



ANTERO RESOURCES CORPORATION

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

Slot: Slot #08

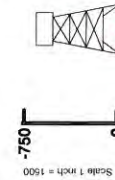
Well: Taurus Unit 1H

Wellbore: Taurus Unit 1H PWB



Plot reference wellpath is Taurus Unit 1H PWB Rev-A.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to Frontier 22 (RKB)	North Reference: Grid north
Measured depths are referenced to Frontier 22 (RKB)	Scale: True distance
Frontier 22 (RKB) to Mean Sea Level: 1089.5 feet	Depths are in feet
Mean Sea Level to Ground level (At Slot: Slot #08): -1065 feet	Created by: mcorrenb on 2018-05-23
Coordinates are in feet referenced to Slot	Database: WA_WPL_EASTERNUS_Defn

Slot	Well	Wellbore	Wellpath
Slot #08	Taurus Unit 1H	Taurus Unit 1H AWB	Taurus Unit 1H AWP Proj: 16997
Slot #08	Taurus Unit 1H	Taurus Unit 1H PWB	Taurus Unit 1H PWB Rev-A.0

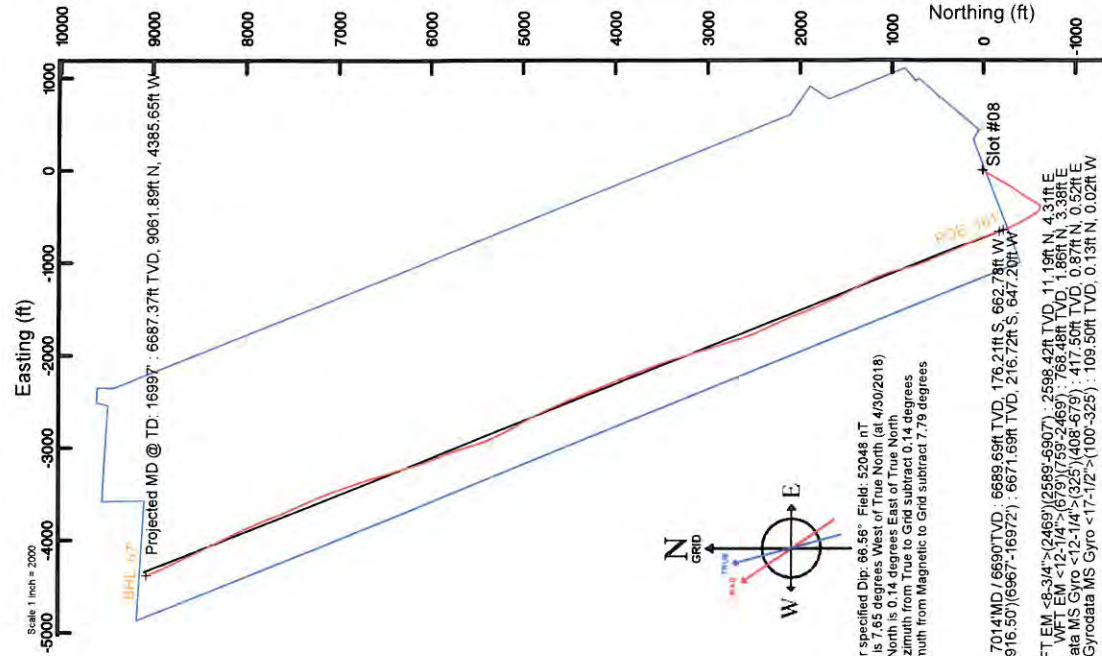


- Gyrodata MS Gyro <17-1/2> (100-325) : 0.18° Inc, 109.50ft MD, 109.50ft TVD, 0.13ft VS
- Gyrodata MS Gyro <12-1/4> (325)(408-679) : 0.43° Inc, 417.50ft MD, 417.50ft TVD, 0.62ft VS
- WFT EM <12-1/4> (679)(759-2469) : 0.78° Inc, 768.50ft MD, 768.48ft TVD, 0.48ft VS
- WFT EM <8-3/4> (2469)(2598-6907) : 0.67° Inc, 2598.50ft MD, 2598.42ft TVD, 8.79ft VS

Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (ft/100ft)	VS (ft)
Tie On	6916.50	61.420	338.150	6649.00	-258.73	-630.77	8.23	-6.69
Proj. To Bottom	7015.50	70.120	338.490	6689.59	-174.91	-664.08	8.79	83.50
Landing Pt.	7239.14	90.000	338.490	6728.00	29.01	-744.45	8.89	302.69
End of 3D Arc	7404.85	90.000	341.805	6728.00	184.84	-800.71	2.00	468.28
On Azimuth	7582.46	90.000	338.255	6728.00	351.75	-861.37	2.00	645.78
BHL	16978.96	90.000	338.255	6728.00	9079.64	-4342.48	0.00	10042.28

Location Information			
Facility Name	Grid East (US ft)	Grid North (US ft)	Longitude
Strickling Pad	1701583.170	14282960.060	80°47'01.270"W
Slot	Local N (ft)	Local E (ft)	Local N (ft)
Slot #08	-3.08	-19.63	39°19'55.890"N
Comment	Taurus Unit 1H	1701563.544	39°19'55.860"N
Frontier 22 (RKB) to Ground level (At Slot: Slot #08)			24.5ft
Mean Sea Level to Ground level (At Slot: Slot #08)			-1065ft
Frontier 22 (RKB) to Mean Sea Level			1089.5ft

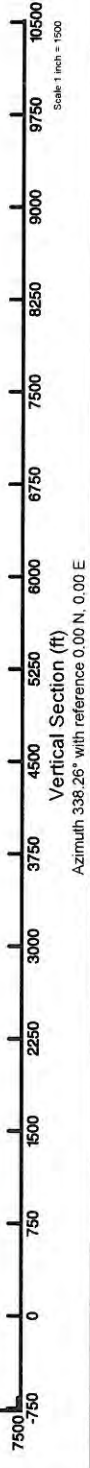
API: 47-017-06840-0000
 BH Job #: 9141304
 Rig: Frontier 22
 Duration: 05/01/18 - 05/04/18



User specified Dip: 88.56° Field: 52048 nT
 Magnetic North is 7.65 degrees West of True North (at 4/30/2018)
 Grid North is 0.14 degrees East of True North
 To correct azimuth from True to Grid subtract 0.14 degrees
 To correct azimuth from Magnetic to Grid subtract 7.79 degrees

BH AT Curve <8-1/2> (6916.50)(6967-16972) : 65.16° Inc, 6967.00ft MD, 6571.69ft TVD, 38.41ft VS
 POE Marcellus: 7014MD / 6690TVD : 69.79° Inc, 7014.00ft MD, 6689.69ft TVD, 81.81ft VS
 BH AT Curve <8-1/2> (6916.50)(6967-16972) : 65.16° Inc, 6967.00ft MD, 6571.69ft TVD, 38.41ft VS
 WFT EM <8-3/4> (2469)(2598-6907) : 2598.42ft TVD, 11.19ft N, 4.31ft E
 WFT EM <12-1/4> (679)(759-2469) : 768.48ft TVD, 1.86ft N, 3.38ft E
 Gyrodala MS Gyro <12-1/4> (325)(408-679) : 417.50ft TVD, 0.87ft N, 0.52ft E
 Gyrodala MS Gyro <17-1/2> (100-325) : 109.50ft TVD, 0.13ft N, 0.02ft W

Projected MD @ TD: 16997 : 90.31° Inc, 16997.00ft MD, 6587.37ft TVD, 10041.78ft VS



Azimuth 338.26° with reference 0.00 N, 0.00 E

02/15/2019



Actual Wellpath Report

Taunus Unit 1H AWP Proj: 16997'

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REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Area	Doddridge Co., WV
Field	Doddridge
Facility	Strickling Pad
Slot	Slot #08
Well	Taunus Unit 1H
Wellbore	Taunus Unit 1H AWB

REPORT SETUP INFORMATION	
Projection System	NAD27 / UTM Zone 17 North, US feet
North Reference	Grid
Scale	0.999604
Convergence at slot	0.14° East
Software System	WellArchitect® 5.1
User	Mccrerib
Report Generated	5/23/2018 at 12:08:12 PM
Database/Source file	WA_MPL_EASTERNUS_Defn\Taunus_Unit_1H_AWP_Proj_16997_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-3.08	-19.63	1701563.54	14282956.98	39°19'55.860"N	80°47'01.520"W
Facility Reference Pt			1701583.17	14282960.06	39°19'55.890"N	80°47'01.270"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.301"W

WELLPATH DATUM	
Calculation method	Minimum curvature
Horizontal Reference Pt	Slot
Vertical Reference Pt	Frontier 22 (RKB)
MD Reference Pt	Frontier 22 (RKB)
Field Vertical Reference	Mean Sea Level
	Frontier 22 (RKB) to Facility Vertical Datum
	Frontier 22 (RKB) to Mean Sea Level
	Frontier 22 (RKB) to Ground Level at Slot (Slot #08)
	Section Origin
	Section Azimuth
	24.50ft
	1089.50ft
	24.50ft
	N 0.00, E 0.00 ft
	338.26°

02/15/2019



Actual Wellpath Report

Taunus Unit 1H AWP Proj: 16997



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Doddridge Co., WV	Well	Taunus Unit 1H
Field	Doddridge	Wellbore	Taunus Unit 1H AWB
Facility	Strickling Pad		

WELLPATH DATA (208 stations) † = interpolated/extrapolated station

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
0.00†	0.000	351.400	0.00	0.00	0.00	0.00	1701563.54	14282956.98	39°19'55.860"N	80°47'01.520"W	0.00	0.000	0.00	0.00	0.00	
24.50	0.000	351.400	24.50	0.00	0.00	0.00	1701563.54	14282956.98	39°19'55.860"N	80°47'01.520"W	0.00	0.000	0.00	0.00	0.00	
109.50	0.180	351.400	109.50	0.13	-0.02	0.00	1701563.52	14282957.11	39°19'55.861"N	80°47'01.520"W	0.13	351.400	0.21	-10.12	Gyrodata MS Gyro <17-1/2">(100-325)	
209.50	0.060	82.310	209.50	0.27	0.29	0.01	1701563.55	14282957.27	39°19'55.863"N	80°47'01.519"W	0.29	1.641	0.17	-0.12	90.91	
309.50	0.180	12.240	309.50	0.39	0.45	0.09	1701563.64	14282957.43	39°19'55.864"N	80°47'01.519"W	0.46	11.631	0.17	0.12	-70.07	
334.50	0.310	26.560	334.50	0.47	0.55	0.13	1701563.68	14282957.53	39°19'55.865"N	80°47'01.518"W	0.57	13.427	0.57	0.52	57.28	
417.50	0.430	67.800	417.50	0.62	0.87	0.52	1701564.06	14282957.85	39°19'55.869"N	80°47'01.513"W	1.02	30.848	0.34	0.14	49.69	
508.50	0.410	71.660	508.50	0.60	1.10	1.15	1701564.89	14282958.08	39°19'55.871"N	80°47'01.505"W	1.59	46.081	0.04	-0.02	4.24	
598.50	0.500	67.280	598.49	0.59	1.36	1.81	1701565.36	14282958.33	39°19'55.873"N	80°47'01.497"W	2.27	53.208	0.11	0.10	-4.87	
688.50	0.480	68.790	688.49	0.59	1.64	2.53	1701566.07	14282958.62	39°19'55.876"N	80°47'01.488"W	3.02	56.948	0.03	-0.02	1.68	
768.50	0.780	80.110	768.48	0.48	1.86	3.38	1701566.92	14282958.84	39°19'55.878"N	80°47'01.477"W	3.85	61.158	0.40	0.38	14.15	
858.50	0.950	74.600	858.47	0.27	2.16	4.70	1701568.24	14282959.14	39°19'55.881"N	80°47'01.460"W	5.17	65.286	0.21	0.19	-6.12	
954.50	0.490	60.730	954.47	0.23	2.57	5.82	1701569.37	14282959.55	39°19'55.885"N	80°47'01.446"W	6.37	66.151	0.51	-0.48	-14.45	
1049.50	0.160	229.840	1049.47	0.25	2.69	6.08	1701569.62	14282959.66	39°19'55.886"N	80°47'01.443"W	6.65	66.142	0.68	-0.35	178.01	
1143.50	0.630	293.530	1143.46	0.57	2.81	5.50	1701569.05	14282959.79	39°19'55.888"N	80°47'01.450"W	6.18	62.955	0.61	0.50	67.76	
1238.50	1.050	311.920	1238.45	1.72	3.60	4.38	1701567.92	14282960.58	39°19'55.895"N	80°47'01.464"W	5.67	50.566	0.52	0.44	19.36	
1332.50	0.590	310.340	1332.44	2.92	4.49	3.37	1701566.91	14282961.46	39°19'55.904"N	80°47'01.477"W	5.61	36.878	0.49	-0.49	-1.68	
1427.50	0.100	86.020	1427.44	3.33	4.81	3.08	1701566.62	14282961.79	39°19'55.907"N	80°47'01.481"W	5.71	32.605	0.70	-0.52	142.82	
1521.50	0.110	77.530	1521.44	3.29	4.84	3.25	1701566.79	14282961.81	39°19'55.908"N	80°47'01.479"W	5.82	33.879	0.02	0.01	-9.03	
1615.50	0.260	345.700	1615.44	3.49	5.06	3.28	1701566.82	14282962.04	39°19'55.910"N	80°47'01.478"W	6.03	32.961	0.30	0.16	-97.69	
1709.50	0.260	316.810	1709.44	3.90	5.42	3.08	1701566.63	14282962.40	39°19'55.914"N	80°47'01.481"W	6.24	29.620	0.14	0.00	-30.73	
1803.50	0.350	326.610	1803.44	4.38	5.82	2.78	1701566.32	14282962.79	39°19'55.917"N	80°47'01.484"W	6.46	25.533	0.11	0.10	10.43	
1897.50	0.200	336.490	1897.44	4.82	6.21	2.56	1701566.10	14282963.18	39°19'55.921"N	80°47'01.487"W	6.72	22.376	0.17	-0.16	10.51	
1990.50	0.460	17.940	1990.44	5.27	6.71	2.61	1701566.15	14282963.69	39°19'55.926"N	80°47'01.487"W	7.20	21.220	0.36	0.28	44.57	
2085.50	0.430	16.610	2085.43	5.84	7.42	2.83	1701566.37	14282964.39	39°19'55.933"N	80°47'01.484"W	7.94	20.855	0.03	-0.03	-1.40	
2179.50	0.390	10.110	2179.43	6.39	8.07	2.98	1701566.53	14282965.05	39°19'55.940"N	80°47'01.482"W	8.60	20.284	0.07	-0.04	-6.91	
2273.50	0.370	19.250	2273.43	6.89	8.67	3.14	1701566.68	14282965.65	39°19'55.946"N	80°47'01.480"W	9.22	19.899	0.07	-0.02	9.72	
2367.50	0.420	15.870	2367.43	7.39	9.29	3.33	1701566.88	14282966.26	39°19'55.952"N	80°47'01.477"W	9.87	19.739	0.06	0.05	-3.60	
2478.50	0.540	40.870	2478.42	7.96	10.08	3.79	1701567.33	14282967.05	39°19'55.960"N	80°47'01.471"W	10.77	20.596	0.21	0.11	22.52	
2598.50	0.670	12.970	2598.42	8.79	11.19	4.31	1701567.96	14282968.16	39°19'55.970"N	80°47'01.465"W	11.99	21.088	0.26	0.11	-23.25	



Actual Wellpath Report

Taunus Unit 1H AWP Proj: 16997
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REFERENCE WELLPATH IDENTIFICATION

Operator	Slot #08
ANTERO RESOURCES CORPORATION	Taunus Unit 1H
Doddridge Co., WV	Well
Doddridge	Wellbore
Strickling Pad	Taunus Unit 1H AWB

WELLPATH DATA (208 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (F/100ft)	Build Rate (F/100ft)	Turn Rate (F/100ft)	Comments
2693.50	1.220	227.220	2693.41	8.89	11.04	3.70	1701567.24	14282968.02	39°19'55.969"N	80°47'01.473"W	11.65	18.509	1.91	0.58	-153.42	
2788.50	3.610	218.920	2788.32	7.06	8.03	-3.68	1701564.62	14282965.00	39°19'55.939"N	80°47'01.506"W	8.10	7.628	2.54	2.52	-8.74	
2883.50	5.960	214.180	2882.98	2.83	1.62	-3.58	1701559.97	14282958.60	39°19'55.876"N	80°47'01.565"W	3.93	294.385	2.51	2.47	-4.99	
2979.50	8.000	209.810	2978.27	-4.12	-8.30	-9.70	1701553.85	14282948.68	39°19'55.778"N	80°47'01.644"W	12.76	229.438	2.19	2.13	-4.55	
3073.50	10.280	207.970	3071.07	-13.61	-21.39	-16.88	1701546.67	14282935.60	39°19'55.649"N	80°47'01.736"W	27.25	218.291	2.45	2.43	-1.96	
3168.50	11.830	208.890	3164.30	-25.27	-37.40	-25.56	1701537.99	14282919.59	39°19'55.491"N	80°47'01.846"W	45.30	214.355	1.64	1.63	0.97	
3262.50	13.370	209.450	3256.03	-38.19	-55.30	-35.56	1701527.99	14282901.70	39°19'55.314"N	80°47'02.115"W	65.75	212.745	1.64	1.64	0.60	
3356.50	14.100	209.490	3347.35	-52.18	-74.73	-46.54	1701517.02	14282882.28	39°19'55.122"N	80°47'02.115"W	88.04	211.915	0.78	0.78	0.04	
3451.50	14.450	209.440	3439.41	-66.92	-95.17	-57.99	1701505.57	14282861.85	39°19'54.921"N	80°47'02.261"W	111.44	211.358	0.39	0.37	-0.47	
3545.50	14.530	209.460	3530.42	-81.72	-115.69	-69.49	1701494.09	14282841.34	39°19'54.718"N	80°47'02.408"W	134.95	210.991	0.14	0.09	0.45	
3640.50	13.800	210.650	3622.53	-96.10	-135.81	-81.12	1701482.45	14282821.22	39°19'54.520"N	80°47'02.557"W	158.19	210.851	0.33	-0.77	1.25	
3735.50	13.740	211.600	3714.80	-109.75	-155.17	-92.81	1701470.77	14282801.87	39°19'54.329"N	80°47'02.706"W	180.81	210.885	0.25	-0.06	1.00	
3829.50	13.520	209.820	3806.16	-123.25	-174.21	-104.12	1701459.46	14282782.84	39°19'54.141"N	80°47'02.850"W	202.95	210.867	0.50	-0.23	-1.98	
3923.50	13.420	208.140	3897.57	-137.11	-193.36	-114.73	1701448.86	14282763.69	39°19'53.952"N	80°47'02.986"W	224.84	210.683	0.43	-0.11	-1.79	
4017.50	13.340	206.210	3889.02	-151.40	-212.71	-124.67	1701438.93	14282744.35	39°19'53.761"N	80°47'03.113"W	246.55	210.374	0.48	-0.09	-2.05	
4112.50	13.500	208.330	4081.43	-165.86	-232.30	-134.77	1701428.83	14282724.77	39°19'53.567"N	80°47'03.242"W	268.57	210.120	0.54	0.17	2.23	
4206.50	13.140	212.140	4172.90	-179.20	-251.01	-145.66	1701417.94	14282706.07	39°19'53.383"N	80°47'03.381"W	290.21	210.127	1.01	-0.38	4.05	
4301.50	12.870	210.990	4265.46	-191.97	-269.22	-156.85	1701406.75	14282687.86	39°19'53.203"N	80°47'03.524"W	311.58	210.226	0.39	-0.28	-1.21	
4396.50	12.670	207.550	4358.11	-205.18	-287.53	-167.12	1701396.49	14282669.56	39°19'53.022"N	80°47'03.656"W	332.57	210.166	0.83	-0.21	-3.62	
4491.50	13.180	209.770	4450.71	-218.71	-306.17	-177.32	1701386.30	14282650.93	39°19'52.838"N	80°47'03.786"W	353.81	210.077	0.75	0.54	2.34	
4585.50	13.710	212.610	4542.13	-231.88	-324.85	-188.64	1701374.98	14282632.25	39°19'52.654"N	80°47'03.931"W	375.65	210.144	0.90	0.56	3.02	
4773.50	14.210	217.170	4724.58	-256.78	-362.01	-214.59	1701349.04	14282595.11	39°19'52.287"N	80°47'04.262"W	420.83	210.658	0.64	0.27	2.43	
4868.50	13.530	217.120	4816.81	-268.54	-380.16	-228.34	1701335.29	14282576.97	39°19'52.108"N	80°47'04.437"W	443.47	210.991	0.72	-0.27	-0.05	
4962.50	12.670	214.070	4908.37	-280.02	-397.47	-240.75	1701322.89	14282559.67	39°19'51.937"N	80°47'04.596"W	464.70	211.204	1.17	-0.91	-3.24	
5057.50	13.620	210.810	5000.88	-292.68	-415.71	-252.32	1701311.33	14282541.44	39°19'51.757"N	80°47'04.744"W	486.29	211.256	1.27	1.00	-3.43	
5151.50	13.990	212.250	5092.16	-306.09	-434.82	-264.05	1701299.60	14282522.33	39°19'51.569"N	80°47'04.894"W	508.72	211.289	0.54	0.39	1.53	
5246.50	12.350	214.780	5184.66	-318.45	-452.88	-275.97	1701287.68	14282504.28	39°19'51.390"N	80°47'05.046"W	530.34	211.357	1.83	-1.73	2.66	
5340.50	11.880	212.720	5276.57	-329.62	-469.28	-286.94	1701276.72	14282487.89	39°19'51.229"N	80°47'05.186"W	550.05	211.444	0.68	-0.50	-2.19	
5435.50	12.100	210.500	5369.50	-341.40	-486.08	-297.28	1701266.38	14282471.09	39°19'51.063"N	80°47'05.318"W	569.78	211.449	0.54	0.23	-2.44	
5529.50	12.620	206.510	5461.32	-354.27	-503.76	-306.96	1701256.80	14282453.42	39°19'50.888"N	80°47'05.440"W	589.86	211.347	1.06	0.55	-4.24	



Actual Wellpath Report

Taunus Unit 1H AWP Proj: 16997



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Doddridge Co., WV	Well	Taunus Unit 1H
Field	Doddridge	Wellbore	Taunus Unit 1H AWB
Facility	Strickling Pad		

WELLPATH DATA (208 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (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
5624.50	14.270	207.660	5653.71	-368.80	-523.42	-316.93	1701246.74	14282433.77	39°19'50.694"N	80°47'05.569"W	611.89	211.195	1.78	1.74	1.21	
5718.50	15.960	210.460	5644.46	-384.26	-544.82	-328.86	1701234.81	14282412.37	39°19'50.483"N	80°47'05.722"W	636.38	211.116	1.96	1.80	2.98	
5813.50	16.150	212.310	5735.75	-400.02	-567.25	-342.54	1701221.14	14282389.96	39°19'50.262"N	80°47'05.896"W	662.65	211.127	0.57	0.20	1.99	
5908.50	14.900	209.490	5827.29	-415.43	-589.05	-355.62	1701208.07	14282368.17	39°19'50.046"N	80°47'06.063"W	688.07	211.120	1.54	-1.32	-2.97	
6003.50	12.600	210.940	5919.56	-429.36	-608.57	-366.96	1701196.73	14282348.65	39°19'49.854"N	80°47'06.208"W	710.64	211.090	2.45	-2.42	1.53	
6034.50	11.390	222.270	5949.89	-432.75	-613.73	-370.76	1701192.93	14282343.49	39°19'49.803"N	80°47'06.257"W	717.03	211.136	8.52	-3.90	36.55	
6065.50	10.960	235.300	5980.30	-434.76	-617.68	-375.24	1701188.45	14282339.55	39°19'49.764"N	80°47'06.314"W	722.72	211.279	8.25	-1.39	42.03	
6097.50	11.650	247.840	6011.69	-435.46	-620.63	-380.73	1701182.96	14282336.60	39°19'49.755"N	80°47'06.384"W	728.10	211.528	7.96	2.16	39.19	
6128.50	12.740	257.060	6041.99	-434.96	-622.57	-386.97	1701176.73	14282334.65	39°19'49.716"N	80°47'06.463"W	733.03	211.863	7.19	3.52	29.74	
6160.50	13.580	267.100	6073.15	-433.21	-623.55	-394.16	1701169.54	14282333.67	39°19'49.706"N	80°47'06.555"W	737.68	212.298	7.60	2.62	31.38	
6192.50	14.520	276.470	6104.20	-430.10	-623.29	-401.90	1701161.81	14282333.93	39°19'49.709"N	80°47'06.553"W	741.63	212.814	7.68	2.94	29.28	
6223.50	15.890	286.180	6134.12	-425.65	-621.67	-409.84	1701153.87	14282335.55	39°19'49.725"N	80°47'06.754"W	744.61	213.395	9.31	4.42	31.32	
6254.50	17.750	294.880	6163.80	-419.61	-618.50	-418.20	1701145.51	14282338.72	39°19'49.757"N	80°47'06.861"W	746.61	214.065	10.08	6.00	28.06	
6286.50	19.370	302.130	6194.13	-411.78	-613.62	-427.12	1701136.59	14282343.60	39°19'49.805"N	80°47'06.974"W	747.64	214.840	8.80	5.06	22.66	
6317.50	21.080	309.640	6223.23	-402.73	-607.33	-435.77	1701127.95	14282349.89	39°19'49.868"N	80°47'07.084"W	747.49	215.660	10.02	5.52	24.23	
6349.50	22.740	316.890	6252.92	-391.91	-599.14	-444.43	1701119.29	14282358.07	39°19'49.949"N	80°47'07.194"W	745.98	216.567	9.91	5.19	22.66	
6380.50	24.750	322.780	6281.30	-380.08	-589.60	-452.45	1701111.27	14282367.61	39°19'50.043"N	80°47'07.296"W	743.20	217.502	10.02	6.48	19.00	
6412.50	27.700	325.040	6310.00	-366.38	-578.17	-460.77	1701102.96	14282379.04	39°19'50.156"N	80°47'07.401"W	739.31	218.563	9.73	9.22	7.06	
6444.50	30.600	325.880	6337.95	-351.18	-565.33	-469.60	1701094.13	14282391.88	39°19'50.284"N	80°47'07.513"W	734.93	219.715	9.15	9.06	2.62	
6475.50	33.320	326.430	6364.24	-335.14	-551.70	-478.73	1701085.00	14282405.50	39°19'50.419"N	80°47'07.629"W	730.45	220.950	8.82	8.77	1.77	
6507.50	35.670	326.610	6390.62	-317.39	-536.58	-488.73	1701075.01	14282420.61	39°19'50.568"N	80°47'07.756"W	725.79	222.328	7.35	7.34	0.56	
6538.50	37.890	327.670	6415.44	-299.18	-520.99	-498.80	1701064.94	14282436.20	39°19'50.722"N	80°47'07.884"W	721.27	223.753	7.45	7.16	3.42	
6570.50	40.140	329.270	6440.31	-279.33	-503.82	-509.32	1701054.42	14282453.36	39°19'50.892"N	80°47'08.017"W	716.41	225.311	7.70	7.03	5.00	
6601.50	42.830	330.320	6463.53	-259.02	-486.07	-519.65	1701044.10	14282471.10	39°19'51.068"N	80°47'08.148"W	711.55	226.912	8.96	8.68	3.39	
6633.50	46.270	330.330	6486.33	-236.79	-466.57	-530.76	1701032.99	14282490.59	39°19'51.261"N	80°47'08.289"W	706.68	228.683	10.75	10.75	0.03	
6665.50	49.720	331.750	6507.74	-213.21	-445.76	-542.27	1701021.49	14282511.39	39°19'51.467"N	80°47'08.434"W	701.97	230.579	11.27	10.78	4.44	
6696.50	51.560	332.310	6527.40	-189.38	-424.59	-563.51	1701010.26	14282532.55	39°19'51.676"N	80°47'08.577"W	697.60	232.508	6.10	5.94	1.81	
6727.50	52.840	333.010	6546.40	-165.00	-402.84	-564.66	1700999.01	14282554.30	39°19'51.892"N	80°47'08.719"W	693.70	234.500	4.50	4.13	2.28	
6759.50	54.420	333.800	6565.38	-139.33	-379.80	-576.29	1700987.49	14282577.33	39°19'52.120"N	80°47'08.865"W	690.18	236.614	5.32	4.94	2.47	
6790.50	56.210	334.340	6583.02	-113.91	-356.87	-587.43	1700976.34	14282600.25	39°19'52.347"N	80°47'09.007"W	687.34	238.721	5.95	5.77	1.74	



Actual Wellpath Report

Taunus Unit 1H AWP Proj: 16997



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REFERENCE WELLPATH IDENTIFICATION									
Operator	Slot #08								
Area	Taunus Unit 1H								
Field	Wellbore								
Facility	Strickling Pad								

WELLPATH DATA (208 stations) † = interpolated/extrapolated station																
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (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
6822.50	57.77	335.580	6600.45	-87.12	-332.56	-598.79	1700964.99	14282824.55	39°19'52.587"N	80°47'09.150"W	684.94	240.953	5.86	4.87	3.87	
6848.00†	57.976	335.835	66614.01	-65.54	-312.88	-607.67	1700956.11	142828244.23	39°19'52.782"N	80°47'09.263"W	683.49	242.757	1.17	0.81	1.00	Burket: 6848°MD / 6647°TVD
6853.50	58.02	335.890	6616.92	-60.88	-308.62	-609.58	1700954.21	14282848.48	39°19'52.824"N	80°47'09.287"W	683.25	243.148	1.17	0.81	1.00	
6885.50	59.090	336.950	6633.62	-33.60	-283.60	-620.70	1700943.29	14282873.49	39°19'53.072"N	80°47'09.425"W	682.24	245.437	4.38	3.34	3.31	
6916.50	61.420	338.150	6649.00	-6.69	-258.73	-630.57	1700933.02	14282898.36	39°19'53.318"N	80°47'09.555"W	681.77	247.698	8.23	7.52	3.87	
6967.00	65.160	339.110	6671.69	38.41	-216.72	-647.20	1700916.60	14282740.34	39°19'53.733"N	80°47'09.763"W	682.52	251.486	7.60	7.41	1.90	BH AT Curve <-8-12"> (6916.50) (6967-16972)
6980.00†	66.441	339.031	6677.02	50.27	-205.65	-651.44	1700912.37	14282751.41	39°19'53.843"N	80°47'09.816"W	683.13	252.480	9.87	9.85	-0.61	Hamilton: 6980°MD / 6677°TVD
7014.00	69.790	338.830	6689.69	81.81	-176.21	-662.78	1700910.03	14282780.84	39°19'54.134"N	80°47'09.960"W	685.80	255.111	9.87	9.85	-0.59	POE Hamilton: 7014°MD / 6680°TVD
7060.00	74.080	339.300	6703.95	125.53	-135.37	-678.40	1700885.42	14282821.66	39°19'54.538"N	80°47'10.157"W	691.77	258.715	9.38	9.33	1.02	
7107.00	78.530	340.100	6715.08	171.17	-92.56	-694.23	1700869.59	14282864.46	39°19'54.962"N	80°47'10.358"W	700.38	262.406	9.61	9.47	1.70	
7155.00	82.530	339.750	6722.97	218.48	-48.10	-710.48	1700853.34	14282808.90	39°19'55.401"N	80°47'10.563"W	712.11	266.127	8.36	8.33	-0.73	
7249.00	89.380	341.350	6726.23	265.30	-3.92	-726.08	1700837.75	14282853.06	39°19'55.838"N	80°47'10.760"W	726.09	269.691	14.96	14.57	3.40	
7344.00	90.340	336.100	6726.57	407.25	127.97	-778.59	1700785.26	14283084.89	39°19'57.143"N	80°47'11.425"W	743.21	273.105	5.61	0.79	-5.55	
7439.00	90.120	334.270	6726.19	502.11	214.19	-818.46	1700745.41	14283171.08	39°19'57.986"N	80°47'11.929"W	789.04	279.333	2.85	0.62	-2.78	
7533.00	90.370	338.880	6725.79	596.04	300.42	-855.82	1700708.06	14283257.28	39°19'58.849"N	80°47'12.402"W	846.03	284.665	1.94	-0.23	-1.93	
7628.00	90.400	336.720	6725.15	691.03	388.37	-891.71	1700672.18	14283345.19	39°19'59.719"N	80°47'12.856"W	907.02	289.343	4.91	0.27	4.90	
7723.00	90.370	337.600	6724.51	786.01	475.92	-928.59	1700635.33	14283432.71	39°20'00.586"N	80°47'13.323"W	1043.44	297.136	0.93	-0.03	0.93	
7817.00	90.460	336.720	6723.83	879.99	562.54	-965.07	1700598.85	14283519.30	39°20'01.443"N	80°47'13.785"W	1117.06	300.238	0.94	0.10	-0.94	
7912.00	90.370	338.740	6723.14	974.98	650.45	-1001.07	1700562.87	14283607.17	39°20'02.312"N	80°47'14.240"W	1193.83	303.014	2.13	-0.09	2.13	
8006.00	90.550	342.290	6722.39	1068.89	739.05	-1032.42	1700531.53	14283695.73	39°20'03.189"N	80°47'14.637"W	1269.68	305.597	3.78	0.19	3.78	
8101.00	90.460	346.030	6721.55	1163.37	830.42	-1058.35	1700505.62	14283787.07	39°20'04.092"N	80°47'14.964"W	1345.25	308.119	3.94	-0.09	3.94	
8196.00	90.740	346.090	6720.55	1257.48	922.62	-1081.23	1700482.74	14283879.23	39°20'05.004"N	80°47'15.252"W	1421.37	310.474	0.30	0.29	0.06	
8290.00	90.520	341.770	6719.52	1350.99	1012.92	-1107.24	1700456.74	14283969.50	39°20'05.897"N	80°47'15.581"W	1500.67	312.453	4.60	-0.23	-4.60	
8385.00	90.250	338.230	6718.88	1445.93	1102.18	-1139.73	1700424.27	14284058.71	39°20'06.780"N	80°47'15.991"W	1585.49	314.040	3.74	-0.28	-3.73	
8479.00	90.120	335.320	6718.58	1539.89	1188.55	-1176.79	1700387.22	14284145.05	39°20'07.635"N	80°47'16.461"W	1672.57	315.285	3.10	-0.14	-3.10	
8575.00	90.460	333.840	6718.09	1635.69	1275.25	-1218.00	1700346.01	14284231.72	39°20'08.493"N	80°47'16.982"W	1763.46	316.315	1.58	0.35	-1.54	
8669.00	90.370	331.940	6717.41	1729.27	1358.92	-1260.83	1700303.21	14284315.35	39°20'09.321"N	80°47'17.525"W	1853.74	317.144	2.02	-0.10	-2.02	
8762.00	90.400	332.410	6716.79	1821.74	1441.16	-1304.24	1700259.82	14284397.57	39°20'10.134"N	80°47'18.075"W	1943.71	317.855	0.51	0.03	0.51	
8857.00	90.460	333.350	6716.07	1916.32	1525.71	-1347.55	1700216.53	14284482.08	39°20'10.971"N	80°47'18.624"W	2035.60	318.548	0.99	0.06	0.99	



Actual Wellpath Report

Taunus Unit 1H AWP Proj: 16997'
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REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #08
Operator	ANTERO RESOURCES CORPORATION	Well	Taunus Unit 1H
Area	Doddrige Co., WV	Wellbore	Taunus Unit 1H AWB
Field	Doddrige		
Facility	Strickling Pad		

WELLPATH DATA (208 stations) † = interpolated/extrapolated station																
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (JUS ft)	Grid North (JUS ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Comments
8951.00	90.430	334.980	6715.34	2010.07	1610.31	-1388.51	1700175.59	14284566.65	39°20'11.808"N	80°47'19.142"W	2126.28	319.230	1.73	-0.03	1.73	
9046.00	90.400	335.950	6714.65	2104.96	1696.73	-1427.95	1700136.16	14284653.03	39°20'12.663"N	80°47'19.642"W	2217.65	319.916	1.02	-0.03	1.02	
9140.00	90.250	336.320	6714.12	2198.89	1782.69	-1465.98	1700098.14	14284738.96	39°20'13.514"N	80°47'20.123"W	2308.05	320.568	0.42	-0.16	0.39	
9235.00	90.400	337.180	6713.58	2293.86	1869.98	-1503.48	1700060.66	14284826.21	39°20'14.377"N	80°47'20.598"W	2399.43	321.200	0.92	0.16	0.91	
9330.00	90.220	339.480	6713.07	2388.85	1958.26	-1538.56	1700025.60	14284914.45	39°20'15.251"N	80°47'21.042"W	2490.37	321.844	2.43	-0.19	2.42	
9425.00	90.340	341.040	6712.60	2483.79	2047.67	-1570.65	1699993.52	14285003.83	39°20'16.135"N	80°47'21.448"W	2580.67	322.510	1.65	0.13	1.64	
9520.00	89.970	334.820	6712.35	2578.74	2135.66	-1606.32	1699957.86	14285091.79	39°20'17.006"N	80°47'21.899"W	2672.33	323.052	6.56	-0.39	-6.55	
9605.00†	90.223	334.730	6712.20	2663.58	2212.56	-1642.55	1699921.65	14285168.66	39°20'17.766"N	80°47'22.358"W	2755.61	323.411	0.32	0.30	-0.11	Tully: 6905MD / 6712°TVD
9614.00	90.250	334.720	6712.17	2672.56	2220.70	-1646.39	1699917.81	14285176.79	39°20'17.847"N	80°47'22.406"W	2764.43	323.447	0.32	0.30	-0.11	
9709.00	90.180	335.720	6711.81	2767.43	2306.95	-1686.21	1699878.01	14285263.01	39°20'18.700"N	80°47'22.911"W	2857.50	323.836	1.06	-0.07	1.05	
9804.00	90.460	334.040	6711.28	2862.26	2392.96	-1726.53	1699837.70	14285348.98	39°20'19.551"N	80°47'23.421"W	2950.79	324.189	1.79	0.29	-1.77	
9898.00	91.320	336.940	6709.82	2956.13	2478.47	-1765.52	1699798.72	14285434.46	39°20'20.397"N	80°47'23.915"W	3043.00	324.536	3.22	0.91	3.09	
9992.00	90.920	341.440	6707.98	3050.07	2566.30	-1798.90	1699765.36	14285522.25	39°20'21.266"N	80°47'24.337"W	3133.99	324.971	4.81	-0.43	4.79	
10087.00	90.490	341.880	6706.81	3144.90	2656.46	-1828.79	1699735.48	14285612.38	39°20'22.158"N	80°47'24.715"W	3225.10	325.455	0.65	-0.45	0.46	
10182.00	90.430	342.450	6706.05	3239.67	2746.89	-1857.89	1699706.40	14285702.78	39°20'23.053"N	80°47'25.083"W	3316.20	325.927	0.60	-0.06	0.60	
10277.00	90.030	341.930	6705.67	3334.45	2837.34	-1886.94	1699677.35	14285793.19	39°20'23.947"N	80°47'25.450"W	3407.50	326.375	0.69	-0.42	-0.55	
10371.00	89.970	343.180	6705.67	3428.18	2927.01	-1915.12	1699649.18	14285882.83	39°20'24.834"N	80°47'25.806"W	3497.87	326.804	1.33	-0.06	1.33	
10466.00	90.000	343.320	6705.69	3522.78	3018.12	-1942.04	1699622.28	14285973.90	39°20'25.755"N	80°47'26.146"W	3588.95	327.240	0.76	0.03	0.76	
10560.00	89.880	343.320	6705.79	3616.37	3108.30	-1968.56	1699595.76	14286064.04	39°20'26.627"N	80°47'26.481"W	3679.24	327.653	0.63	-0.13	-0.62	
10655.00	89.540	342.540	6706.27	3711.05	3199.11	-1996.45	1699567.89	14286154.82	39°20'27.525"N	80°47'26.833"W	3770.96	328.033	0.90	-0.36	-0.82	
10749.00	90.090	340.980	6707.08	3804.81	3288.69	-2024.93	1699539.42	14286244.36	39°20'28.411"N	80°47'27.193"W	3862.10	328.378	0.41	0.16	-0.37	
10843.00	90.000	342.770	6707.16	3898.55	3378.33	-2053.22	1699511.14	14286333.97	39°20'29.298"N	80°47'27.550"W	3953.34	328.710	0.70	0.33	0.62	
10937.00	90.090	340.980	6707.08	3992.36	3467.66	-2082.47	1699481.91	14286423.26	39°20'30.181"N	80°47'27.920"W	4044.92	329.014	1.91	0.10	-1.90	
11032.00	90.370	340.120	6706.70	4087.28	3557.24	-2114.10	1699450.29	14286512.80	39°20'31.068"N	80°47'28.320"W	4138.04	329.277	0.95	0.29	-0.91	
11127.00	89.360	338.370	6706.91	4182.26	3646.07	-2147.76	1699416.64	14286601.60	39°20'31.946"N	80°47'28.746"W	4231.63	329.499	2.12	-1.04	-1.84	
11222.00	89.600	338.350	6707.76	4277.26	3734.37	-2182.79	1699381.62	14286689.86	39°20'32.820"N	80°47'29.189"W	4325.52	329.693	0.23	0.23	-0.02	
11316.00	90.150	339.390	6707.96	4371.25	3822.05	-2216.68	1699347.75	14286777.51	39°20'33.697"N	80°47'29.618"W	4418.34	329.887	1.25	0.59	1.11	
11411.00	89.420	338.470	6708.32	4466.24	3910.70	-2250.83	1699313.61	14286866.12	39°20'34.564"N	80°47'30.050"W	4512.18	330.077	1.24	-0.77	-0.87	
11506.00	89.690	337.300	6709.06	4561.24	3998.70	-2286.59	1699277.86	14286954.09	39°20'35.435"N	80°47'30.502"W	4606.32	330.238	1.26	0.28	-1.23	
11614.00	90.090	337.860	6709.24	4656.23	4086.52	-2322.83	1699241.64	14287041.87	39°20'36.303"N	80°47'30.961"W	4700.55	330.386	0.72	0.42	0.59	



Actual Wellpath Report

Taunus Unit 1H AWP Proj: 16997



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Doddridge Co., WV	Well	Taunus Unit 1H
Field	Doddridge	Wellbore	Taunus Unit 1H AWB
Facility	Strickling Pad		

WELLPATH DATA (208 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (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
11695.00	89.750	337.070	6709.37	4750.22	4173.34	-2358.85	1699205.63	14287128.66	39°20'37.162"N	80°47'31.417"W	4793.85	330.524	0.91	-0.36	-0.84	
11789.00	90.430	338.840	6709.22	4844.21	4260.47	-2394.13	1699170.36	14287215.75	39°20'38.024"N	80°47'31.863"W	4887.07	330.667	2.02	0.72	1.88	
11883.00	89.780	339.250	6709.05	4938.20	4348.25	-2427.75	1699136.76	14287303.50	39°20'38.893"N	80°47'32.289"W	4980.08	330.824	0.82	-0.68	0.44	
11978.00	89.320	336.020	6709.80	5033.18	4436.09	-2463.89	1699100.63	14287391.30	39°20'39.762"N	80°47'32.746"W	5074.41	330.951	3.43	-0.48	-3.40	
12072.00	89.880	335.990	6710.45	5127.11	4521.96	-2502.12	1699062.42	14287477.14	39°20'40.611"N	80°47'33.230"W	5168.05	331.043	0.60	0.20	-0.03	
12166.00	90.090	335.560	6710.48	5221.02	4607.89	-2540.69	1699023.87	14287562.83	39°20'41.459"N	80°47'33.719"W	5261.73	331.128	0.51	0.22	-0.46	
12261.00	90.150	336.190	6710.28	5315.94	4694.39	-2579.51	1698985.06	14287649.50	39°20'42.317"N	80°47'34.210"W	5356.41	331.212	0.67	0.06	0.66	
12355.00	89.880	335.740	6710.25	5409.86	4780.24	-2617.80	1698946.78	14287735.31	39°20'43.167"N	80°47'34.695"W	5450.10	331.294	0.56	-0.29	-0.48	
12449.00	90.030	333.200	6710.33	5503.65	4865.05	-2658.31	1698906.29	14287820.09	39°20'44.006"N	80°47'35.208"W	5543.95	331.347	2.71	0.16	-2.70	
12544.00	89.970	331.520	6710.33	5598.14	4949.21	-2702.38	1698862.24	14287904.22	39°20'44.839"N	80°47'35.767"W	5638.93	331.364	1.77	-0.06	-1.77	
12638.00	90.000	330.560	6710.35	5691.39	5031.45	-2747.89	1698816.74	14287986.43	39°20'45.652"N	80°47'36.344"W	5732.92	331.359	1.02	0.03	-1.02	
12733.00	90.120	331.540	6710.25	5785.64	5114.58	-2793.88	1698770.78	14288069.52	39°20'46.475"N	80°47'36.927"W	5827.92	331.354	1.04	0.13	1.03	
12827.00	90.000	333.110	6710.15	5879.13	5197.82	-2837.53	1698727.14	14288152.73	39°20'47.299"N	80°47'37.480"W	5921.91	331.370	1.68	-0.13	1.67	
12922.00	89.970	334.820	6710.18	5973.86	5283.18	-2879.23	1698685.46	14288238.06	39°20'48.143"N	80°47'38.008"W	6016.81	331.410	1.80	-0.03	1.80	
13016.00	90.030	337.040	6710.18	6067.78	5369.00	-2917.57	1698647.14	14288323.84	39°20'48.992"N	80°47'38.494"W	6110.51	331.480	2.36	0.06	2.36	
13111.00	90.370	340.840	6709.85	6162.75	5457.64	-2951.70	1698613.02	14288412.45	39°20'49.869"N	80°47'38.926"W	6204.70	331.594	4.02	0.36	4.00	
13205.00	90.150	344.130	6709.42	6256.49	5547.27	-2979.98	1698584.75	14288502.04	39°20'50.756"N	80°47'39.283"W	6297.02	331.755	3.51	-0.23	3.50	
13300.00	89.970	343.010	6709.32	6351.08	5638.39	-3006.85	1698557.89	14288593.12	39°20'51.657"N	80°47'39.622"W	6390.04	331.930	1.19	-0.16	-1.18	
13395.00	89.970	341.260	6709.37	6445.86	5728.80	-3036.00	1698528.76	14288683.50	39°20'52.551"N	80°47'39.991"W	6483.55	332.079	1.84	0.00	-1.84	
13490.00	90.000	339.230	6709.39	6540.79	5818.21	-3068.10	1698496.66	14288772.87	39°20'53.436"N	80°47'40.397"W	6577.60	332.196	2.14	0.03	-2.14	
13584.00	90.000	338.870	6709.39	6634.78	5905.99	-3101.71	1698463.06	14288860.62	39°20'54.304"N	80°47'40.822"W	6670.94	332.292	0.38	0.00	-0.38	
13678.00	89.880	339.250	6709.49	6728.77	5993.78	-3135.31	1698429.48	14288948.38	39°20'55.172"N	80°47'41.247"W	6764.29	332.386	0.42	-0.13	0.40	
13773.00	90.180	341.960	6709.44	6823.69	6083.38	-3166.85	1698397.95	14289037.94	39°20'56.059"N	80°47'41.646"W	6858.32	332.500	2.87	0.32	2.85	
13868.00	90.030	342.950	6709.27	6918.43	6173.96	-3195.49	1698369.32	14289128.49	39°20'56.955"N	80°47'42.008"W	6951.91	332.635	1.05	-0.16	1.04	
13962.00	89.970	343.600	6709.27	7012.07	6263.99	-3222.54	1698342.28	14289218.47	39°20'57.845"N	80°47'42.350"W	7044.31	332.776	0.69	-0.06	0.69	
14056.00	89.910	342.690	6709.37	7105.73	6353.95	-3249.80	1698315.04	14289308.40	39°20'58.735"N	80°47'42.694"W	7136.79	332.912	0.97	-0.06	-0.97	
14151.00	90.120	343.120	6709.34	7200.42	6444.75	-3277.72	1698287.12	14289399.16	39°20'59.633"N	80°47'43.047"W	7230.37	333.043	0.50	0.22	0.45	
14246.00	90.280	343.860	6709.01	7295.02	6535.83	-3304.72	1698260.14	14289490.21	39°21'00.534"N	80°47'43.388"W	7323.82	333.177	0.80	0.17	0.78	
14340.00	89.850	342.860	6708.90	7388.65	6625.89	-3331.64	1698233.23	14289580.24	39°21'01.424"N	80°47'43.728"W	7416.35	333.306	1.16	-0.46	-1.06	
14435.00	90.030	341.780	6708.00	7483.41	6716.41	-3360.49	1698204.39	14289670.71	39°21'02.320"N	80°47'44.093"W	7510.19	333.419	1.15	0.19	-1.14	



Actual Wellpath Report

Taunus Unit 1H AWP Proj: 16997

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Doddridge Co., WV	Well	Taunus Unit 1H
Field	Doddridge	Wellbore	Taunus Unit 1H AWB
Facility	Strickling Pad		

WELLPATH DATA (208 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (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
14529.00	90.370	340.280	6708.68	7577.29	6805.30	-3391.04	1698173.85	14289759.57	39°21'03.199"N	80°47'44.479"W	7603.37	333.513	1.64	0.36	-1.60	
14624.00	90.430	339.680	6708.01	7672.25	6894.55	-3423.57	1698141.34	14289848.79	39°21'04.082"N	80°47'44.891"W	7697.77	333.593	1.63	0.06	-0.63	
14718.00	91.600	341.370	6706.35	7766.15	6983.16	-3454.90	1698110.02	14289937.36	39°21'04.958"N	80°47'45.287"W	7791.07	333.676	2.19	1.24	1.80	
14813.00	90.310	340.190	6704.76	7861.04	7072.85	-3486.17	1698078.76	14290027.01	39°21'05.845"N	80°47'45.682"W	7885.34	333.762	1.84	-1.36	-1.24	
14908.00	90.250	337.860	6704.30	7956.03	7161.54	-3520.17	1698044.77	14290115.67	39°21'06.723"N	80°47'46.113"W	7979.93	333.824	2.45	-0.06	-2.45	
15002.00	90.710	336.900	6703.51	8050.01	7248.31	-3556.32	1698008.64	14290202.40	39°21'07.581"N	80°47'46.570"W	8073.75	333.866	1.13	0.49	-1.02	
15097.00	90.340	335.480	6702.64	8144.94	7335.22	-3594.67	1697970.30	14290289.28	39°21'08.441"N	80°47'47.056"W	8168.66	333.893	1.54	-0.39	-1.49	
15192.00	90.900	335.500	6701.70	8239.83	7421.65	-3634.08	1697930.91	14290375.68	39°21'09.296"N	80°47'47.555"W	8263.62	333.911	0.48	0.48	0.02	
15286.00	90.520	335.350	6700.61	8333.71	7507.13	-3673.17	1697891.83	14290461.12	39°21'10.142"N	80°47'48.050"W	8357.58	333.928	0.34	-0.30	-0.16	
15381.00	91.050	337.260	6699.31	8428.64	7594.11	-3711.34	1697853.68	14290548.07	39°21'11.002"N	80°47'48.534"W	8452.49	333.955	2.09	0.56	2.01	
15475.00	90.710	339.370	6697.87	8522.62	7681.44	-3746.07	1697818.96	14290635.37	39°21'11.866"N	80°47'48.973"W	8546.20	334.003	2.27	-0.36	2.24	
15569.00	90.430	338.040	6696.93	8616.61	7769.02	-3780.21	1697784.84	14290722.91	39°21'12.733"N	80°47'49.406"W	8639.88	334.054	1.45	-0.30	-1.41	
15664.00	90.520	336.370	6696.15	8711.59	7856.59	-3817.01	1697748.05	14290810.45	39°21'13.599"N	80°47'49.872"W	8734.74	334.088	1.76	0.09	-1.76	
15758.00	90.490	336.300	6695.32	8805.53	7942.68	-3854.74	1697710.34	14290896.50	39°21'14.451"N	80°47'50.349"W	8828.66	334.112	0.08	-0.03	-0.07	
15852.00	90.340	334.260	6694.64	8899.40	8028.06	-3894.04	1697671.05	14290981.85	39°21'15.295"N	80°47'50.847"W	8922.63	334.124	2.18	-0.16	-2.17	
15947.00	91.200	335.040	6693.36	8994.20	8113.91	-3934.71	1697630.39	14291067.66	39°21'16.145"N	80°47'51.363"W	9017.62	334.130	1.22	0.91	0.82	
16042.00	90.310	333.780	6692.11	9088.97	8199.58	-3975.74	1697589.38	14291153.29	39°21'16.992"N	80°47'51.882"W	9112.61	334.133	1.62	-0.94	-1.33	
16136.00	90.220	333.210	6691.67	9182.65	8283.70	-4017.69	1697547.45	14291237.38	39°21'17.825"N	80°47'52.414"W	9206.60	334.126	0.61	-0.10	-0.61	
16231.00	90.340	333.250	6691.21	9277.28	8368.51	-4060.48	1697504.68	14291322.16	39°21'18.684"N	80°47'52.956"W	9301.59	334.117	0.13	0.13	0.04	
16325.00	90.180	334.440	6690.78	9371.00	8452.89	-4101.91	1697463.26	14291406.50	39°21'19.499"N	80°47'53.481"W	9395.58	334.114	1.28	-0.17	1.27	
16420.00	90.180	334.320	6690.48	9465.78	8538.55	-4142.99	1697422.20	14291492.13	39°21'20.346"N	80°47'54.002"W	9490.58	334.117	0.13	0.00	-0.13	
16514.00	90.280	334.280	6690.11	9559.55	8623.25	-4183.76	1697381.45	14291576.79	39°21'21.184"N	80°47'54.518"W	9584.58	334.119	0.11	0.11	-0.04	
16609.00	90.310	333.990	6689.62	9654.31	8708.73	-4225.20	1697340.02	14291662.24	39°21'22.030"N	80°47'55.044"W	9679.58	334.119	0.31	0.03	-0.31	
16704.00	90.370	334.140	6689.05	9749.05	8794.16	-4266.75	1697298.49	14291747.64	39°21'22.875"N	80°47'55.570"W	9774.58	334.118	0.17	0.06	0.16	
16798.00	90.310	335.350	6688.50	9842.87	8879.17	-4306.85	1697258.41	14291832.62	39°21'23.717"N	80°47'56.078"W	9868.57	334.124	1.29	-0.06	1.29	
16892.00	90.340	336.820	6687.96	9936.80	8965.10	-4344.95	1697220.32	14291918.51	39°21'24.567"N	80°47'56.561"W	9962.51	334.143	1.56	0.03	1.56	
16972.00	90.310	337.430	6687.51	10016.78	9038.80	-4376.05	1697189.23	14291992.19	39°21'25.296"N	80°47'56.955"W	10042.40	334.166	0.76	-0.04	0.76	
16997.00	90.310	337.430	6687.37	10041.78	9061.89	-4385.65	1697179.64	14292015.26	39°21'25.524"N	80°47'57.076"W	10067.36	334.175	0.00	0.00	0.00	Projected MD @ TD: 16997



Actual Wellpath Report

Taunus Unit 1H AWP Proj: 16997'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Doddridge Co., WV	Well	Taunus Unit 1H
Field	Doddridge	Wellbore	Taunus Unit 1H AWB
Facility	Strickling Pad		

HOLE & CASING SECTIONS - Ref Wellbore: Taunus Unit 1H AWB Ref Wellpath: Taunus Unit 1H AWP Proj: 16997'										
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	End N/S [ft]	Start E/W [ft]	End E/W [ft]	End EW [ft]
20in Conductor	24.50	104.50	80.00	24.50	104.50	0.00	0.12	0.00	0.00	-0.02
17.5in Open Hole	104.50	370.30	265.80	104.50	370.30	0.12	0.71	-0.02	-0.02	0.25
13.375in Casing Surface	24.50	370.30	345.80	24.50	370.30	0.00	0.71	0.00	0.00	0.25
12.25in Open Hole	370.30	2563.40	2193.10	370.30	2563.32	0.71	10.81	0.25	0.25	4.20
9.625in Casing Intermediate	24.50	2563.40	2538.90	24.50	2563.32	0.00	10.81	0.00	0.00	4.20
8.75in Open Hole	2563.40	7015.50	4452.10	2563.32	6690.21	10.81	-174.90	4.20	4.20	-663.29
8.5in Open Hole	7015.50	16997.00	9981.50	6690.21	6687.37	-174.90	9061.89	-663.29	-663.29	-4385.65
5.5in Casing Production	24.50	16997.00	16972.50	24.50	6687.37	0.00	9061.89	0.00	0.00	-4385.65

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Taunus Unit 1H BHL - Rev-2	6728.00	9079.64	-4342.48	1697222.79	14292033.01	39°21'25.699"N	80°47'56.526"W	point
Taunus Unit 1H LP - Rev-1	6728.00	29.01	-744.45	1700819.39	14282985.97	39°19'56.164"N	80°47'10.993"W	point

WELLPATH COMPOSITION - Ref Wellbore: Taunus Unit 1H AWB Ref Wellpath: Taunus Unit 1H AWP Proj: 16997'			
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment
24.50	334.50	Gyrodatta standard - Drop gyro or Multi-shot	01 Gyrodatta MS Gyro <17-1/2">(100'-325')
334.50	688.50	Gyrodatta standard - Drop gyro or Multi-shot	02 Gyrodatta MS Gyro <12-1/4">(325')(408'-679')
688.50	2478.50	ISCVSA MWD, Rev. 4 (Standard)	03 WFT EM <12-1/4">(679')(759'-2469')
2478.50	6916.50	ISCVSA MWD, Rev. 4 (Standard)	04 WFT EM <8-3/4">(2469')(2589'-6907')
6916.50	16972.00	BHI AutoTrak Curve (Short)	05 BH AT Curve <8-1/2"> (6916.50')(6967'-16972')
16972.00	16997.00	Blind Drilling (std)	Projection to bit



Actual Wellpath Report

Taunus Unit 1H AWP Proj: 16997'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Slot	Slot #08	
ANTERO RESOURCES CORPORATION	Well	Taunus Unit 1H	
Doddridge Co., WV	Wellbore	Taunus Unit 1H AWB	
Doddridge			
Strickling Pad			

COMMENTS

Wellpath general comments
 API: 47-017-06840-0000
 BH Job #: 9141304
 Rig: Frontier 22
 Duration: 05/01/18 - 05/04/18
 Gyrodatta MS Gyro <17-1/2">(100'-325')
 Gyrodatta MS Gyro <12-1/4">(325')(408'-679')
 WFT EM <12-1/4">(679')(759'-2469')
 WFT EM <8-3/4">(2469')(2589'-6907')
 Burket: 6848'MD / 6647'TVD
 Tully: 6905'MD / 6712'TVD
 BH AT Curve <8-1/2"> (6916.50')(6967'-16972)
 Hamilton: 6980'MD / 6677'TVD
 POE Hamilton: 7014'MD / 6690'TVD
 Projected MD @ TD: 16997'

02/15/2019