

# ANTERO RESOURCES CORPORATION

Location: Tyler County, WV  
 Field: Tyler  
 Facility: Dawson Pad

Slot: Slot #01

Well: Pierson Unit 1H

Wellbore: Pierson Unit 1H PWB



**BAKER HUGHES**  
 a GE company

API: 47-095-02413-0000

BHI Job #: 8886740

Rig: Patterson 342

Duration: 12/08/2017-12/11/2017

Photo reference wellpath is Pierson Unit 1H PWB Rev-A-0	Grid System: NAD27 / UTM Zone 17 North, US feet.
True vertical depths are referenced to Patterson 342 (RKB)	North Reference: Grid north
Measured depths are referenced to Patterson 342 (RKB)	Scale: True distance
Patterson 342 (RKB) to Mean Sea Level: 1035 feet	Depths are in feet
Mean Sea Level to Ground level (At Slot: Slot #01): -1010 feet	Coordinates are in feet referenced to Slot
Coordinates are in feet referenced to Slot	Database: WA, MPL, EasternUS, Derin



Gyrodata SS Gyro <17-1/2"> (100'-549') : 0.22° Inc, 100.00ft MD, 100.00ft MD, 100.00ft TVD, -0.14ft VS

Gyrodata SS Gyro <12-1/4"> (549')(628'-718') : 0.11° Inc, 628.00ft MD, 628.00ft TVD, -1.77ft VS

Directional ONE MWD <12-1/4"> (718')(863'-2595') : 5.91° Inc, 863.00ft MD, 862.50ft TVD, -8.04ft VS

Location Information			
Facility Name	Grid East (US ft)	Grid North (US ft)	Longitude
Dawson Pad	1676048.728	1430052.517	80°52'26.030"W
Slot	Local N (ft)	Local E (ft)	Grid North (US ft)
Slot #01	20.21	-21.23	14300612.720
Comment	Pierson Unit 1H		80°52'26.300"W
Patterson 342 (RKB) to Ground level (At Slot: Slot #01)			25ft
Mean Sea Level to Ground level (At Slot: Slot #01)			-1010ft
Patterson 342 (RKB) to Mean Sea Level			1035ft

Directional ONE MWD <8-3/4"> (2595')(2751'-6622') : 17.69° Inc, 2751.00ft MD, 2668.91ft TVD, -299.55ft VS

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #01	Pierson Unit 1H	Pierson Unit 1H AWB	Pierson Unit 1H AWB Plot 17728
Slot #01	Pierson Unit 1H	Pierson Unit 1H PWB	Pierson Unit 1H PWB Rev-A-0

Well Profile Data					
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	VS (ft)
Tie On	6622.00	31.610	278.620	5842.64	-1447.70
Proj. To Bottom	6701.00	30.500	290.000	5910.38	-1424.88
End of 3D Arc	6929.64	34.717	298.989	6103.04	-1338.39
POE	7483.66	73.569	340.025	6430.00	-927.39
Landing Pt.	7686.23	90.000	340.024	6456.00	-5543.27
BHI	17725.38	90.000	340.024	7892.80	0.00

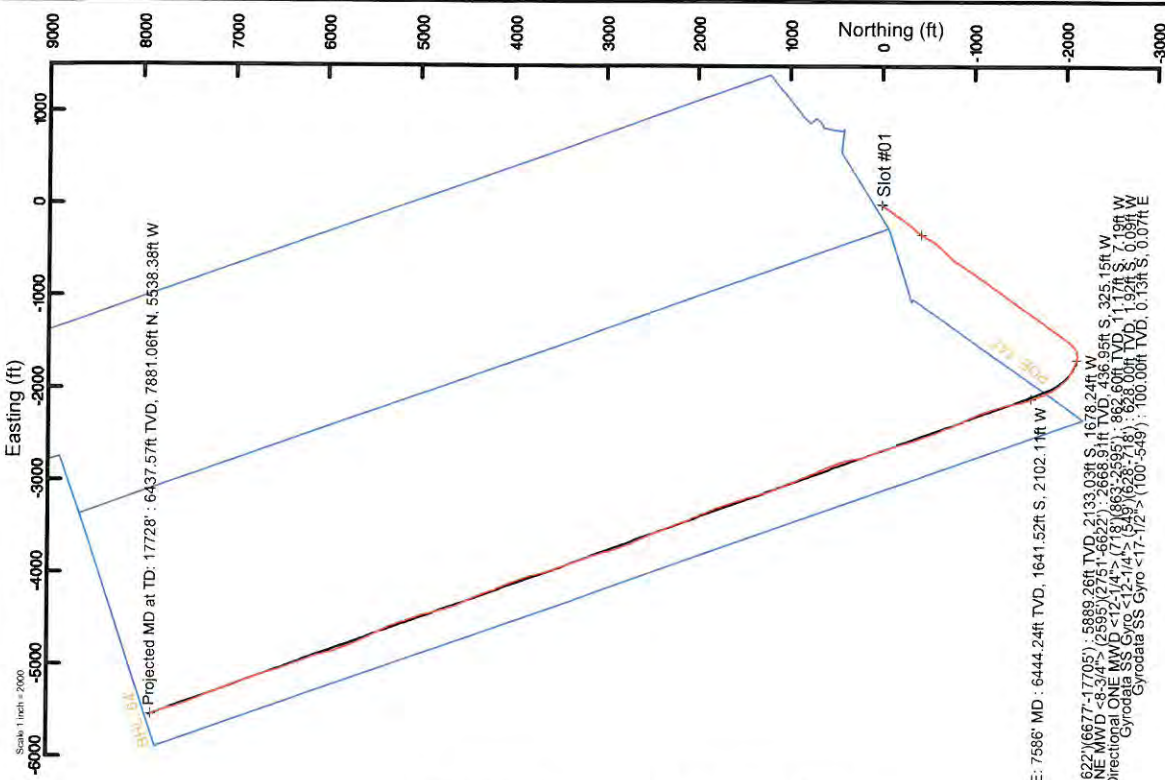
BHI AT Curve <8-1/2"> (6622')(6677'-17705') : 32.67° Inc, 6677.00ft MD, 5889.26ft TVD, -1431.21ft VS

Marcellus POE: 7586' MD : 76.56° Inc, 7586.00ft MD, 6444.24ft TVD, -824.45ft VS

Projected MD at TD: 17728' Inc, 17728.00ft MD, 6437.57ft TVD, 9289.13ft VS

Vertical Section (ft)

Azimuth 340.02° with reference 0.00 N, 0.00 E



Use specified DLS, Az, Inc, East & True North  
 Magnetic North is 7.82° (approx) West of True North (07/Dec2017)  
 Grid North is 0.08° degrees East of True North  
 To convert azimuth from True to Grid subtract 0.08 degrees  
 To convert azimuth from Magnetic to Grid subtract 7.70 degrees

Scale 1 inch = 1000



# Actual Wellpath Report

Piercion Unit 1H AWP Proj: 17728'

Page 1 of 11



REFERENCE WELLPATH IDENTIFICATION		
Operator	ANTERO RESOURCES CORPORATION	Slot #01
Area	Tyler County, WV	Piercion Unit 1H
Field	Tyler	Piercion Unit 1H AWB
Facility	Dawson Pad	

REPORT SETUP INFORMATION		
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System
North Reference	Grid	User
Scale	0.999601	Report Generated
Convergence at slot	0.08° East	Database/Source file
		Delaset
		WA_MPL_EasternUS_Defn\Piercion_Unit_1H_AWP_Proj_17728_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	20.21	-21.23	1676028.51	14300612.72	39°22'50.910"N	80°52'26.300"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
Horizontal Reference Pt	Slot
Vertical Reference Pt	Patterson 342 (RKB)
MD Reference Pt	Patterson 342 (RKB)
Field Vertical Reference	Mean Sea Level
	Section Origin
	Section Azimuth
	25.00ft
	1035.00ft
	25.00ft
	N 0.00, E 0.00 ft
	340.02°



# Actual Wellpath Report

Piercion Unit 1H AWP Proj: 17728\*

Page 2 of 11



## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #01
Area	Tyler County, WV	Well	Piercion Unit 1H
Field	Tyler	Wellbore	Piercion Unit 1H AWB
Facility	Dawson Pad		

WELLPATH DATA (205 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/100ft	ft/100ft	°/100ft	
0.00	0.00	152.880	0.00	0.00	0.00	0.00	1676028.51	14300612.72	39°22'50.910"N	80°52'26.300"W	0.00	0.000	0.00	0.00	0.00	
25.00	0.00	152.880	25.00	0.00	0.00	0.00	1676028.51	14300612.72	39°22'50.910"N	80°52'26.300"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.220	152.880	100.00	-0.14	-0.13	0.07	1676028.58	14300612.59	39°22'50.909"N	80°52'26.299"W	0.14	152.880	0.29	0.29	203.84	Gyrodata SS Gyro <17-1/2"> (100'-549')
200.00	0.280	165.330	200.00	-0.58	-0.54	0.22	1676028.72	14300612.18	39°22'50.905"N	80°52'26.297"W	0.58	158.118	0.08	0.06	12.45	
300.00	0.370	185.980	300.00	-1.11	-1.09	0.24	1676028.75	14300611.63	39°22'50.899"N	80°52'26.297"W	1.12	167.451	0.15	0.09	20.65	
400.00	0.130	158.940	400.00	-1.51	-1.52	0.25	1676028.76	14300611.20	39°22'50.895"N	80°52'26.297"W	1.54	170.645	0.26	-0.24	-27.04	
500.00	0.240	208.780	500.00	-1.77	-1.81	0.19	1676028.70	14300610.91	39°22'50.892"N	80°52'26.298"W	1.82	173.995	0.19	0.11	49.84	
549.00	0.170	247.380	549.00	-1.84	-1.93	0.07	1676028.58	14300610.79	39°22'50.891"N	80°52'26.299"W	1.93	177.806	0.31	-0.14	78.78	
628.00	0.110	312.770	628.00	-1.77	-1.92	-0.09	1676028.42	14300610.80	39°22'50.891"N	80°52'26.301"W	1.92	182.683	0.20	-0.08	82.77	Gyrodata SS Gyro <12-1/4"> (549')(628'-718')
718.00	2.050	215.450	717.98	-2.61	-3.17	-1.09	1676027.42	14300609.55	39°22'50.879"N	80°52'26.314"W	3.35	198.910	2.30	2.16	-108.13	
863.00	5.910	218.020	862.60	-8.04	-11.17	-7.19	1676021.32	14300601.55	39°22'50.800"N	80°52'26.392"W	13.29	212.774	2.66	2.66	2.66	
953.00	8.530	221.160	951.88	-13.72	-19.85	-14.44	1676014.08	14300592.88	39°22'50.714"N	80°52'26.484"W	24.54	216.038	2.94	2.91	3.49	
1043.00	10.590	219.260	1040.62	-21.17	-31.28	-24.07	1676004.45	14300581.46	39°22'50.601"N	80°52'26.607"W	39.47	217.578	2.32	2.29	-2.11	
1137.00	11.430	216.660	1132.89	-30.71	-45.44	-35.10	1675993.43	14300567.30	39°22'50.461"N	80°52'26.748"W	57.41	217.682	1.04	0.89	-2.77	
1232.00	11.540	213.780	1225.99	-41.50	-60.89	-46.00	1675982.53	14300551.86	39°22'50.309"N	80°52'26.887"W	76.31	217.071	0.61	0.12	-3.03	
1326.00	12.240	212.790	1317.97	-53.09	-77.08	-56.82	1675971.91	14300535.67	39°22'50.149"N	80°52'27.022"W	95.64	216.302	0.78	0.74	-1.05	
1420.00	13.600	214.580	1409.59	-65.53	-94.56	-68.29	1675960.24	14300518.20	39°22'49.976"N	80°52'27.171"W	116.64	215.839	1.51	1.45	1.90	
1514.00	15.570	216.140	1500.56	-78.97	-113.84	-82.01	1675946.54	14300498.92	39°22'49.786"N	80°52'27.346"W	140.31	215.874	2.14	2.10	1.66	
1609.00	18.070	216.670	1591.49	-94.18	-135.96	-98.33	1675930.22	14300476.81	39°22'49.568"N	80°52'27.555"W	167.79	215.874	2.64	2.63	0.56	
1703.00	18.740	215.570	1680.68	-110.74	-159.94	-115.82	1675912.74	14300452.85	39°22'49.331"N	80°52'27.778"W	197.47	215.910	0.80	0.71	-1.17	
1797.00	19.240	213.320	1769.56	-128.84	-185.16	-133.11	1675895.45	14300427.63	39°22'49.082"N	80°52'27.998"W	228.04	215.711	0.94	0.53	-2.39	
1892.00	19.840	213.220	1859.09	-147.55	-211.73	-150.54	1675878.03	14300401.08	39°22'48.819"N	80°52'28.221"W	259.79	215.413	0.63	0.63	-0.11	
1986.00	21.170	216.840	1947.14	-166.39	-238.66	-169.46	1675859.12	14300374.16	39°22'48.554"N	80°52'28.462"W	292.70	215.376	1.95	1.41	3.85	
2080.00	23.010	219.180	2034.24	-185.10	-266.49	-191.24	1675837.34	14300346.34	39°22'48.279"N	80°52'28.740"W	328.01	215.665	2.17	1.96	2.49	
2174.00	21.110	219.070	2121.35	-203.23	-293.87	-213.52	1675815.07	14300318.96	39°22'48.008"N	80°52'29.024"W	363.25	216.001	2.02	-2.02	-0.12	
2268.00	17.440	215.540	2210.07	-219.91	-318.49	-232.38	1675796.22	14300294.36	39°22'47.765"N	80°52'29.265"W	394.25	216.116	4.09	-3.90	-3.76	
2363.00	17.830	215.540	2300.61	-236.91	-341.91	-249.11	1675779.50	14300270.95	39°22'47.534"N	80°52'29.478"W	423.03	216.077	0.41	0.41	0.00	
2457.00	18.920	222.520	2389.82	-251.39	-364.85	-267.78	1675760.84	14300248.01	39°22'47.308"N	80°52'29.717"W	452.57	216.277	2.61	1.16	7.43	
2552.00	18.680	222.660	2479.75	-265.50	-387.39	-288.50	1675740.13	14300225.48	39°22'47.085"N	80°52'29.981"W	483.02	216.676	0.26	-0.25	0.15	
2595.00	18.370	220.680	2520.53	-271.98	-397.59	-297.58	1675731.05	14300215.28	39°22'46.984"N	80°52'30.097"W	496.63	216.813	1.63	-0.72	-4.60	



# Actual Wellpath Report

Piercion Unit 1H AWP Proj: 17728'

Page 3 of 11



## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #01
Area	Tyler County, WV	Well	Piercion Unit 1H
Field	Tyler	Wellbore	Piercion Unit 1H AWB
Facility	Dawson Pad		

## WELLPATH DATA (205 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude	Longitude	Closure (ft)	Dist Closure (ft)	Dir (°)	DLS (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
2751.00	17.690	209.130	2668.91	-299.55	-436.95	-325.15	1675703.49	14300175.94	39°22'46.596"N	80°52'30.448"W	544.66	216.654	2.33	-0.44	-7.40	Directional ONE MWD <-8-3/4"> (2595')(2751'-6622')	
2845.00	21.160	210.060	2757.55	-319.80	-464.12	-340.61	1675688.04	14300148.79	39°22'46.328"N	80°52'30.646"W	575.69	216.274	3.71	3.69	0.99		
2939.00	23.710	210.350	2844.43	-342.77	-495.12	-358.66	1675669.99	14300117.80	39°22'46.021"N	80°52'30.876"W	611.37	215.919	2.72	2.71	0.31		
3038.00	23.160	211.030	2935.26	-367.72	-528.98	-378.75	1675649.91	14300083.95	39°22'45.687"N	80°52'31.133"W	650.59	215.603	0.62	-0.56	0.69		
3132.00	24.290	212.680	3021.32	-391.08	-561.09	-398.72	1675629.95	14300051.85	39°22'45.370"N	80°52'31.388"W	688.33	215.398	1.39	1.20	1.76		
3226.00	27.380	217.460	3105.92	-414.45	-594.53	-422.32	1675606.36	14300018.42	39°22'45.040"N	80°52'31.689"W	729.26	215.387	3.96	3.29	5.09		
3321.00	30.580	225.490	3189.05	-436.25	-628.84	-452.85	1675575.84	14299984.13	39°22'44.701"N	80°52'32.078"W	774.93	215.759	5.30	3.37	8.45		
3415.00	31.990	221.710	3269.38	-457.99	-664.19	-486.48	1675542.23	14299948.79	39°22'44.352"N	80°52'32.507"W	823.29	216.220	2.57	1.50	-4.02		
3510.00	35.360	221.490	3348.43	-483.05	-703.58	-521.44	1675507.28	14299909.42	39°22'43.963"N	80°52'32.953"W	875.74	216.543	3.55	3.55	-0.23		
3605.00	39.020	223.280	3424.10	-509.57	-745.97	-560.16	1675468.57	14299867.05	39°22'43.545"N	80°52'33.447"W	932.87	216.904	4.01	3.85	1.86		
3699.00	39.620	218.810	3496.84	-538.53	-790.88	-599.23	1675429.52	14299822.16	39°22'43.102"N	80°52'33.945"W	992.26	217.150	3.07	0.64	-4.73		
3793.00	39.930	214.280	3569.10	-571.68	-839.17	-635.02	1675393.75	14299773.88	39°22'42.625"N	80°52'34.402"W	1052.36	217.115	3.10	0.33	-4.82		
3887.00	36.400	213.990	3642.99	-605.72	-887.24	-667.61	1675361.17	14299725.84	39°22'42.150"N	80°52'34.817"W	1110.36	216.960	3.76	-3.76	-0.31		
3982.00	37.070	210.360	3719.13	-640.58	-935.32	-697.84	1675330.95	14299677.77	39°22'41.679"N	80°52'35.203"W	1166.97	216.727	2.39	0.71	-3.82		
4076.00	36.190	212.380	3794.57	-675.61	-983.21	-727.03	1675301.77	14299629.91	39°22'41.202"N	80°52'35.576"W	1222.81	216.481	1.59	-0.94	2.15		
4170.00	35.140	214.310	3870.94	-708.35	-1028.99	-757.14	1675271.67	14299584.14	39°22'40.750"N	80°52'35.960"W	1277.53	216.346	1.64	-1.12	2.05		
4265.00	35.300	215.000	3948.55	-740.06	-1074.06	-788.29	1675240.53	14299539.09	39°22'40.305"N	80°52'36.358"W	1332.30	216.276	0.45	0.17	0.73		
4359.00	38.570	217.280	4023.68	-771.50	-1119.64	-821.63	1675207.21	14299493.53	39°22'39.855"N	80°52'36.783"W	1388.77	216.273	3.77	3.48	2.43		
4454.00	38.120	215.030	4098.19	-804.34	-1167.22	-856.40	1675172.45	14299445.97	39°22'39.385"N	80°52'37.226"W	1447.69	216.268	1.54	-0.47	-2.37		
4548.00	38.400	215.460	4172.00	-837.54	-1214.75	-889.99	1675138.87	14299398.45	39°22'38.916"N	80°52'37.655"W	1505.89	216.229	0.41	0.30	0.46		
4642.00	37.710	213.590	4245.02	-871.17	-1262.48	-922.84	1675106.04	14299350.74	39°22'38.445"N	80°52'38.074"W	1563.81	216.166	1.43	-0.73	-1.99		
4736.00	37.890	217.320	4320.30	-903.84	-1309.39	-956.25	1675072.65	14299303.85	39°22'37.982"N	80°52'38.500"W	1621.39	216.141	2.44	0.19	3.97		
4831.00	34.420	216.590	4471.49	-966.99	-1400.91	-1023.15	1675005.77	14299212.37	39°22'37.078"N	80°52'38.940"W	1679.52	216.148	1.29	-0.34	-2.03		
4925.00	37.570	215.390	4395.44	-936.06	-1356.20	-990.71	1675038.20	14299257.08	39°22'37.519"N	80°52'38.940"W	1734.75	216.142	3.43	-3.35	1.28		
5020.00	34.290	214.700	4549.92	-997.25	-1444.47	-1054.39	1674974.55	14299168.83	39°22'36.648"N	80°52'39.752"W	1788.36	216.127	1.13	-0.14	-1.99		
5114.00	36.120	217.080	4626.72	-1027.63	-1488.35	-1086.35	1674942.78	14299124.97	39°22'36.215"N	80°52'40.158"W	1842.54	216.121	2.43	1.95	2.53		
5208.00	37.030	215.550	4702.21	-1058.72	-1533.48	-1119.33	1674909.63	14299079.85	39°22'35.769"N	80°52'40.581"W	1898.54	216.127	1.37	0.97	-1.63		
5302.00	35.820	211.470	4777.86	-1091.89	-1579.98	-1150.15	1674878.82	14299033.37	39°22'35.310"N	80°52'40.974"W	1954.28	216.063	2.88	-1.29	-4.34		
5396.00	36.580	213.650	4853.72	-1125.64	-1626.76	-1180.04	1674848.95	14298986.61	39°22'34.848"N	80°52'41.356"W	2009.68	215.967	1.59	0.81	2.32		
5490.00	36.970	216.360	4929.01	-1157.92	-1672.84	-1212.32	1674816.68	14298940.55	39°22'34.393"N	80°52'41.768"W	2065.94	215.931	1.78	0.41	2.88		



# Actual Wellpath Report

Piercion Unit 1H AWP Proj: 17728'

Page 4 of 11



## REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot #01
ANTERO RESOURCES CORPORATION	Well	Piercion Unit 1H
Tyler County, WV	Wellbore	Piercion Unit 1H AWB
Tyler		
Dawson Pad		

## WELLPATH DATA (205 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/100ft	ft/100ft	ft/100ft	
5585.00	39.190	217.430	5003.79	-1189.92	-1719.69	-1247.50	1674781.51	142986893.72	39°22'33.930"N	80°52'42.216"W	2124.52	215.958	2.44	2.34	1.13	
5679.00	38.870	215.270	5076.81	-1222.73	-1767.35	-1282.58	1674746.44	14298846.07	39°22'33.460"N	80°52'42.664"W	2183.70	215.969	1.49	-0.34	-2.30	
5773.00	36.830	216.850	5151.04	-1254.96	-1813.99	-1316.52	1674712.52	14298799.46	39°22'32.999"N	80°52'43.097"W	2241.37	215.971	2.40	-2.17	1.68	
5867.00	37.890	215.990	5225.75	-1286.53	-1859.89	-1350.38	1674678.67	14298753.58	39°22'32.546"N	80°52'43.529"W	2298.41	215.982	1.26	1.13	-0.91	
5961.00	37.630	213.300	5300.07	-1319.85	-1907.23	-1383.10	1674645.97	14298706.25	39°22'32.079"N	80°52'43.946"W	2355.95	215.949	1.77	-0.28	-2.86	
6056.00	37.370	213.340	5375.44	-1354.41	-1955.56	-1414.86	1674614.21	14298667.95	39°22'31.601"N	80°52'44.352"W	2413.72	215.886	0.27	-0.27	0.04	
6150.00	35.240	215.590	5451.19	-1386.79	-2001.45	-1446.33	1674582.76	14298612.07	39°22'31.148"N	80°52'44.753"W	2469.35	215.853	2.67	-2.27	2.39	
6243.00	37.930	215.450	5525.86	-1418.18	-2046.56	-1478.53	1674550.57	14298566.98	39°22'30.703"N	80°52'45.164"W	2524.77	215.846	2.89	2.89	-0.15	
6338.00	37.000	224.270	5601.32	-1447.19	-2090.85	-1515.45	1674513.67	14298522.71	39°22'30.265"N	80°52'45.635"W	2582.29	215.935	5.73	-0.98	9.28	
6391.00	34.010	233.130	5644.49	-1458.43	-2111.18	-1538.46	1674490.67	14298502.38	39°22'30.065"N	80°52'45.928"W	2612.27	216.082	11.22	-5.64	16.72	
6432.00	31.930	240.570	5678.90	-1463.55	-2123.39	-1557.08	1674472.05	14298490.18	39°22'29.944"N	80°52'46.166"W	2633.12	216.253	11.09	-5.07	18.15	
6479.00	30.100	249.780	5719.20	-1465.64	-2133.58	-1578.98	1674450.16	14298479.99	39°22'29.844"N	80°52'46.445"W	2654.31	216.504	10.81	-3.89	19.60	
6527.00	29.770	259.220	5760.82	-1463.78	-2139.97	-1601.99	1674427.16	14298473.60	39°22'29.781"N	80°52'46.738"W	2673.18	216.819	9.83	-0.69	19.67	
6574.00	30.490	269.890	5801.50	-1457.86	-2142.18	-1625.40	1674403.76	14298471.40	39°22'29.760"N	80°52'47.036"W	2689.03	217.190	11.49	1.53	22.70	
6622.00	31.610	278.620	5842.64	-1447.70	-2140.32	-1650.03	1674379.14	14298473.26	39°22'29.778"N	80°52'47.349"W	2702.51	217.630	9.66	2.33	18.19	
6677.00	32.670	290.180	5889.26	-1431.21	-2133.03	-1678.24	1674350.94	14298480.54	39°22'29.851"N	80°52'47.708"W	2714.09	218.195	11.33	1.93	21.02	BHI AT Curve <-8-1/2'> (6622)(6677-17705)
6725.00	32.580	292.840	5929.68	-1414.07	-2123.54	-1702.31	1674326.88	14298490.03	39°22'29.945"N	80°52'48.015"W	2721.63	218.717	2.99	-0.19	5.54	
6820.00	31.750	293.240	6010.10	-1379.56	-2103.75	-1748.85	1674280.36	14298509.81	39°22'30.141"N	80°52'48.607"W	2735.74	219.737	0.90	-0.87	0.42	
6914.00	34.480	296.680	6088.84	-1343.27	-2082.04	-1795.36	1674233.87	14298531.51	39°22'30.356"N	80°52'49.199"W	2749.22	220.771	3.52	2.90	3.66	
7009.00	39.770	304.070	6164.59	-1299.06	-2052.91	-1844.62	1674184.63	14298560.63	39°22'30.645"N	80°52'49.828"W	2759.90	221.941	7.28	5.57	7.78	
7103.00	46.660	314.520	6233.15	-1243.73	-2012.00	-1894.02	1674135.25	14298601.53	39°22'31.050"N	80°52'50.454"W	2763.23	223.270	10.55	7.33	11.12	
7152.00†	51.139	318.721	6265.36	-1209.84	-1985.14	-1919.33	1674109.95	14298628.37	39°22'31.316"N	80°52'50.776"W	2767.47	224.034	11.19	9.14	8.57	Middlesex: 7152' MD
7197.00	55.370	322.130	6292.28	-1175.88	-1957.35	-1942.27	1674087.02	14298656.16	39°22'31.591"N	80°52'51.068"W	2757.47	224.779	11.19	9.40	7.58	
7244.00	59.890	324.170	6317.44	-1137.90	-1925.58	-1966.05	1674063.24	14298687.91	39°22'31.905"N	80°52'51.370"W	2751.95	225.596	10.29	9.62	4.34	
7291.00	63.760	326.040	6339.63	-1097.87	-1891.60	-1989.74	1674038.57	14298721.88	39°22'32.241"N	80°52'51.671"W	2745.40	226.448	8.95	8.23	3.98	
7337.00†	63.935	329.965	6359.91	-1057.49	-1856.59	-2011.61	1674017.70	14298756.87	39°22'32.587"N	80°52'51.949"W	2737.43	227.295	7.67	0.38	8.53	Burkett: 7337' MD
7398.00	63.940	330.050	6360.35	-1056.61	-1855.81	-2012.06	1674017.25	14298757.65	39°22'32.595"N	80°52'51.955"W	2737.23	227.313	7.67	0.50	8.52	
7385.00	65.440	334.790	6380.45	-1014.51	-1818.16	-2031.72	1673997.61	14298795.28	39°22'32.967"N	80°52'52.204"W	2726.46	228.175	9.66	3.19	10.09	
7432.00	68.150	337.660	6398.97	-971.42	-1778.64	-2049.12	1673980.21	14298834.80	39°22'33.358"N	80°52'52.425"W	2713.38	229.042	8.05	5.77	6.11	
7471.00†	70.465	337.993	6412.75	-934.96	-1744.85	-2062.88	1673966.45	14298868.57	39°22'33.692"N	80°52'52.600"W	2701.85	229.774	5.99	5.94	0.85	July: 7471' MD



# Actual Wellpath Report

Pierson Unit 1H AWP Proj: 17728'

Page 5 of 11



## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #01
Area	Tyler County, WV	Well	Pierson Unit 1H
Field	Tyler	Wellbore	Pierson Unit 1H AWB
Facility	Dawson Pad		

## WELLPATH DATA (205 stations) † = interpolated/extrapolated station

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
7479.00	70.940	338.060	6415.39	-927.42	-1737.85	-2065.71	1673963.63	14298875.56	39°22'33.762"N	80°52'52.636"W	2699.50	239.927	5.99	5.94	0.84	
7526.00	74.450	339.000	6429.37	-882.57	-1696.10	-2082.13	1673947.22	14298917.30	39°22'34.174"N	80°52'52.844"W	2688.52	230.834	7.71	7.47	2.00	
7574.00	76.430	340.400	6441.44	-836.11	-1652.53	-2098.24	1673931.11	14298960.85	39°22'34.605"N	80°52'53.049"W	2670.86	231.777	5.00	4.13	2.92	
7586.00†	76.564	340.901	6444.24	-824.45	-1641.52	-2102.11	1673927.24	14298971.86	39°22'34.714"N	80°52'53.098"W	2667.10	232.014	4.21	1.12	4.18	Marcellus POE: 7586' MD
7621.00	76.960	342.360	6452.26	-790.39	-1609.19	-2112.84	1673916.51	14299004.18	39°22'35.034"N	80°52'53.234"W	2655.86	232.706	4.21	1.13	4.17	
7668.00	80.880	344.390	6461.29	-744.36	-1565.00	-2126.03	1673903.33	14299048.35	39°22'35.471"N	80°52'53.401"W	2639.93	233.643	9.36	8.34	4.32	
7715.00	86.870	347.190	6466.38	-697.90	-1519.73	-2137.49	1673891.88	14299093.60	39°22'35.918"N	80°52'53.548"W	2622.68	234.588	13.67	12.32	5.96	
7762.00	89.510	349.400	6467.95	-651.42	-1473.74	-2147.02	1673882.35	14299139.57	39°22'36.373"N	80°52'53.667"W	2604.15	235.534	7.65	6.04	4.70	
7856.00	90.120	344.300	6468.25	-558.12	-1382.23	-2168.39	1673860.98	14299231.04	39°22'37.278"N	80°52'53.938"W	2571.48	237.485	5.46	0.65	-5.43	
7950.00	90.220	343.140	6467.97	-464.32	-1292.01	-2194.74	1673834.64	14299321.23	39°22'38.170"N	80°52'54.272"W	2546.80	239.515	1.24	0.11	-1.23	
8045.00	90.310	341.890	6467.53	-369.41	-1201.40	-2223.29	1673806.11	14299411.80	39°22'39.066"N	80°52'54.634"W	2527.13	241.615	1.32	0.09	-1.32	
8139.00	90.220	338.940	6467.10	-275.42	-1112.85	-2254.79	1673774.62	14299500.32	39°22'39.941"N	80°52'55.033"W	2514.46	243.731	3.14	-0.10	-3.14	
8233.00	89.720	337.240	6467.15	-181.48	-1025.64	-2289.87	1673739.56	14299587.49	39°22'40.804"N	80°52'55.479"W	2509.07	245.872	1.89	-0.53	-1.81	
8327.00	90.000	334.810	6467.38	-87.71	-939.76	-2328.06	1673701.38	14299673.34	39°22'41.653"N	80°52'55.963"W	2510.58	248.018	2.60	0.30	-2.59	
8421.00	89.850	337.460	6467.50	6.06	-853.80	-2366.09	1673663.37	14299759.26	39°22'42.503"N	80°52'56.446"W	2515.42	250.168	2.82	-0.16	2.82	
8515.00	90.250	337.350	6467.42	99.96	-767.02	-2402.20	1673627.27	14299846.01	39°22'43.361"N	80°52'56.905"W	2521.69	252.292	0.44	0.43	-0.12	
8609.00	90.000	337.230	6467.21	193.86	-680.30	-2438.49	1673590.99	14299932.69	39°22'44.219"N	80°52'57.365"W	2531.61	254.412	0.30	-0.27	-0.13	
8703.00	90.060	337.390	6467.16	287.75	-593.58	-2474.75	1673554.75	14300019.38	39°22'45.076"N	80°52'57.826"W	2544.94	256.512	0.18	0.06	0.17	
8798.00	89.940	338.800	6467.16	382.71	-505.14	-2509.42	1673520.09	14300107.78	39°22'45.951"N	80°52'58.266"W	2559.76	258.619	2.54	-0.13	2.54	
8892.00	89.970	342.880	6467.24	476.68	-416.09	-2539.49	1673490.03	14300196.80	39°22'46.831"N	80°52'58.647"W	2573.36	260.695	3.28	0.03	3.28	
8986.00	90.120	342.390	6467.16	570.58	-326.38	-2567.55	1673461.99	14300286.47	39°22'47.718"N	80°52'59.003"W	2588.21	262.756	0.55	0.16	-0.52	
9080.00	90.310	342.280	6466.81	664.50	-236.81	-2596.07	1673433.48	14300376.01	39°22'48.604"N	80°52'59.365"W	2606.85	264.788	0.23	0.20	-0.12	
9175.00	89.570	343.120	6466.91	759.40	-146.11	-2624.32	1673405.24	14300466.67	39°22'49.501"N	80°52'59.723"W	2628.39	266.813	1.18	-0.78	0.88	
9269.00	90.520	341.320	6466.84	853.32	-56.60	-2653.03	1673376.55	14300556.14	39°22'50.386"N	80°53'00.087"W	2653.63	268.778	2.17	1.01	-1.91	
9363.00	90.370	338.310	6466.11	947.31	31.61	-2685.46	1673344.13	14300644.32	39°22'51.258"N	80°53'00.499"W	2685.64	270.674	3.21	-0.16	-3.20	
9458.00	90.430	338.090	6465.44	1042.26	119.82	-2720.74	1673308.86	14300732.49	39°22'52.130"N	80°53'00.947"W	2723.37	272.522	0.24	0.06	-0.23	
9552.00	91.080	345.940	6464.20	1136.12	209.14	-2749.73	1673279.88	14300821.78	39°22'53.014"N	80°53'01.314"W	2757.68	274.350	8.38	0.69	8.35	
9647.00	91.260	353.570	6462.50	1229.66	302.54	-2766.62	1673263.00	14300915.14	39°22'53.937"N	80°53'01.528"W	2783.11	276.241	8.03	0.19	8.03	
9742.00	92.060	343.220	6462.50	1323.48	395.43	-2785.69	1673243.94	14301007.99	39°22'54.855"N	80°53'01.769"W	2813.62	278.079	10.92	0.84	-10.89	
9836.00	90.680	338.710	6457.25	1417.41	484.24	-2816.33	1673213.31	14301096.77	39°22'55.733"N	80°53'02.158"W	2857.66	279.756	5.02	-1.47	-4.80	



# Actual Wellpath Report

Pierson Unit 1H AWP Proj: 17728'

Page 6 of 11



## REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot #01
ANTERO RESOURCES CORPORATION	Well	Pierson Unit 1H
Tyler County, WV	Wellbore	Pierson Unit 1H AWB
Tyler		
Dawson Pad		

## WELLPATH DATA (205 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (ft)	DLS (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
9830.00	90.710	336.960	6456.11	1511.34	571.29	-2851.79	1673177.86	14301183.78	39°22'56.594"N	80°53'02.608"W	2908.45	281.328	1.86	0.03	-1.86	
10025.00	91.110	335.170	6454.60	1606.09	658.10	-2890.33	1673139.34	14301270.56	39°22'57.453"N	80°53'03.098"W	2964.30	282.827	1.93	0.42	-1.88	
10119.00	90.710	336.670	6453.11	1899.84	743.91	-2928.67	1673101.01	14301356.33	39°22'58.301"N	80°53'03.585"W	3021.68	284.252	1.65	-0.43	1.60	
10213.00	91.110	338.330	6451.62	1793.73	830.74	-2964.64	1673065.06	14301443.13	39°22'59.160"N	80°53'04.041"W	3078.83	285.654	1.82	0.43	1.77	
10308.00	90.090	336.380	6450.62	1888.62	918.40	-3001.21	1673028.50	14301530.76	39°23'00.027"N	80°53'04.505"W	3138.59	287.015	2.32	-1.07	-2.05	
10402.00	88.950	338.140	6451.41	1982.50	1005.09	-3037.54	1672992.18	14301617.41	39°23'00.884"N	80°53'04.967"W	3199.51	288.309	2.23	-1.21	1.87	
10496.00	88.950	338.170	6451.13	2076.43	1092.33	-3072.52	1672957.22	14301703.11	39°23'01.747"N	80°53'05.411"W	3260.91	289.571	0.03	0.00	0.03	
10591.00	88.950	339.370	6454.87	2171.39	1180.86	-3106.91	1672922.84	14301793.41	39°23'02.622"N	80°53'05.847"W	3323.75	290.811	1.26	0.00	1.26	
10686.00	88.030	343.460	6457.38	2266.31	1270.86	-3137.17	1672892.60	14301883.07	39°23'03.512"N	80°53'06.231"W	3384.81	292.053	4.41	-0.97	4.31	
10780.00	88.610	344.320	6460.13	2360.03	1361.24	-3162.85	1672866.93	14301973.41	39°23'04.406"N	80°53'06.557"W	3443.34	293.286	1.57	0.62	1.45	
10874.00	88.830	342.690	6462.23	2453.80	1451.46	-3189.14	1672840.65	14302063.59	39°23'05.298"N	80°53'06.890"W	3503.90	294.471	2.28	0.23	-2.27	
10968.00	89.630	340.540	6463.50	2547.75	1540.64	-3218.78	1672811.02	14302152.75	39°23'06.179"N	80°53'07.266"W	3568.49	295.578	2.44	0.85	-2.29	
11064.00	88.830	342.360	6464.79	2643.70	1631.64	-3249.32	1672780.50	14302243.71	39°23'07.079"N	80°53'07.654"W	3635.97	296.663	2.07	-0.83	1.90	
11158.00	89.420	340.860	6466.22	2737.65	1720.83	-3278.97	1672750.86	14302332.86	39°23'07.961"N	80°53'08.030"W	3703.09	297.691	1.71	0.63	-1.60	
11252.00	89.380	338.580	6467.21	2831.64	1808.99	-3311.54	1672718.29	14302420.99	39°23'08.833"N	80°53'08.443"W	3773.43	298.646	2.43	-0.04	-2.43	
11347.00	89.290	337.000	6468.31	2926.56	1896.93	-3347.45	1672682.40	14302508.89	39°23'09.703"N	80°53'08.899"W	3847.57	299.539	1.67	-0.09	-1.66	
11441.00	88.710	335.850	6469.95	3020.36	1983.07	-3385.04	1672644.83	14302595.00	39°23'10.564"N	80°53'09.377"W	3923.15	300.363	1.37	-0.82	-1.22	
11535.00	89.630	338.090	6471.31	3114.21	2069.57	-3421.81	1672608.07	14302681.46	39°23'11.410"N	80°53'09.843"W	3998.98	301.166	2.58	0.98	2.38	
11630.00	90.220	340.550	6471.44	3209.19	2158.44	-3455.35	1672574.54	14302770.29	39°23'12.288"N	80°53'10.269"W	4074.10	301.992	2.66	0.82	2.59	
11724.00	90.220	339.150	6471.08	3303.19	2246.68	-3487.73	1672542.17	14302858.50	39°23'13.161"N	80°53'10.680"W	4148.72	302.788	1.49	0.00	-1.49	
11819.00	90.250	337.520	6470.89	3398.14	2334.97	-3522.80	1672507.12	14302946.75	39°23'14.034"N	80°53'11.126"W	4226.37	303.537	1.72	0.03	-1.72	
11913.00	90.310	339.160	6470.23	3492.10	2422.33	-3557.50	1672472.44	14303034.08	39°23'14.898"N	80°53'11.566"W	4303.89	304.251	1.75	0.06	1.74	
12008.00	90.370	339.300	6469.66	3587.09	2511.15	-3591.19	1672438.76	14303122.86	39°23'15.776"N	80°53'11.994"W	4382.06	304.963	0.16	0.06	0.15	
12103.00	90.150	335.040	6469.23	3681.95	2598.69	-3628.04	1672401.93	14303210.37	39°23'16.642"N	80°53'12.462"W	4462.71	305.613	4.49	-0.23	-4.48	
12197.00	89.480	334.800	6469.54	3775.58	2683.82	-3667.88	1672362.10	14303295.47	39°23'17.484"N	80°53'12.968"W	4544.92	306.193	0.76	-0.71	-0.26	
12291.00	89.110	339.230	6470.69	3869.42	2770.33	-3704.58	1672325.42	14303381.94	39°23'18.339"N	80°53'13.434"W	4625.86	306.790	4.73	-0.39	4.71	
12385.00	90.150	342.370	6471.30	3963.39	2859.09	-3735.48	1672294.52	14303470.66	39°23'19.217"N	80°53'13.826"W	4704.07	307.430	3.52	1.11	3.34	
12479.00	90.120	343.740	6471.08	4057.26	2949.01	-3762.88	1672267.14	14303560.54	39°23'20.106"N	80°53'14.173"W	4780.78	308.086	1.46	-0.03	1.46	
12574.00	90.430	344.640	6470.62	4152.00	3040.41	-3788.76	1672241.27	14303651.91	39°23'21.010"N	80°53'14.502"W	4857.86	308.746	1.00	0.33	0.95	
12668.00	90.430	341.680	6469.92	4245.85	3130.37	-3815.99	1672214.05	14303741.83	39°23'21.899"N	80°53'14.847"W	4935.68	309.363	3.15	0.00	-3.15	



# Actual Wellpath Report

Pierson Unit 1H AWP Proj: 17728'

Page 7 of 11



## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #01
Area	Tyler County, WV	Well	Pierson Unit 1H
Field	Tyler	Wellbore	Pierson Unit 1H AWB
Facility	Dawson Pad		

## WELLPATH DATA (205 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 (P/100ft)	Build Rate (P/100ft)	Turn Rate (P/100ft)	Comments
12762.00	90.090	341.640	6469.49	4339.81	3219.59	-3845.57	1672184.48	14303831.02	39°23'22.781"N	80°53'15.222"W	5015.39	309.937	0.36	-0.36	-0.04	
12856.00	90.180	341.490	6469.27	4433.78	3308.77	-3875.29	1672154.77	14303920.16	39°23'23.663"N	80°53'15.599"W	5095.67	310.491	0.19	0.10	-0.16	
12950.00	90.180	339.350	6468.97	4527.77	3397.33	-3906.79	1672123.28	14304008.68	39°23'24.539"N	80°53'15.999"W	5177.34	311.010	2.28	0.00	-2.28	
13045.00	90.120	338.680	6468.72	4622.75	3486.02	-3940.81	1672089.28	14304097.35	39°23'25.416"N	80°53'16.431"W	5261.40	311.496	0.71	-0.06	-0.71	
13139.00	90.120	341.290	6468.58	4716.74	3574.34	-3972.98	1672057.12	14304185.63	39°23'26.289"N	80°53'16.840"W	5344.20	311.976	2.78	0.00	2.78	
13233.00	90.220	344.060	6468.25	4810.63	3664.07	-4000.96	1672029.16	14304275.32	39°23'27.176"N	80°53'17.194"W	5425.22	312.483	2.97	0.11	2.97	
13328.00	90.490	346.820	6467.86	4905.21	3755.97	-4024.98	1672005.14	14304367.19	39°23'28.085"N	80°53'17.499"W	5505.25	313.020	2.69	0.28	2.67	
13422.00	90.650	342.240	6466.72	4998.91	3846.50	-4050.21	1671979.93	14304457.67	39°23'28.980"N	80°53'17.819"W	5585.67	313.522	4.66	0.17	4.66	
13517.00	90.400	337.690	6465.85	5093.88	3935.72	-4082.74	1671947.40	14304546.86	39°23'29.862"N	80°53'18.232"W	5670.86	313.950	4.80	-0.26	-4.79	
13611.00	90.740	338.730	6464.92	5187.82	4023.00	-4117.63	1671912.53	14304634.11	39°23'30.725"N	80°53'18.675"W	5756.68	314.334	1.16	0.36	1.11	
13705.00	90.980	336.550	6463.51	5281.73	4109.91	-4153.39	1671876.79	14304720.99	39°23'31.585"N	80°53'19.129"W	5843.12	314.699	2.33	0.26	-2.32	
13800.00	90.340	338.990	6462.41	5376.64	4197.84	-4189.32	1671840.87	14304808.88	39°23'32.454"N	80°53'19.585"W	5930.62	315.058	2.66	-0.67	2.57	
13895.00	90.550	340.080	6461.68	5471.63	4286.84	-4222.54	1671807.67	14304897.84	39°23'33.334"N	80°53'20.007"W	6017.21	315.433	1.17	0.22	1.15	
13990.00	90.550	337.730	6460.76	5566.60	4375.46	-4256.72	1671773.49	14304986.43	39°23'34.210"N	80°53'20.441"W	6104.46	315.788	2.47	0.00	-2.47	
14084.00	90.370	334.930	6460.01	5660.39	4461.54	-4294.46	1671735.77	14305072.48	39°23'35.062"N	80°53'20.920"W	6192.56	316.093	2.98	-0.19	-2.98	
14178.00	89.780	335.650	6459.89	5754.07	4546.94	-4333.75	1671696.50	14305157.84	39°23'35.906"N	80°53'21.419"W	6281.40	316.375	0.99	-0.63	0.77	
14272.00	88.580	340.740	6461.23	5847.98	4634.17	-4368.65	1671661.61	14305245.04	39°23'36.769"N	80°53'21.863"W	6368.73	316.689	5.56	-1.28	5.41	
14367.00	90.400	343.800	6462.08	5942.89	4724.64	-4397.58	1671626.70	14305335.47	39°23'37.663"N	80°53'22.230"W	6454.53	317.053	3.75	1.92	3.22	
14462.00	90.680	345.510	6461.18	6037.57	4816.25	-4422.71	1671607.57	14305427.04	39°23'38.569"N	80°53'22.548"W	6538.86	317.439	1.82	0.29	1.80	
14556.00	90.250	345.200	6460.42	6131.16	4907.19	-4446.48	1671583.81	14305517.94	39°23'39.488"N	80°53'22.850"W	6622.06	317.820	0.56	-0.46	-0.33	
14650.00	90.340	342.210	6459.93	6224.96	4997.40	-4472.85	1671557.45	14305608.12	39°23'39.488"N	80°53'23.184"W	6706.74	318.170	3.18	0.10	-3.18	
14745.00	90.310	338.050	6459.40	6319.93	5086.73	-4505.13	1671525.18	14305697.41	39°23'41.243"N	80°53'23.594"W	6794.92	318.470	4.38	-0.03	-4.38	
14839.00	90.460	341.900	6458.76	6413.91	5175.02	-4537.31	1671493.01	14305785.67	39°23'42.116"N	80°53'24.002"W	6882.45	318.757	4.10	0.16	4.10	
14933.00	91.200	340.130	6457.40	6507.89	5263.90	-4567.89	1671462.45	14305874.51	39°23'42.995"N	80°53'24.391"W	6969.52	319.049	2.04	0.79	-1.88	
15028.00	91.020	333.880	6455.56	6602.69	5351.29	-4604.98	1671425.38	14305961.87	39°23'43.859"N	80°53'24.862"W	7059.89	319.287	6.58	-0.19	-6.58	
15123.00	90.800	333.070	6454.05	6697.06	5436.28	-4647.40	1671382.98	14306046.82	39°23'44.700"N	80°53'25.401"W	7152.02	319.473	0.88	-0.23	-0.85	
15218.00	90.680	334.830	6452.82	6791.51	5521.62	-4689.11	1671341.28	14306132.12	39°23'45.544"N	80°53'25.931"W	7244.03	319.661	1.86	-0.13	1.85	
15313.00	90.580	334.240	6451.78	6886.07	5607.38	-4729.95	1671300.45	14306217.85	39°23'46.392"N	80°53'26.450"W	7335.88	319.852	0.63	-0.11	-0.62	
15408.00	90.430	337.290	6450.94	6980.79	5693.99	-4768.94	1671261.48	14306304.43	39°23'47.248"N	80°53'26.945"W	7427.27	320.053	3.21	-0.16	3.21	
15503.00	90.580	339.860	6450.10	7075.75	5782.42	-4803.64	1671226.79	14306392.82	39°23'48.123"N	80°53'27.385"W	7517.40	320.282	2.71	0.16	2.71	





# Actual Wellpath Report

Piercion Unit 1H AWP Proj: 17728'

Page 8 of 11



REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Dawson Pad
Slot	Slot #01
Well	Piercion Unit 1H
Wellbore	Piercion Unit 1H AWB

WELLPATH DATA (205 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
15597.00	90.650	340.810	6449.10	7169.75	5870.93	-4835.27	1671195.17	14306481.30	39°23'48.998"N	80°53'27.787"W	7605.77	320.525	1.01	0.07	1.01	
15691.00	90.550	344.180	6448.11	7263.64	5960.56	-4863.54	1671166.92	14306570.89	39°23'49.884"N	80°53'28.146"W	7693.00	320.787	3.59	-0.11	3.59	
15786.00	90.680	345.620	6447.09	7358.29	6052.27	-4888.29	1671142.18	14306662.57	39°23'50.791"N	80°53'28.460"W	7779.80	321.073	1.52	0.14	1.52	
15880.00	90.860	341.560	6445.93	7452.08	6142.42	-4914.83	1671115.64	14306752.68	39°23'51.682"N	80°53'28.796"W	7866.69	321.335	4.32	0.19	-4.32	
15975.00	89.940	340.140	6445.16	7547.06	6232.15	-4946.00	1671084.49	14306842.38	39°23'52.569"N	80°53'29.192"W	7956.29	321.564	1.78	-0.97	-1.49	
16069.00	90.000	339.120	6445.21	7641.06	6320.27	-4978.72	1671051.79	14306930.46	39°23'53.441"N	80°53'29.607"W	8045.71	321.771	1.09	0.06	-1.09	
16163.00	89.910	339.050	6445.29	7735.04	6408.08	-5012.27	1671018.25	14307018.23	39°23'54.309"N	80°53'30.033"W	8135.50	321.968	0.12	-0.10	-0.07	
16258.00	89.940	341.690	6445.41	7830.03	6497.55	-5044.18	1670986.35	14307107.67	39°23'55.194"N	80°53'30.439"W	8225.69	322.177	2.78	0.03	2.78	
16352.00	90.370	344.450	6445.16	7923.89	6587.47	-5071.55	1670958.99	14307197.55	39°23'56.083"N	80°53'30.786"W	8313.57	322.408	2.97	0.46	2.94	
16446.00	90.340	340.750	6444.57	8017.78	6677.15	-5099.66	1670930.89	14307287.19	39°23'56.969"N	80°53'31.142"W	8401.84	322.629	3.94	-0.03	-3.94	
16540.00	90.400	339.240	6443.97	8111.77	6765.47	-5131.81	1670898.75	14307375.48	39°23'57.843"N	80°53'31.551"W	8491.59	322.819	1.61	0.06	-1.61	
16634.00	90.250	341.110	6443.43	8205.77	6853.90	-5163.69	1670866.89	14307463.87	39°23'58.717"N	80°53'31.955"W	8581.35	323.006	2.00	-0.16	1.99	
16729.00	90.340	339.370	6442.95	8300.76	6943.30	-5195.81	1670834.78	14307553.24	39°23'59.601"N	80°53'32.363"W	8672.13	323.192	1.83	0.09	-1.83	
16822.00	90.280	340.450	6442.44	8393.76	7030.64	-5227.75	1670802.85	14307640.54	39°24'00.464"N	80°53'32.769"W	8761.24	323.367	1.16	-0.06	1.16	
16917.00	90.310	340.200	6441.95	8488.76	7120.09	-5259.74	1670770.88	14307729.96	39°24'01.349"N	80°53'33.175"W	8852.15	323.546	0.27	0.03	-0.26	
17010.00	90.310	339.520	6441.45	8581.75	7207.40	-5291.76	1670738.87	14307817.23	39°24'02.212"N	80°53'33.581"W	8941.44	323.713	0.73	0.00	-0.73	
17105.00	90.370	336.840	6440.94	8676.69	7295.59	-5327.07	1670703.58	14307905.38	39°24'03.084"N	80°53'34.030"W	9033.45	323.864	2.82	0.00	-2.82	
17199.00	90.370	337.390	6440.38	8770.57	7382.18	-5363.62	1670667.04	14307991.95	39°24'03.941"N	80°53'34.494"W	9124.97	323.999	0.59	0.06	0.59	
17293.00	90.220	336.930	6439.89	8864.45	7468.81	-5400.11	1670630.57	14308078.54	39°24'04.797"N	80°53'34.958"W	9216.52	324.132	0.51	-0.16	-0.49	
17388.00	90.250	341.380	6439.50	8959.42	7557.57	-5433.90	1670596.78	14308167.26	39°24'05.675"N	80°53'35.387"W	9308.29	324.284	4.68	0.03	4.68	
17482.00	90.370	344.220	6439.00	9053.30	7647.36	-5461.70	1670569.00	14308257.01	39°24'06.563"N	80°53'35.740"W	9397.46	324.466	3.02	0.13	3.02	
17576.00	90.310	341.110	6438.44	9147.18	7737.08	-5489.70	1670541.01	14308346.70	39°24'07.450"N	80°53'36.095"W	9486.79	324.643	3.31	-0.06	-3.31	
17670.00	90.370	340.880	6437.88	9241.17	7825.95	-5520.31	1670510.41	14308435.53	39°24'08.328"N	80°53'36.484"W	9577.02	324.801	0.25	0.06	-0.24	
17705.00	90.280	342.270	6437.68	9276.15	7859.15	-5531.37	1670499.35	14308486.73	39°24'08.657"N	80°53'36.624"W	9610.53	324.862	3.98	-0.26	3.97	
17728.00	90.280	342.270	6437.57	9299.13	7881.06	-5538.38	1670492.35	14308490.62	39°24'08.873"N	80°53'36.713"W	9632.48	324.903	0.00	0.00	0.00	Projected MD at TD: 17728'



# Actual Wellpath Report

Pierson Unit 1H AWP Proj: 17728'

Page 9 of 11



## REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot #01
ANTERO RESOURCES CORPORATION	Well	Pierson Unit 1H
Area	Wellbore	Pierson Unit 1H AWB
Field		
Facility		

## HOLE & CASING SECTIONS - Ref Wellbore: Pierson Unit 1H AWB Ref Wellpath: Pierson Unit 1H AWP Proj: 17728'

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
20in Conductor	25.00	105.00	80.00	25.00	105.00	0.00	0.00	-0.15	0.07
17.5in Open Hole	105.00	583.00	478.00	105.00	583.00	-0.15	0.07	-1.95	-0.01
13.375in Casing Surface	25.00	583.00	558.00	25.00	583.00	0.00	0.00	-1.95	-0.01
12.25in Open Hole	583.00	2656.50	2073.50	583.00	2578.95	-1.95	-0.01	-412.62	-309.52
9.625in Casing Intermediate	25.00	2656.50	2631.50	25.00	2578.95	0.00	0.00	-412.62	-309.52
8.75in Open Hole	2656.50	6701.00	4044.50	2578.95	5909.47	-412.62	-309.52	-2128.42	-1690.34
8.5in Open Hole	6701.00	17728.00	11027.00	5909.47	6437.57	-2128.42	-1690.34	7881.06	-5538.38
5.5in Casing Production	25.00	17728.00	17703.00	25.00	6437.57	0.00	0.00	7881.06	-5538.38

## TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Pierson Unit 1H POE - Rev-2	6430.00	-1730.41	-2045.33	1673984.00	14298883.00	39°22'33.835"N	80°52'52.376"W	point
Pierson Unit 1H BHL - Rev-3	6456.00	7882.80	-5543.27	1670487.48	14308502.36	39°24'08.989"N	80°53'36.775"W	point
Pierson Unit 1H LP - Rev-1	6456.00	-1561.17	-2106.85	1673922.51	14299052.18	39°22'35.508"N	80°52'53.157"W	point



# Actual Wellpath Report

Pierson Unit 1H AWP Proj: 17728'

Page 10 of 11



## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION		Slot #01
Area	Tyler County, WV		Pierson Unit 1H
Field	Tyler		Pierson Unit 1H AWB
Facility	Dawson Pad		

## WELLPATH COMPOSITION - Ref Wellbore: Pierson Unit 1H AWB

Start MD (ft)	End MD (ft)	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	549.00	Gyrodata standard - Single-shot	01_Gyrodata SS Gyro <17-1/2">(100'-549')	Pierson Unit 1H AWB
549.00	718.00	Gyrodata standard - Single-shot	02_Gyrodata SS Gyro <12-1/4">(549')(628'-718')	Pierson Unit 1H AWB
718.00	2595.00	ISCWSA MWD, Rev. 4 (Standard)	03_Directional ONE MWD <12-1/4">(718')(663'-2595')	Pierson Unit 1H AWB
2595.00	6622.00	ISCWSA MWD, Rev. 4 (Standard)	04_Directional ONE MWD <8-3/4">(2595')(2751'-6622')	Pierson Unit 1H AWB
6622.00	17705.00	BHI AutoTrak Curve (Short)	05_AT Curve <8-1/2">(6622')(6677'-17705')	Pierson Unit 1H AWB
17705.00	17728.00	Blind Drilling (std)	Projection to bit	Pierson Unit 1H AWB

## WELLPATH COMPOSITION - Ref Wellbore: Pierson Unit 1H AWP Proj: 17728'

Start MD (ft)	End MD (ft)	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	549.00	Gyrodata standard - Single-shot	01_Gyrodata SS Gyro <17-1/2">(100'-549')	Pierson Unit 1H AWB
549.00	718.00	Gyrodata standard - Single-shot	02_Gyrodata SS Gyro <12-1/4">(549')(628'-718')	Pierson Unit 1H AWB
718.00	2595.00	ISCWSA MWD, Rev. 4 (Standard)	03_Directional ONE MWD <12-1/4">(718')(663'-2595')	Pierson Unit 1H AWB
2595.00	6622.00	ISCWSA MWD, Rev. 4 (Standard)	04_Directional ONE MWD <8-3/4">(2595')(2751'-6622')	Pierson Unit 1H AWB
6622.00	17705.00	BHI AutoTrak Curve (Short)	05_AT Curve <8-1/2">(6622')(6677'-17705')	Pierson Unit 1H AWB
17705.00	17728.00	Blind Drilling (std)	Projection to bit	Pierson Unit 1H AWB



# Actual Wellpath Report

Piercion Unit 1H AWP Proj: 17728'  
Page 11 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #01
Area	Tyler County, WV	Well	Piercion Unit 1H
Field	Tyler	Wellbore	Piercion Unit 1H AWB
Facility	Dawson Pad		

COMMENTS
<p><b>Wellpath general comments</b>            API: 47-095-02413-0000            BHI Job #: 8886740            Rig: Patterson 342            Gyrodatta SS Gyro &lt;17-1/2"&gt; (100'-549')            Gyrodatta SS Gyro &lt;12-1/4"&gt; (549')(628'-718')            Directional ONE MWD &lt;12-1/4"&gt; (718')(863'-2595')            Directional ONE MWD &lt;8-3/4"&gt; (2595')(2751'-6622')            BHI AT Curve &lt;8-1/2"&gt; (6622')(6677'-17705')            Middlesex: 7152' MD            Burkett: 7337' MD            Tully: 7471' MD            Marcellus POE: 7586' MD            Projected MD at TD: 17728'</p>