



Actual Wellpath Report
 Pierson Unit 2H AWP Proj: 16931'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Tyler County, WV	Well	Pierson Unit 2H
Field	Tyler	Wellbore	Pierson Unit 2H AWB
Facility	Dawson Pad		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect@ 5.1
North Reference	Grid	User	McCreth
Scale	0.999601	Report Generated	5/7/2018 at 1:06:12 PM
Convergence at slot	0.08° East	Database/Source file	WA_MPL_EASTERNUS_Defn\Pierson_Unit_2H_AWP_Proj_16931_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
Slot Location	North(ft)	East(ft)	Easting(US ft)	Northing(US ft)	Latitude	Longitude
Slot Location	13.14	-14.15	1676035.58	14300605.65	39°22'50.840"N	80°52'26.210"W
Facility Reference Pt			1676049.73	14300592.52	39°22'50.710"N	80°52'26.030"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.301"W

WELLPATH DATUM			
Calculation method	Minimum curvature		Patterson 342 (RKB) to Facility Vertical Datum
Horizontal Reference Pt	Slot		Patterson 342 (RKB) to Mean Sea Level
Vertical Reference Pt	Patterson 342 (RKB)		Patterson 342 (RKB) to Ground Level at Slot (Slot #02)
MD Reference Pt	Patterson 342 (RKB)		Section Origin
Field Vertical Reference	Mean Sea Level		Section Azimuth
			340.05°

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REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #02
Operator	ANTERO RESOURCES CORPORATION	Well	Pierson Unit 2H
Area	Tyler County, WV	Wellbore	Pierson Unit 2H AWB
Field	Tyler		
Facility	Dawson Pad		

WELLPATH DATA (200 stations) † = Interpolated/Extrapolated station																
MD	Inclination	Azimuth	TVD	Vert Sec	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Built Rate	Turn Rate	Comments
ft/l	°	°	ft/l	ft/l	ft/l	ft/l	US ft	US ft			ft/l	°	ft/100ft	ft/100ft	ft/100ft	
0.00†	0.000	244.120	0.00	0.00	0.00	0.00	1676035.58	14300605.65	39°22'50.840"N	80°52'26.210"W	0.00	0.000	0.00	0.00	0.00	
25.00	0.000	244.120	25.00	0.00	0.00	0.00	1676035.58	14300605.65	39°22'50.840"N	80°52'26.210"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.170	244.120	100.00	-0.01	-0.05	-0.10	1676035.48	14300605.60	39°22'50.840"N	80°52'26.211"W	0.11	244.120	0.23	0.23	-154.51	Gyrodata MS Gyro <17-1/2">(100-542)
200.00	0.030	315.680	200.00	0.00	-0.09	-0.25	1676035.33	14300605.56	39°22'50.839"N	80°52'26.213"W	0.27	249.417	0.16	-0.14	71.56	
300.00	0.110	53.910	300.00	0.05	-0.02	-0.19	1676035.39	14300605.63	39°22'50.840"N	80°52'26.212"W	0.19	264.273	0.12	0.08	98.23	
400.00	0.010	80.020	400.00	0.07	-0.04	-0.11	1676035.47	14300605.69	39°22'50.840"N	80°52'26.211"W	0.11	290.004	0.10	-0.10	26.11	
500.00	0.260	89.000	500.00	0.00	0.04	0.13	1676035.71	14300605.69	39°22'50.840"N	80°52'26.208"W	0.14	71.084	0.25	0.25	8.98	
542.00	0.240	91.410	542.00	-0.07	0.04	0.31	1676035.89	14300605.69	39°22'50.840"N	80°52'26.206"W	0.32	82.030	0.05	-0.05	5.74	
624.00	0.240	146.360	624.00	-0.29	-0.10	0.58	1676036.16	14300605.55	39°22'50.839"N	80°52'26.203"W	0.59	100.133	0.27	0.00	67.01	Gyrodata MS Gyro <12-1/4">(542)(624-1080)
715.00	0.450	160.060	715.00	-0.84	-0.60	0.81	1676036.39	14300605.05	39°22'50.834"N	80°52'26.200"W	1.00	126.559	0.25	0.23	15.05	
805.00	1.140	203.020	804.99	-1.85	-1.75	0.58	1676036.16	14300603.90	39°22'50.823"N	80°52'26.203"W	1.85	161.796	0.96	0.77	47.73	
896.00	2.430	217.450	895.94	-3.55	-4.12	-0.95	1676034.63	14300597.72	39°22'50.762"N	80°52'26.222"W	4.23	192.989	1.49	1.42	15.86	
986.00	4.220	225.920	985.79	-5.93	-7.94	-4.49	1676031.09	14300587.53	39°22'50.789"N	80°52'26.267"W	9.12	209.492	2.06	1.99	9.41	
1080.00	6.300	234.820	1079.39	-8.70	-13.32	-11.19	1676024.39	14300582.34	39°22'50.709"N	80°52'26.353"W	17.39	220.043	2.37	2.21	9.47	
1142.00	7.770	235.810	1140.92	-10.62	-17.63	-17.44	1676018.15	14300588.03	39°22'50.666"N	80°52'26.432"W	24.80	224.684	2.38	2.37	1.60	Directional ONE MWD <12-1/4">(1080)(1142-2561)
1236.00	9.590	232.640	1233.84	-14.53	-25.95	-28.92	1676006.67	14300579.71	39°22'50.584"N	80°52'26.579"W	38.86	228.092	2.00	1.94	-3.37	
1330.00	11.870	230.650	1326.19	-20.08	-36.84	-42.62	1675992.98	14300568.83	39°22'50.477"N	80°52'26.753"W	56.33	229.163	2.46	2.43	-2.12	
1425.00	13.570	227.690	1418.86	-27.57	-50.54	-58.42	1675977.19	14300555.14	39°22'50.341"N	80°52'26.955"W	77.24	229.138	1.92	1.79	-3.12	
1519.00	15.250	219.870	1509.90	-37.98	-67.45	-74.50	1675961.11	14300538.23	39°22'50.174"N	80°52'27.160"W	100.50	227.844	2.73	1.79	-8.32	
1614.00	15.860	211.280	1601.44	-52.39	-88.14	-89.25	1675946.36	14300517.55	39°22'49.970"N	80°52'27.348"W	125.43	225.361	2.51	0.64	-9.04	
1708.00	16.970	207.650	1691.61	-69.69	-111.27	-102.29	1675933.33	14300494.43	39°22'49.742"N	80°52'27.515"W	151.14	222.593	1.61	1.18	-3.86	
1802.00	17.320	207.910	1781.43	-88.33	-135.78	-115.20	1675920.42	14300469.92	39°22'49.500"N	80°52'27.680"W	178.07	220.313	0.38	0.37	0.28	
1897.00	16.570	205.570	1872.31	-107.31	-160.50	-127.67	1675907.96	14300445.22	39°22'49.256"N	80°52'27.839"W	205.08	218.501	1.07	-0.79	-2.46	
1991.00	17.420	212.450	1962.21	-125.28	-184.47	-141.01	1675894.63	14300421.26	39°22'49.019"N	80°52'28.009"W	232.19	217.395	2.32	0.90	7.32	
2085.00	17.130	218.420	2051.98	-141.13	-207.19	-157.16	1675878.48	14300388.55	39°22'48.784"N	80°52'28.215"W	260.05	217.182	1.91	-0.31	6.35	
2179.00	16.450	220.740	2141.97	-154.91	-228.12	-174.45	1675861.20	14300367.62	39°22'48.588"N	80°52'28.436"W	287.18	217.406	1.02	-0.72	2.47	
2273.00	15.120	214.720	2232.43	-168.51	-248.28	-190.12	1675845.54	14300357.47	39°22'48.389"N	80°52'28.636"W	312.71	217.443	2.24	-1.41	-6.40	
2368.00	15.370	216.520	2324.09	-182.63	-268.58	-204.67	1675830.99	14300337.17	39°22'48.188"N	80°52'28.821"W	337.68	217.309	0.56	0.26	1.89	
2462.00	16.130	226.340	2414.57	-194.77	-287.61	-221.53	1675814.14	14300318.15	39°22'48.000"N	80°52'29.036"W	363.04	217.605	2.94	0.81	10.45	
2561.00	16.300	227.210	2509.63	-205.69	-306.54	-241.68	1675794.00	14300299.23	39°22'47.814"N	80°52'29.293"W	390.26	218.252	0.30	0.17	0.88	

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Operator	ANTERO RESOURCES CORPORATION	Well	Pierson Unit 2H
Area	Tyler County, WV	Wellbore	Pierson Unit 2H AWB
Field	Tyler		
Facility	Dawson Pad		

WELLPATH DATA (200 stations)																	
MD	Inclination	Azimuth	TVD	Vert Sec	North	East	Grid East	Grid North	Latitude	Longitude	Closure	Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(US ft)	(US ft)	(°)	(°)	(ft)	(ft)	(°)	(1/100ft)	(1/100ft)	(1/100ft)	
2656.00	15.040	221.920	2601.11	-216.68	-324.77	-259.70	1675775.99	14300281.01	39°22'47.634"N	80°52'29.523"W	415.84	218.647	2.00	-1.33	-5.57	Directional ONE MWD <8-3/4">(2561\2656-6201)	
2754.00	15.400	221.330	2695.67	-228.92	-344.01	-276.79	1675758.91	14300261.78	39°22'47.444"N	80°52'29.741"W	441.53	218.820	2.40	0.37	-0.60		
2848.00	18.090	221.150	2785.67	-241.98	-364.37	-294.63	1675741.06	14300241.42	39°22'47.243"N	80°52'29.969"W	468.59	218.959	2.86	2.86	-0.19		
2942.00	22.620	219.510	2873.78	-258.22	-389.32	-315.75	1675719.96	14300216.49	39°22'46.997"N	80°52'30.238"W	501.27	219.043	4.86	4.82	-1.74		
3037.00	24.200	214.910	2960.97	-278.72	-419.39	-338.52	1675697.20	14300186.43	39°22'46.700"N	80°52'30.528"W	538.96	218.910	2.54	1.66	-4.84		
3131.00	24.800	215.920	3046.50	-300.87	-451.15	-361.11	1675674.61	14300154.68	39°22'46.386"N	80°52'30.817"W	577.88	218.674	0.78	0.64	1.07		
3225.00	26.840	219.020	3131.12	-322.87	-483.61	-386.04	1675649.69	14300122.23	39°22'46.066"N	80°52'31.135"W	618.79	218.589	2.60	2.17	3.30		
3320.00	28.890	221.700	3215.10	-344.83	-517.41	-414.81	1675620.93	14300088.45	39°22'45.732"N	80°52'31.502"W	663.16	218.719	2.53	2.16	2.82		
3415.00	28.880	222.990	3298.28	-366.16	-551.33	-445.72	1675590.04	14300054.54	39°22'45.397"N	80°52'31.896"W	708.96	218.954	0.66	-0.01	1.36		
3510.00	28.280	218.650	3381.72	-388.33	-585.69	-475.43	1675560.35	14300020.20	39°22'45.058"N	80°52'32.275"W	754.36	219.068	2.27	-0.63	-4.57		
3604.00	26.760	219.810	3465.08	-410.59	-619.34	-502.88	1675532.90	14299986.56	39°22'44.726"N	80°52'32.625"W	797.79	219.076	1.71	-1.62	1.23		
3698.00	25.020	217.010	3549.64	-432.08	-651.47	-528.40	1675507.39	14299954.44	39°22'44.408"N	80°52'32.951"W	838.82	219.045	2.26	-1.85	-2.98		
3792.00	24.110	215.780	3635.14	-453.73	-682.92	-551.59	1675484.21	14299923.00	39°22'44.098"N	80°52'33.246"W	877.86	218.928	1.11	-0.97	-1.31		
3887.00	24.730	214.220	3721.64	-476.29	-715.09	-574.11	1675461.70	14299890.84	39°22'43.780"N	80°52'33.534"W	917.04	218.759	0.94	0.65	-1.64		
3981.00	26.480	216.470	3806.41	-499.40	-748.21	-597.63	1675438.19	14299857.74	39°22'43.453"N	80°52'33.834"W	957.59	218.616	2.13	1.86	2.39		
4075.00	26.630	219.300	3890.49	-521.76	-781.36	-623.43	1675412.40	14299824.60	39°22'43.126"N	80°52'34.163"W	999.60	218.585	1.36	0.16	3.01		
4170.00	26.210	217.020	3975.57	-544.08	-814.59	-649.55	1675386.29	14299791.39	39°22'42.798"N	80°52'34.496"W	1041.86	218.569	1.16	-0.44	-2.40		
4264.00	25.850	219.310	4060.04	-565.87	-847.02	-675.03	1675360.82	14299758.97	39°22'42.478"N	80°52'34.821"W	1083.10	218.553	1.14	-0.38	2.44		
4359.00	28.700	219.160	4144.47	-588.17	-880.74	-702.56	1675335.30	14299725.26	39°22'42.145"N	80°52'35.172"W	1126.63	218.579	3.00	3.00	-0.16		
4453.00	28.770	216.420	4226.90	-612.29	-916.44	-730.24	1675306.63	14299689.57	39°22'41.792"N	80°52'35.526"W	1171.80	218.549	1.40	0.07	-2.91		
4547.00	27.060	217.460	4309.96	-636.34	-951.62	-756.68	1675279.20	14299654.41	39°22'41.445"N	80°52'35.863"W	1215.79	218.490	1.89	-1.82	1.11		
4641.00	25.880	217.970	4394.10	-658.75	-984.77	-782.31	1675253.59	14299621.28	39°22'41.118"N	80°52'36.190"W	1257.68	218.464	1.28	-1.26	0.54		
4736.00	26.150	219.790	4479.48	-680.31	-1017.20	-808.46	1675227.44	14299588.86	39°22'40.798"N	80°52'36.523"W	1299.35	218.477	0.89	0.28	1.92		
4830.00	25.780	220.750	4563.99	-700.75	-1048.60	-838.08	1675200.85	14299555.47	39°22'40.488"N	80°52'36.863"W	1340.48	218.532	0.60	-0.39	1.02		
4925.00	25.320	218.610	4649.70	-721.46	-1080.13	-861.22	1675174.70	14299525.96	39°22'40.176"N	80°52'37.196"W	1381.44	218.567	1.09	-0.48	-2.25		
5019.00	24.050	219.550	4735.11	-741.60	-1110.60	-885.56	1675149.99	14299495.49	39°22'39.875"N	80°52'37.512"W	1420.69	218.580	1.41	-1.35	1.00		
5109.00	24.070	218.950	4817.29	-760.45	-1139.92	-909.18	1675126.77	14299467.09	39°22'39.595"N	80°52'37.808"W	1457.38	218.597	0.27	0.02	-0.67		
5203.00	23.720	219.310	4903.23	-780.02	-1168.55	-933.21	1675102.75	14299437.56	39°22'39.303"N	80°52'38.115"W	1495.46	218.611	0.40	-0.37	0.38		
5297.00	24.660	219.830	4988.98	-799.55	-1198.24	-957.75	1675078.22	14299407.89	39°22'39.010"N	80°52'38.428"W	1533.97	218.635	1.03	1.00	0.55		
5392.00	27.180	220.410	5074.41	-820.26	-1229.99	-984.51	1675051.46	14299376.16	39°22'38.697"N	80°52'38.769"W	1575.48	218.675	2.67	2.65	0.61		

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Operator	ANTERO RESOURCES CORPORATION								
Area	Tyler County, WV								
Field	Tyler								
Facility	Dawson Pad								

WELLPATH DATA (200 stations) † = interpolated/extrapolated station																
MD ft/l	Inclination °	Azimuth °	TVD ft/l	Vert Secl ft/l	North ft/l	East ft/l	Grid East ft/l	Grid North ft/l	Latitude	Longitude	Closure Dist ft/l	Closure Dir °	DLS ft/100ft	Build Rate ft/100ft	Turn Rate ft/100ft	Comments
5486.00	27.360	219.400	5157.97	-841.89	-1263.03	-1012.14	1675023.85	1429934.33	39°22'38.37"N	80°52'39.12"W	1618.54	218.707	0.53	0.19	-1.07	
5580.00	27.270	217.210	5241.49	-864.58	-1236.87	-1038.87	1674997.12	14299309.30	39°22'38.036"N	80°52'39.462"W	1661.66	218.697	1.07	-0.10	-2.33	
5674.00	25.830	218.130	5325.57	-887.09	-1330.13	-1064.54	1674971.47	14299276.05	39°22'37.708"N	80°52'39.790"W	1703.67	218.671	1.59	-1.53	0.98	
5768.00	25.600	217.320	5410.26	-908.90	-1362.39	-1089.50	1674946.52	14299243.81	39°22'37.390"N	80°52'40.108"W	1744.45	218.649	0.45	-0.24	-0.86	
5863.00	24.320	215.590	5496.39	-931.06	-1394.62	-1113.32	1674922.70	14299211.59	39°22'37.071"N	80°52'40.412"W	1784.50	218.600	1.55	-1.35	-1.82	
5957.00	23.200	211.130	5582.43	-953.65	-1426.21	-1134.16	1674901.87	14299180.01	39°22'36.759"N	80°52'40.678"W	1822.20	218.493	2.25	-1.19	-4.74	
6004.00	22.490	212.810	5625.74	-964.91	-1441.69	-1143.82	1674892.22	14299164.53	39°22'36.607"N	80°52'40.801"W	1840.33	218.428	2.05	-1.51	3.57	
6051.00	22.310	218.890	5669.20	-974.96	-1456.19	-1154.29	1674881.75	14299150.04	39°22'36.463"N	80°52'40.935"W	1858.20	218.403	4.94	-0.38	12.94	
6098.00	22.490	225.390	5712.66	-983.33	-1469.45	-1166.30	1674869.75	14299136.79	39°22'36.332"N	80°52'41.088"W	1876.04	218.439	5.28	0.38	13.83	
6145.00	23.150	232.300	5755.99	-989.90	-1481.42	-1180.01	1674856.04	14299124.83	39°22'36.214"N	80°52'41.263"W	1893.94	218.539	5.87	1.40	14.70	
6192.00	24.070	238.900	5799.06	-994.57	-1492.02	-1195.53	1674840.53	14299114.23	39°22'36.110"N	80°52'41.461"W	1911.91	218.705	5.95	1.96	14.04	
6241.00	24.230	240.910	5807.28	-995.22	-1493.87	-1198.71	1674837.35	14299112.38	39°22'36.092"N	80°52'41.501"W	1915.35	218.744	9.31	1.78	22.33	
6244.00	25.090	247.610	5846.36	-997.01	-1501.63	-1214.86	1674816.46	14299102.74	39°22'35.996"N	80°52'41.768"W	1931.52	218.974	6.80	2.00	15.58	BH AT Curve <-8.112>= (6201)(6244(-16906))
6256.00	25.330	249.070	5857.22	-997.16	-1503.52	-1219.61	1674816.46	14299102.74	39°22'35.996"N	80°52'41.768"W	1935.98	219.048	5.55	2.00	12.17	
6303.00	25.890	257.700	5899.62	-995.97	-1509.30	-1239.03	1674797.05	14299096.96	39°22'35.940"N	80°52'42.015"W	1952.74	219.384	8.02	1.19	18.36	
6350.00	26.576	270.780	5941.81	-990.88	-1511.34	-1258.58	1674776.50	14299094.91	39°22'35.920"N	80°52'42.277"W	1967.41	219.809	12.36	1.45	27.83	
6397.00	27.220	283.040	5983.76	-981.30	-1508.77	-1280.58	1674755.51	14299092.48	39°22'35.945"N	80°52'42.544"W	1978.96	220.323	11.86	1.38	26.09	
6444.00	28.750	291.250	6025.28	-967.99	-1502.25	-1301.60	1674734.50	14299104.01	39°22'36.010"N	80°52'42.812"W	1987.69	220.907	8.81	3.26	17.47	
6491.00	30.520	289.290	6066.15	-951.50	-1492.31	-1322.55	1674713.56	14299113.94	39°22'36.109"N	80°52'43.078"W	1994.02	221.549	9.25	3.77	17.11	
6539.00	33.650	308.070	6106.83	-930.97	-1478.13	-1343.67	1674692.45	14299128.11	39°22'36.249"N	80°52'43.347"W	1997.58	222.272	11.69	6.52	18.29	
6554.00†	34.619	310.023	6119.25	-923.76	-1472.83	-1350.20	1674685.92	14299133.41	39°22'36.302"N	80°52'43.430"W	1998.07	222.513	9.75	6.46	13.02	Sycamore @ 6554MD / 6119TVD
6633.00	40.160	318.870	6182.04	-880.51	-1439.16	-1384.20	1674651.94	14299167.07	39°22'36.635"N	80°52'43.862"W	1996.79	223.885	9.75	7.01	11.20	
6727.00	48.830	320.990	6249.03	-818.68	-1388.74	-1428.49	1674609.66	14299245.00	39°22'37.134"N	80°52'44.615"W	1987.45	226.773	10.68	10.31	2.26	
6772.00†	53.468	322.617	6277.25	-785.40	-1361.19	-1448.14	1674588.82	14299277.60	39°22'37.729"N	80°52'44.983"W	1983.16	227.938	10.68	10.35	3.19	Middlesex @ 6772MD / 6277TVD
6821.00	58.546	324.180	6304.64	-746.49	-1328.58	-1472.34	1674553.83	14299294.50	39°22'38.391"N	80°52'45.566"W	1974.02	230.273	2.51	0.28	2.92	
6863.00	58.810	326.950	6354.04	-667.93	-1261.66	-1538.29	1674517.97	14299344.50	39°22'38.730"N	80°52'45.834"W	1968.74	231.432	5.30	0.21	6.19	
6963.00	58.910	329.860	6378.35	-628.54	-1227.40	-1539.29	1674486.91	14299378.74	39°22'38.926"N	80°52'45.969"W	1964.83	232.077	14.77	7.97	14.36	Burket @ 6989MD / 6391TVD
6989.00†	60.983	333.594	6391.37	-606.28	-1207.58	-1549.94	1674466.26	14299415.33	39°22'39.092"N	80°52'46.068"W	1960.76	232.604	14.77	8.32	13.84	
7010.00	62.730	336.500	6401.28	-587.83	-1190.80	-1557.75	1674441.84	14299454.78	39°22'39.482"N	80°52'46.270"W	1949.84	233.809	10.97	9.19	6.62	
7057.00	67.050	339.610	6421.22	-545.32	-1151.33	-1573.63	1674462.58	14299454.78	39°22'39.482"N	80°52'46.270"W	1949.84	233.809	10.97	9.19	6.62	

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Actual Wellpath Report
 Pierson Unit 2H AWP Proj: 16931'
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REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #02
Operator	ANTERO RESOURCES CORPORATION	Well	Pierson Unit 2H
Area	Tyler County, WV	Wellbore	Pierson Unit 2H AWP
Field	Tyler		
Facility	Dawson Pad		

WELLPATH DATA (200 stations) † = Interpolated/extrapolated station																
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
ft	°	°	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft/100ft	ft/100ft	ft/100ft	
7070.00†	68.274	339.898	6426.16	-533.29	-1140.05	-1577.79	1674458.43	14299466.06	39°22'39.594"N	80°52'46.323"W	1946.57	234.150	9.63	9.41	2.21	Tully @ 7070MD / 6426 TVD
7105.00	71.570	340.650	6438.18	-500.43	-1109.11	-1588.88	1674447.34	14299496.99	39°22'39.900"N	80°52'46.463"W	1937.69	235.083	9.63	9.42	2.15	
7152.00	75.340	341.450	6451.56	-455.39	-1060.50	-1603.50	1674432.72	14299539.57	39°22'40.321"N	80°52'46.649"W	1925.79	236.372	8.19	8.02	1.70	
7184.00†	77.106	342.671	6459.18	-424.33	-1036.94	-1613.07	1674423.15	14299569.13	39°22'40.613"N	80°52'46.770"W	1917.61	237.266	6.65	5.52	3.82	POE Marcellus @ 7184MD / 6459 TVD
7198.00	77.880	343.200	6462.21	-410.68	-1023.87	-1617.08	1674419.14	14299582.19	39°22'40.742"N	80°52'46.821"W	1913.97	237.660	6.65	5.53	3.78	
7245.00	81.720	344.880	6470.53	-364.54	-979.41	-1629.80	1674406.44	14299626.64	39°22'41.182"N	80°52'46.982"W	1901.44	238.997	8.90	8.17	3.57	
7292.00	86.700	346.230	6475.27	-318.02	-934.14	-1641.46	1674394.78	14299671.89	39°22'41.630"N	80°52'47.130"W	1888.65	240.356	10.97	10.60	2.87	
7386.00	89.780	345.570	6478.16	-224.56	-843.02	-1664.34	1674371.90	14299762.96	39°22'42.530"N	80°52'47.420"W	1865.67	243.137	3.35	3.28		
7481.00	89.910	342.160	6478.42	-129.79	-751.78	-1690.74	1674345.52	14299854.17	39°22'43.433"N	80°52'47.754"W	1850.34	246.028	3.59	0.14	-3.69	
7575.00	90.060	340.610	6478.44	-35.81	-662.70	-1720.74	1674315.53	14299943.21	39°22'44.313"N	80°52'48.135"W	1843.94	248.937	1.66	0.16	-1.65	
7669.00	90.090	338.560	6478.32	58.18	-574.61	-1753.53	1674282.75	14300031.27	39°22'45.184"N	80°52'48.551"W	1845.28	251.857	2.18	0.03	-2.18	
7764.00	90.030	337.410	6478.12	153.11	-486.54	-1789.14	1674247.16	14300119.31	39°22'46.055"N	80°52'49.003"W	1854.11	254.787	1.21	-0.06	-1.21	
7858.00	90.090	339.200	6478.12	247.07	-399.20	-1823.89	1674212.42	14300206.61	39°22'46.919"N	80°52'49.444"W	1867.06	257.654	1.91	0.06	1.90	
7952.00	90.030	339.670	6478.02	341.06	-311.19	-1856.91	1674179.42	14300294.58	39°22'47.789"N	80°52'49.863"W	1882.80	260.486	0.50	-0.06	0.50	
8046.00	90.090	340.130	6477.92	435.06	-222.92	-1889.21	1674147.13	14300382.82	39°22'48.662"N	80°52'50.273"W	1902.32	263.271	0.49	0.06	0.49	
8140.00	90.150	341.020	6477.73	529.05	-134.27	-1920.47	1674115.88	14300471.44	39°22'49.539"N	80°52'50.670"W	1925.16	266.001	0.95	0.06	0.95	
8234.00	90.150	340.300	6477.48	623.05	-45.57	-1951.60	1674084.76	14300560.10	39°22'50.416"N	80°52'51.064"W	1952.13	268.662	0.77	0.00	-0.77	
8328.00	90.120	340.610	6477.26	717.05	43.01	-1983.05	1674053.33	14300648.64	39°22'51.292"N	80°52'51.463"W	1983.52	271.242	0.33	-0.03	0.33	
8423.00	90.180	342.550	6477.01	812.01	133.14	-2013.07	1674023.32	14300738.74	39°22'52.183"N	80°52'51.844"W	2017.46	273.784	2.04	0.06	2.04	
8517.00	90.220	342.100	6476.68	905.93	222.70	-2041.61	1673994.79	14300828.26	39°22'53.068"N	80°52'52.206"W	2053.72	276.225	0.48	0.04	-0.48	
8611.00	90.060	340.470	6476.45	999.91	311.73	-2071.77	1673964.64	14300917.25	39°22'53.949"N	80°52'52.589"W	2095.09	278.557	1.74	-0.17	-1.73	
8709.00	90.180	339.970	6476.26	1093.91	400.18	-2103.58	1673898.85	14301005.67	39°22'54.823"N	80°52'52.992"W	2141.30	280.771	0.55	0.13	-0.53	
8799.00	90.460	337.780	6475.73	1187.88	487.86	-2137.45	1673898.99	14301093.31	39°22'55.690"N	80°52'53.422"W	2192.42	282.857	2.35	0.30	-2.33	
8893.00	90.740	336.970	6474.75	1281.77	574.62	-2173.61	1673862.84	14301180.04	39°22'56.549"N	80°52'53.881"W	2248.28	284.808	0.91	0.30	-0.86	
8987.00	90.550	338.370	6473.69	1375.68	661.56	-2209.32	1673827.14	14301266.95	39°22'57.408"N	80°52'54.335"W	2306.24	286.670	1.50	-0.20	1.49	
9082.00	90.680	340.860	6472.67	1470.67	750.60	-2242.61	1673753.88	14301355.95	39°22'58.289"N	80°52'54.755"W	2364.70	288.507	2.62	0.14	2.62	
9176.00	90.680	341.650	6471.55	1564.64	839.61	-2272.42	1673733.07	14301444.92	39°22'59.162"N	80°52'55.138"W	2422.75	290.276	0.84	0.00	0.84	
9270.00	90.620	340.190	6470.49	1656.62	928.43	-2303.34	1673703.16	14301533.71	39°23'00.047"N	80°52'55.528"W	2483.42	291.953	1.55	-0.06	-1.55	
9364.00	90.430	338.880	6469.62	1752.61	1016.48	-2336.20	1673700.31	14301621.74	39°23'00.918"N	80°52'55.945"W	2547.76	293.514	1.41	-0.20	-1.39	
9459.00	89.880	337.540	6469.37	1847.56	1104.70	-2371.47	1673665.06	14301709.91	39°23'01.790"N	80°52'56.392"W	2616.15	294.978	1.52	-0.58	-1.41	

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REFERENCE WELLPATH IDENTIFICATION				Slot	Slot #02
Operator	ANTERO RESOURCES CORPORATION			Well	Pierson Unit 2H
Area	Tyler County, WV			Wellbore	Pierson Unit 2H AWP
Field	Tyler				
Facility	Dawson Pad				

WELLPATH DATA (200 stations)																
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DI S	Build Rate	Turn Rate	Comments
ft	°	°	ft	ft	ft	ft	ft	ft			ft	°	ft/100ft	ft/100ft	ft/100ft	
9653.00	89.820	338.320	6469.61	1941.49	1191.82	-2406.78	1673629.76	14301796.99	39°23'02.652"N	80°52'56.841"W	2685.71	296.344	0.83	-0.06	0.83	
9648.00	89.720	340.200	6469.99	2036.48	1280.65	-2440.42	1673586.13	14301885.79	39°23'03.530"N	80°52'57.266"W	2756.04	297.689	1.98	-0.11	1.98	
9743.00	89.630	340.840	6470.53	2131.47	1370.21	-2472.10	1673564.47	14301975.32	39°23'04.416"N	80°52'57.670"W	2826.44	298.998	0.68	-0.09	0.67	
9837.00	89.450	340.340	6471.29	2225.46	1458.87	-2503.34	1673553.24	14302063.93	39°23'05.292"N	80°52'58.066"W	2897.42	300.232	0.57	-0.18	-0.53	
9931.00	89.510	339.730	6472.14	2319.46	1547.22	-2535.44	1673501.16	14302152.25	39°23'06.166"N	80°52'58.473"W	2970.24	301.393	0.65	-0.06	-0.65	
10026.00	89.450	337.240	6473.00	2414.41	1635.59	-2570.27	1673466.34	14302240.58	39°23'07.040"N	80°52'58.915"W	3046.55	302.471	2.62	-0.06	-2.62	
10120.00	89.450	337.660	6473.91	2508.31	1722.39	-2606.32	1673430.30	14302327.35	39°23'07.898"N	80°52'59.373"W	3124.03	303.459	0.45	0.00	0.45	
10214.00	89.420	340.540	6474.83	2602.28	1810.20	-2639.85	1673386.79	14302415.12	39°23'08.766"N	80°52'59.799"W	3200.88	304.439	3.06	-0.03	3.06	
10309.00	89.050	340.940	6476.10	2697.27	1899.87	-2671.18	1673385.47	14302504.76	39°23'10.519"N	80°53'00.196"W	3277.91	305.422	0.57	-0.39	0.42	
10403.00	88.950	336.490	6477.14	2791.20	1987.42	-2705.29	1673331.37	14302592.28	39°23'11.800"N	80°53'00.629"W	3356.85	306.303	4.73	-0.11	-4.73	
10498.00	88.950	336.310	6479.48	2886.00	2074.46	-2743.32	1673293.36	14302679.28	39°23'11.800"N	80°53'01.112"W	3439.36	307.096	0.19	0.00	-0.19	
10592.00	88.950	339.770	6481.21	2979.91	2161.62	-2778.46	1673258.24	14302766.40	39°23'12.241"N	80°53'01.558"W	3520.28	307.883	3.68	0.00	3.68	
10687.00	89.570	343.550	6482.43	3074.84	2251.77	-2808.34	1673228.36	14302856.51	39°23'13.133"N	80°53'01.937"W	3599.62	308.723	4.03	0.65	3.98	
10781.00	90.090	344.460	6482.71	3168.62	2342.12	-2834.24	1673202.47	14302946.84	39°23'14.026"N	80°53'02.266"W	3676.75	309.569	1.11	0.59	0.97	
10875.06	89.690	344.720	6482.89	3262.38	2432.80	-2859.24	1673177.49	14303037.48	39°23'14.923"N	80°53'02.583"W	3754.17	310.393	0.51	-0.43	0.28	
10970.00	90.150	338.940	6483.03	3357.24	2522.97	-2888.83	1673147.91	14303127.61	39°23'15.814"N	80°53'02.958"W	3835.46	311.132	6.11	0.19	-6.09	
11065.00	90.400	339.450	6482.57	3452.23	2611.77	-2922.57	1673114.18	14303216.38	39°23'16.692"N	80°53'03.386"W	3919.54	311.786	0.60	0.26	0.54	
11159.00	90.220	338.080	6482.06	3546.20	2699.39	-2956.62	1673080.15	14303303.96	39°23'17.559"N	80°53'03.819"W	4003.53	312.396	1.47	-0.19	-1.46	
11254.00	90.400	338.840	6481.55	3641.16	2787.75	-2991.75	1673045.28	14303392.29	39°23'18.432"N	80°53'04.261"W	4089.08	312.981	0.82	0.19	0.80	
11348.00	90.400	340.300	6480.89	3735.15	2875.83	-3024.31	1673012.49	14303480.33	39°23'19.303"N	80°53'04.678"W	4173.35	313.559	1.55	0.00	1.55	
11442.00	90.340	337.990	6480.28	3829.13	2963.67	-3057.77	1672979.04	14303568.13	39°23'20.172"N	80°53'05.103"W	4258.32	314.105	2.46	-0.06	-2.46	
11537.00	90.310	337.040	6479.75	3924.04	3051.44	-3094.10	1672942.72	14303655.87	39°23'21.040"N	80°53'05.564"W	4345.66	314.602	1.00	-0.03	-1.00	
11631.00	90.460	335.410	6479.11	4017.82	3137.46	-3131.99	1672904.84	14303741.86	39°23'21.891"N	80°53'06.044"W	4433.18	315.050	1.74	0.16	-1.73	
11726.00	90.280	337.760	6478.50	4112.64	3224.63	-3169.74	1672867.11	14303828.99	39°23'22.753"N	80°53'06.524"W	4521.67	315.492	2.48	-0.19	2.47	
11820.00	90.340	340.740	6477.99	4206.62	3312.52	-3203.04	1672833.82	14303916.85	39°23'23.622"N	80°53'06.947"W	4607.85	315.963	3.17	0.06	3.17	
11915.00	90.250	346.150	6477.50	4301.41	3403.55	-3230.10	1672806.08	14304007.84	39°23'24.522"N	80°53'07.290"W	4692.30	316.498	5.70	-0.09	5.69	
12009.00	90.520	347.150	6476.87	4394.79	3495.01	-3251.80	1672785.08	14304099.26	39°23'25.426"N	80°53'07.565"W	4773.81	317.064	1.10	0.29	1.06	
12104.00	90.520	344.290	6476.01	4489.31	3587.06	-3275.23	1672761.66	14304191.27	39°23'26.336"N	80°53'07.862"W	4857.38	317.602	3.01	0.00	-3.01	
12198.00	90.490	339.890	6475.18	4583.22	3676.48	-3304.13	1672732.77	14304280.65	39°23'27.220"N	80°53'08.229"W	4943.05	318.053	4.68	-0.03	-4.68	
12292.00	90.250	340.470	6474.57	4677.22	3764.91	-3336.00	1672700.92	14304369.05	39°23'28.095"N	80°53'08.633"W	5030.25	318.457	0.67	-0.26	0.62	

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REFERENCE WELLPATH IDENTIFICATION				Slot	Slot #02
Operator	ANTERO RESOURCES CORPORATION			Well	Pierson Unit 2H
Area	Tyler County, WV			Wellbore	Pierson Unit 2H AWB
Field	Tyler				
Facility	Dawson Pad				

WELLPATH DATA (200 stations)																
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
ft	°	°	ft	ft	ft	ft	ft	ft			ft	°	ft/100ft	ft/100ft	ft/100ft	
12387.00	90.280	341.770	6474.13	4772.20	3854.79	-3366.74	1672610.19	14304458.90	39°23'28.983"N	80°53'09.023"W	5118.04	318.866	1.37	0.03	1.37	
12481.00	90.370	341.080	6473.60	4866.17	3943.89	-3396.68	1672640.26	14304547.96	39°23'29.864"N	80°53'09.403"W	5204.97	319.263	0.74	0.10	-0.73	
12575.00	90.460	339.450	6472.92	4960.17	4032.37	-3428.42	1672608.53	14304636.40	39°23'30.739"N	80°53'09.806"W	5292.83	319.628	1.74	0.10	-1.73	
12669.00	90.520	337.000	6472.11	5054.11	4119.65	-3463.29	1672573.68	14304723.65	39°23'31.602"N	80°53'10.249"W	5382.00	319.947	2.61	0.06	-2.61	
12763.00	90.220	337.310	6471.51	5147.98	4206.27	-3499.78	1672537.20	14304810.24	39°23'32.469"N	80°53'10.712"W	5471.86	320.238	0.46	-0.32	0.33	
12858.00	90.180	337.520	6471.18	5242.88	4293.99	-3536.27	1672500.73	14304897.92	39°23'33.326"N	80°53'11.176"W	5562.69	320.527	0.23	-0.04	0.22	
12952.00	90.250	337.700	6470.82	5336.80	4380.90	-3572.07	1672464.94	14304984.80	39°23'34.186"N	80°53'11.630"W	5652.61	320.807	0.21	0.07	0.19	
13046.00	90.180	339.680	6470.47	5430.77	4468.47	-3606.23	1672430.79	14305072.33	39°23'35.052"N	80°53'12.064"W	5742.14	321.095	2.11	-0.07	2.11	
13140.00	90.150	342.080	6470.20	5524.75	4557.28	-3637.02	1672400.02	14305161.10	39°23'35.930"N	80°53'12.455"W	5830.67	321.408	2.55	-0.03	-2.55	
13235.00	90.280	339.820	6469.84	5619.73	4647.07	-3668.02	1672369.03	14305250.86	39°23'36.818"N	80°53'12.848"W	5920.27	321.715	2.38	0.14	-2.38	
13329.00	90.250	337.040	6469.41	5713.68	4734.48	-3702.58	1672334.48	14305338.23	39°23'37.682"N	80°53'13.287"W	6010.35	321.973	2.96	-0.03	-2.96	
13423.00	90.400	337.240	6468.88	5807.56	4821.09	-3739.09	1672297.98	14305424.81	39°23'38.538"N	80°53'13.751"W	6101.13	322.204	0.27	0.16	0.21	
13518.00	90.370	339.420	6468.24	5902.51	4909.37	-3774.17	1672262.92	14305513.05	39°23'39.411"N	80°53'14.196"W	6192.44	322.448	2.29	-0.03	2.29	
13612.00	90.550	340.470	6467.48	5996.50	4997.67	-3806.40	1672230.70	14305601.31	39°23'40.284"N	80°53'14.605"W	6282.15	322.706	1.13	0.19	1.12	
13707.00	90.580	343.420	6466.54	6091.44	5087.97	-3835.84	1672201.27	14305689.59	39°23'41.177"N	80°53'14.976"W	6371.90	322.987	3.11	0.03	3.11	
13801.00	90.460	345.300	6465.69	6185.16	5178.49	-3861.18	1672175.94	14305782.06	39°23'42.072"N	80°53'15.300"W	6459.52	323.291	2.00	-0.13	2.00	
13896.00	90.400	344.860	6464.98	6279.79	5270.28	-3885.64	1672151.49	14305873.82	39°23'42.980"N	80°53'15.610"W	6547.83	323.600	0.47	-0.06	-0.46	
13991.00	90.370	342.210	6464.34	6374.61	5361.37	-3912.56	1672124.58	14305964.88	39°23'43.880"N	80°53'15.952"W	6637.20	323.879	2.79	-0.03	-2.79	
14085.00	90.520	339.140	6463.61	6468.59	5450.06	-3943.67	1672093.49	14306053.53	39°23'44.757"N	80°53'16.346"W	6727.24	324.110	3.27	0.16	-3.27	
14179.00	90.430	338.020	6462.83	6562.55	5537.57	-3977.99	1672059.18	14306141.00	39°23'45.623"N	80°53'16.782"W	6818.29	324.308	1.20	-0.10	-1.19	
14274.00	90.620	336.160	6461.96	6657.42	5625.07	-4014.97	1672022.22	14306228.46	39°23'46.488"N	80°53'17.252"W	6910.96	324.482	1.97	0.20	-1.96	
14368.00	90.490	335.890	6461.05	6751.18	5710.95	-4053.17	1671984.04	14306314.31	39°23'47.337"N	80°53'17.737"W	7003.08	324.636	0.32	-0.14	-0.28	
14463.00	90.460	336.440	6460.26	6845.96	5797.85	-4091.56	1671945.66	14306401.17	39°23'48.197"N	80°53'18.225"W	7096.18	324.789	0.58	-0.03	0.58	
14557.00	90.400	338.240	6459.56	6939.85	5884.88	-4127.77	1671909.47	14306487.88	39°23'49.054"N	80°53'18.685"W	7187.96	324.952	1.92	-0.06	1.91	
14651.00	90.400	341.700	6458.90	7033.83	5972.88	-4159.96	1671877.29	14306576.14	39°23'49.927"N	80°53'19.093"W	7278.78	325.144	3.68	0.00	3.68	
14746.00	90.340	342.170	6458.29	7128.78	6063.20	-4189.98	1671847.84	14306666.42	39°23'50.820"N	80°53'19.467"W	7369.77	325.357	0.50	-0.06	-0.49	
14840.00	90.280	339.880	6457.78	7222.76	6152.08	-4219.98	1671817.29	14306755.27	39°23'51.699"N	80°53'19.855"W	7460.32	325.552	2.44	-0.06	-2.44	
14934.00	90.520	339.050	6457.12	7316.75	6240.11	-4252.95	1671784.33	14306843.26	39°23'52.570"N	80°53'20.274"W	7551.59	325.724	0.92	0.26	-0.88	
15029.00	90.520	339.700	6456.26	7411.74	6329.01	-4286.41	1671750.88	14306932.13	39°23'53.449"N	80°53'20.699"W	7643.93	325.892	0.68	0.00	0.68	
15124.00	90.340	341.130	6455.55	7506.73	6418.51	-4318.26	1671719.05	14307021.59	39°23'54.334"N	80°53'21.103"W	7735.93	326.068	1.52	-0.19	1.51	

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REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #02
Operator	ANTERO RESOURCES CORPORATION	Well	Pierson Unit 2H
Area	Tyler County, WV	Wellbore	Pierson Unit 2H AWB
Field	Tyler		
Facility	Dawson Pad		

WELLPATH DATA (200 stations)																
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
ft	°	°	ft	ft	ft	ft	US ft	US ft			ft	°	ft/100ft	ft/100ft	ft/100ft	
15219.00	90.490	340.020	6454.86	7601.72	6508.10	-4349.85	1671687.47	14307111.74	39°23'55.220"N	80°53'21.504"W	7827.93	326.242	1.18	0.16	-1.17	
15314.00	90.370	340.120	6454.15	7696.72	6597.41	-4382.23	1671655.10	14307200.42	39°23'56.103"N	80°53'21.915"W	7920.21	326.406	0.16	-0.13	0.11	
15409.00	90.340	339.020	6453.56	7791.71	6686.43	-4415.39	1671621.96	14307289.40	39°23'56.983"N	80°53'22.336"W	8012.74	326.561	1.16	-0.03	-1.16	
15504.00	90.520	340.470	6452.84	7886.71	6775.55	-4448.28	1671589.08	14307378.49	39°23'57.864"N	80°53'22.753"W	8105.26	326.714	1.54	0.19	1.53	
15599.00	90.400	344.290	6452.09	7980.61	6865.12	-4476.73	1671560.65	14307468.02	39°23'58.750"N	80°53'23.114"W	8195.79	326.892	4.07	-0.13	4.06	
15693.00	90.580	343.920	6451.28	8075.37	6956.48	-4502.74	1671534.64	14307559.35	39°23'59.653"N	80°53'23.444"W	8286.58	327.086	0.43	0.19	-0.39	
15787.00	90.430	340.240	6450.45	8169.29	7045.91	-4531.66	1671505.74	14307648.73	39°24'00.537"N	80°53'23.811"W	8377.39	327.252	3.92	-0.16	-3.91	
15881.00	90.460	337.870	6449.72	8263.26	7133.69	-4565.26	1671472.15	14307736.48	39°24'01.405"N	80°53'24.238"W	8469.42	327.382	2.52	0.03	-2.52	
15976.00	90.400	339.140	6449.00	8358.23	7222.07	-4600.07	1671437.36	14307824.83	39°24'02.279"N	80°53'24.680"W	8562.65	327.505	1.34	-0.06	1.34	
16070.00	90.400	339.980	6448.35	8452.22	7310.15	-4632.89	1671404.54	14307912.87	39°24'03.150"N	80°53'25.097"W	8654.60	327.635	0.89	0.00	0.89	
16164.00	90.430	340.250	6447.67	8546.22	7398.55	-4664.86	1671372.58	14308001.23	39°24'04.024"N	80°53'25.503"W	8746.40	327.768	0.29	0.03	0.29	
16259.00	90.370	340.540	6447.00	8641.21	7488.04	-4696.74	1671340.72	14308090.69	39°24'04.909"N	80°53'25.907"W	8839.12	327.903	0.31	-0.06	0.31	
16353.00	90.370	341.550	6446.40	8735.19	7576.94	-4727.27	1671310.20	14308179.55	39°24'05.788"N	80°53'26.295"W	8930.68	328.040	1.07	0.00	1.07	
16447.00	90.430	341.810	6445.74	8829.15	7666.17	-4756.82	1671280.67	14308268.75	39°24'06.670"N	80°53'26.670"W	9022.05	328.181	0.28	0.06	0.28	
16541.00	90.460	340.700	6445.01	8923.13	7755.18	-4787.02	1671250.47	14308357.72	39°24'07.550"N	80°53'27.053"W	9113.64	328.314	1.18	0.03	-1.18	
16635.00	90.430	342.720	6444.28	9017.08	7844.42	-4816.52	1671220.99	14308446.93	39°24'08.433"N	80°53'27.428"W	9205.10	328.450	2.15	-0.03	2.15	
16730.00	90.370	345.630	6443.62	9111.82	7935.81	-4842.42	1671195.10	14308538.28	39°24'09.336"N	80°53'27.756"W	9296.57	328.608	3.06	-0.06	3.06	
16824.00	90.460	343.130	6442.94	9205.55	8026.33	-4867.73	1671169.80	14308628.76	39°24'10.231"N	80°53'28.077"W	9387.05	328.764	2.66	0.10	-2.66	
16906.00	90.490	340.940	6442.26	9287.49	8104.32	-4893.02	1671144.52	14308706.73	39°24'11.002"N	80°53'28.398"W	9466.87	328.878	2.67	0.04	-2.67	
16931.00	90.490	340.940	6442.04	9312.48	8127.95	-4901.18	1671136.36	14308730.35	39°24'11.236"N	80°53'28.502"W	9491.32	328.910	0.00	0.00	0.00	Protection to Bit @ 16931 M/D / 6442 TVD

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Tyler County, WV	Well	Pierson Unit 2H
Field	Tyler	Wellbore	Pierson Unit 2H AWB
Facility	Dawson Pad		

HOLE & CASING SECTIONS - Ref Wellbore: Pierson Unit 2H AWB Ref Wellpath: Pierson Unit 2H AWP Proj: 16931'									
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S	Start EW [ft]	End N/S	End EW [ft]
20in Conductor	25.00	105.00	80.00	25.00	105.00	0.00	0.00	-0.05	-0.11
17.5in Open Hole	105.00	582.40	477.40	105.00	582.40	-0.05	-0.11	0.01	0.46
13.375in Casing Surface	25.00	582.40	557.40	25.00	582.40	0.00	0.00	0.01	0.46
12.25in Open Hole	582.40	2617.70	2035.30	582.40	2564.16	0.01	0.46	-317.40	-252.80
9.625in Casing Intermediate	25.00	2617.70	2592.70	25.00	2564.16	0.00	0.00	-317.40	-252.80

TARGETS									
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape	
Pierson Unit 2H POE - Rev-1	6450.00	-1060.08	-1590.22	1674446.00	14299546.00	39°22'40.384"N	80°52'46.479"W	point	
Pierson Unit 2H BHL - Rev-1	6472.00	811.95	-4919.35	1671118.20	14308714.35	39°24'11.078"N	80°53'28.734"W	point	
Pierson Unit 2H LP - Rev-1	6472.00	-892.90	-1650.90	1674385.34	14299713.11	39°22'42.037"N	80°52'47.249"W	point	

WELLPATH COMPOSITION - Ref Wellbore: Pierson Unit 2H AWB Ref Wellpath: Pierson Unit 2H AWP Proj: 16931'				Log Name/Comment	Wellbore
Start MD [ft]	End MD [ft]	Positional Uncertainty Model			
25.00	542.00	Gyrodata standard - Drop gyro or Multi-shot		01 Gyrodata MS Gyro <17-1/2">(100'-542')	Pierson Unit 2H AWB
542.00	1080.00	Gyrodata standard - Drop gyro or Multi-shot		02 Gyrodata MS Gyro <12-1/4">(542')(624'-1080')	Pierson Unit 2H AWB
1080.00	2561.00	ISCWSA MWD, Rev. 4 (Standard)		03 Directional ONE MWD <12-1/4">(1080')(1442'-2561')	Pierson Unit 2H AWB
2561.00	6201.00	ISCWSA MWD, Rev. 4 (Standard)		04 Directional ONE MWD <8-3/4">(2561')(2656'-6201')	Pierson Unit 2H AWB
6201.00	16906.00	BHL AutoTrak Curve (Short)		05 BH AT Curve <8-1/2">(6201')(6244'-16906')	Pierson Unit 2H AWB
16906.00	16931.00	Blind Drilling (std)		Projection to bit	Pierson Unit 2H AWB

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Tyler County, WV	Well	Pierson Unit 2H
Field	Tyler	Wellbore	Pierson Unit 2H AWB
Facility	Dawson Pad		

COMMENTS	
Wellpath general comments	
API: 47-095-02414-0000	
BH Job #: 8915359	
Rig: Patterson 342	
Duration: 12/14/17 - 12/17/17	
Gyrodatta MS Gyro <17-1/2">(100-542)	
Gyrodatta MS Gyro <12-1/4">(542)(624-1080)	
Directional ONE MWD <12-1/4">(1080)(142-2561)	
Directional ONE MWD <8-3/4">(2561)(256-6201)	
BH AT Curve <8-1/2"> (6201)(624-16906)	
Sycamore @ 6554MD / 6119TVD	
Middlesex @ 6772MD / 6277TVD	
Burket @ 6989MD / 6391TVD	
Tully @ 7070MD / 6426TVD	
POE Marcellus @ 7184MD / 6459TVD	
Projection to Bit @ 16931MD / 6442TVD	

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