	5221	404720	8274	N/A
47	6/20/2017	77.0	7637	6244	5457	403700	8260	N/A
48	6/20/2017	76.9	7512	6502	5211	404540	8259	N/A
49	6/20/2017	77.7	7643	6652	5540	405210	8237	N/A
50	6/21/2017	74.8	7324	6788	5103	405400	9692	N/A
AVG=		72.7	7808	6,195	5,169	19,990,570	431,767	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	32'	N/A	32'	N/A
Fresh Water	77'	N/A	77'	N/A
Fresh Water	112'	N/A	112'	N/A
Sandstone	est. 0	77	est. 0	77
Shale	est. 77	632	est. 77	632
Sandstone	est. 632	697	est. 632	697
Shale and Limestone	est. 697	877	est. 697	877
Sandstone	est. 877	907	est. 877	907
Shale	est. 907	1037	est. 907	1037
Sandstone and Coal	est. 1037	1087	est. 1037	1087
Shale	est. 1087	1237	est. 1087	1237
Sandstone	est. 1237	1267	est. 1237	1267
Shale	est. 1267	1767	est. 1267	1767
Sandstone	est. 1767	1897	est. 1767	1897
Shale	est. 1897	1957	est. 1897	1957
Sandstone and Coal	est. 1957	1987	est. 1957	1987
Shale	est.1987	2077	est.1987	2077
Sandstone	est. 2077	2147	est. 2077	2147
Shale	est. 2147	2395	est. 2147	2395
Big Lime	2395	2555	2395	2557
Big Injun	2555	2770	2557	2772
Gantz Sand	2770	2878	2772	2880
Fifty Foot Sandstone	2878	3091	2880	3093
Gordon	3091	3391	3093	3393
Fifth Sandstone	3391	3444	3393	3445
Bayard	3444	3782	3445	3783
Warren	3782	4085	3783	4087
Speechley	4085	4269	4087	4272
Baltown	4269	4837	4272	4860
Bradford	4837	5384	4860	5472
Benson	5384	5641	5472	5760
Alexander	5641	5896	5760	6042
Elk	5896	6341	6042	6534
Rhinestreet	6341	6941	6534	7205
Sycamore	6941	7106	7205	7394
Middlesex	7106	7254	7394	7586
Burkett	7254	7284	7586	7630
Tully	7284	7399	7630	7853
Marcellus	7399	NA	7853	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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Baker Unit 1H
Doddridge County WV
Northing: 14238357.51
Easting: 1745424.15
As Drilled



To convert Magnetic North to Grid, Subtract 8.79°
 To convert True North to Grid, Subtract 0.23°

Azimuths to Grid North
 True North: -0.23°
 Magnetic North: -8.79°

Magnetic Field
 Strength: 52262.5snT
 Dip Angle: 66.75°
 Date: 3/20/2014
 Model: IGRF2010

WELL DETAILS Baker Unit 1H						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Ground Level
0.0	0.0	14238357.51	1745424.15	39° 12' 33.472 N	80° 37' 45.451 W	1410.0

Genie Lightfoot
 9:54, September 15 2014

Scientific Drilling
 421 South Eagle Lane
 Oklahoma City, OK 73128

SITE DETAILS: Trent Pad:Bowen/Cox/Life/Baker/Nestor

Site Center: Cox Unit 2H

Site Centre Northing: 14238330.29
 Easting: 1745410.61

Positional Uncertainty: 0.0
 Convergence: 0.23
 Local North: Grid

PROJECT DETAILS: Doddridge County WV

Geodetic System: Universal Transverse Mercator (US Survey Feet)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: Zone 17N (84 W to 78 W)
 System Datum: Mean Sea Level

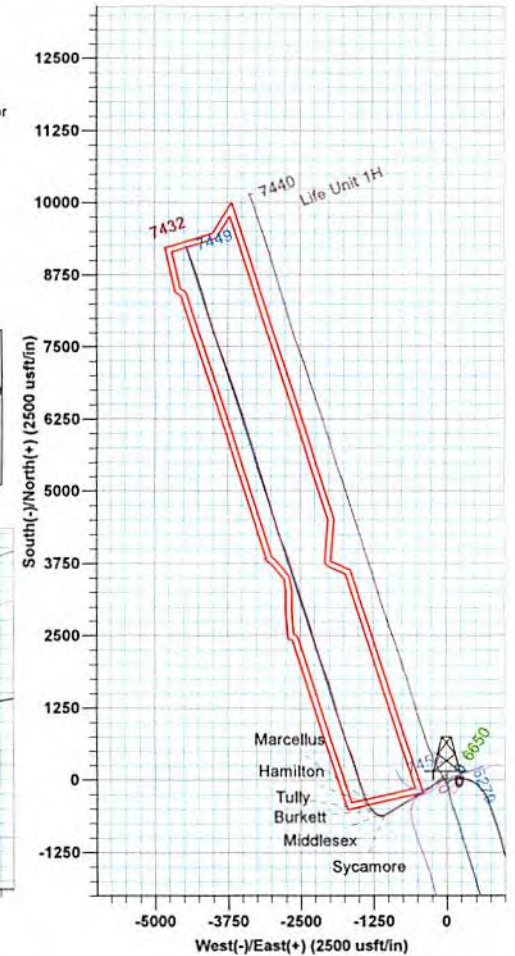
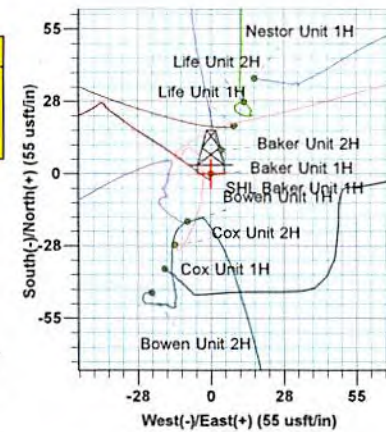
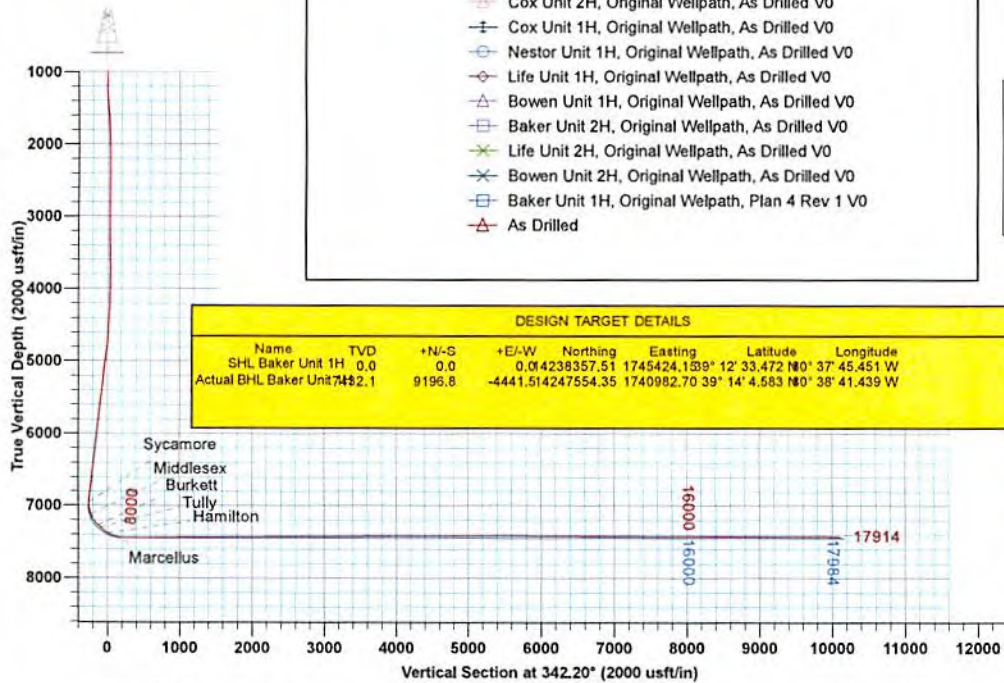
Precision 525 GL 1410° + 19° KB @ 1429.0usft
 Gr. 1410.0

LEGEND

- △ Cox Unit 2H, Original Wellpath, As Drilled V0
- ⊕ Cox Unit 1H, Original Wellpath, As Drilled V0
- ⊖ Nestor Unit 1H, Original Wellpath, As Drilled V0
- ◇ Life Unit 1H, Original Wellpath, As Drilled V0
- △ Bowen Unit 1H, Original Wellpath, As Drilled V0
- ⊕ Baker Unit 2H, Original Wellpath, As Drilled V0
- ⊖ Life Unit 2H, Original Wellpath, As Drilled V0
- ⊕ Bowen Unit 2H, Original Wellpath, As Drilled V0
- ⊖ Baker Unit 1H, Original Wellpath, Plan 4 Rev 1 V0
- △ As Drilled

DESIGN TARGET DETAILS

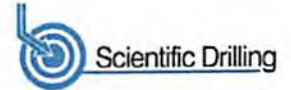
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL Baker Unit 1H	0.0	0.0	0.0	14238357.51	1745424.15	39° 12' 33.472 N	80° 37' 45.451 W
Actual BHL Baker Unit 1H	7482.1	9196.8	-4441.51	14247554.35	1740982.70	39° 14' 4.583 N	80° 38' 41.439 W



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Survey Report - Geographic



Company:	Antero Resources	Local Co-ordinate Reference:	Well Baker Unit 1H
Project:	Doddridge County WV	TVD Reference:	Precision 525: GL 1410' + 19' KB @ 1429.0usft
Site:	Trent Pad:Bowen/Cox/Life/Baker/Nestor	MD Reference:	Precision 525: GL 1410' + 19' KB @ 1429.0usft
Well:	Baker Unit 1H	North Reference:	Grid
Wellbore:	Original Welpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

Project	Doddridge County WV, McClellan District		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 17N (84 W to 78 W)		

Site	Trent Pad:Bowen/Cox/Life/Baker/Nestor				
Site Position:		Northing:	14,238,330.29 usft	Latitude:	39° 12' 33.204 N
From:	Map	Easting:	1,745,410.61 usft	Longitude:	80° 37' 45.625 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.23 °

Well	Baker Unit 1H, Marcellus					
Well Position	+N/-S	0.0 usft	Northing:	14,238,357.51 usft	Latitude:	39° 12' 33.472 N
	+E/-W	0.0 usft	Easting:	1,745,424.15 usft	Longitude:	80° 37' 45.451 W
Position Uncertainty	2.0 usft		Wellhead Elevation:	1,426.0 usft	Ground Level:	1,410.0 usft

Wellbore	Original Welpath				
-----------------	------------------	--	--	--	--

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	3/20/2014	-8.55	66.75	52,263

Design	As Drilled				
---------------	------------	--	--	--	--

Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	342.20

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Survey Program	Date 9/15/2014		NOV - 6 2017		
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From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
34.0	6,034.9	Survey #10 Final Gyro (Original Welpath)	SDI Standard Keeper	Scientific Drilling Intl. Standard Wireline Keeper
6,112.0	17,914.0	Survey #11 SDI MWD (Original Welpath)	SDI MWD	Scientific Drilling Intl. MWD - Standard ver 1.0.1

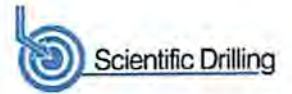
WV Department of Environmental Protection

Survey										
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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	14,238,357.51	1,745,424.15	39° 12' 33.472 N	80° 37' 45.451 W
34.0	0.05	188.62	34.0	0.0	0.0	14,238,357.49	1,745,424.15	39° 12' 33.472 N	80° 37' 45.451 W
59.0	0.10	188.62	59.0	0.0	0.0	14,238,357.46	1,745,424.14	39° 12' 33.472 N	80° 37' 45.451 W
84.0	0.16	188.62	84.0	-0.1	0.0	14,238,357.41	1,745,424.14	39° 12' 33.471 N	80° 37' 45.451 W
109.0	0.21	188.62	109.0	-0.2	0.0	14,238,357.33	1,745,424.12	39° 12' 33.470 N	80° 37' 45.451 W
134.0	0.20	188.95	134.0	-0.3	0.0	14,238,357.24	1,745,424.11	39° 12' 33.470 N	80° 37' 45.452 W
159.0	0.18	189.86	159.0	-0.4	-0.1	14,238,357.16	1,745,424.10	39° 12' 33.469 N	80° 37' 45.452 W
184.0	0.17	185.48	184.0	-0.4	-0.1	14,238,357.08	1,745,424.09	39° 12' 33.468 N	80° 37' 45.452 W
209.0	0.33	178.13	209.0	-0.5	-0.1	14,238,356.97	1,745,424.08	39° 12' 33.467 N	80° 37' 45.452 W
234.0	0.08	216.90	234.0	-0.6	-0.1	14,238,356.89	1,745,424.08	39° 12' 33.466 N	80° 37' 45.452 W
259.0	0.10	241.65	259.0	-0.6	-0.1	14,238,356.86	1,745,424.05	39° 12' 33.466 N	80° 37' 45.452 W



Survey Report - Geographic



Company: Antero Resources
Project: Doddridge County WV
Site: Trent Pad: Bowen/Cox/Life/Baker/Nestor
Well: Baker Unit 1H
Wellbore: Original Welpath
Design: As Drilled

Local Co-ordinate Reference: Well Baker Unit 1H
TVD Reference: Precision 525: GL 1410' + 19' KB @ 1429.0usft
MD Reference: Precision 525: GL 1410' + 19' KB @ 1429.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Oklahoma District

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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	WV Department of Environmental Protection	
								Latitude	Longitude
284.0	0.11	213.03	284.0	-0.7	-0.1	14,238,356.83	1,745,424.01	39° 12' 33.466 N	80° 37' 45.453 W
309.0	0.11	209.21	309.0	-0.7	-0.2	14,238,356.79	1,745,423.99	39° 12' 33.465 N	80° 37' 45.453 W
334.0	0.13	207.66	334.0	-0.8	-0.2	14,238,356.74	1,745,423.96	39° 12' 33.465 N	80° 37' 45.453 W
359.0	0.13	188.82	359.0	-0.8	-0.2	14,238,356.69	1,745,423.95	39° 12' 33.464 N	80° 37' 45.454 W
384.0	0.08	208.82	384.0	-0.9	-0.2	14,238,356.65	1,745,423.93	39° 12' 33.464 N	80° 37' 45.454 W
409.0	0.04	240.33	409.0	-0.9	-0.2	14,238,356.63	1,745,423.92	39° 12' 33.464 N	80° 37' 45.454 W
434.0	0.09	195.81	434.0	-0.9	-0.2	14,238,356.60	1,745,423.91	39° 12' 33.463 N	80° 37' 45.454 W
459.0	0.10	198.01	459.0	-0.9	-0.3	14,238,356.56	1,745,423.89	39° 12' 33.463 N	80° 37' 45.454 W
484.0	0.13	233.29	484.0	-1.0	-0.3	14,238,356.53	1,745,423.86	39° 12' 33.463 N	80° 37' 45.455 W
509.0	0.08	121.77	509.0	-1.0	-0.3	14,238,356.50	1,745,423.86	39° 12' 33.462 N	80° 37' 45.455 W
534.0	0.01	132.50	534.0	-1.0	-0.3	14,238,356.49	1,745,423.87	39° 12' 33.462 N	80° 37' 45.455 W
559.0	0.18	177.34	559.0	-1.1	-0.3	14,238,356.45	1,745,423.88	39° 12' 33.462 N	80° 37' 45.455 W
584.0	0.11	191.28	584.0	-1.1	-0.3	14,238,356.39	1,745,423.87	39° 12' 33.461 N	80° 37' 45.455 W
609.0	0.10	184.88	609.0	-1.2	-0.3	14,238,356.34	1,745,423.87	39° 12' 33.461 N	80° 37' 45.455 W
634.0	0.13	192.78	634.0	-1.2	-0.3	14,238,356.29	1,745,423.86	39° 12' 33.460 N	80° 37' 45.455 W
659.0	0.08	131.66	659.0	-1.3	-0.3	14,238,356.25	1,745,423.87	39° 12' 33.460 N	80° 37' 45.455 W
684.0	0.07	160.16	684.0	-1.3	-0.3	14,238,356.23	1,745,423.88	39° 12' 33.460 N	80° 37' 45.454 W
709.0	0.17	172.33	709.0	-1.3	-0.3	14,238,356.18	1,745,423.89	39° 12' 33.459 N	80° 37' 45.454 W
734.0	0.18	179.10	734.0	-1.4	-0.3	14,238,356.10	1,745,423.90	39° 12' 33.458 N	80° 37' 45.454 W
759.0	0.15	197.22	759.0	-1.5	-0.3	14,238,356.03	1,745,423.89	39° 12' 33.458 N	80° 37' 45.454 W
784.0	0.13	148.40	784.0	-1.5	-0.3	14,238,355.97	1,745,423.90	39° 12' 33.457 N	80° 37' 45.454 W
809.0	0.03	322.08	809.0	-1.6	-0.2	14,238,355.95	1,745,423.91	39° 12' 33.457 N	80° 37' 45.454 W
834.0	0.23	195.25	834.0	-1.6	-0.3	14,238,355.91	1,745,423.89	39° 12' 33.456 N	80° 37' 45.454 W
859.0	0.17	205.85	859.0	-1.7	-0.3	14,238,355.83	1,745,423.86	39° 12' 33.456 N	80° 37' 45.455 W
884.0	0.13	204.47	884.0	-1.7	-0.3	14,238,355.77	1,745,423.83	39° 12' 33.455 N	80° 37' 45.455 W
909.0	0.11	208.76	909.0	-1.8	-0.3	14,238,355.72	1,745,423.81	39° 12' 33.455 N	80° 37' 45.455 W
934.0	0.14	184.20	934.0	-1.8	-0.4	14,238,355.67	1,745,423.79	39° 12' 33.454 N	80° 37' 45.456 W
959.0	0.18	145.98	959.0	-1.9	-0.3	14,238,355.61	1,745,423.81	39° 12' 33.454 N	80° 37' 45.455 W
984.0	0.11	226.04	984.0	-1.9	-0.3	14,238,355.56	1,745,423.82	39° 12' 33.453 N	80° 37' 45.455 W
1,009.0	0.06	166.08	1,009.0	-2.0	-0.3	14,238,355.53	1,745,423.80	39° 12' 33.453 N	80° 37' 45.455 W
1,034.0	0.10	121.47	1,034.0	-2.0	-0.3	14,238,355.51	1,745,423.83	39° 12' 33.452 N	80° 37' 45.455 W
1,059.0	0.14	179.52	1,059.0	-2.0	-0.3	14,238,355.46	1,745,423.85	39° 12' 33.452 N	80° 37' 45.455 W
1,084.0	0.15	213.02	1,084.0	-2.1	-0.3	14,238,355.41	1,745,423.83	39° 12' 33.452 N	80° 37' 45.455 W
1,109.0	0.21	174.38	1,109.0	-2.2	-0.3	14,238,355.33	1,745,423.81	39° 12' 33.451 N	80° 37' 45.455 W
1,134.0	0.17	142.64	1,134.0	-2.3	-0.3	14,238,355.26	1,745,423.84	39° 12' 33.450 N	80° 37' 45.455 W
1,159.0	0.12	155.03	1,159.0	-2.3	-0.3	14,238,355.21	1,745,423.88	39° 12' 33.450 N	80° 37' 45.455 W
1,184.0	0.29	162.50	1,184.0	-2.4	-0.2	14,238,355.12	1,745,423.91	39° 12' 33.449 N	80° 37' 45.454 W
1,209.0	0.08	155.65	1,209.0	-2.5	-0.2	14,238,355.05	1,745,423.93	39° 12' 33.448 N	80° 37' 45.454 W
1,234.0	0.11	271.02	1,234.0	-2.5	-0.2	14,238,355.03	1,745,423.91	39° 12' 33.448 N	80° 37' 45.454 W
1,259.0	0.63	292.07	1,259.0	-2.4	-0.4	14,238,355.08	1,745,423.76	39° 12' 33.448 N	80° 37' 45.456 W
1,284.0	2.03	304.96	1,284.0	-2.1	-0.9	14,238,355.39	1,745,423.27	39° 12' 33.451 N	80° 37' 45.462 W
1,309.0	3.30	304.97	1,309.0	-1.5	-1.8	14,238,356.05	1,745,422.32	39° 12' 33.458 N	80° 37' 45.474 W
1,334.0	4.38	306.18	1,333.9	-0.5	-3.2	14,238,357.03	1,745,420.96	39° 12' 33.468 N	80° 37' 45.492 W
1,359.0	5.20	305.77	1,358.8	0.7	-4.9	14,238,358.26	1,745,419.27	39° 12' 33.480 N	80° 37' 45.513 W
1,384.0	5.22	307.10	1,383.7	2.1	-6.7	14,238,359.60	1,745,417.44	39° 12' 33.493 N	80° 37' 45.536 W
1,409.0	5.27	306.32	1,408.6	3.5	-8.5	14,238,360.97	1,745,415.61	39° 12' 33.507 N	80° 37' 45.559 W
1,434.0	5.43	305.31	1,433.5	4.8	-10.4	14,238,362.33	1,745,413.72	39° 12' 33.520 N	80° 37' 45.583 W
1,459.0	5.44	304.75	1,458.4	6.2	-12.4	14,238,363.69	1,745,411.78	39° 12' 33.534 N	80° 37' 45.608 W
1,484.0	5.25	305.37	1,483.3	7.5	-14.3	14,238,365.03	1,745,409.88	39° 12' 33.547 N	80° 37' 45.632 W
1,509.0	5.22	304.16	1,508.2	8.8	-16.1	14,238,366.33	1,745,408.00	39° 12' 33.560 N	80° 37' 45.656 W
1,534.0	5.15	304.12	1,533.1	10.1	-18.0	14,238,367.60	1,745,406.13	39° 12' 33.573 N	80° 37' 45.679 W
1,559.0	4.98	303.88	1,558.0	11.3	-19.8	14,238,368.83	1,745,404.30	39° 12' 33.585 N	80° 37' 45.703 W
1,584.0	4.64	302.47	1,582.9	12.5	-21.6	14,238,369.98	1,745,402.55	39° 12' 33.596 N	80° 37' 45.725 W
1,609.0	4.80	301.58	1,607.8	13.6	-23.3	14,238,371.07	1,745,400.80	39° 12' 33.607 N	80° 37' 45.747 W
1,634.0	4.58	302.63	1,632.7	14.6	-25.1	14,238,372.16	1,745,399.07	39° 12' 33.618 N	80° 37' 45.769 W



Survey Report - Geographic



Company: Antero Resources
Project: Doddridge County WV
Site: Trent Pad: Bowen/Cox/Life/Baker/Nestor
Well: Baker Unit 1H
Wellbore: Original Welpath
Design: As Drilled

Local Co-ordinate Reference: Well Baker Unit 1H
TVD Reference: Precision 525: GL 1410' + 19' KB @ 1429.0usft
MD Reference: Precision 525: GL 1410' + 19' KB @ 1429.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Oklahoma District

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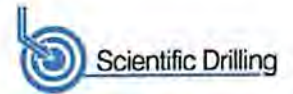
Survey

WV Department of Environmental Protection

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,659.0	4.25	303.15	1,657.6	15.7	-26.7	14,238,373.20	1,745,397.46	39° 12' 33.629 N	80° 37' 45.789 W
1,684.0	3.75	304.57	1,682.6	16.7	-28.1	14,238,374.17	1,745,396.01	39° 12' 33.638 N	80° 37' 45.808 W
1,709.0	3.54	303.18	1,707.5	17.5	-29.5	14,238,375.06	1,745,394.69	39° 12' 33.647 N	80° 37' 45.824 W
1,734.0	3.16	305.16	1,732.5	18.4	-30.7	14,238,375.88	1,745,393.48	39° 12' 33.655 N	80° 37' 45.840 W
1,759.0	2.90	305.90	1,757.5	19.1	-31.7	14,238,376.65	1,745,392.40	39° 12' 33.663 N	80° 37' 45.853 W
1,784.0	2.61	308.01	1,782.4	19.9	-32.7	14,238,377.37	1,745,391.44	39° 12' 33.670 N	80° 37' 45.866 W
1,809.0	2.40	307.71	1,807.4	20.5	-33.6	14,238,378.04	1,745,390.58	39° 12' 33.677 N	80° 37' 45.877 W
1,834.0	2.27	307.25	1,832.4	21.1	-34.4	14,238,378.66	1,745,389.77	39° 12' 33.683 N	80° 37' 45.887 W
1,859.0	2.08	304.98	1,857.4	21.7	-35.1	14,238,379.22	1,745,389.01	39° 12' 33.688 N	80° 37' 45.896 W
1,884.0	1.75	308.66	1,882.3	22.2	-35.8	14,238,379.72	1,745,388.34	39° 12' 33.693 N	80° 37' 45.905 W
1,909.0	1.57	304.69	1,907.3	22.6	-36.4	14,238,380.15	1,745,387.76	39° 12' 33.698 N	80° 37' 45.912 W
1,934.0	1.32	304.00	1,932.3	23.0	-36.9	14,238,380.50	1,745,387.24	39° 12' 33.701 N	80° 37' 45.919 W
1,959.0	1.25	310.89	1,957.3	23.3	-37.4	14,238,380.84	1,745,386.79	39° 12' 33.705 N	80° 37' 45.925 W
1,984.0	1.05	305.77	1,982.3	23.6	-37.8	14,238,381.16	1,745,386.40	39° 12' 33.708 N	80° 37' 45.930 W
2,009.0	0.96	311.25	2,007.3	23.9	-38.1	14,238,381.43	1,745,386.06	39° 12' 33.710 N	80° 37' 45.934 W
2,034.0	0.81	311.35	2,032.3	24.2	-38.4	14,238,381.68	1,745,385.77	39° 12' 33.713 N	80° 37' 45.938 W
2,059.0	0.69	306.57	2,057.3	24.4	-38.6	14,238,381.89	1,745,385.51	39° 12' 33.715 N	80° 37' 45.941 W
2,084.0	0.57	314.66	2,082.3	24.6	-38.8	14,238,382.07	1,745,385.30	39° 12' 33.717 N	80° 37' 45.943 W
2,109.0	0.57	298.05	2,107.3	24.7	-39.0	14,238,382.21	1,745,385.11	39° 12' 33.718 N	80° 37' 45.946 W
2,134.0	0.35	320.47	2,132.3	24.8	-39.2	14,238,382.33	1,745,384.95	39° 12' 33.719 N	80° 37' 45.948 W
2,159.0	0.38	309.82	2,157.3	24.9	-39.3	14,238,382.44	1,745,384.83	39° 12' 33.720 N	80° 37' 45.949 W
2,184.0	0.40	308.29	2,182.3	25.0	-39.4	14,238,382.55	1,745,384.70	39° 12' 33.721 N	80° 37' 45.951 W
2,209.0	0.31	302.33	2,207.3	25.1	-39.6	14,238,382.64	1,745,384.58	39° 12' 33.722 N	80° 37' 45.953 W
2,234.0	0.29	326.09	2,232.3	25.2	-39.7	14,238,382.73	1,745,384.48	39° 12' 33.723 N	80° 37' 45.954 W
2,259.0	0.22	304.01	2,257.3	25.3	-39.7	14,238,382.81	1,745,384.41	39° 12' 33.724 N	80° 37' 45.955 W
2,284.0	0.06	206.52	2,282.3	25.3	-39.8	14,238,382.82	1,745,384.36	39° 12' 33.724 N	80° 37' 45.955 W
2,309.0	0.13	348.08	2,307.3	25.3	-39.8	14,238,382.84	1,745,384.35	39° 12' 33.724 N	80° 37' 45.955 W
2,334.0	0.17	328.33	2,332.3	25.4	-39.8	14,238,382.90	1,745,384.33	39° 12' 33.725 N	80° 37' 45.956 W
2,359.0	0.10	351.63	2,357.3	25.4	-39.8	14,238,382.95	1,745,384.30	39° 12' 33.725 N	80° 37' 45.956 W
2,384.0	0.11	41.82	2,382.3	25.5	-39.8	14,238,382.99	1,745,384.32	39° 12' 33.726 N	80° 37' 45.956 W
2,409.0	0.14	2.07	2,407.3	25.5	-39.8	14,238,383.04	1,745,384.33	39° 12' 33.726 N	80° 37' 45.956 W
2,434.0	0.20	342.76	2,432.3	25.6	-39.8	14,238,383.11	1,745,384.32	39° 12' 33.727 N	80° 37' 45.956 W
2,459.0	0.09	29.27	2,457.3	25.7	-39.8	14,238,383.17	1,745,384.32	39° 12' 33.728 N	80° 37' 45.956 W
2,484.0	0.27	39.44	2,482.3	25.7	-39.8	14,238,383.23	1,745,384.37	39° 12' 33.728 N	80° 37' 45.955 W
2,509.0	0.03	347.17	2,507.3	25.8	-39.7	14,238,383.28	1,745,384.40	39° 12' 33.729 N	80° 37' 45.955 W
2,534.0	0.07	289.38	2,532.3	25.8	-39.8	14,238,383.30	1,745,384.39	39° 12' 33.729 N	80° 37' 45.955 W
2,559.0	0.07	353.65	2,557.3	25.8	-39.8	14,238,383.32	1,745,384.37	39° 12' 33.729 N	80° 37' 45.955 W
2,584.0	0.15	284.92	2,582.3	25.8	-39.8	14,238,383.34	1,745,384.34	39° 12' 33.729 N	80° 37' 45.956 W
2,609.0	0.08	320.75	2,607.3	25.9	-39.9	14,238,383.36	1,745,384.29	39° 12' 33.730 N	80° 37' 45.956 W
2,634.0	0.11	283.83	2,632.3	25.9	-39.9	14,238,383.38	1,745,384.26	39° 12' 33.730 N	80° 37' 45.957 W
2,659.0	0.10	321.65	2,657.3	25.9	-39.9	14,238,383.40	1,745,384.22	39° 12' 33.730 N	80° 37' 45.957 W
2,684.0	0.15	329.91	2,682.3	25.9	-40.0	14,238,383.45	1,745,384.19	39° 12' 33.730 N	80° 37' 45.957 W
2,709.0	0.12	301.49	2,707.3	26.0	-40.0	14,238,383.49	1,745,384.15	39° 12' 33.731 N	80° 37' 45.958 W
2,734.0	0.20	334.46	2,732.3	26.0	-40.0	14,238,383.54	1,745,384.11	39° 12' 33.731 N	80° 37' 45.958 W
2,759.0	0.19	334.13	2,757.3	26.1	-40.1	14,238,383.62	1,745,384.08	39° 12' 33.732 N	80° 37' 45.959 W
2,784.0	0.18	310.88	2,782.3	26.2	-40.1	14,238,383.68	1,745,384.03	39° 12' 33.733 N	80° 37' 45.960 W
2,809.0	0.15	322.06	2,807.3	26.2	-40.2	14,238,383.74	1,745,383.98	39° 12' 33.733 N	80° 37' 45.960 W
2,834.0	0.10	317.20	2,832.3	26.3	-40.2	14,238,383.78	1,745,383.94	39° 12' 33.734 N	80° 37' 45.961 W
2,859.0	0.10	334.85	2,857.3	26.3	-40.2	14,238,383.81	1,745,383.92	39° 12' 33.734 N	80° 37' 45.961 W
2,884.0	0.11	329.51	2,882.3	26.3	-40.3	14,238,383.85	1,745,383.90	39° 12' 33.734 N	80° 37' 45.961 W
2,909.0	0.06	287.21	2,907.3	26.4	-40.3	14,238,383.88	1,745,383.87	39° 12' 33.735 N	80° 37' 45.961 W
2,934.0	0.06	336.34	2,932.3	26.4	-40.3	14,238,383.89	1,745,383.86	39° 12' 33.735 N	80° 37' 45.962 W
2,959.0	0.07	268.20	2,957.3	26.4	-40.3	14,238,383.91	1,745,383.84	39° 12' 33.735 N	80° 37' 45.962 W
2,984.0	0.13	309.27	2,982.3	26.4	-40.4	14,238,383.92	1,745,383.80	39° 12' 33.735 N	80° 37' 45.962 W
3,009.0	0.16	347.80	3,007.3	26.5	-40.4	14,238,383.98	1,745,383.77	39° 12' 33.736 N	80° 37' 45.963 W



Survey Report - Geographic



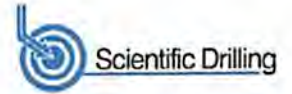
Company:	Antero Resources	Local Co-ordinate Reference:	Well Baker Unit 1H
Project:	Doddridge County WV	TVD Reference:	Precision 525: GL 1410' + 19' KB @ 1429.0usft
Site:	Trent Pad: Bowen/Cox/Life/Baker/Nestor	MD Reference:	Precision 525: GL 1410' + 19' KB @ 1429.0usft
Well:	Baker Unit 1H	North Reference:	Grid
Wellbore:	Original Welpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

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Survey										WV Department of Environmental Protection
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
3,034.0	0.12	311.65	3,032.3	26.5	-40.4	14,238,384.03	1,745,383.74	39° 12' 33.736 N	80° 37' 45.963 W	
3,059.0	0.12	22.08	3,057.3	26.6	-40.4	14,238,384.07	1,745,383.73	39° 12' 33.737 N	80° 37' 45.963 W	
3,084.0	0.03	344.99	3,082.3	26.6	-40.4	14,238,384.10	1,745,383.74	39° 12' 33.737 N	80° 37' 45.963 W	
3,109.0	0.06	308.71	3,107.3	26.6	-40.4	14,238,384.11	1,745,383.73	39° 12' 33.737 N	80° 37' 45.963 W	
3,134.0	0.09	281.58	3,132.3	26.6	-40.5	14,238,384.13	1,745,383.70	39° 12' 33.737 N	80° 37' 45.964 W	
3,159.0	0.15	316.27	3,157.3	26.6	-40.5	14,238,384.15	1,745,383.66	39° 12' 33.737 N	80° 37' 45.964 W	
3,184.0	0.09	252.41	3,182.3	26.7	-40.5	14,238,384.17	1,745,383.62	39° 12' 33.738 N	80° 37' 45.965 W	
3,209.0	0.18	280.00	3,207.3	26.7	-40.6	14,238,384.17	1,745,383.56	39° 12' 33.738 N	80° 37' 45.965 W	
3,234.0	0.15	267.97	3,232.3	26.7	-40.7	14,238,384.18	1,745,383.49	39° 12' 33.738 N	80° 37' 45.966 W	
3,259.0	0.13	264.04	3,257.3	26.7	-40.7	14,238,384.17	1,745,383.43	39° 12' 33.738 N	80° 37' 45.967 W	
3,284.0	0.21	318.21	3,282.3	26.7	-40.8	14,238,384.20	1,745,383.37	39° 12' 33.738 N	80° 37' 45.968 W	
3,309.0	0.15	287.80	3,307.3	26.7	-40.8	14,238,384.25	1,745,383.31	39° 12' 33.738 N	80° 37' 45.969 W	
3,334.0	0.10	248.02	3,332.3	26.7	-40.9	14,238,384.25	1,745,383.25	39° 12' 33.738 N	80° 37' 45.969 W	
3,359.0	0.11	266.51	3,357.3	26.7	-40.9	14,238,384.24	1,745,383.21	39° 12' 33.738 N	80° 37' 45.970 W	
3,384.0	0.14	272.88	3,382.3	26.7	-41.0	14,238,384.24	1,745,383.16	39° 12' 33.738 N	80° 37' 45.971 W	
3,409.0	0.04	51.15	3,407.3	26.7	-41.0	14,238,384.25	1,745,383.13	39° 12' 33.738 N	80° 37' 45.971 W	
3,434.0	0.11	250.27	3,432.3	26.7	-41.0	14,238,384.25	1,745,383.12	39° 12' 33.738 N	80° 37' 45.971 W	
3,459.0	0.04	168.25	3,457.3	26.7	-41.1	14,238,384.23	1,745,383.10	39° 12' 33.738 N	80° 37' 45.971 W	
3,484.0	0.14	279.13	3,482.3	26.7	-41.1	14,238,384.23	1,745,383.07	39° 12' 33.738 N	80° 37' 45.972 W	
3,509.0	0.03	212.39	3,507.3	26.7	-41.1	14,238,384.22	1,745,383.03	39° 12' 33.738 N	80° 37' 45.972 W	
3,534.0	0.16	240.65	3,532.3	26.7	-41.2	14,238,384.20	1,745,383.00	39° 12' 33.738 N	80° 37' 45.973 W	
3,559.0	0.05	38.28	3,557.3	26.7	-41.2	14,238,384.19	1,745,382.98	39° 12' 33.738 N	80° 37' 45.973 W	
3,584.0	0.07	125.73	3,582.3	26.7	-41.2	14,238,384.19	1,745,382.99	39° 12' 33.738 N	80° 37' 45.973 W	
3,609.0	0.14	225.11	3,607.3	26.7	-41.2	14,238,384.16	1,745,382.99	39° 12' 33.737 N	80° 37' 45.973 W	
3,634.0	0.13	299.22	3,632.3	26.6	-41.2	14,238,384.15	1,745,382.94	39° 12' 33.737 N	80° 37' 45.973 W	
3,659.0	0.08	353.82	3,657.3	26.7	-41.2	14,238,384.19	1,745,382.91	39° 12' 33.738 N	80° 37' 45.974 W	
3,684.0	0.11	42.48	3,682.3	26.7	-41.2	14,238,384.22	1,745,382.93	39° 12' 33.738 N	80° 37' 45.974 W	
3,709.0	0.07	355.98	3,707.3	26.7	-41.2	14,238,384.25	1,745,382.94	39° 12' 33.738 N	80° 37' 45.973 W	
3,734.0	0.28	244.04	3,732.3	26.7	-41.3	14,238,384.24	1,745,382.89	39° 12' 33.738 N	80° 37' 45.974 W	
3,759.0	0.02	107.97	3,757.3	26.7	-41.3	14,238,384.21	1,745,382.83	39° 12' 33.738 N	80° 37' 45.975 W	
3,784.0	0.18	349.76	3,782.3	26.7	-41.3	14,238,384.25	1,745,382.83	39° 12' 33.738 N	80° 37' 45.975 W	
3,809.0	0.12	17.53	3,807.3	26.8	-41.3	14,238,384.32	1,745,382.83	39° 12' 33.739 N	80° 37' 45.975 W	
3,834.0	0.08	355.26	3,832.3	26.8	-41.3	14,238,384.36	1,745,382.84	39° 12' 33.739 N	80° 37' 45.975 W	
3,859.0	0.27	244.36	3,857.3	26.8	-41.4	14,238,384.35	1,745,382.78	39° 12' 33.739 N	80° 37' 45.975 W	
3,884.0	0.10	339.38	3,882.3	26.8	-41.4	14,238,384.34	1,745,382.72	39° 12' 33.739 N	80° 37' 45.976 W	
3,909.0	0.11	317.49	3,907.3	26.9	-41.5	14,238,384.38	1,745,382.70	39° 12' 33.740 N	80° 37' 45.976 W	
3,934.0	0.11	228.50	3,932.3	26.9	-41.5	14,238,384.38	1,745,382.67	39° 12' 33.740 N	80° 37' 45.977 W	
3,959.0	0.40	219.43	3,957.3	26.8	-41.6	14,238,384.30	1,745,382.59	39° 12' 33.739 N	80° 37' 45.978 W	
3,984.0	1.24	225.66	3,982.3	26.5	-41.8	14,238,384.04	1,745,382.34	39° 12' 33.736 N	80° 37' 45.981 W	
4,009.0	2.07	230.40	4,007.3	26.1	-42.3	14,238,383.57	1,745,381.80	39° 12' 33.732 N	80° 37' 45.988 W	
4,034.0	3.00	238.42	4,032.3	25.4	-43.3	14,238,382.94	1,745,380.90	39° 12' 33.725 N	80° 37' 45.999 W	
4,059.0	3.96	240.89	4,057.2	24.7	-44.6	14,238,382.17	1,745,379.59	39° 12' 33.718 N	80° 37' 46.016 W	
4,084.0	5.08	244.68	4,082.1	23.8	-46.3	14,238,381.28	1,745,377.83	39° 12' 33.709 N	80° 37' 46.038 W	
4,109.0	6.07	243.20	4,107.0	22.7	-48.5	14,238,380.21	1,745,375.65	39° 12' 33.699 N	80° 37' 46.066 W	
4,134.0	6.30	242.26	4,131.9	21.5	-50.9	14,238,378.98	1,745,373.26	39° 12' 33.687 N	80° 37' 46.097 W	
4,159.0	6.23	233.16	4,156.7	20.0	-53.2	14,238,377.53	1,745,370.96	39° 12' 33.672 N	80° 37' 46.126 W	
4,184.0	6.50	227.47	4,181.6	18.2	-55.3	14,238,375.76	1,745,368.83	39° 12' 33.655 N	80° 37' 46.153 W	
4,209.0	6.72	224.41	4,206.4	16.2	-57.4	14,238,373.75	1,745,366.76	39° 12' 33.635 N	80° 37' 46.179 W	
4,234.0	6.86	223.84	4,231.2	14.1	-59.4	14,238,371.63	1,745,364.70	39° 12' 33.614 N	80° 37' 46.206 W	
4,259.0	6.93	224.23	4,256.0	12.0	-61.5	14,238,369.47	1,745,362.62	39° 12' 33.593 N	80° 37' 46.232 W	
4,284.0	6.98	225.93	4,280.9	9.8	-63.7	14,238,367.34	1,745,360.47	39° 12' 33.572 N	80° 37' 46.260 W	
4,309.0	7.41	228.03	4,305.7	7.7	-66.0	14,238,365.20	1,745,358.18	39° 12' 33.551 N	80° 37' 46.289 W	
4,334.0	8.03	231.14	4,330.4	5.5	-68.5	14,238,363.03	1,745,355.63	39° 12' 33.530 N	80° 37' 46.322 W	
4,359.0	8.84	235.12	4,355.2	3.3	-71.5	14,238,360.84	1,745,352.69	39° 12' 33.508 N	80° 37' 46.359 W	
4,384.0	9.24	237.64	4,379.9	1.2	-74.7	14,238,358.66	1,745,349.42	39° 12' 33.487 N	80° 37' 46.401 W	



Survey Report - Geographic



Company:	Antero Resources	Local Co-ordinate Reference:	Well Baker Unit 1H
Project:	Doddridge County WV	TVD Reference:	Precision 525: GL 1410' + 19' KB @ 1429.0usft
Site:	Trent Pad: Bowen/Cox/Life/Baker/Nestor	MD Reference:	Precision 525: GL 1410' + 19' KB @ 1429.0usft
Well:	Baker Unit 1H	North Reference:	Grid
Wellbore:	Original Welpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

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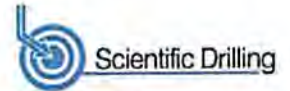
Survey

WV Department of Environmental Protection

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,409.0	9.76	238.50	4,404.5	-1.0	-78.2	14,238,356.48	1,745,345.92	39° 12' 33.465 N	80° 37' 46.445 W
4,434.0	10.28	238.95	4,429.1	-3.3	-82.0	14,238,354.22	1,745,342.20	39° 12' 33.443 N	80° 37' 46.493 W
4,459.0	10.32	238.83	4,453.7	-5.6	-85.8	14,238,351.91	1,745,338.37	39° 12' 33.420 N	80° 37' 46.541 W
4,484.0	10.66	236.96	4,478.3	-8.0	-89.6	14,238,349.49	1,745,334.52	39° 12' 33.397 N	80° 37' 46.591 W
4,509.0	10.80	236.79	4,502.9	-10.6	-93.5	14,238,346.95	1,745,330.62	39° 12' 33.372 N	80° 37' 46.640 W
4,534.0	11.25	236.72	4,527.4	-13.2	-97.5	14,238,344.33	1,745,326.62	39° 12' 33.346 N	80° 37' 46.691 W
4,559.0	12.04	236.90	4,551.9	-15.9	-101.8	14,238,341.57	1,745,322.40	39° 12' 33.319 N	80° 37' 46.745 W
4,584.0	12.75	237.29	4,576.3	-18.9	-106.3	14,238,338.65	1,745,317.89	39° 12' 33.290 N	80° 37' 46.802 W
4,609.0	13.95	237.24	4,600.6	-22.0	-111.1	14,238,335.53	1,745,313.04	39° 12' 33.259 N	80° 37' 46.864 W
4,634.0	15.21	237.08	4,624.8	-25.4	-116.4	14,238,332.12	1,745,307.75	39° 12' 33.226 N	80° 37' 46.932 W
4,659.0	15.95	237.79	4,648.9	-29.0	-122.1	14,238,328.50	1,745,302.09	39° 12' 33.190 N	80° 37' 47.004 W
4,684.0	17.00	239.15	4,672.9	-32.7	-128.1	14,238,324.80	1,745,296.05	39° 12' 33.154 N	80° 37' 47.081 W
4,709.0	18.33	240.34	4,696.7	-36.5	-134.7	14,238,320.98	1,745,289.49	39° 12' 33.117 N	80° 37' 47.164 W
4,734.0	19.54	239.69	4,720.4	-40.6	-141.7	14,238,316.92	1,745,282.47	39° 12' 33.077 N	80° 37' 47.254 W
4,759.0	20.30	239.77	4,743.9	-44.9	-149.0	14,238,312.63	1,745,275.11	39° 12' 33.035 N	80° 37' 47.347 W
4,784.0	21.29	239.52	4,767.2	-49.4	-156.7	14,238,308.15	1,745,267.45	39° 12' 32.991 N	80° 37' 47.445 W
4,809.0	22.62	238.56	4,790.4	-54.2	-164.7	14,238,303.34	1,745,259.44	39° 12' 32.943 N	80° 37' 47.547 W
4,834.0	23.99	237.56	4,813.4	-59.4	-173.1	14,238,298.10	1,745,251.05	39° 12' 32.892 N	80° 37' 47.654 W
4,859.0	25.08	236.92	4,836.1	-65.0	-181.8	14,238,292.48	1,745,242.32	39° 12' 32.837 N	80° 37' 47.765 W
4,884.0	26.37	236.37	4,858.6	-71.0	-190.9	14,238,286.52	1,745,233.25	39° 12' 32.778 N	80° 37' 47.881 W
4,909.0	27.77	235.89	4,880.9	-77.3	-200.3	14,238,280.17	1,745,223.81	39° 12' 32.716 N	80° 37' 48.001 W
4,934.0	29.02	235.54	4,902.9	-84.0	-210.2	14,238,273.48	1,745,213.99	39° 12' 32.650 N	80° 37' 48.126 W
4,959.0	29.36	235.60	4,924.7	-90.9	-220.2	14,238,266.58	1,745,203.93	39° 12' 32.582 N	80° 37' 48.254 W
4,984.0	29.25	235.08	4,946.5	-97.9	-230.3	14,238,259.62	1,745,193.87	39° 12' 32.514 N	80° 37' 48.383 W
5,009.0	28.79	234.30	4,968.4	-104.9	-240.2	14,238,252.61	1,745,183.97	39° 12' 32.445 N	80° 37' 48.509 W
5,034.0	28.18	233.69	4,990.4	-111.9	-249.8	14,238,245.61	1,745,174.32	39° 12' 32.376 N	80° 37' 48.632 W
5,059.0	27.69	232.86	5,012.4	-118.9	-259.2	14,238,238.60	1,745,164.94	39° 12' 32.307 N	80° 37' 48.751 W
5,084.0	26.93	232.11	5,034.7	-125.9	-268.3	14,238,231.62	1,745,155.84	39° 12' 32.238 N	80° 37' 48.867 W
5,109.0	26.48	231.84	5,057.0	-132.8	-277.2	14,238,224.70	1,745,146.99	39° 12' 32.170 N	80° 37' 48.980 W
5,134.0	26.37	232.41	5,079.4	-139.6	-285.9	14,238,217.87	1,745,138.20	39° 12' 32.103 N	80° 37' 49.092 W
5,159.0	26.32	233.87	5,101.8	-146.3	-294.8	14,238,211.21	1,745,129.33	39° 12' 32.038 N	80° 37' 49.205 W
5,184.0	25.85	237.05	5,124.2	-152.5	-303.9	14,238,204.98	1,745,120.28	39° 12' 31.976 N	80° 37' 49.321 W
5,209.0	25.76	239.16	5,146.7	-158.3	-313.1	14,238,199.23	1,745,111.04	39° 12' 31.920 N	80° 37' 49.438 W
5,234.0	25.73	240.87	5,169.3	-163.7	-322.5	14,238,193.81	1,745,101.64	39° 12' 31.867 N	80° 37' 49.558 W
5,259.0	25.73	241.66	5,191.8	-168.9	-332.0	14,238,188.59	1,745,092.12	39° 12' 31.815 N	80° 37' 49.679 W
5,284.0	25.42	241.34	5,214.3	-174.1	-341.5	14,238,183.44	1,745,082.63	39° 12' 31.765 N	80° 37' 49.800 W
5,309.0	25.13	240.68	5,236.9	-179.2	-350.9	14,238,178.27	1,745,073.30	39° 12' 31.714 N	80° 37' 49.919 W
5,334.0	25.14	240.55	5,259.6	-184.5	-360.1	14,238,173.05	1,745,064.05	39° 12' 31.663 N	80° 37' 50.037 W
5,359.0	25.23	240.30	5,282.2	-189.7	-369.4	14,238,167.80	1,745,054.79	39° 12' 31.611 N	80° 37' 50.155 W
5,384.0	25.49	240.00	5,304.8	-195.0	-378.6	14,238,162.47	1,745,045.51	39° 12' 31.559 N	80° 37' 50.273 W
5,409.0	25.82	239.38	5,327.3	-200.5	-388.0	14,238,157.01	1,745,036.16	39° 12' 31.505 N	80° 37' 50.392 W
5,434.0	25.92	238.31	5,349.8	-206.1	-397.3	14,238,151.37	1,745,026.83	39° 12' 31.450 N	80° 37' 50.511 W
5,459.0	26.07	237.97	5,372.3	-211.9	-406.6	14,238,145.58	1,745,017.52	39° 12' 31.393 N	80° 37' 50.630 W
5,484.0	26.45	237.83	5,394.7	-217.8	-416.0	14,238,139.71	1,745,008.15	39° 12' 31.336 N	80° 37' 50.749 W
5,509.0	26.83	237.82	5,417.1	-223.8	-425.5	14,238,133.74	1,744,998.66	39° 12' 31.277 N	80° 37' 50.870 W
5,534.0	27.24	238.68	5,439.3	-229.8	-435.2	14,238,127.76	1,744,989.00	39° 12' 31.218 N	80° 37' 50.993 W
5,559.0	27.80	240.06	5,461.5	-235.6	-445.1	14,238,121.87	1,744,979.06	39° 12' 31.160 N	80° 37' 51.120 W
5,584.0	28.65	240.33	5,483.5	-241.5	-455.4	14,238,116.00	1,744,968.80	39° 12' 31.103 N	80° 37' 51.250 W
5,609.0	28.52	240.28	5,505.5	-247.4	-465.7	14,238,110.07	1,744,958.41	39° 12' 31.045 N	80° 37' 51.383 W
5,634.0	28.05	239.96	5,527.5	-253.3	-476.0	14,238,104.17	1,744,948.14	39° 12' 30.987 N	80° 37' 51.514 W
5,659.0	27.39	239.10	5,549.6	-259.2	-486.0	14,238,098.28	1,744,938.12	39° 12' 30.929 N	80° 37' 51.641 W
5,684.0	26.87	238.45	5,571.9	-265.1	-495.8	14,238,092.37	1,744,928.37	39° 12' 30.871 N	80° 37' 51.766 W
5,709.0	26.32	237.82	5,594.2	-271.1	-505.3	14,238,086.46	1,744,918.86	39° 12' 30.813 N	80° 37' 51.887 W
5,734.0	25.70	237.04	5,616.7	-277.0	-514.5	14,238,080.56	1,744,909.62	39° 12' 30.755 N	80° 37' 52.004 W
5,759.0	25.23	236.11	5,639.3	-282.9	-523.5	14,238,074.64	1,744,900.65	39° 12' 30.696 N	80° 37' 52.119 W



Survey Report - Geographic



Company: Antero Resources	Local Co-ordinate Reference: Well Baker Unit 1H
Project: Doddridge County WV	TVD Reference: Precision 525: GL 1410' + 19' KB @ 1429.0usft
Site: Trent Pad: Bowen/Cox/Life/Baker/Nestor	MD Reference: Precision 525: GL 1410' + 19' KB @ 1429.0usft
Well: Baker Unit 1H	North Reference: Grid
Wellbore: Original Welpath	Survey Calculation Method: Minimum Curvature
Design: As Drilled	Database: Oklahoma District

NOV - 6 2017

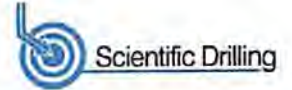
Survey

WV Department of Environmental Protection

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,784.0	24.77	236.01	5,661.9	-288.8	-532.3	14,238,068.74	1,744,891.88	39° 12' 30.638 N	80° 37' 52.230 W
5,809.0	24.14	235.74	5,684.7	-294.6	-540.8	14,238,062.93	1,744,883.32	39° 12' 30.581 N	80° 37' 52.340 W
5,834.0	23.80	237.19	5,707.5	-300.2	-549.3	14,238,057.32	1,744,874.85	39° 12' 30.526 N	80° 37' 52.447 W
5,859.0	23.60	238.01	5,730.4	-305.6	-557.8	14,238,051.94	1,744,866.37	39° 12' 30.473 N	80° 37' 52.556 W
5,884.0	23.61	238.42	5,753.3	-310.8	-566.3	14,238,046.66	1,744,857.86	39° 12' 30.422 N	80° 37' 52.664 W
5,909.0	24.14	239.45	5,776.2	-316.1	-575.0	14,238,041.44	1,744,849.19	39° 12' 30.370 N	80° 37' 52.774 W
5,934.0	24.97	240.45	5,798.9	-321.3	-584.0	14,238,036.24	1,744,840.20	39° 12' 30.319 N	80° 37' 52.889 W
5,959.0	25.80	241.39	5,821.5	-326.5	-593.3	14,238,031.03	1,744,830.83	39° 12' 30.268 N	80° 37' 53.008 W
5,984.0	26.56	241.69	5,843.9	-331.7	-603.0	14,238,025.78	1,744,821.13	39° 12' 30.217 N	80° 37' 53.132 W
6,009.0	26.64	242.06	5,866.3	-337.0	-612.9	14,238,020.50	1,744,811.26	39° 12' 30.165 N	80° 37' 53.257 W
6,034.0	26.38	241.80	5,888.7	-342.3	-622.7	14,238,015.25	1,744,801.42	39° 12' 30.113 N	80° 37' 53.383 W
6,034.9	26.37	241.79	5,889.5	-342.4	-623.1	14,238,015.06	1,744,801.06	39° 12' 30.111 N	80° 37' 53.387 W
6,112.0	25.13	238.09	5,958.9	-359.2	-652.1	14,237,998.31	1,744,772.08	39° 12' 29.947 N	80° 37' 53.757 W
6,202.0	25.11	237.66	6,040.4	-379.5	-684.4	14,237,978.00	1,744,739.72	39° 12' 29.747 N	80° 37' 54.169 W
6,292.0	24.63	239.60	6,122.1	-399.2	-716.7	14,237,958.29	1,744,707.41	39° 12' 29.554 N	80° 37' 54.581 W
6,381.0	24.65	238.70	6,203.0	-418.2	-748.6	14,237,939.26	1,744,675.55	39° 12' 29.367 N	80° 37' 54.986 W
6,471.0	25.22	239.32	6,284.6	-437.8	-781.1	14,237,919.73	1,744,643.03	39° 12' 29.175 N	80° 37' 55.401 W
6,561.0	25.25	238.35	6,366.0	-457.6	-814.0	14,237,899.87	1,744,610.19	39° 12' 28.980 N	80° 37' 55.819 W
6,651.0	25.86	237.06	6,447.2	-478.4	-846.8	14,237,879.13	1,744,577.38	39° 12' 28.776 N	80° 37' 56.237 W
6,741.0	26.44	237.90	6,528.0	-499.7	-880.2	14,237,857.81	1,744,543.93	39° 12' 28.567 N	80° 37' 56.663 W
6,831.0	26.24	239.55	6,608.6	-520.4	-914.3	14,237,837.08	1,744,509.81	39° 12' 28.363 N	80° 37' 57.098 W
6,921.0	27.08	238.20	6,689.1	-541.3	-948.9	14,237,816.20	1,744,475.25	39° 12' 28.158 N	80° 37' 57.538 W
7,011.0	26.82	238.25	6,769.3	-562.8	-983.6	14,237,794.72	1,744,440.57	39° 12' 27.947 N	80° 37' 57.980 W
7,100.0	26.28	239.28	6,848.9	-583.4	-1,017.6	14,237,774.09	1,744,406.56	39° 12' 27.745 N	80° 37' 58.413 W
7,145.0	25.84	239.43	6,889.3	-593.5	-1,034.6	14,237,764.01	1,744,389.55	39° 12' 27.646 N	80° 37' 58.630 W
7,190.0	26.25	239.33	6,929.8	-603.6	-1,051.6	14,237,753.95	1,744,372.55	39° 12' 27.547 N	80° 37' 58.847 W
7,228.0	26.28	246.85	6,963.8	-611.2	-1,066.6	14,237,746.35	1,744,357.58	39° 12' 27.472 N	80° 37' 59.037 W
Sycamore									
7,235.0	26.33	248.23	6,970.1	-612.3	-1,069.4	14,237,745.17	1,744,354.71	39° 12' 27.461 N	80° 37' 59.074 W
7,280.0	27.89	261.85	7,010.2	-617.5	-1,089.1	14,237,739.97	1,744,335.01	39° 12' 27.410 N	80° 37' 59.325 W
7,325.0	28.84	273.99	7,049.8	-618.3	-1,110.4	14,237,739.23	1,744,313.74	39° 12' 27.404 N	80° 37' 59.595 W
7,370.0	29.86	282.50	7,089.1	-615.1	-1,132.2	14,237,742.41	1,744,291.97	39° 12' 27.436 N	80° 37' 59.871 W
7,415.0	32.52	291.38	7,127.6	-608.3	-1,154.4	14,237,749.25	1,744,269.75	39° 12' 27.504 N	80° 38' 0.153 W
7,417.0	32.61	291.79	7,129.3	-607.9	-1,155.4	14,237,749.65	1,744,268.75	39° 12' 27.508 N	80° 38' 0.166 W
Middlesex									
7,459.0	34.89	299.80	7,164.2	-597.7	-1,176.3	14,237,759.82	1,744,247.80	39° 12' 27.610 N	80° 38' 0.432 W
7,504.0	38.50	304.56	7,200.3	-583.3	-1,199.1	14,237,774.17	1,744,225.09	39° 12' 27.753 N	80° 38' 0.720 W
7,549.0	42.20	307.90	7,234.6	-566.1	-1,222.5	14,237,791.41	1,744,201.62	39° 12' 27.924 N	80° 38' 1.017 W
7,594.0	45.17	313.07	7,267.1	-545.9	-1,246.1	14,237,811.60	1,744,178.02	39° 12' 28.125 N	80° 38' 1.316 W
7,609.0	46.05	314.43	7,277.6	-538.5	-1,253.9	14,237,819.02	1,744,170.28	39° 12' 28.198 N	80° 38' 1.414 W
Burkett									
7,639.0	47.87	317.03	7,298.1	-522.8	-1,269.2	14,237,834.72	1,744,154.98	39° 12' 28.354 N	80° 38' 1.608 W
7,653.0	48.87	318.44	7,307.4	-515.0	-1,276.2	14,237,842.46	1,744,147.94	39° 12' 28.431 N	80° 38' 1.697 W
Tully									
7,684.0	51.15	321.40	7,327.3	-496.9	-1,291.5	14,237,860.64	1,744,132.66	39° 12' 28.611 N	80° 38' 1.890 W
7,729.0	55.31	325.14	7,354.3	-468.0	-1,313.0	14,237,889.53	1,744,111.14	39° 12' 28.898 N	80° 38' 2.162 W
7,774.0	59.74	330.54	7,378.4	-435.8	-1,333.2	14,237,921.67	1,744,090.99	39° 12' 29.216 N	80° 38' 2.416 W
7,792.0	61.42	331.42	7,387.3	-422.1	-1,340.8	14,237,935.38	1,744,083.38	39° 12' 29.352 N	80° 38' 2.512 W
Hamilton									
7,819.0	63.94	332.70	7,399.7	-400.9	-1,352.0	14,237,956.57	1,744,072.15	39° 12' 29.562 N	80° 38' 2.654 W
7,864.0	68.07	335.11	7,418.0	-364.0	-1,370.1	14,237,993.48	1,744,054.08	39° 12' 29.928 N	80° 38' 2.882 W
7,876.0	69.62	335.55	7,422.3	-353.9	-1,374.7	14,238,003.65	1,744,049.41	39° 12' 30.029 N	80° 38' 2.940 W
Marcellus									
7,909.0	73.89	336.71	7,432.6	-325.2	-1,387.4	14,238,032.31	1,744,036.74	39° 12' 30.313 N	80° 38' 3.100 W



Survey Report - Geographic



Company: Antero Resources
Project: Doddridge County WV
Site: Trent Pad: Bowen/Cox/Life/Baker/Nestor
Well: Baker Unit 1H
Wellbore: Original Welpath
Design: As Drilled

Local Co-ordinate Reference: Well Baker Unit 1H
TVD Reference: Precision 525: GL 1410' + 19' KB @ 1429.0usft
MD Reference: Precision 525: GL 1410' + 19' KB @ 1429.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Oklahoma District

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Survey

WV Department of Environmental Protection

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
7,953.0	80.14	336.64	7,442.5	-285.9	-1,404.4	14,238,071.66	1,744,019.77	39° 12' 30.702 N	80° 38' 3.314 W
7,969.0	82.19	336.91	7,445.0	-271.3	-1,410.6	14,238,086.19	1,744,013.54	39° 12' 30.846 N	80° 38' 3.392 W
8,027.0	89.78	339.91	7,449.0	-217.6	-1,431.9	14,238,139.94	1,743,992.27	39° 12' 31.379 N	80° 38' 3.660 W
8,062.0	91.54	342.98	7,448.6	-184.4	-1,443.0	14,238,173.11	1,743,981.14	39° 12' 31.707 N	80° 38' 3.799 W
8,152.0	89.43	342.63	7,447.9	-98.4	-1,469.6	14,238,259.08	1,743,954.53	39° 12' 32.558 N	80° 38' 4.133 W
8,242.0	91.36	343.77	7,447.2	-12.3	-1,495.6	14,238,345.24	1,743,928.52	39° 12' 33.411 N	80° 38' 4.459 W
8,332.0	91.80	343.25	7,444.8	74.0	-1,521.2	14,238,431.50	1,743,902.98	39° 12' 34.265 N	80° 38' 4.779 W
8,422.0	90.48	344.30	7,443.0	160.4	-1,546.3	14,238,517.90	1,743,877.84	39° 12' 35.120 N	80° 38' 5.095 W
8,511.0	90.48	343.42	7,442.2	245.9	-1,571.0	14,238,603.38	1,743,853.10	39° 12' 35.966 N	80° 38' 5.405 W
8,601.0	90.84	344.30	7,441.2	332.3	-1,596.1	14,238,689.83	1,743,828.09	39° 12' 36.822 N	80° 38' 5.718 W
8,691.0	89.34	339.64	7,441.0	417.9	-1,623.9	14,238,775.38	1,743,800.24	39° 12' 37.669 N	80° 38' 6.068 W
8,781.0	89.78	339.03	7,441.7	502.1	-1,655.7	14,238,859.59	1,743,768.48	39° 12' 38.503 N	80° 38' 6.467 W
8,871.0	90.57	341.75	7,441.5	586.9	-1,685.9	14,238,944.36	1,743,738.28	39° 12' 39.342 N	80° 38' 6.846 W
8,961.0	90.84	341.93	7,440.4	672.4	-1,713.9	14,239,029.87	1,743,710.23	39° 12' 40.189 N	80° 38' 7.199 W
9,051.0	89.34	339.64	7,440.2	757.3	-1,743.5	14,239,114.85	1,743,680.61	39° 12' 41.031 N	80° 38' 7.571 W
9,140.0	90.57	342.72	7,440.3	841.6	-1,772.2	14,239,199.08	1,743,651.90	39° 12' 41.864 N	80° 38' 7.931 W
9,230.0	90.75	342.63	7,439.2	927.5	-1,799.0	14,239,284.99	1,743,625.10	39° 12' 42.715 N	80° 38' 8.267 W
9,320.0	90.66	344.74	7,438.1	1,013.8	-1,824.3	14,239,371.36	1,743,599.83	39° 12' 43.570 N	80° 38' 8.584 W
9,410.0	90.84	343.60	7,437.0	1,100.4	-1,848.9	14,239,457.93	1,743,575.28	39° 12' 44.427 N	80° 38' 8.892 W
9,500.0	90.57	344.30	7,435.9	1,186.9	-1,873.8	14,239,544.42	1,743,550.40	39° 12' 45.283 N	80° 38' 9.204 W
9,589.0	90.48	344.65	7,435.0	1,272.7	-1,897.6	14,239,630.17	1,743,526.58	39° 12' 46.132 N	80° 38' 9.502 W
9,679.0	90.57	344.39	7,434.2	1,359.4	-1,921.6	14,239,716.90	1,743,502.56	39° 12' 46.990 N	80° 38' 9.803 W
9,769.0	90.66	344.30	7,433.2	1,446.0	-1,945.9	14,239,803.55	1,743,478.27	39° 12' 47.848 N	80° 38' 10.107 W
9,859.0	90.57	342.54	7,432.3	1,532.3	-1,971.6	14,239,889.80	1,743,452.59	39° 12' 48.702 N	80° 38' 10.429 W
9,949.0	90.48	342.37	7,431.5	1,618.1	-1,998.7	14,239,975.61	1,743,425.46	39° 12' 49.552 N	80° 38' 10.769 W
10,038.0	90.40	342.45	7,430.8	1,702.9	-2,025.6	14,240,060.45	1,743,398.57	39° 12' 50.391 N	80° 38' 11.107 W
10,128.0	90.75	341.31	7,429.9	1,788.5	-2,053.6	14,240,145.98	1,743,370.58	39° 12' 51.238 N	80° 38' 11.458 W
10,218.0	90.92	340.96	7,428.6	1,873.6	-2,082.7	14,240,231.14	1,743,341.48	39° 12' 52.081 N	80° 38' 11.824 W
10,308.0	89.87	339.99	7,427.9	1,958.4	-2,112.7	14,240,315.96	1,743,311.40	39° 12' 52.921 N	80° 38' 12.202 W
10,397.0	90.04	339.91	7,428.0	2,042.1	-2,143.3	14,240,399.56	1,743,280.89	39° 12' 53.749 N	80° 38' 12.585 W
10,487.0	90.57	341.49	7,427.5	2,127.0	-2,173.0	14,240,484.50	1,743,251.14	39° 12' 54.590 N	80° 38' 12.959 W
10,577.0	89.78	340.87	7,427.3	2,212.2	-2,202.0	14,240,569.69	1,743,222.11	39° 12' 55.434 N	80° 38' 13.324 W
10,667.0	90.04	342.98	7,427.4	2,297.7	-2,230.0	14,240,655.24	1,743,194.19	39° 12' 56.281 N	80° 38' 13.674 W
10,757.0	89.52	342.54	7,427.7	2,383.7	-2,256.6	14,240,741.20	1,743,167.52	39° 12' 57.132 N	80° 38' 14.009 W
10,847.0	89.69	344.39	7,428.4	2,470.0	-2,282.2	14,240,827.47	1,743,141.90	39° 12' 57.986 N	80° 38' 14.330 W
10,936.0	91.71	345.44	7,427.3	2,555.9	-2,305.4	14,240,913.39	1,743,118.74	39° 12' 58.836 N	80° 38' 14.620 W
11,026.0	90.75	343.25	7,425.3	2,642.5	-2,329.7	14,241,000.03	1,743,094.47	39° 12' 59.694 N	80° 38' 14.924 W
11,116.0	90.13	342.45	7,424.6	2,728.5	-2,356.2	14,241,086.02	1,743,067.93	39° 13' 0.545 N	80° 38' 15.257 W
11,206.0	90.13	342.28	7,424.4	2,814.3	-2,383.5	14,241,171.79	1,743,040.66	39° 13' 1.394 N	80° 38' 15.599 W
11,295.0	90.31	341.58	7,424.1	2,898.9	-2,411.1	14,241,256.40	1,743,013.06	39° 13' 2.232 N	80° 38' 15.946 W
11,385.0	90.75	342.10	7,423.3	2,984.4	-2,439.1	14,241,341.91	1,742,985.01	39° 13' 3.078 N	80° 38' 16.298 W
11,474.0	90.31	342.72	7,422.4	3,069.2	-2,466.0	14,241,426.75	1,742,958.11	39° 13' 3.918 N	80° 38' 16.636 W
11,567.0	91.01	342.02	7,421.4	3,157.9	-2,494.2	14,241,515.37	1,742,929.95	39° 13' 4.796 N	80° 38' 16.989 W
11,661.0	90.31	342.89	7,420.3	3,247.5	-2,522.5	14,241,604.99	1,742,901.61	39° 13' 5.683 N	80° 38' 17.345 W
11,755.0	90.75	343.07	7,419.4	3,337.4	-2,550.0	14,241,694.87	1,742,874.10	39° 13' 6.573 N	80° 38' 17.690 W
11,849.0	90.04	341.40	7,418.8	3,426.9	-2,578.7	14,241,784.38	1,742,845.42	39° 13' 7.459 N	80° 38' 18.050 W
11,943.0	90.40	341.75	7,418.4	3,516.1	-2,608.4	14,241,873.56	1,742,815.71	39° 13' 8.342 N	80° 38' 18.423 W
12,037.0	90.75	342.02	7,417.5	3,605.4	-2,637.7	14,241,962.90	1,742,786.49	39° 13' 9.226 N	80° 38' 18.790 W
12,131.0	91.01	342.28	7,416.0	3,694.9	-2,666.5	14,242,052.36	1,742,757.68	39° 13' 10.112 N	80° 38' 19.152 W
12,224.0	91.10	341.58	7,414.3	3,783.3	-2,695.3	14,242,140.76	1,742,728.84	39° 13' 10.987 N	80° 38' 19.514 W
12,318.0	90.31	341.40	7,413.2	3,872.4	-2,725.2	14,242,229.89	1,742,699.00	39° 13' 11.870 N	80° 38' 19.888 W
12,412.0	89.52	337.44	7,413.3	3,960.4	-2,758.2	14,242,317.87	1,742,665.96	39° 13' 12.741 N	80° 38' 20.304 W
12,505.0	90.04	341.14	7,413.7	4,047.3	-2,791.1	14,242,404.85	1,742,633.08	39° 13' 13.602 N	80° 38' 20.717 W
12,600.0	89.96	339.29	7,413.7	4,136.7	-2,823.2	14,242,494.24	1,742,600.92	39° 13' 14.487 N	80° 38' 21.122 W
12,690.0	89.25	338.85	7,414.3	4,220.8	-2,855.4	14,242,578.29	1,742,568.77	39° 13' 15.320 N	80° 38' 21.526 W



Survey Report - Geographic



Company: Antero Resources
 Project: Doddridge County WV
 Site: Trent Pad: Bowen/Cox/Life/Baker/Nestor
 Well: Baker Unit 1H
 Wellbore: Original Welpath
 Design: As Drilled

Local Co-ordinate Reference: Well Baker Unit 1H
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Survey

NOV - 6 2017

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
12,779.0	89.52	341.75	7,415.2	4,304.6	-2,885.4	14,242,662.07	1,742,538.78	39° 13' 16.149 N	80° 38' 21.903 W
12,869.0	90.04	343.95	7,415.6	4,390.6	-2,911.9	14,242,748.06	1,742,512.24	39° 13' 17.001 N	80° 38' 22.236 W
12,959.0	89.69	344.48	7,415.8	4,477.2	-2,936.4	14,242,834.67	1,742,487.76	39° 13' 17.858 N	80° 38' 22.543 W
13,049.0	90.40	344.74	7,415.7	4,563.9	-2,960.3	14,242,921.44	1,742,463.87	39° 13' 18.717 N	80° 38' 22.842 W
13,138.0	89.96	343.25	7,415.4	4,649.5	-2,984.8	14,243,006.99	1,742,439.33	39° 13' 19.564 N	80° 38' 23.150 W
13,228.0	90.04	343.25	7,415.4	4,735.7	-3,010.8	14,243,093.17	1,742,413.40	39° 13' 20.417 N	80° 38' 23.475 W
13,318.0	90.13	343.51	7,415.3	4,821.9	-3,036.5	14,243,179.41	1,742,387.66	39° 13' 21.270 N	80° 38' 23.798 W
13,408.0	89.60	342.89	7,415.5	4,908.1	-3,062.5	14,243,265.57	1,742,361.64	39° 13' 22.123 N	80° 38' 24.124 W
13,497.0	90.22	342.72	7,415.7	4,993.1	-3,088.8	14,243,350.59	1,742,335.33	39° 13' 22.965 N	80° 38' 24.454 W
13,587.0	89.52	343.95	7,415.9	5,079.3	-3,114.6	14,243,436.81	1,742,309.52	39° 13' 23.819 N	80° 38' 24.778 W
13,677.0	89.69	343.51	7,416.5	5,165.7	-3,139.8	14,243,523.20	1,742,284.31	39° 13' 24.674 N	80° 38' 25.094 W
13,767.0	90.04	343.16	7,416.7	5,251.9	-3,165.7	14,243,609.42	1,742,258.50	39° 13' 25.527 N	80° 38' 25.418 W
13,856.0	89.78	343.07	7,416.8	5,337.1	-3,191.5	14,243,694.58	1,742,232.65	39° 13' 26.370 N	80° 38' 25.742 W
13,946.0	88.99	342.98	7,417.8	5,423.1	-3,217.8	14,243,780.66	1,742,206.38	39° 13' 27.222 N	80° 38' 26.072 W
14,036.0	89.69	343.42	7,418.8	5,509.3	-3,243.8	14,243,866.81	1,742,180.36	39° 13' 28.075 N	80° 38' 26.398 W
14,125.0	89.69	342.02	7,419.3	5,594.3	-3,270.2	14,243,951.79	1,742,153.93	39° 13' 28.917 N	80° 38' 26.730 W
14,215.0	90.40	341.14	7,419.2	5,679.7	-3,298.7	14,244,037.17	1,742,125.49	39° 13' 29.762 N	80° 38' 27.087 W
14,305.0	89.78	340.87	7,419.1	5,764.8	-3,328.0	14,244,122.27	1,742,096.20	39° 13' 30.605 N	80° 38' 27.455 W
14,394.0	90.40	341.84	7,419.0	5,849.1	-3,356.4	14,244,206.60	1,742,067.74	39° 13' 31.439 N	80° 38' 27.813 W
14,484.0	89.78	341.40	7,418.8	5,934.5	-3,384.8	14,244,292.01	1,742,039.37	39° 13' 32.285 N	80° 38' 28.169 W
14,573.0	89.52	341.40	7,419.4	6,018.8	-3,413.2	14,244,376.36	1,742,010.98	39° 13' 33.120 N	80° 38' 28.526 W
14,663.0	89.78	342.19	7,419.9	6,104.3	-3,441.3	14,244,461.85	1,741,982.86	39° 13' 33.967 N	80° 38' 28.879 W
14,753.0	89.87	342.63	7,420.2	6,190.1	-3,468.5	14,244,547.64	1,741,955.66	39° 13' 34.816 N	80° 38' 29.220 W
14,843.0	89.34	342.19	7,420.8	6,275.9	-3,495.7	14,244,633.43	1,741,928.47	39° 13' 35.665 N	80° 38' 29.562 W
14,933.0	88.64	342.37	7,422.4	6,361.6	-3,523.1	14,244,719.15	1,741,901.08	39° 13' 36.514 N	80° 38' 29.905 W
15,022.0	89.16	342.72	7,424.1	6,446.5	-3,549.8	14,244,804.03	1,741,874.39	39° 13' 37.354 N	80° 38' 30.240 W
15,112.0	89.87	342.37	7,424.9	6,532.4	-3,576.8	14,244,889.89	1,741,847.39	39° 13' 38.204 N	80° 38' 30.579 W
15,202.0	88.99	341.93	7,425.8	6,618.0	-3,604.3	14,244,975.55	1,741,819.81	39° 13' 39.052 N	80° 38' 30.926 W
15,291.0	89.69	342.10	7,426.8	6,702.7	-3,631.8	14,245,060.19	1,741,792.33	39° 13' 39.890 N	80° 38' 31.271 W
15,381.0	90.48	343.33	7,426.7	6,788.6	-3,658.6	14,245,146.13	1,741,765.59	39° 13' 40.741 N	80° 38' 31.606 W
15,471.0	88.90	341.22	7,427.1	6,874.3	-3,686.0	14,245,231.85	1,741,738.19	39° 13' 41.590 N	80° 38' 31.950 W
15,560.0	89.16	341.14	7,428.7	6,958.6	-3,714.7	14,245,316.07	1,741,709.48	39° 13' 42.424 N	80° 38' 32.311 W
15,650.0	90.13	340.61	7,429.2	7,043.6	-3,744.2	14,245,401.10	1,741,680.00	39° 13' 43.265 N	80° 38' 32.682 W
15,740.0	90.13	341.58	7,429.0	7,128.7	-3,773.3	14,245,486.25	1,741,650.84	39° 13' 44.108 N	80° 38' 33.048 W
15,830.0	89.43	341.05	7,429.4	7,214.0	-3,802.1	14,245,571.50	1,741,622.01	39° 13' 44.953 N	80° 38' 33.410 W
15,919.0	90.04	341.93	7,429.8	7,298.4	-3,830.4	14,245,655.90	1,741,593.75	39° 13' 45.788 N	80° 38' 33.765 W
16,009.0	90.48	342.63	7,429.4	7,384.1	-3,857.8	14,245,741.63	1,741,566.36	39° 13' 46.637 N	80° 38' 34.109 W
16,099.0	90.31	341.22	7,428.7	7,469.7	-3,885.7	14,245,827.18	1,741,538.44	39° 13' 47.484 N	80° 38' 34.460 W
16,189.0	91.10	340.52	7,427.6	7,554.7	-3,915.2	14,245,912.20	1,741,508.95	39° 13' 48.326 N	80° 38' 34.830 W
16,279.0	90.84	342.19	7,426.1	7,640.0	-3,944.0	14,245,997.46	1,741,480.18	39° 13' 49.170 N	80° 38' 35.192 W
16,368.0	91.28	340.52	7,424.5	7,724.3	-3,972.4	14,246,081.77	1,741,451.73	39° 13' 50.005 N	80° 38' 35.549 W
16,458.0	90.75	342.72	7,422.9	7,809.7	-4,000.8	14,246,167.16	1,741,423.36	39° 13' 50.850 N	80° 38' 35.906 W
16,548.0	89.16	343.95	7,422.9	7,895.9	-4,026.6	14,246,253.38	1,741,397.55	39° 13' 51.703 N	80° 38' 36.230 W
16,638.0	89.34	344.04	7,424.1	7,982.4	-4,051.4	14,246,339.88	1,741,372.74	39° 13' 52.560 N	80° 38' 36.541 W
16,727.0	89.96	344.56	7,424.7	8,068.1	-4,075.5	14,246,425.56	1,741,348.65	39° 13' 53.408 N	80° 38' 36.843 W
16,817.0	89.25	342.98	7,425.3	8,154.5	-4,100.7	14,246,511.97	1,741,323.50	39° 13' 54.263 N	80° 38' 37.158 W
16,907.0	89.60	343.69	7,426.2	8,240.7	-4,126.5	14,246,598.18	1,741,297.69	39° 13' 55.117 N	80° 38' 37.482 W
16,996.0	91.10	343.95	7,425.6	8,326.1	-4,151.3	14,246,683.65	1,741,272.89	39° 13' 55.963 N	80° 38' 37.793 W
17,086.0	89.34	342.63	7,425.3	8,412.3	-4,177.1	14,246,769.85	1,741,247.02	39° 13' 56.816 N	80° 38' 38.117 W
17,176.0	89.43	342.37	7,426.3	8,498.2	-4,204.2	14,246,855.68	1,741,219.96	39° 13' 57.666 N	80° 38' 38.457 W
17,266.0	90.22	341.84	7,426.5	8,583.8	-4,231.8	14,246,941.32	1,741,192.30	39° 13' 58.513 N	80° 38' 38.804 W
17,355.0	89.96	341.40	7,426.4	8,668.3	-4,259.9	14,247,025.78	1,741,164.24	39° 13' 59.350 N	80° 38' 39.157 W
17,445.0	89.16	342.19	7,427.1	8,753.8	-4,288.0	14,247,111.27	1,741,136.12	39° 14' 0.196 N	80° 38' 39.510 W
17,535.0	90.31	342.28	7,427.5	8,839.5	-4,315.5	14,247,196.98	1,741,108.66	39° 14' 1.045 N	80° 38' 39.855 W
17,625.0	88.99	341.49	7,428.0	8,925.0	-4,343.5	14,247,282.51	1,741,080.68	39° 14' 1.891 N	80° 38' 40.206 W

WV Department of Environmental Protection



Survey Report - Geographic



Company:	Antero Resources	Local Co-ordinate Reference:	Well Baker Unit 1H
Project:	Doddridge County WV	TVD Reference:	Precision 525: GL 1410' + 19' KB @ 1429.0usft
Site:	Trent Pad: Bowen/Cox/Life/Baker/Nestor	MD Reference:	Precision 525: GL 1410' + 19' KB @ 1429.0usft
Well:	Baker Unit 1H	North Reference:	Grid
Wellbore:	Original Welpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

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Survey										NOV - 6 2017
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	WV Department of Environmental Protection
17,714.0	88.55	339.99	7,430.0	9,009.0	-4,372.8	14,247,366.51	1,741,051.33	39° 14' 2.723 N	80° 38' 40.575 W	
17,804.0	89.52	339.82	7,431.5	9,093.5	-4,403.7	14,247,451.02	1,741,020.41	39° 14' 3.560 N	80° 38' 40.964 W	
17,855.0	89.69	339.99	7,431.8	9,141.4	-4,421.3	14,247,498.91	1,741,002.89	39° 14' 4.034 N	80° 38' 41.185 W	
17,914.0	89.69	339.99	7,432.1	9,196.8	-4,441.4	14,247,554.35	1,740,982.70	39° 14' 4.583 N	80° 38' 41.439 W	

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
7,228.0	6,963.8	-611.2	-1,066.6	Sycamore	
7,417.0	7,129.3	-607.9	-1,155.4	Middlesex	
7,609.0	7,277.6	-538.5	-1,253.9	Burkett	
7,653.0	7,307.4	-515.0	-1,276.2	Tully	
7,792.0	7,387.3	-422.1	-1,340.8	Hamilton	
7,876.0	7,422.3	-353.9	-1,374.7	Marcellus	

Checked By: _____	Approved By: _____	Date: _____
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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	6/8/2017
Job End Date:	6/21/2017
State:	West Virginia
County:	Doddridge
API Number:	47-017-06468-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Baker 1H
Latitude:	39.20929722
Longitude:	-80.62929444
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,448
Total Base Water Volume (gal):	18,431,076
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	Antero Resources	Carrier/Base Fluid	Water	7732-18-5	100.00000	88.39740	
Sand	U.S. Well Services, LLC	Proppant	Crystalline Silica, quartz	14808-60-7	100.00000	11.36894	
HCL Acid (12.6%-17.5%)	U.S. Well Services, LLC	Bulk Acid	Water	7732-18-5	87.40000	0.11307	
			Hydrogen Chloride	7647-01-0	17.50000	0.02629	
LGC-15	U.S. Well Services, LLC	Gelling Agents	Guar Gum	9000-30-0	50.00000	0.02279	
			Petroleum Distillates	64742-47-8	60.00000	0.02158	
			Suspending agent (solid)	14808-60-7	3.00000	0.00349	
			Surfactant	68439-51-0	3.00000	0.00137	
WFR-405	U.S. Well Services, LLC	Friction Reducer	2-Propenoic acid, polymer with 2 propenamide	9003-06-9	30.00000	0.02040	
			Hydrated light distillate (petroleum)	64742-47-8	30.00000	0.01642	

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 West Virginia

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Bioclear 2000	U.S. Well Services, LLC	Anti-Bacterial Agent					
			2,2-dibromo-3-nitrilopropionamide	10222-01-2	20.00000	0.00413	
			Deionized Water	7732-18-5	28.00000	0.00236	
AP One	U.S. Well Services, LLC	Gel Breakers					
			Ammonium Persulfate	7727-54-0	100.00000	0.00096	
SI-1200s	U.S. Well Services, LLC	Scale Inhibitor					
			Alkyl Phosphonic Acid	Proprietary	5.00000	0.00063	
			Ammonia	7664-41-7	0.50000	0.00010	
AI-303	U.S. Well Services, LLC	Acid Corrosion Inhibitors					
			Ethylene glycol	107-21-1	40.00000	0.00004	
			Cinnamaldehyde	104-55-2	20.00000	0.00002	
			Formic acid	64-18-6	20.00000	0.00002	
			Butyl cellosolve	111-76-2	20.00000	0.00001	
			Polyether	60828-78-6	10.00000	0.00001	
			Acetophenone,thiourea,formaldehyde polymer	68527-49-1	5.00000	0.00000	

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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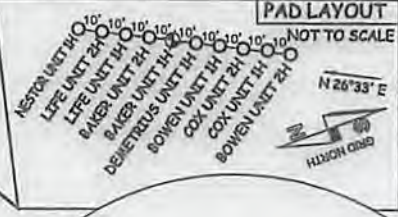
Antero Resources Corporation
Well No. Baker Unit 1H
47-017-06468 (AS DRILLED)

AS DRILLED DATA:
WELL 1H TOP HOLE INFORMATION:
N: 260,351ft E: 1,680,005ft
LAT: 39°12'33.46" LON: 80°37'45.46"
BOTTOM HOLE INFORMATION:
N: 269,624ft E: 1,675,716ft
LAT: 39°14'04.57" LON: 80°38'41.45"
WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT TAPMETER MAPPING GRADE 6PS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.

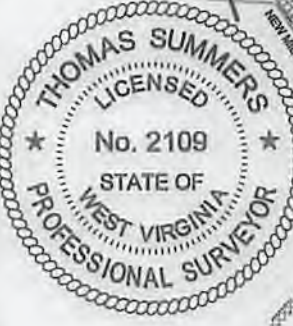
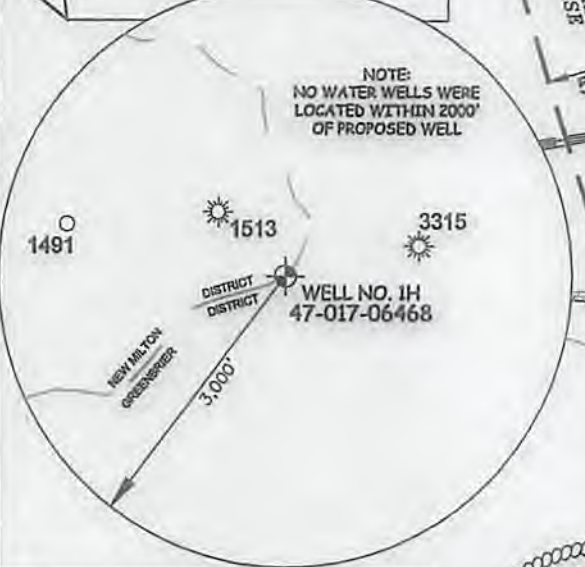
(NAD) 83 (UTM) ZONE 17 COORDS:
WELL 1H TOP HOLE INFORMATION:
N: 4,340,078m E: 532,021m
BOTTOM HOLE INFORMATION:
N: 4,342,881m E: 530,667m

- NOTE**
1. NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHEDDER 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.
 6. THE INTERIOR BOUNDARY LINES OF THE DAVID E. GADDIS ET AL TRACTS (TH 6 PARCELS 13, 13.1 & 13.2) SHOWN HEREON IN BOLD ARE BASED ON CURRENT DEEDS OF RECORD ONLY. THE SURFACE OWNER REFUSED ACCESS ONTO HIS PROPERTY TO OBTAIN THE NECESSARY INFORMATION TO VERIFY THE LOCATION OF THE BOUNDARY. THESE LINES ARE SHOWN FOR MAPPING PURPOSES ONLY.

PAD LAYOUT



NOTE:
NO WATER WELLS WERE LOCATED WITHIN 2000' OF PROPOSED WELL



JOB # 13-123WA
DRAWING # BAKER1HAD
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY SUBMETER
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS
STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

LEGEND

- Surface Owner Boundary Lines +/-
- Interior Surface Tracts +/-
- Proposed Well Path
- As Drilled Well Path

THOMAS SUMMERS P.S. 2109

DATE 11/01/17

OPERATOR'S WELL# BAKER UNIT #1H
API WELL # 47 - 017 - 06468
STATE COUNTY PERMIT

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

WILLOW LAND SURVEYING PLLC
220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL
(IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X
LOCATION: ELEVATION 1,420 ORIGINAL - 1,400 AS DRILLED WATERSHED HEADWATERS MIDDLE ISLAND CREEK
NEW MILTON 7.5' DISTRICT GREENBRIER COUNTY DODDRIDGE

QUADRANGLE OWNER CLARENCE TRENT, JR. ET AL ACREAGE 155 ACRES +/-
OIL & GAS ROYALTY OWNER ELIZABETH JONES & RICHARD JONES; ED BROOME INC.; SHAYNE WEST; HARRY MEEK, JR.; JOAN E. PRIM ET AL; MARY K. BAKER ET VIR; MIKE ROSS, INC.; BERNADETTE POOLE ET UX
LEASE ACREAGE 155 AC±; 48.75 AC±; 56 AC±; 57 AC±; 64 AC±; 95 AC±; 100 AC±; 106 AC±
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 7,432' TVD 17,914' MD
WELL OPERATOR ANTERO RESOURCES CORPORATION DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1615 WYKOOP STRETT ADDRESS CT CORPORATION SYSTEM
FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

01/05/2018

