WR-35
Rev. 8/23/13

Reviewed
7/9/18

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

API 47 - 017 - 06698 County Doddridge District West Union
Quad West Union 7.5' Pad Name Yvonne Pad Field/Pool Name -----
Farm name Yvonne Foster Well Number Walker Unit 3H
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 4355502.805m	Easting 519868.570m
Landing Point of Curve	Northing 4355225.98m	Easting 519881.21m
Bottom Hole	Northing 4352995.058m	Easting 520794.819m

Elevation (ft) 1229' 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

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Date permit issued 2/25/2015 Date drilling commenced 6/29/2016 Date drilling ceased 10/24/2016
Date completion activities began 10/9/2017 Date completion activities ceased 2/14/2018
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 225' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1400' 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

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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"	53'	New	94#, H-40	N/A	Y
Surface	17-1/2"	13-3/8"	587'	New	48#, H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2585'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	15579'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	7033'		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	102 sx	15.6	1.18	120	0'	8 Hrs.
Surface	Class A	700 sx	15.6	1.18	826	0'	8 Hrs.
Coal							
Intermediate 1	Class A	1001 sx	15.6	1.18	1181	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	900 sx (Lead) 1325 sx (Tail)	13.5 (Lead), 15.2 (Tail)	1.44 (Lead), 1.87 (Tail)	3774	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 15579' MD, 7030' TVD (BHL), 7032' (Deepest Point Drilled) Loggers TD (ft) 15579' MD

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

Plug back procedure N/A

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Kick off depth (ft) 6405'

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 N/A

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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**

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Please insert additional pages as applicable.

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PRODUCING FORMATION(S)	DEPTHS			
Marcellus	6870' (TOP)	TVD	7048' (TOP)	MD

Please insert additional pages as applicable.

GAS TEST □ Build up □ Drawdown ■ Open Flow OIL TEST ■ Flow □ Pump

SHUT-IN PRESSURE Surface 3550 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW	Gas	Oil	NGL	Water	GAS MEASURED BY
	13810.02 mcfpd	97.77 bpd	--- bpd	1683.10 bpd	□ Estimated ■ Orifice □ Pilot

LITHOLOGY/ FORMATION NAME	TOP DEPTH IN FT 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_2S, ETC)

***PLEASE SEE ATTACHED EXHIBIT 3**

Please insert additional pages as applicable.

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

Logging Company Kodiak Services Int'l
Address 2219 Sawdust Road, Unit 1604-1605 City The Woodlands State TX Zip 77380

Cementing Company BJ Services
Address 1036 East Main Street City Bridgeport State WV Zip 26330

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 Karin Cox Telephone 303-357-6820
Signature Karin Cox Title Permitting Agent Date 7/3/2018

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

API 47-017-06698 Farm Name Yvonne Foster Well Number Walker Unit 3H

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	10/9/2017	15309	15478	48	Marcellus
2	11/22/2017	15108	15277	48	Marcellus
3	1/1/2018	14908	15077	48	Marcellus
4	1/1/2018	14707	14876	48	Marcellus
5	1/2/2018	14507	14676	48	Marcellus
6	1/3/2018	14307	14476	48	Marcellus
7	1/3/2018	14106	14275	48	Marcellus
8	1/4/2018	13906	14075	48	Marcellus
9	1/4/2018	13705	13874	48	Marcellus
10	1/6/2018	13505	13674	48	Marcellus
11	1/7/2018	13305	13474	48	Marcellus
12	1/8/2018	13104	13273	48	Marcellus
13	1/8/2018	12904	13073	48	Marcellus
14	1/9/2018	12704	12873	48	Marcellus
15	1/9/2018	12503	12672	48	Marcellus
16	1/10/2018	12303	12472	48	Marcellus
17	1/10/2018	12102	12271	48	Marcellus
18	1/10/2018	11902	12071	48	Marcellus
19	1/11/2018	11702	11871	48	Marcellus
20	1/11/2018	11501	11670	48	Marcellus
21	1/13/2018	11301	11470	48	Marcellus
22	1/14/2018	11101	11270	48	Marcellus
23	1/14/2018	10900	11069	48	Marcellus
24	1/15/2018	10700	10869	48	Marcellus
25	1/16/2018	10499	10668	48	Marcellus
26	1/19/2018	10299	10468	48	Marcellus
27	1/19/2018	10099	10268	48	Marcellus
28	1/20/2018	9898	10067	48	Marcellus
29	1/21/2018	9698	9867	48	Marcellus
30	1/21/2018	9498	9667	48	Marcellus
31	1/22/2018	9297	9466	48	Marcellus
32	1/23/2018	9097	9266	48	Marcellus
33	1/23/2018	8896	9065	48	Marcellus
34	1/24/2018	8696	8865	48	Marcellus
35	1/25/2018	8496	8665	48	Marcellus
36	1/26/2018	8295	8464	48	Marcellus
37	1/26/2018	8095	8264	48	Marcellus
38	1/27/2018	7895	8063	48	Marcellus
39	1/28/2018	7694	7863	48	Marcellus
40	1/28/2018	7494	7663	48	Marcellus
41	1/29/2018	7293	7462	48	Marcellus
42	1/30/2018	7093	7262	48	Marcellus

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API 47-017-06698 Farm Name Yvonne Foster Well Number Walker Unit 3H

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	10/9/2017	72.3617	8004.75		5405	505,120	13368	N/A
2	11/22/2017	74.771	7827.024	5697	4640	513,050	10621	N/A
3	1/1/2018	59.5698	7459.303	5389	4036	509,635	12453.81	N/A
4	1/1/2018	66.5541	7618.951	5944	5609	509,090	10565.86	N/A
5	1/2/2018	63.7421	7346.421	6145	5516	511,620	10710	N/A
6	1/3/2018	65.4498	7348.775	6014	5161	513,160	11361.17	N/A
7	1/3/2018	65.3914	7212.124	5102	4478	512,080	10353.62	N/A
8	1/4/2018	66.0056	7126.612	5517	5175	512,420	10566	N/A
9	1/4/2018	66.1508	7218.65	6030	5161	511,330	10238.12	N/A
10	1/6/2018	64.794	7417.481	5710	4294	512,770	10521	N/A
11	1/7/2018	66.8552	7691.509	5814	4711	514,450	10373.64	N/A
12	1/8/2018	72.8141	7703.475	5511	4272	511,970	10499.62	N/A
13	1/8/2018	74.6705	7679.273	6035	4709	511,575	10303.19	N/A
14	1/9/2018	75.328	7918.257	5765	4356	509,995	10527.62	N/A
15	1/9/2018	75.4806	7697.872	5529	4329	509,820	10315.12	N/A
16	1/10/2018	72.1749	7354.777	5830	5175	511,890	10312.57	N/A
17	1/10/2018	75.453	7656.944	5407	5417	510,650	10227.14	N/A
18	1/10/2018	73.1015	7385.066	5382	5223	512,420	10204.57	N/A
19	1/11/2018	74.6739	8035.385	5427	3963	511,535	10126.36	N/A
20	1/11/2018	75.0796	7513.025	5316	5429	511,310	10285.57	N/A
21	1/13/2018	72.4427	7380.751	5324	5283	510,965	10365.95	N/A
22	1/14/2018	74.0898	7373.288	5633	5093	513,020	10202.9	N/A
23	1/14/2018	70.8975	7262.895	5234	3957	512,060	10220.64	N/A
24	1/15/2018	75.7527	7196.456	5197	4107	514,095	10304	N/A
25	1/16/2018	74.2267	7685.106	5768	4169	511,750	10206.14	N/A
26	1/19/2018	74.4073	7307.385	5365	5005	512,840	10371	N/A
27	1/19/2018	74.8522	7338.101	5296	4179	512,830	10175.29	N/A
28	1/20/2018	75.2665	6997.622	5203	5424	511,050	10308.69	N/A
29	1/21/2018	74.6791	7540.962	5840	4495	512,380	10151	N/A
30	1/21/2018	74.7003	7418.532	5570	4242	513,100	10347	N/A
31	1/22/2018	73.5237	7058.091	5893	3916	511,420	10195.71	N/A
32	1/23/2018	74.6	6904	5788	4232	511,200	10227.52	N/A
33	1/23/2018	73.6583	7114.344	6175	4384	510,250	10572	N/A
34	1/24/2018	74.6613	7614.082	6003	4009	513,100	10406.52	N/A
35	1/25/2018	74.43	7172.085	5225	4268	511,200	10205	N/A
36	1/26/2018	73.6054	6936.776	5755	4945	510,250	10315	N/A
37	1/26/2018	73.0338	7166.157	5931	4083	511,200	10036.38	N/A
38	1/27/2018	74.5002	7032.053	5628	5007	509,100	10384.86	N/A
39	1/28/2018	73.7004	7003.445	5585	4234	508,400	10561.48	N/A
40	1/28/2018	74.0473	7061.043	5907	4501	511,040	10208	N/A
41	1/29/2018	75.4	6950.3	6207	4811	515,030	9948.381	N/A
42	1/30/2018	72.1	6367.3	6884	4540	513,350	10209.95	N/A
	AVG=	72.1	7,359	5,682	4,665	21,485,520	439,857	TOTAL

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API 47-017-06698 Farm Name Yvonne Foster Well Number Walker Unit 3H				
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	225'	N/A	225'	N/A
Siltstone/Sandstone	0	147	0	87
Silty shale	est. 147	205	est. 87	227
Sandstone/Siltstone/Shale	est. 205	327	est. 227	347
Silty shale	est. 327	447	est. 347	565
Siltstone	est. 447	547	est. 565	607
Silty shale	est. 547	607	est. 607	1,127
Shale	est. 607	687	est. 1127	1,387
Silty sandstone	est. 687	727	est. 1387	1,507
Silty shale	est. 727	767	est. 1507	1,727
Sandstone tr coal	est. 767	787	est. 1727	1,767
Sandy shale	est. 787	907	est. 1767	1,807
Silty shale	est. 907	1,147	est. 1807	1,847
Silty sandstone	est. 1147	2,130	est. 1847	2,133
Big Lime	2,130	2,797	2,133	2,800
Fifty Foot Sandstone	2,797	2,879	2,800	2,882
Gordon	2,879	3,157	2,882	3,160
Fifth Sandstone	3,157	3,167	3,160	3,170
Bayard	3,167	3,965	3,170	3,968
Speechley	3,965	4,267	3,968	4,270
Balltown	4,267	4,744	4,270	4,747
Bradford	4,744	5,163	4,747	5,166
Benson	5,163	5,432	5,166	5,436
Alexander	5,432	6,488	5,436	6,503
Sycamore	6,488	6,657	6,503	6,690
Middlesex	6,657	6,790	6,690	6,876
Burkett	6,790	6,820	6,876	6,930
Tully	6,820	6,870	6,930	7,048
Marcellus	6,870	NA	7,048	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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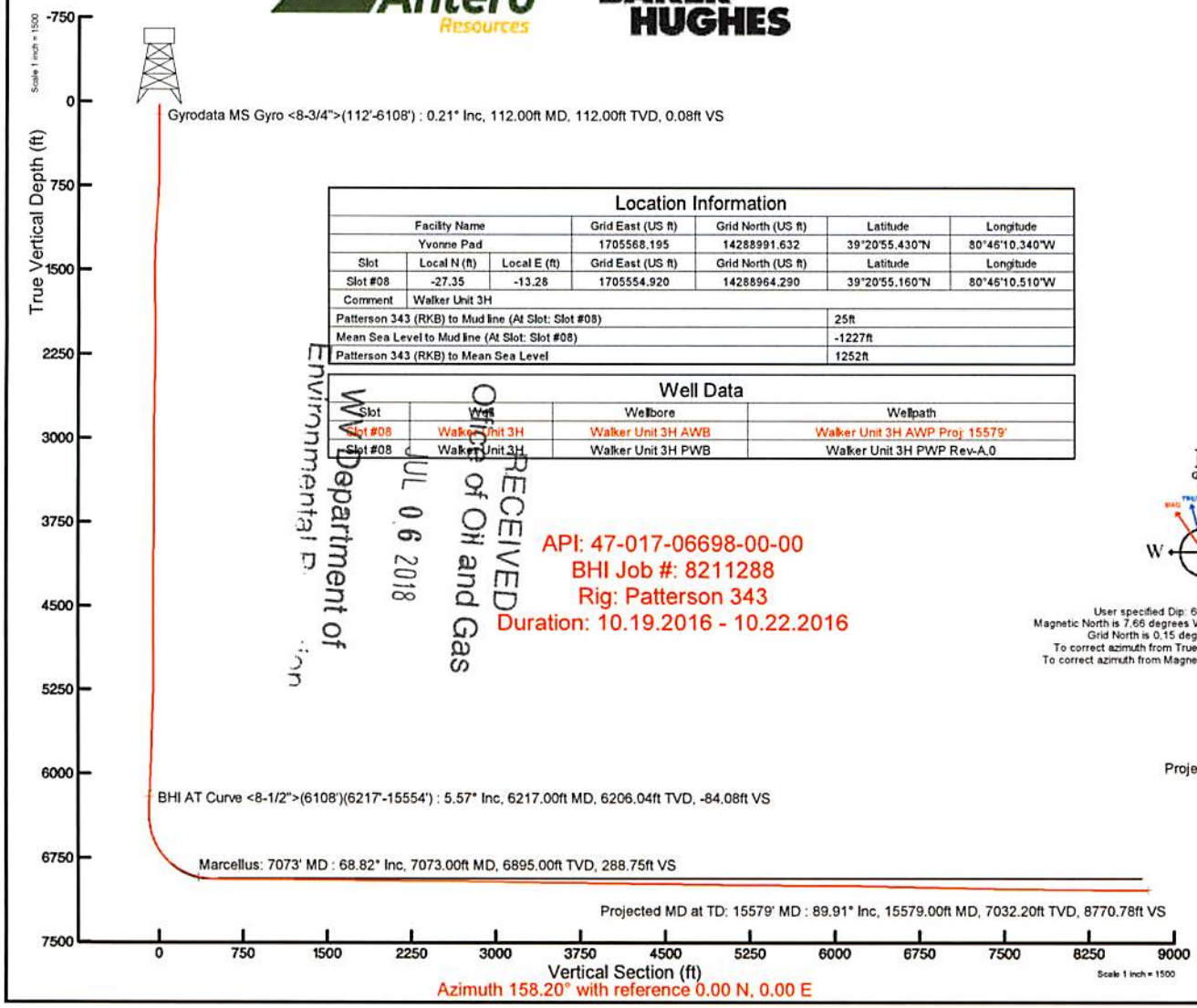
ANTERO RESOURCES CORPORATION

Location: Doddridge Co., WV
Field: Doddridge
Facility: Yvonne Pad

Slot: Slot #08
Well: Walker Unit 3H
Wellbore: Walker Unit 3H PWB

Plot reference wellpath is Walker Unit 3H PWP Rev-A.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to Patterson 343 (RKB)	* = Wellpath was transformed from a different geodetic datum
Measured depths are referenced to Patterson 343 (RKB)	North Reference: Grid north
Patterson 343 (RKB) to Mean Sea Level: 1252 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: Slot #08): -1227 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: hareluk on 2016-10-26
	Database: WA_MPL_EASTERNUS_Defn



Location Information

Facility Name			Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Yvonne Pad			1705568.195	14288991.632	39°20'55.430"N	80°46'10.340"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Slot #08	-27.35	-13.28	1705554.920	14288964.290	39°20'55.160"N	80°46'10.510"W
Comment	Walker Unit 3H					
Patterson 343 (RKB) to Mud line (At Slot: Slot #08)					25ft	
Mean Sea Level to Mud line (At Slot: Slot #08)					-1227ft	
Patterson 343 (RKB) to Mean Sea Level					1252ft	

Well Data

Slot	Well	Wellbore	Wellpath
Slot #08	Walker Unit 3H	Walker Unit 3H AWB	Walker Unit 3H AWP Proj: 15579'
Slot #08	Walker Unit 3H	Walker Unit 3H PWB	Walker Unit 3H PWP Rev-A.0

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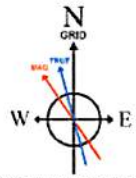
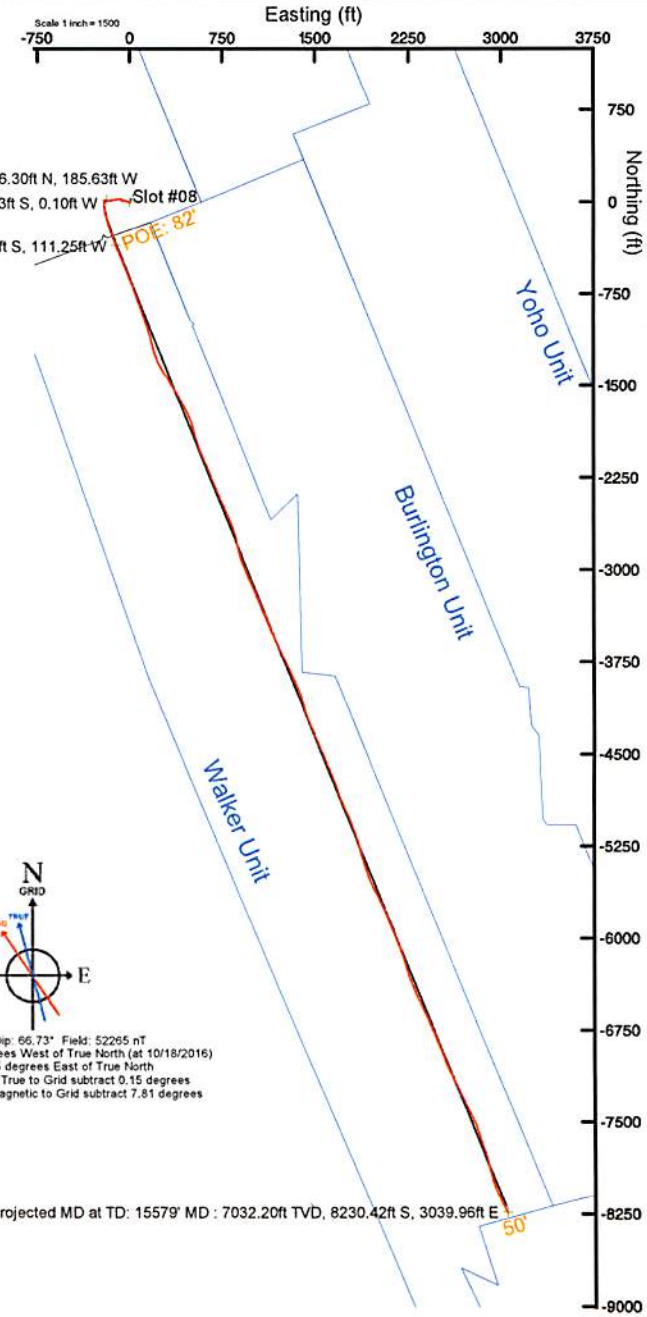
API: 47-017-06698-00-00
BHI Job #: 8211288
Rig: Patterson 343
Duration: 10.19.2016 - 10.22.2016



User specified Dip: 66.73° Field: 52265 nT
Magnetic North is 7.66 degrees West of True North (at 10/18/2016)
Grid North is 0.15 degrees East of True North
To correct azimuth from True to Grid subtract 0.15 degrees
To correct azimuth from Magnetic to Grid subtract 7.81 degrees



Actual Wellpath Report

Walker Unit 3H AWP Proj: 15579'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Doddridge Co., WV	Well	Walker Unit 3H
Field	Doddridge	Wellbore	Walker Unit 3H AWB
Facility	Yvonne Pad		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 5.0
North Reference	Grid	User	Hareluk
Scale	0.999605	Report Generated	10/26/2016 at 4:31:23 PM
Convergence at slot	0.15° East	Database/Source file	WA_MPL_EASTERNUS_Defn/Walker_Unit_3H_AWP_Proj__15579_.xml

WELLPATH LOCATION	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-27.35	-13.28	1705554.92	14288964.29	39°20'55.160"N	80°46'10.510"W
Facility Reference Pt			1705568.20	14288991.63	39°20'55.430"N	80°46'10.340"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.301"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Patterson 343 (RKB) to Facility Vertical Datum	25.00ft
Horizontal Reference Pt	Slot	Patterson 343 (RKB) to Mean Sea Level	1252.00ft
Vertical Reference Pt	Patterson 343 (RKB)	Patterson 343 (RKB) to Mud Line at Slot (Slot #08)	25.00ft
MD Reference Pt	Patterson 343 (RKB)		
Field Vertical Reference	Mean Sea Level		

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Actual Wellpath Report

Walker Unit 3H AWP Proj: 15579'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Doddridge Co., WV	Well	Walker Unit 3H
Field	Doddridge	Wellbore	Walker Unit 3H AWB
Facility	Yvonne Pad		

WELLPATH DATA (181 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
0.00†	0.000	217.780	0.00	0.00	0.00	1705554.92	14288964.29	39°20'55.160"N	80°46'10.510"W	0.00	0.000	0.00	0.00	0.00	
25.00	0.000	217.780	25.00	0.00	0.00	1705554.92	14288964.29	39°20'55.160"N	80°46'10.510"W	0.00	0.000	0.00	0.00	0.00	
112.00	0.210	217.780	112.00	-0.13	-0.10	1705554.82	14288964.16	39°20'55.159"N	80°46'10.511"W	0.16	217.780	0.24	0.24	-163.47	Gyrodata MS Gyro <8-3/4">(112'-6108')
212.00	0.290	155.370	212.00	-0.50	-0.10	1705554.82	14288963.79	39°20'55.155"N	80°46'10.511"W	0.51	191.782	0.27	0.08	-62.41	
312.00	0.380	111.890	312.00	-0.85	0.31	1705555.23	14288963.44	39°20'55.152"N	80°46'10.506"W	0.91	160.139	0.26	0.09	-43.48	
412.00	0.340	107.320	412.00	-1.07	0.90	1705555.82	14288963.22	39°20'55.149"N	80°46'10.499"W	1.40	139.852	0.05	-0.04	-4.57	
512.00	0.110	66.890	511.99	-1.12	1.27	1705556.19	14288963.17	39°20'55.149"N	80°46'10.494"W	1.69	131.311	0.27	-0.23	-40.43	
612.00	0.200	16.950	611.99	-0.91	1.41	1705556.33	14288963.38	39°20'55.151"N	80°46'10.492"W	1.68	122.905	0.15	0.09	-49.94	
712.00	1.560	300.420	711.98	-0.06	0.29	1705555.21	14288964.23	39°20'55.159"N	80°46'10.506"W	0.29	101.095	1.53	1.36	-76.53	
812.00	4.120	293.560	811.85	2.07	-4.18	1705550.74	14288966.36	39°20'55.181"N	80°46'10.563"W	4.66	296.335	2.58	2.56	-6.86	
912.00	6.210	290.370	911.44	5.39	-12.54	1705542.38	14288969.68	39°20'55.214"N	80°46'10.669"W	13.65	293.244	2.11	2.09	-3.19	
1012.00	6.300	289.040	1010.84	9.06	-22.80	1705532.13	14288973.35	39°20'55.250"N	80°46'10.800"W	24.54	291.671	0.17	0.09	-1.33	
1112.00	6.210	282.150	1110.25	11.99	-33.28	1705521.66	14288976.27	39°20'55.279"N	80°46'10.933"W	35.37	289.814	0.76	-0.09	-6.89	
1212.00	4.560	281.590	1209.81	13.93	-42.46	1705512.48	14288978.21	39°20'55.299"N	80°46'11.050"W	44.68	288.159	1.65	-1.65	-0.56	
1312.00	2.850	287.860	1309.59	15.49	-48.72	1705506.22	14288979.77	39°20'55.314"N	80°46'11.130"W	51.12	287.635	1.75	-1.71	6.27	
1412.00	2.380	290.200	1409.49	16.97	-53.03	1705501.91	14288981.25	39°20'55.329"N	80°46'11.184"W	55.68	287.741	0.48	-0.47	2.34	
1512.00	2.400	286.340	1509.40	18.27	-56.99	1705497.95	14288982.56	39°20'55.342"N	80°46'11.235"W	59.85	287.777	0.16	0.02	-3.86	
1612.00	2.560	247.560	1609.31	18.01	-61.06	1705493.88	14288982.29	39°20'55.340"N	80°46'11.287"W	63.67	286.432	1.65	0.16	-38.78	
1712.00	2.380	203.490	1709.23	15.25	-63.96	1705490.99	14288979.54	39°20'55.312"N	80°46'11.324"W	65.75	283.413	1.86	-0.18	-44.07	
1812.00	1.850	195.250	1809.16	11.79	-65.21	1705489.74	14288976.08	39°20'55.278"N	80°46'11.340"W	66.27	280.249	0.61	-0.53	-8.24	
1912.00	0.860	195.480	1909.13	9.51	-65.83	1705489.11	14288973.80	39°20'55.256"N	80°46'11.348"W	66.52	278.220	0.99	-0.99	0.23	
2012.00	0.630	60.740	2009.13	9.06	-65.55	1705489.39	14288973.34	39°20'55.251"N	80°46'11.344"W	66.18	277.865	1.38	-0.23	-134.74	
2112.00	0.990	68.040	2109.12	9.65	-64.27	1705490.67	14288973.93	39°20'55.257"N	80°46'11.328"W	64.99	278.536	0.37	0.36	7.30	
2212.00	1.070	68.150	2209.10	10.32	-62.61	1705492.34	14288974.60	39°20'55.264"N	80°46'11.307"W	63.45	279.359	0.08	0.08	0.11	
2312.00	0.610	330.370	2309.10	11.13	-62.00	1705492.94	14288975.41	39°20'55.272"N	80°46'11.299"W	62.99	280.175	1.30	-0.46	-97.78	
2412.00	0.910	315.360	2409.09	12.16	-62.82	1705492.12	14288976.44	39°20'55.282"N	80°46'11.309"W	63.99	280.951	0.36	0.30	-15.01	
2512.00	0.940	314.300	2509.07	13.29	-63.97	1705490.98	14288977.58	39°20'55.293"N	80°46'11.324"W	65.34	281.740	0.03	0.03	-1.06	
2612.00	1.030	310.340	2609.06	14.45	-65.24	1705489.71	14288978.73	39°20'55.304"N	80°46'11.340"W	66.82	282.487	0.11	0.09	-3.96	
2712.00	1.130	309.160	2709.04	15.65	-66.69	1705488.26	14288979.94	39°20'55.316"N	80°46'11.358"W	68.50	283.209	0.10	0.10	-1.18	
2812.00	1.110	305.290	2809.02	16.84	-68.25	1705486.70	14288981.12	39°20'55.328"N	80°46'11.378"W	70.29	283.857	0.08	-0.02	-3.87	

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Doddridge Co., WV	Well	Walker Unit 3H
Field	Doddridge	Wellbore	Walker Unit 3H AWB
Facility	Yvonne Pad		

WELLPATH DATA (181 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
2912.00	0.500	253.030	2909.01	17.27	-69.45	1705485.49	14288981.55	39°20'55.332"N	80°46'11.393"W	71.57	283.962	0.90	-0.61	-52.26	
3012.00	0.510	252.810	3009.01	17.01	-70.30	1705484.65	14288981.29	39°20'55.330"N	80°46'11.404"W	72.32	283.602	0.01	0.01	-0.22	
3112.00	0.730	60.070	3109.01	17.19	-70.17	1705484.78	14288981.48	39°20'55.332"N	80°46'11.403"W	72.25	283.769	1.23	0.22	167.26	
3212.00	0.810	60.690	3209.00	17.86	-69.00	1705485.95	14288982.14	39°20'55.338"N	80°46'11.388"W	71.27	284.511	0.08	0.08	0.62	
3312.00	0.710	63.170	3308.99	18.48	-67.83	1705487.12	14288982.77	39°20'55.344"N	80°46'11.373"W	70.30	285.243	0.11	-0.10	2.48	
3412.00	0.680	60.220	3408.98	19.06	-66.76	1705488.18	14288983.34	39°20'55.350"N	80°46'11.359"W	69.43	285.932	0.05	-0.03	-2.95	
3512.00	0.660	53.770	3508.97	19.69	-65.78	1705489.16	14288983.98	39°20'55.356"N	80°46'11.347"W	68.67	286.666	0.08	-0.02	-6.45	
3612.00	0.620	48.240	3608.97	20.39	-64.92	1705490.03	14288984.68	39°20'55.363"N	80°46'11.336"W	68.04	287.441	0.07	-0.04	-5.53	
3712.00	0.570	31.610	3708.96	21.18	-64.25	1705490.69	14288985.46	39°20'55.371"N	80°46'11.327"W	67.65	288.243	0.18	-0.05	-16.63	
3812.00	0.550	11.440	3808.96	22.07	-63.90	1705491.05	14288986.35	39°20'55.380"N	80°46'11.323"W	67.60	289.057	0.20	-0.02	-20.17	
3912.00	0.590	355.700	3908.95	23.06	-63.84	1705491.11	14288987.34	39°20'55.389"N	80°46'11.322"W	67.88	289.858	0.16	0.04	-15.74	
4012.00	0.890	267.990	4008.95	23.54	-64.65	1705490.29	14288987.82	39°20'55.394"N	80°46'11.332"W	68.81	290.008	1.05	0.30	-87.71	
4112.00	0.920	266.630	4108.94	23.47	-66.23	1705488.71	14288987.75	39°20'55.394"N	80°46'11.352"W	70.27	289.511	0.04	0.03	-1.36	
4212.00	0.550	278.930	4208.93	23.50	-67.51	1705487.44	14288987.78	39°20'55.394"N	80°46'11.368"W	71.48	289.190	0.40	-0.37	12.30	
4312.00	0.550	296.390	4308.92	23.78	-68.41	1705486.54	14288988.06	39°20'55.397"N	80°46'11.380"W	72.43	289.170	0.17	0.00	17.46	
4412.00	0.590	296.180	4408.92	24.22	-69.30	1705485.64	14288988.50	39°20'55.401"N	80°46'11.391"W	73.41	289.266	0.04	0.04	-0.21	
4512.00	0.580	295.800	4508.91	24.67	-70.22	1705484.73	14288988.95	39°20'55.406"N	80°46'11.403"W	74.43	289.358	0.01	-0.01	-0.38	
4612.00	0.730	202.200	4608.91	24.30	-70.92	1705484.03	14288988.58	39°20'55.402"N	80°46'11.412"W	74.97	288.915	0.96	0.15	-93.60	
4712.00	0.470	176.930	4708.90	23.30	-71.14	1705483.81	14288987.58	39°20'55.392"N	80°46'11.415"W	74.86	288.137	0.36	-0.26	-25.24	
4812.00	0.290	140.100	4808.90	22.70	-70.95	1705484.00	14288986.98	39°20'55.386"N	80°46'11.412"W	74.49	287.740	0.29	-0.18	-36.86	
4912.00	0.380	80.940	4908.90	22.56	-70.46	1705484.49	14288986.84	39°20'55.385"N	80°46'11.406"W	73.98	287.751	0.34	0.09	-59.16	
5012.00	0.680	68.550	5008.89	22.83	-69.58	1705485.37	14288987.11	39°20'55.387"N	80°46'11.395"W	73.23	288.162	0.32	0.30	-12.38	
5112.00	1.260	66.130	5108.88	23.49	-68.02	1705486.92	14288987.77	39°20'55.394"N	80°46'11.375"W	71.97	289.049	0.58	0.58	-2.43	
5212.00	1.200	353.100	5208.86	24.97	-67.14	1705487.80	14288989.25	39°20'55.409"N	80°46'11.364"W	71.64	290.401	1.46	-0.06	-73.03	
5312.00	4.060	283.720	5308.76	26.85	-70.71	1705484.24	14288991.13	39°20'55.427"N	80°46'11.409"W	75.64	290.794	3.81	2.86	-69.38	
5412.00	5.910	264.100	5408.39	27.16	-79.27	1705475.68	14288991.44	39°20'55.430"N	80°46'11.518"W	83.80	288.914	2.49	1.85	-19.62	
5512.00	6.960	262.030	5507.76	25.79	-90.39	1705464.56	14288990.07	39°20'55.417"N	80°46'11.660"W	94.00	285.926	1.08	1.05	-2.07	
5612.00	7.320	262.660	5606.98	24.16	-102.72	1705452.25	14288988.44	39°20'55.401"N	80°46'11.817"W	105.52	283.237	0.37	0.36	0.83	
5712.00	7.640	260.490	5706.13	22.27	-115.59	1705439.37	14288986.55	39°20'55.383"N	80°46'11.981"W	117.72	280.905	0.44	0.32	-2.37	
5812.00	8.030	265.330	5805.20	20.60	-129.11	1705425.86	14288984.89	39°20'55.367"N	80°46'12.153"W	130.74	279.067	0.77	0.39	4.84	

Actual Wellpath Report

Walker Unit 3H AWP Proj: 15579'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Doddridge Co., WV	Well	Walker Unit 3H
Field	Doddridge	Wellbore	Walker Unit 3H AWB
Facility	Yvonne Pad		

WELLPATH DATA (181 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
5912.00	9.190	258.410	5904.07	18.43	-143.90	1705411.08	14288982.71	39°20'55.346"N	80°46'12.341"W	145.07	277.299	1.55	1.16	-6.92	
6012.00	9.640	264.180	6002.73	15.98	-160.05	1705394.94	14288980.26	39°20'55.322"N	80°46'12.547"W	160.84	275.701	1.05	0.45	5.77	
6108.00	7.190	265.120	6097.68	14.65	-174.03	1705380.96	14288978.94	39°20'55.309"N	80°46'12.725"W	174.65	274.812	2.56	-2.55	0.98	
6217.00	5.570	294.970	6206.04	16.30	-185.63	1705369.37	14288980.59	39°20'55.326"N	80°46'12.872"W	186.34	275.020	3.33	-1.49	27.39	BHI AT Curve <8-1/2">(6108')(6217'-15554')
6270.00	5.600	293.680	6258.78	18.43	-190.33	1705364.67	14288982.71	39°20'55.347"N	80°46'12.932"W	191.22	275.531	0.24	0.06	-2.43	
6311.00	4.870	270.010	6299.62	19.23	-193.90	1705361.10	14288983.52	39°20'55.355"N	80°46'12.978"W	194.85	275.665	5.51	-1.78	-57.73	
6358.00	7.240	226.370	6346.37	17.19	-198.04	1705356.96	14288981.47	39°20'55.335"N	80°46'13.030"W	198.79	274.960	10.65	5.04	-92.85	
6405.00	10.080	213.680	6392.84	11.72	-202.47	1705352.53	14288976.01	39°20'55.281"N	80°46'13.087"W	202.81	273.313	7.25	6.04	-27.00	
6452.00	10.800	203.800	6439.06	4.27	-206.53	1705348.48	14288968.56	39°20'55.207"N	80°46'13.139"W	206.57	271.184	4.10	1.53	-21.02	
6500.00	12.700	188.280	6486.07	-5.07	-209.10	1705345.90	14288959.22	39°20'55.115"N	80°46'13.172"W	209.16	268.611	7.65	3.96	-32.33	
6547.00	17.610	177.390	6531.43	-17.30	-209.52	1705345.48	14288947.00	39°20'54.994"N	80°46'13.178"W	210.24	265.281	12.03	10.45	-23.17	
6594.00	22.420	173.200	6575.58	-33.31	-208.14	1705346.87	14288931.00	39°20'54.836"N	80°46'13.160"W	210.79	260.908	10.67	10.23	-8.91	
6641.00	26.790	170.910	6618.30	-52.68	-205.40	1705349.60	14288911.63	39°20'54.645"N	80°46'13.126"W	212.05	255.616	9.51	9.30	-4.87	
6689.00	31.500	168.030	6660.21	-75.64	-201.09	1705353.91	14288888.68	39°20'54.417"N	80°46'13.072"W	214.84	249.386	10.24	9.81	-6.00	
6715.00†	34.155	166.658	6682.06	-89.39	-198.00	1705357.00	14288874.94	39°20'54.281"N	80°46'13.033"W	217.24	245.702	10.61	10.21	-5.28	Middlesex: 6715' MD
6736.00	36.310	165.680	6699.21	-101.15	-195.10	1705359.90	14288863.18	39°20'54.165"N	80°46'12.997"W	219.76	242.595	10.61	10.26	-4.66	
6783.00	40.930	164.840	6735.92	-129.51	-187.62	1705367.37	14288834.83	39°20'53.885"N	80°46'12.902"W	227.98	235.384	9.89	9.83	-1.79	
6830.00	45.910	164.010	6770.05	-160.61	-178.94	1705376.05	14288803.74	39°20'53.577"N	80°46'12.793"W	240.45	228.090	10.66	10.60	-1.77	
6877.00	51.440	162.990	6801.08	-194.44	-168.91	1705386.08	14288769.93	39°20'53.242"N	80°46'12.666"W	257.56	220.981	11.88	11.77	-2.17	
6901.00†	54.078	162.300	6815.60	-212.67	-163.21	1705391.78	14288751.70	39°20'53.062"N	80°46'12.594"W	268.08	217.503	11.23	10.99	-2.88	Burkett: 6901' MD
6924.00	56.610	161.680	6828.68	-230.66	-157.36	1705397.62	14288733.72	39°20'52.884"N	80°46'12.520"W	279.23	214.302	11.23	11.01	-2.69	
6955.00†	59.748	161.042	6845.02	-255.62	-148.94	1705406.04	14288708.77	39°20'52.637"N	80°46'12.414"W	295.84	210.228	10.27	10.12	-2.06	Tully: 6955' MD
6972.00	61.470	160.710	6853.36	-269.61	-144.09	1705410.89	14288694.78	39°20'52.499"N	80°46'12.353"W	305.70	208.121	10.27	10.13	-1.96	
7019.00	66.090	159.220	6874.12	-309.21	-129.64	1705425.34	14288655.20	39°20'52.107"N	80°46'12.170"W	335.28	202.746	10.23	9.83	-3.17	
7046.00†	67.226	158.318	6884.82	-332.37	-120.66	1705434.31	14288632.11	39°20'51.879"N	80°46'12.057"W	353.54	199.955	5.20	4.21	-3.34	Hamilton: 7046' MD
7066.00	68.070	157.660	6892.43	-349.46	-113.72	1705441.24	14288614.96	39°20'51.709"N	80°46'11.969"W	367.50	198.026	5.20	4.22	-3.29	
7073.00†	68.816	157.583	6895.00	-355.46	-111.25	1705443.72	14288608.95	39°20'51.649"N	80°46'11.938"W	372.48	197.377	10.71	10.66	-1.09	Marcellus: 7073' MD
7113.00	73.080	157.160	6908.05	-390.32	-96.70	1705458.26	14288574.07	39°20'51.304"N	80°46'11.754"W	402.17	193.913	10.71	10.66	-1.06	
7160.00	79.200	156.910	6919.31	-432.37	-78.90	1705476.05	14288532.09	39°20'50.889"N	80°46'11.528"W	439.51	190.342	13.03	13.02	-0.53	
7207.00	85.230	157.710	6925.67	-475.31	-60.95	1705493.99	14288489.17	39°20'50.464"N	80°46'11.301"W	479.20	187.307	12.94	12.83	1.70	

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Doddridge Co., WV	Well	Walker Unit 3H
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Facility	Yvonne Pad		

WELLPATH DATA (181 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
7254.00	85.010	157.920	6929.67	-518.67	-43.27	1705511.67	14288445.82	39°20'50.035"N	80°46'11.078"W	520.48	184.769	0.65	-0.47	0.45	
7301.00	86.860	158.390	6933.00	-562.19	-25.83	1705529.10	14288402.33	39°20'49.604"N	80°46'10.857"W	562.78	182.630	4.06	3.94	1.00	
7348.00	89.290	159.390	6934.58	-606.01	-8.91	1705546.01	14288358.53	39°20'49.171"N	80°46'10.643"W	606.07	180.842	5.59	5.17	2.13	
7442.00	89.320	158.780	6935.72	-693.80	24.64	1705579.55	14288270.76	39°20'48.302"N	80°46'10.219"W	694.24	177.966	0.65	0.03	-0.65	
7536.00	89.480	160.360	6936.70	-781.88	57.45	1705612.35	14288182.72	39°20'47.431"N	80°46'09.804"W	783.99	175.797	1.69	0.17	1.68	
7630.00	90.030	160.780	6937.11	-870.53	88.72	1705643.61	14288094.11	39°20'46.554"N	80°46'09.409"W	875.04	174.181	0.74	0.59	0.45	
7725.00	89.660	159.650	6937.36	-959.92	120.88	1705675.75	14288004.75	39°20'45.669"N	80°46'09.002"W	967.50	172.823	1.25	-0.39	-1.19	
7819.00	89.780	163.020	6937.82	-1048.96	150.96	1705705.82	14287915.74	39°20'44.789"N	80°46'08.623"W	1059.77	171.811	3.59	0.13	3.59	
7913.00	89.910	166.450	6938.08	-1139.63	175.70	1705730.55	14287825.11	39°20'43.892"N	80°46'08.310"W	1153.10	171.235	3.65	0.14	3.65	
8008.00	89.600	161.390	6938.48	-1230.88	202.01	1705756.85	14287733.89	39°20'42.989"N	80°46'07.979"W	1247.35	170.680	5.34	-0.33	-5.33	
8102.00	89.600	154.560	6939.14	-1317.97	237.24	1705792.06	14287646.84	39°20'42.128"N	80°46'07.533"W	1339.15	169.796	7.27	0.00	-7.27	
8195.00	89.510	147.770	6939.86	-1399.39	282.06	1705836.87	14287565.46	39°20'41.322"N	80°46'06.965"W	1427.53	168.604	7.30	-0.10	-7.30	
8290.00	89.510	149.540	6940.68	-1480.52	331.47	1705886.26	14287484.36	39°20'40.519"N	80°46'06.339"W	1517.17	167.380	1.86	0.00	1.86	
8384.00	89.540	149.070	6941.46	-1561.35	379.46	1705934.23	14287403.56	39°20'39.719"N	80°46'05.731"W	1606.79	166.340	0.50	0.03	-0.50	
8479.00	89.260	150.440	6942.45	-1643.41	427.30	1705982.05	14287321.54	39°20'38.906"N	80°46'05.124"W	1698.05	165.425	1.47	-0.29	1.44	
8573.00	88.250	153.720	6944.49	-1726.43	471.30	1706026.04	14287238.54	39°20'38.085"N	80°46'04.567"W	1789.61	164.731	3.65	-1.07	3.49	
8668.00	89.600	164.730	6946.28	-1815.10	504.94	1706059.66	14287149.91	39°20'37.207"N	80°46'04.142"W	1884.03	164.454	11.67	1.42	11.59	
8762.00	89.570	164.000	6946.96	-1905.62	530.27	1706084.98	14287059.42	39°20'36.312"N	80°46'03.822"W	1978.03	164.450	0.78	-0.03	-0.78	
8857.00	89.480	161.070	6947.75	-1996.23	558.78	1706113.48	14286968.85	39°20'35.416"N	80°46'03.462"W	2072.96	164.362	3.09	-0.09	-3.08	
8951.00	89.630	155.630	6948.48	-2083.56	593.44	1706148.13	14286881.55	39°20'34.552"N	80°46'03.024"W	2166.43	164.102	5.79	0.16	-5.79	
9045.00	89.750	158.460	6948.99	-2170.11	630.10	1706184.77	14286795.04	39°20'33.696"N	80°46'02.560"W	2259.73	163.809	3.01	0.13	3.01	
9140.00	90.580	157.140	6948.72	-2258.06	665.99	1706220.65	14286707.12	39°20'32.825"N	80°46'02.106"W	2354.23	163.567	1.64	0.87	-1.39	
9234.00	89.450	157.360	6948.69	-2344.75	702.35	1706256.99	14286620.47	39°20'31.968"N	80°46'01.647"W	2447.68	163.325	1.22	-1.20	0.23	
9328.00	89.480	156.060	6949.57	-2431.08	738.51	1706294.14	14286534.17	39°20'31.113"N	80°46'01.176"W	2541.07	163.081	1.38	0.03	-1.38	
9423.00	88.800	155.890	6950.99	-2517.84	775.18	1706332.79	14286447.45	39°20'30.255"N	80°46'00.687"W	2635.36	162.825	0.74	-0.72	-0.18	
9517.00	88.950	157.080	6952.84	-2604.02	812.68	1706370.28	14286361.30	39°20'29.402"N	80°46'00.213"W	2728.78	162.607	1.28	0.16	1.27	
9612.00	89.080	162.850	6954.47	-2693.22	848.21	1706402.79	14286272.14	39°20'28.520"N	80°45'59.802"W	2823.63	162.519	6.07	0.14	6.07	
9706.00	89.050	168.740	6956.01	-2784.29	871.26	1706425.83	14286181.10	39°20'27.619"N	80°45'59.511"W	2917.43	162.624	6.27	-0.03	6.27	
9800.00	89.110	164.700	6957.52	-2875.75	892.85	1706447.41	14286089.68	39°20'26.715"N	80°45'59.239"W	3011.16	162.752	4.30	0.06	-4.30	
9895.00	89.450	157.670	6958.71	-2965.61	923.46	1706478.02	14285999.86	39°20'25.826"N	80°45'58.853"W	3106.06	162.704	7.41	0.36	-7.40	

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Doddridge Co., WV	Well	Walker Unit 3H
Field	Doddridge	Wellbore	Walker Unit 3H AWB
Facility	Yvonne Pad		

WELLPATH DATA (181 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
9989.00	88.950	156.310	6960.03	-3052.12	960.20	1706514.74	14285913.38	39°20'24.970"N	80°45'58.388"W	3199.60	162.536	1.54	-0.53	-1.45	
10083.00	89.080	156.510	6961.64	-3138.25	997.81	1706552.34	14285827.29	39°20'24.117"N	80°45'57.912"W	3293.06	162.362	0.25	0.14	0.21	
10178.00	89.020	157.340	6963.22	-3225.64	1035.04	1706589.55	14285739.93	39°20'23.253"N	80°45'57.441"W	3387.63	162.210	0.88	-0.06	0.87	
10272.00	89.350	157.170	6964.56	-3312.32	1071.38	1706625.88	14285653.29	39°20'22.395"N	80°45'56.981"W	3481.28	162.076	0.39	0.35	-0.18	
10366.00	89.350	156.900	6965.62	-3398.86	1108.06	1706662.54	14285566.78	39°20'21.539"N	80°45'56.517"W	3574.92	161.944	0.29	0.00	-0.29	
10460.00	89.350	157.230	6966.69	-3485.43	1144.68	1706699.15	14285480.25	39°20'20.682"N	80°45'56.054"W	3668.58	161.819	0.35	0.00	0.35	
10555.00	89.350	157.100	6967.77	-3572.97	1181.55	1706736.00	14285392.73	39°20'19.816"N	80°45'55.588"W	3763.27	161.701	0.14	0.00	-0.14	
10649.00	89.480	154.610	6968.73	-3658.74	1219.99	1706774.43	14285307.00	39°20'18.967"N	80°45'55.101"W	3856.78	161.559	2.65	0.14	-2.65	
10743.00	88.860	153.340	6970.09	-3743.20	1261.23	1706815.65	14285222.58	39°20'18.132"N	80°45'54.579"W	3949.97	161.379	1.50	-0.66	-1.35	
10838.00	89.290	157.130	6971.62	-3829.43	1301.02	1706855.42	14285136.38	39°20'17.278"N	80°45'54.076"W	4044.40	161.235	4.01	0.45	3.99	
10932.00	89.290	154.340	6972.79	-3915.11	1339.64	1706894.03	14285050.73	39°20'16.430"N	80°45'53.587"W	4137.96	161.111	2.97	0.00	-2.97	
11026.00	89.450	160.320	6973.82	-4001.81	1375.85	1706930.22	14284964.07	39°20'15.573"N	80°45'53.129"W	4231.72	161.027	6.36	0.17	6.36	
11120.00	89.230	167.370	6974.91	-4092.03	1401.99	1706956.35	14284873.88	39°20'14.680"N	80°45'52.799"W	4325.54	161.088	7.50	-0.23	7.50	
11215.00	89.420	158.590	6976.03	-4182.78	1429.76	1706984.12	14284783.18	39°20'13.783"N	80°45'52.449"W	4420.39	161.128	9.24	0.20	-9.24	
11309.00	89.350	157.390	6977.04	-4269.92	1464.99	1707019.33	14284696.07	39°20'12.921"N	80°45'52.004"W	4514.24	161.063	1.28	-0.07	-1.28	
11403.00	89.450	157.780	6978.02	-4356.81	1500.83	1707055.16	14284609.21	39°20'12.061"N	80°45'51.550"W	4608.07	160.992	0.43	0.11	0.41	
11498.00	89.320	156.780	6979.04	-4444.43	1537.52	1707091.83	14284521.62	39°20'11.194"N	80°45'51.086"W	4702.87	160.917	1.06	-0.14	-1.05	
11592.00	88.830	157.160	6980.56	-4530.93	1574.29	1707128.58	14284435.16	39°20'10.338"N	80°45'50.621"W	4796.64	160.840	0.66	-0.52	0.40	
11686.00	89.230	156.330	6982.15	-4617.28	1611.40	1707165.68	14284348.84	39°20'09.484"N	80°45'50.152"W	4890.39	160.761	0.98	0.43	-0.88	
11780.00	89.420	159.050	6983.26	-4704.23	1647.08	1707201.34	14284261.93	39°20'08.623"N	80°45'49.701"W	4984.24	160.703	2.90	0.20	2.89	
11875.00	89.420	161.710	6984.22	-4793.70	1678.97	1707233.22	14284172.49	39°20'07.738"N	80°45'49.298"W	5079.22	160.697	2.80	0.00	2.80	
11969.00	89.450	158.720	6985.15	-4882.14	1710.78	1707265.02	14284084.09	39°20'06.863"N	80°45'48.896"W	5173.20	160.689	3.18	0.03	-3.18	
12064.00	89.510	154.020	6986.01	-4969.14	1748.85	1707303.07	14283997.12	39°20'06.002"N	80°45'48.414"W	5267.91	160.611	4.95	0.06	-4.95	
12158.00	89.480	160.490	6986.84	-5055.78	1785.17	1707339.38	14283910.51	39°20'05.145"N	80°45'47.955"W	5361.70	160.552	6.88	-0.03	6.88	
12252.00	89.510	158.560	6987.67	-5143.84	1818.05	1707372.25	14283822.49	39°20'04.274"N	80°45'47.539"W	5455.67	160.534	2.05	0.03	-2.05	
12347.00	89.420	164.370	6988.55	-5233.87	1848.23	1707402.42	14283732.50	39°20'03.383"N	80°45'47.158"W	5550.62	160.550	6.12	-0.09	6.12	
12441.00	89.570	165.610	6989.38	-5324.66	1872.58	1707426.75	14283641.75	39°20'02.485"N	80°45'46.851"W	5644.33	160.624	1.33	0.16	1.32	
12535.00	90.400	161.120	6989.41	-5414.70	1899.48	1707453.65	14283551.74	39°20'01.595"N	80°45'46.512"W	5738.20	160.669	4.86	0.88	-4.78	
12630.00	89.570	160.280	6989.43	-5504.36	1930.88	1707485.03	14283462.12	39°20'00.708"N	80°45'46.115"W	5833.20	160.670	1.24	-0.87	-0.88	
12724.00	90.680	153.510	6989.23	-5590.77	1967.74	1707521.88	14283375.74	39°19'59.853"N	80°45'45.649"W	5926.95	160.610	7.30	1.18	-7.20	

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Doddridge Co., WV	Well	Walker Unit 3H
Field	Doddridge	Wellbore	Walker Unit 3H AWB
Facility	Yvonne Pad		

WELLPATH DATA (181 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
12819.00	89.350	152.730	6989.20	-5675.50	2010.69	1707564.82	14283291.04	39°19'59.014"N	80°45'45.105"W	6021.14	160.492	1.62	-1.40	-0.82	
12913.00	88.800	156.280	6990.72	-5760.32	2051.14	1707605.25	14283206.26	39°19'58.175"N	80°45'44.593"W	6114.61	160.400	3.82	-0.59	3.78	
13007.00	88.740	157.940	6992.74	-5846.90	2087.70	1707641.79	14283119.72	39°19'57.318"N	80°45'44.131"W	6208.43	160.350	1.77	-0.06	1.77	
13102.00	88.800	157.980	6994.78	-5934.93	2123.34	1707677.41	14283031.71	39°19'56.447"N	80°45'43.681"W	6303.33	160.314	0.08	0.06	0.04	
13196.00	88.740	159.100	6996.79	-6022.39	2157.72	1707711.78	14282944.29	39°19'55.582"N	80°45'43.246"W	6397.26	160.288	1.19	-0.06	1.19	
13291.00	88.740	158.820	6998.88	-6111.04	2191.82	1707745.87	14282855.68	39°19'54.705"N	80°45'42.815"W	6492.22	160.269	0.29	0.00	-0.29	
13385.00	88.920	166.070	7000.81	-6200.58	2220.14	1707774.18	14282766.17	39°19'53.819"N	80°45'42.457"W	6586.07	160.300	7.71	0.19	7.71	
13480.00	88.770	160.220	7002.72	-6291.44	2247.67	1707801.70	14282675.34	39°19'52.920"N	80°45'42.110"W	6680.89	160.340	6.16	-0.16	-6.16	
13574.00	88.800	157.610	7004.72	-6379.12	2281.48	1707835.49	14282587.70	39°19'52.053"N	80°45'41.683"W	6774.83	160.321	2.78	0.03	-2.78	
13669.00	88.680	157.680	7006.80	-6466.96	2317.60	1707871.60	14282499.90	39°19'51.184"N	80°45'41.226"W	6869.71	160.284	0.15	-0.13	0.07	
13763.00	88.710	153.550	7008.95	-6552.54	2356.39	1707910.38	14282414.36	39°19'50.337"N	80°45'40.735"W	6963.36	160.221	4.39	0.03	-4.39	
13858.00	88.740	155.300	7011.06	-6638.20	2397.39	1707951.36	14282328.72	39°19'49.489"N	80°45'40.216"W	7057.85	160.143	1.84	0.03	1.84	
13952.00	88.740	158.120	7013.13	-6724.51	2434.55	1707988.50	14282242.45	39°19'48.635"N	80°45'39.747"W	7151.65	160.098	3.00	0.00	3.00	
14046.00	88.800	157.080	7015.15	-6811.40	2470.36	1708024.30	14282155.59	39°19'47.775"N	80°45'39.294"W	7245.54	160.065	1.11	0.06	-1.11	
14141.00	88.740	157.070	7017.18	-6898.88	2507.35	1708061.28	14282068.15	39°19'46.910"N	80°45'38.826"W	7340.39	160.027	0.06	-0.06	-0.01	
14235.00	89.320	161.080	7018.78	-6986.65	2540.91	1708094.82	14281980.42	39°19'46.041"N	80°45'38.402"W	7434.34	160.015	4.31	0.62	4.27	
14329.00	89.380	155.250	7019.84	-7073.86	2575.86	1708129.76	14281893.24	39°19'45.179"N	80°45'37.960"W	7528.25	159.992	6.20	0.06	-6.20	
14424.00	89.380	154.180	7020.87	-7159.75	2616.43	1708170.31	14281807.38	39°19'44.329"N	80°45'37.447"W	7622.84	159.926	1.13	0.00	-1.13	
14518.00	89.380	154.400	7021.89	-7244.44	2657.21	1708211.07	14281722.73	39°19'43.491"N	80°45'36.931"W	7716.39	159.857	0.23	0.00	0.23	
14612.00	89.350	154.340	7022.93	-7329.19	2697.87	1708251.71	14281638.01	39°19'42.652"N	80°45'36.416"W	7809.96	159.791	0.07	-0.03	-0.06	
14706.00	89.260	153.300	7024.07	-7413.54	2739.33	1708293.17	14281553.70	39°19'41.817"N	80°45'35.891"W	7903.45	159.721	1.11	-0.10	-1.11	
14801.00	89.480	156.250	7025.12	-7499.46	2779.81	1708333.65	14281467.81	39°19'40.967"N	80°45'35.379"W	7998.08	159.662	3.11	0.23	3.11	
14898.00	89.260	163.120	7026.18	-7590.37	2813.47	1708367.27	14281376.94	39°19'40.067"N	80°45'34.954"W	8095.02	159.662	7.09	-0.23	7.08	
14990.00	89.420	160.630	7027.24	-7677.79	2842.09	1708395.88	14281289.55	39°19'39.203"N	80°45'34.593"W	8186.94	159.687	2.71	0.17	-2.71	
15085.00	89.230	164.970	7028.36	-7768.51	2870.17	1708423.95	14281198.86	39°19'38.305"N	80°45'34.238"W	8281.77	159.723	4.57	-0.20	4.57	
15180.00	89.380	164.830	7029.52	-7860.23	2894.91	1708448.69	14281107.18	39°19'37.398"N	80°45'33.926"W	8376.38	159.781	0.22	0.16	-0.15	
15274.00	89.480	164.840	7030.45	-7950.95	2919.50	1708473.26	14281016.50	39°19'36.501"N	80°45'33.617"W	8470.01	159.837	0.11	0.11	0.01	
15368.00	89.320	158.420	7031.44	-8040.11	2949.11	1708502.86	14280927.38	39°19'35.619"N	80°45'33.243"W	8563.91	159.857	6.83	-0.17	-6.83	
15462.00	89.940	154.050	7032.04	-8126.11	2986.98	1708540.72	14280841.40	39°19'34.768"N	80°45'32.764"W	8657.70	159.818	4.70	0.66	-4.65	
15554.00	89.910	152.440	7032.16	-8208.26	3028.40	1708582.11	14280759.29	39°19'33.955"N	80°45'32.240"W	8749.10	159.749	1.75	-0.03	-1.75	

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Doddridge Co., WV	Well	Walker Unit 3H
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Facility	Yvonne Pad		

WELLPATH DATA (181 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
15579.00	89.910	152.440	7032.20	-8230.42	3039.96	1708593.68	14280737.13	39°19'33.735"N	80°45'32.093"W	8773.90	159.728	0.00	0.00	0.00	Projected MD at TD: 15579' MD

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Walker Unit 3H POE Rev-1	6893.00	-325.38	-117.74	1705437.22	14288639.04	39°20'51.947"N	80°46'12.019"W	point
Walker Unit 3H BHL Rev-1	6933.00	-8182.44	3025.16	1708578.88	14280785.10	39°19'34.210"N	80°45'32.280"W	point
Walker Unit 3H LP Rev-1	6933.00	-503.00	-46.69	1705508.24	14288461.49	39°20'50.190"N	80°46'11.121"W	point

WELLPATH COMPOSITION - Ref Wellbore: Walker Unit 3H AWB Ref Wellpath: Walker Unit 3H AWP Proj: 15579'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	6108.00	Gyrodata standard - Drop gyro or Multi-shot	01_Gyrodata MS Gyro <8-3/4">(100'-6096')	Walker Unit 3H AWB
6108.00	15554.00	BHI AutoTrak Curve (Short)	02_BHI AT Curve <8-1/2">(6108')(6217'-15554')	Walker Unit 3H AWB
15554.00	15579.00	Blind Drilling (std)	Projection to bit	Walker Unit 3H AWB

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Actual Wellpath Report

Walker Unit 3H AWP Proj: 15579'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Doddridge Co., WV	Well	Walker Unit 3H
Field	Doddridge	Wellbore	Walker Unit 3H AWB
Facility	Yvonne Pad		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
112.00	0.210	217.780	112.00	Gyrodata MS Gyro <8-3/4">(112'-6108')
6217.00	5.570	294.970	6206.04	BHI AT Curve <8-1/2">(6108')(6217'-15554')
6715.00	34.155	166.658	6682.06	Middlesex: 6715' MD
6901.00	54.078	162.300	6815.60	Burkett: 6901' MD
6955.00	59.748	161.042	6845.02	Tully: 6955' MD
7046.00	67.226	158.318	6884.82	Hamilton: 7046' MD
7073.00	68.816	157.583	6895.00	Marcellus: 7073' MD
15579.00	89.910	152.440	7032.20	Projected MD at TD: 15579' MD

COMMENTS

Wellpath general comments
API: 47-017-06698-00-00
BHI Job #: 8211288
Rig: Patterson 343
Duration: 10.19.2016 - 10.22.2016
Gyrodata MS Gyro <8-3/4">(112'-6108')
BHI AT Curve <8-1/2">(6108')(6217'-15554')
Middlesex: 6715' MD
Burkett: 6901' MD
Tully: 6955' MD
Hamilton: 7046' MD
Marcellus: 7073' MD
Projected MD at TD: 15579' MD

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	11/21/2017
Job End Date:	1/30/2018
State:	West Virginia
County:	Doddridge
API Number:	47-017-06698-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Walker 3H
Latitude:	39.34865600
Longitude:	-80.76958600
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,032
Total Base Water Volume (gal):	18,867,705
Total Base Non Water Volume:	0

FracFocus Chemical Disclosure Registry

GROUNDWATER PROTECTION COUNCIL

Interstate Oil & Gas Compact Commission

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	87.77834	
Sand	U.S. Well Services, LLC	Proppant					
			Crystalline Silica, quartz	14808-60-7	100.00000	11.98528	
HCL Acid (12.6%-17.5%)	U.S. Well Services, LLC	Bulk Acid					
			Water	7732-18-5	87.40000	0.09952	
			Hydrogen Chloride	7647-01-0	17.50000	0.02314	
LGC-15	U.S. Well Services, LLC	Gelling Agents					
			Guar Gum	9000-30-0	50.00000	0.03160	
			Petroleum Distillates	64742-47-8	60.00000	0.02993	
			Suspending agent (solid)	14808-60-7	3.00000	0.00483	
			Surfactant	68439-51-0	3.00000	0.00190	
WFRA-405	U.S. Well Services, LLC	Friction Reducer					
			2-Propenoic acid, polymer with 2-propenamide	9003-06-9	30.00000	0.01568	
			Hydrated light distillate (petroleum)	64742-47-8	30.00000	0.01263	

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SI-1200	U.S. Well Services, LLC	Scale Inhibitor					
			Ethylene Glycol	107-21-1	40.00000	0.00741	
			Proprietary Scale Inhibitor	Proprietary	10.00000	0.00198	
Bioclear 2000	U.S. Well Services, LLC	Anti-Bacterial Agent					
			2,2-dibromo-3-nitrilopropionamide	10222-01-2	20.00000	0.00428	
			Deionized Water	7732-18-5	28.00000	0.00245	
AP One	U.S. Well Services, LLC	Gel Breakers					
			Ammonium Persulfate	7727-54-0	100.00000	0.00094	
AI-303	U.S. Well Services, LLC	Acid Corrosion Inhibitors					
			Ethylene glycol	107-21-1	40.00000	0.00004	
			Formic acid	64-18-6	20.00000	0.00001	
			Cinnamaldehyde	104-55-2	20.00000	0.00001	
			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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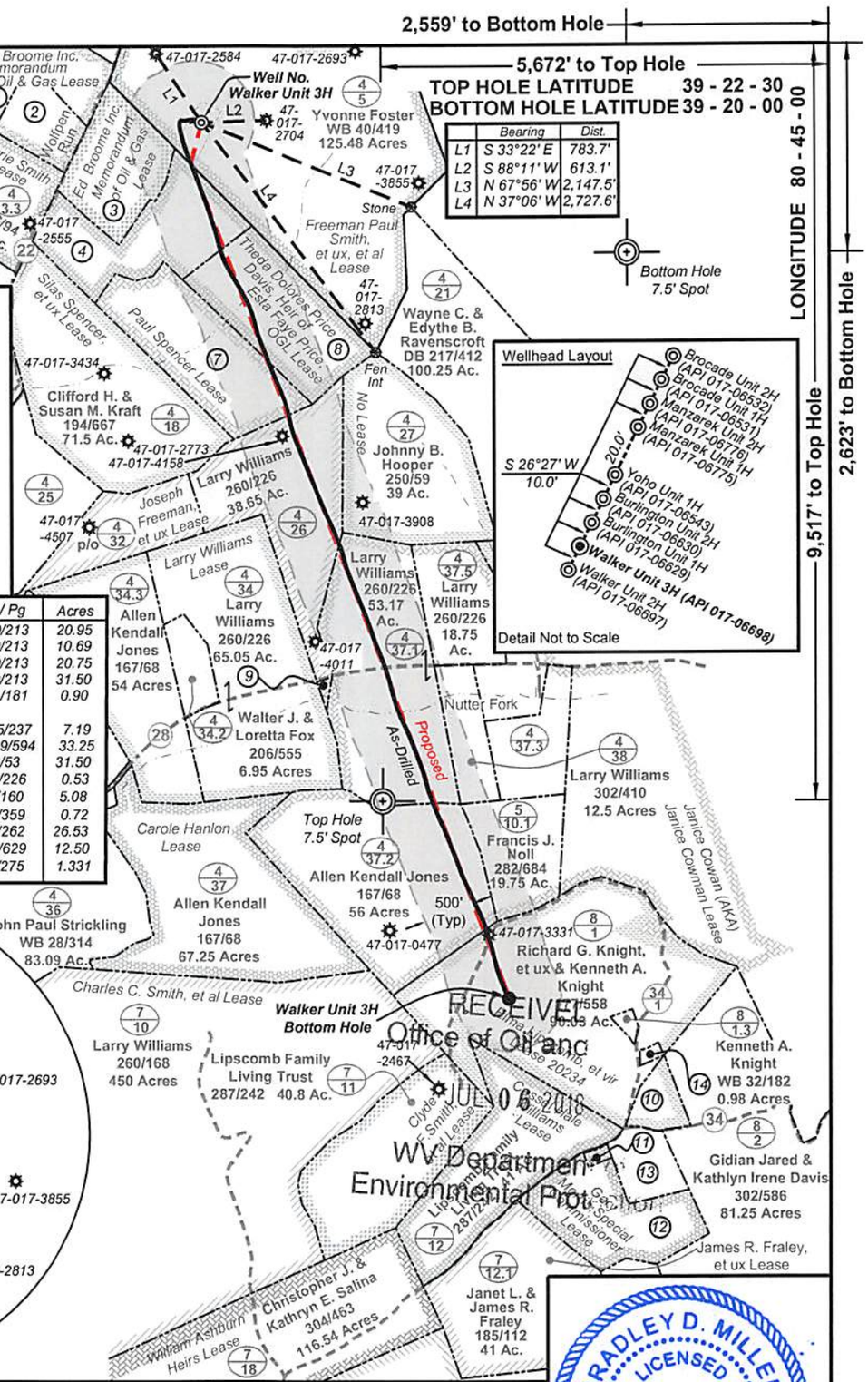
Antero Resources
Well No. Walker Unit 3H As-Drilled Plat
Antero Resources Corporation

Legend
- Proposed gas well
- Found corner, as noted
- Existing Well, as noted
- Creek or Drain
- Existing Road
- Surface boundary (approx.)
- Interior surface tracts (approx.)

Notes:
West Virginia Coordinate System of 1927, North Zone
based upon Differential GPS Measurements.
Well No. Walker Unit 3H Top Hole coordinates are
N: 311,633.95' Latitude: 39°20'55.16"
E: 1,640,972.20' Longitude: 80°46'10.51"
Bottom Hole coordinates are
N: 303,353.96' Latitude: 39°19'33.73"
E: 1,643,874.44' Longitude: 80°45'32.09"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,355,502.805m N: 4,352,995.058m
E: 519,868.570m E: 520,794.819m
Plat orientation and corner and well references are based upon the grid north meridian.
Well location references are based upon the magnetic meridian.

ID	TM/Par	Owner	Bk / Pg	Acres
1	2/16	David & Lucy Mae Sparling	219/213	20.95
2	4/4.2	David & Lucy Mae Sparling	219/213	10.69
3	4/4	David & Lucy Mae Sparling	219/213	20.75
4	4/4.1	David & Lucy Mae Sparling	219/213	31.50
5	4/2	Scott Adams, Gregory Adams, David Adams, & Jennifer Adams McFall	282/181	0.90
6	4/11	Gary Lynn McMillan	195/237	7.19
7	4/19	Naomi Beagle, et al	AP 19/594	33.25
8	4/20	Stella E. Spencer, et al	103/53	31.50
9	4/34.1	Larry Williams	260/226	0.53
10	8/1.1	Benjamin & Myrna Adams	169/160	5.08
11	8/15.1	Scotti B. & Melissa L. Chumley	261/359	0.72
12	8/15	Robert Glenn & Shelly A. Fraley	239/262	26.53
13	8/7	Steven & Lu Ann McCloy	303/629	12.50
14	8/1.2	Richard Gregory Knight, et ux	179/275	1.331



	Bearing	Dist.
L1	S 33°22' E	783.7'
L2	S 88°11' W	613.1'
L3	N 67°56' W	2,147.5'
L4	N 37°06' W	2,727.6'

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ALLEGHENY SURVEYS, INC.

Top Hole Coordinates and As-drilled data and information was provided by Antero Resources Corporation. Allegheny Surveys Inc. (ASI) is not certifying the data and information provided. ASI is not responsible for any errors or inaccuracies with the data and information that has been provided.

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 prescribed by the Department of Environmental Protection.

Bradley D. Miller, P.S. 2167

BRADLEY D. MILLER LICENSED No. 2167 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

SEAL

FILE NO: 39-30-WU-14
DRAWING NO: 39-14 Walker 3H Well Plat
SCALE: 1" = 1500'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: May 10 20 18
OPERATOR'S WELL NO. Walker Unit 3H
API WELL NO
47 - 017 - 06698
STATE COUNTY PERMIT

WELL TYPE: ☐ OIL ☒ GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL
(IF GAS) PRODUCTION : ☐ STORAGE ☐ DEEP ☒ SHALLOW
LOCATION: ELEVATION: 1229' As-Drilled WATERSHED: Headwaters Middle Island Creek QUADRANGLE: West Union
DISTRICT: West Union COUNTY: Doddridge
SURFACE OWNER: Yvonne Foster ACREAGE: 125.48
ROYALTY OWNER: Theda Dolores Price Davis, Heir of Esta Faye Price, OGL; Freeman Paul Smith, et ux, et al; Paul Spencer; Elma Lipscomb, et vir; Joseph Freeman, et ux; Janice Cowan (AKA) Janice Cowman; LEASE NO: 20234 ACREAGE: 33.25; 60; 125; 63.087; 96; 428.58;
PROPOSED WORK: ☐ DRILL ☐ CONVERT ☐ DRILL DEEPER ☐ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION
☐ PERFORATE NEW FORMATION ☒ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,030' TVD 15,579' MD

WELL OPERATOR: Antero Resources Corporation
ADDRESS: 1615 Wynkoop
Denver, CO 80202
DESIGNATED AGENT: Dianna Stamper - CT Corporation System
ADDRESS: 5400 D Big Tyler Road
Charleston, WV 25313

Antero Resources
Well No. Walker Unit 3H As-Drilled Plat
Antero Resources Corporation

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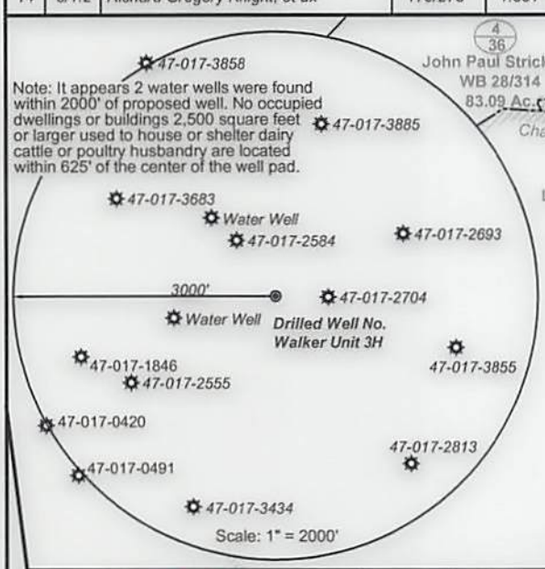

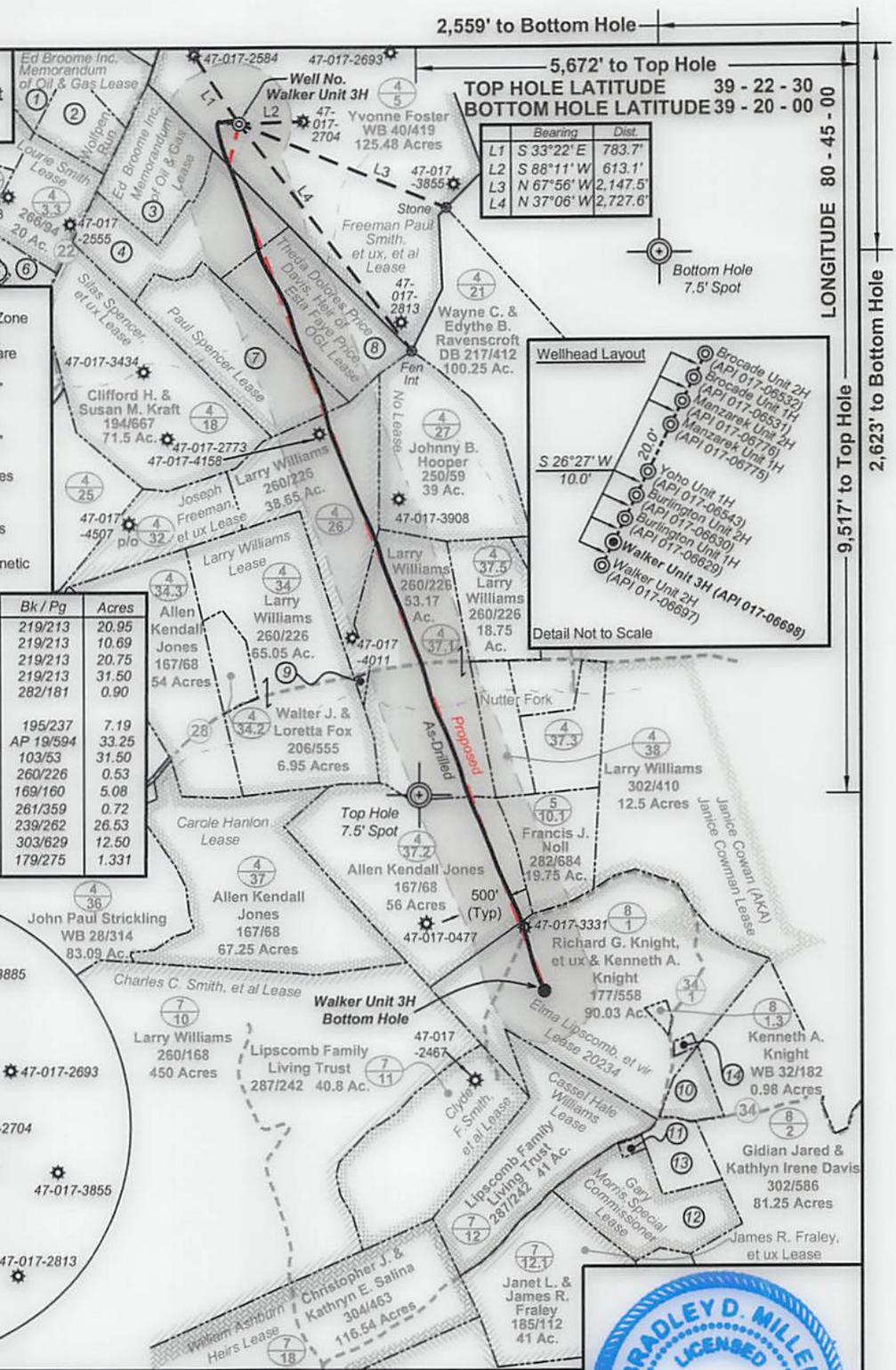

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