



ANTERO RESOURCES CORPORATION

Location: Wetzel County, WV
Field: Wetzel
Facility: Galmish Pad

Slot: Slot H
Well: Cobb Unit 1H
Wellbore: Cobb Unit 1H PWB

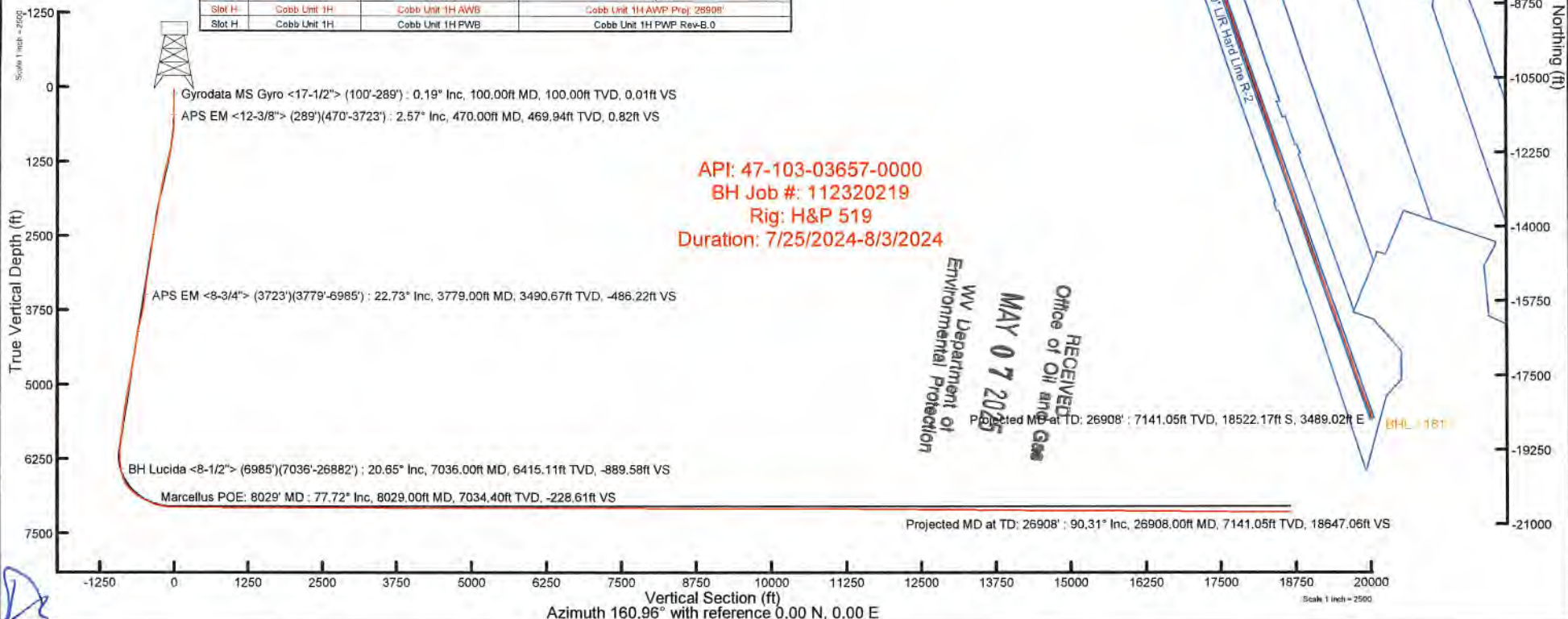


Plot reference wellpath is Cobb Unit 1H PWB Rev-6.0	Grid System: NAD27 / UTM Zone 17 North, US foot
True vertical depths are referenced to H&P 519 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 519 (RKB)	Scale: True distance
H&P 519 (RKB) to Mean Sea Level: 1191 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot H): -1191 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's defined MD datum	Created by: encharge on 20240529; Database: WA, MP, EASTERNUS, Data

Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Galmish Pad	1726216.430	14372266.790	39°34'36.1900"N	80°41'43.8200"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot H	0.00	0.00	1726216.430	14372266.790
Comment: Cobb Unit 1H				
H&P 519 (RKB) to Ground level (At Slot: Slot H)				30ft
Mean Sea Level to Ground level (At Slot: Slot H)				-1191ft
H&P 519 (RKB) to Mean Sea Level				1191ft

Well Profile Data								
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	30.00	0.000	278.000	30.00	0.00	0.00	0.00	0.00
KOP 1	380.00	0.000	278.000	380.00	0.00	0.00	0.00	0.00
End of Build	1249.00	26.088	278.000	1219.86	27.08	-192.68	3.00	-88.46
Hold	2118.23	26.088	278.000	2000.00	80.24	-570.95	0.00	-262.11
End of 3D Arc	2302.92	26.201	268.615	2165.85	85.62	-651.96	2.00	-293.62
Curve KOP	6691.91	26.201	268.615	6103.86	72.61	-2589.76	0.00	-913.49
POE	7972.59	74.970	160.964	7016.00	-649.76	-2689.53	6.60	-263.19
Landing Pt.	8187.30	90.000	160.964	7044.00	-850.40	-2620.30	7.00	-50.94
BHL	26887.23	90.000	160.964	7044.00	-18527.71	3478.90	0.00	18648.99

Well Data			
Slot	Well	Wellbore	Wellpath
Slot H	Cobb Unit 1H	Cobb Unit 1H AWP	Cobb Unit 1H AWP Proj: 26908'
Slot H	Cobb Unit 1H	Cobb Unit 1H PWB	Cobb Unit 1H PWB Rev-6.0



API: 47-103-03657-0000
BH Job #: 112320219
Rig: H&P 519
Duration: 7/25/2024-8/3/2024

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Projected MD at TD: 26908' : 7141.05ft TVD, 18522.17ft S, 3489.02ft E
Projected MD at TD: 26908' : 90.31" Inc, 26908.00ft MD, 7141.05ft TVD, 18647.06ft VS



Actual Wellpath Report

Cobb Unit 1H AWP Proj: 26908'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Cobb Unit 1H
Field	Wetzel	API	47-103-03657-0000
Facility	Galmish Pad	Wellbore	Cobb Unit 1H AWB
Slot	Slot H		

REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999608	Report Generated	8/29/2024 at 10:30:02 PM
Convergence at slot	0.19° East	Database	WA_MPL_EASTERNUS_Defn

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	1726216.43	14372266.79	39°34'38.1900"N	80°41'43.8200"W
Facility Reference Pt			1726216.43	14372266.79	39°34'38.1900"N	80°41'43.8200"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.3013"W

WELLPATH DATUM

Calculation method	Minimum curvature	H&P 519 (RKB) to Facility Vertical Datum	1191.00ft
Horizontal Reference Pt	Slot	H&P 519 (RKB) to Mean Sea Level	1191.00ft
Vertical Reference Pt	H&P 519 (RKB)	H&P 519 (RKB) to Ground Level at Slot (Slot H)	30.00ft
MD Reference Pt	H&P 519 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	160.96°

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Field	Wetzel	API	47-103-03657-0000
Facility	Galmish Pad	Wellbore	Cobb Unit 1H AWB
Slot	Slot H		

WELLPATH DATA (294 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
0.00†	0.000	76.270	0.00	0.00	0.00	0.00	1726216.43	14372266.79	39°34'38.1900"N	80°41'43.8200"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	76.270	30.00	0.00	0.00	0.00	1726216.43	14372266.79	39°34'38.1900"N	80°41'43.8200"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.190	76.270	100.00	0.01	0.03	0.11	1726216.54	14372266.82	39°34'38.1902"N	80°41'43.8186"W	0.12	76.270	0.27	0.27	0.00	Gyrodata MS Gyro <17-1/2"> (100'-289')
200.00	0.250	90.530	200.00	0.10	0.06	0.49	1726216.92	14372266.85	39°34'38.1906"N	80°41'43.8138"W	0.50	82.487	0.08	0.08	14.26	
289.00	0.370	133.830	289.00	0.42	-0.14	0.89	1726217.32	14372266.65	39°34'38.1886"N	80°41'43.8086"W	0.90	98.650	0.29	0.13	48.65	
470.00	2.570	252.640	469.94	0.82	-1.75	-2.56	1726213.87	14372265.04	39°34'38.1727"N	80°41'43.8528"W	3.10	235.604	1.53	1.22	65.64	APS EM <12-3/8"> (289')(470'-3723')
559.00	5.130	265.190	558.73	-0.22	-2.68	-8.43	1726208.00	14372264.11	39°34'38.1637"N	80°41'43.9278"W	8.85	252.357	3.01	2.88	14.10	
648.00	7.300	276.820	647.21	-3.66	-2.34	-18.01	1726198.43	14372264.45	39°34'38.1674"N	80°41'44.0501"W	18.16	262.588	2.81	2.44	13.07	
737.00	9.680	281.500	735.23	-9.93	-0.18	-30.96	1726185.48	14372266.61	39°34'38.1892"N	80°41'44.2154"W	30.96	269.668	2.78	2.67	5.26	
827.00	12.630	285.250	823.52	-19.32	3.92	-47.87	1726188.58	14372270.71	39°34'38.2303"N	80°41'44.4312"W	48.03	274.679	3.37	3.28	4.17	
918.00	14.940	284.110	911.89	-31.34	9.40	-68.85	1726147.61	14372276.18	39°34'38.2851"N	80°41'44.6989"W	69.49	277.771	2.56	2.54	-1.25	
1008.00	18.320	285.690	998.12	-45.75	16.05	-93.72	1726122.74	14372282.83	39°34'38.3517"N	80°41'45.0163"W	95.09	279.718	3.79	3.76	1.76	
1102.00	22.040	283.810	1086.33	-63.74	24.26	-125.09	1726091.39	14372291.04	39°34'38.4339"N	80°41'45.4164"W	127.42	280.976	4.02	3.96	-2.00	
1197.00	25.810	283.000	1173.15	-84.39	33.17	-162.56	1726053.93	14372299.95	39°34'38.5232"N	80°41'45.8946"W	165.91	281.532	3.98	3.97	-0.85	
1291.00	26.820	282.260	1257.41	-106.26	42.28	-203.22	1726013.29	14372309.05	39°34'38.6146"N	80°41'46.4135"W	207.57	281.751	1.13	1.07	-0.79	
1385.00	26.080	280.890	1341.57	-127.59	50.68	-244.24	1725972.29	14372317.45	39°34'38.6990"N	80°41'46.9369"W	249.44	281.723	1.02	-0.79	-1.46	
1480.00	25.360	278.350	1427.16	-147.37	57.58	-284.87	1725931.67	14372324.35	39°34'38.7686"N	80°41'47.4556"W	290.63	281.427	1.39	-0.76	-2.67	
1574.00	27.070	276.430	1511.49	-165.83	62.90	-326.05	1725890.51	14372329.67	39°34'38.8225"N	80°41'47.9812"W	332.06	280.919	2.03	1.82	-2.04	
1669.00	28.690	274.530	1595.46	-184.24	67.12	-370.26	1725846.31	14372333.89	39°34'38.8657"N	80°41'48.5457"W	376.30	280.275	1.94	1.71	-2.00	
1763.00	28.730	272.740	1677.91	-201.65	69.99	-415.32	1725801.27	14372336.75	39°34'38.8955"N	80°41'49.1210"W	421.18	279.565	0.92	0.04	-1.90	
1858.00	28.370	271.410	1761.36	-218.00	71.63	-460.69	1725755.92	14372338.39	39°34'38.9133"N	80°41'49.7004"W	466.23	278.838	0.77	-0.38	-1.40	
1952.00	28.460	268.280	1844.04	-232.48	71.51	-505.41	1725711.22	14372338.27	39°34'38.9136"N	80°41'50.2715"W	510.44	278.053	1.59	0.10	-3.33	
2046.00	27.470	269.980	1927.06	-246.21	70.83	-549.48	1725667.17	14372337.59	39°34'38.9083"N	80°41'50.8343"W	554.03	277.345	1.35	-1.05	1.81	
2140.00	26.500	269.240	2010.83	-259.85	70.54	-592.13	1725624.53	14372337.31	39°34'38.9069"N	80°41'51.3790"W	596.32	276.794	1.09	-1.03	-0.79	
2235.00	25.540	270.980	2096.20	-273.51	70.61	-633.80	1725582.88	14372337.38	39°34'38.9090"N	80°41'51.9112"W	637.72	276.357	1.29	-1.01	1.83	
2329.00	25.120	273.790	2181.16	-288.19	72.28	-673.97	1725542.72	14372339.04	39°34'38.9268"N	80°41'52.4241"W	677.84	276.121	1.35	-0.45	2.99	
2423.00	25.390	272.740	2266.18	-303.41	74.56	-714.01	1725502.70	14372341.32	39°34'38.9506"N	80°41'52.9353"W	717.89	275.962	0.56	0.29	-1.12	
2518.00	26.180	272.030	2351.72	-318.50	76.28	-755.30	1725461.43	14372343.04	39°34'38.9690"N	80°41'53.4625"W	759.14	275.767	0.89	0.83	-0.75	
2612.00	26.430	271.210	2435.99	-333.20	77.45	-796.94	1725419.81	14372344.21	39°34'38.9820"N	80°41'53.9943"W	800.69	275.551	0.47	0.27	-0.87	
2706.00	26.080	269.360	2520.29	-346.96	77.66	-838.51	1725378.25	14372344.42	39°34'38.9854"N	80°41'54.5252"W	842.10	275.292	0.95	-0.37	-1.97	



Actual Wellpath Report

Cobb Unit 1H AWP Proj: 26908'

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Field	Wetzel	API	47-103-03657-0000
Facility	Galmish Pad	Wellbore	Cobb Unit 1H AWP
Slot	Slot H		

WELLPATH DATA (294 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
2801.00	26.370	268.390	2605.51	-359.87	76.84	-880.48	1725336.29	14372343.60	39°34'38.9787"N	80°41'55.0613"W	883.83	274.987	0.54	0.31	-1.02	
2895.00	26.170	266.590	2689.80	-371.71	75.02	-922.04	1725294.75	14372341.78	39°34'38.9621"N	80°41'55.5921"W	925.09	274.651	0.87	-0.21	-1.91	
2989.00	25.910	267.720	2774.26	-383.22	72.97	-963.26	1725253.55	14372339.73	39°34'38.9432"N	80°41'56.1185"W	966.02	274.332	0.60	-0.28	1.20	
3084.00	25.530	267.600	2859.85	-395.07	71.29	-1004.45	1725212.38	14372338.05	39°34'38.9279"N	80°41'56.6447"W	1006.98	274.059	0.40	-0.40	-0.13	
3178.00	25.340	268.560	2944.74	-406.95	69.93	-1044.80	1725172.04	14372336.69	39°34'38.9159"N	80°41'57.1600"W	1047.14	273.829	0.48	-0.20	1.02	
3272.00	25.550	270.830	3029.62	-419.92	69.72	-1085.18	1725131.88	14372336.48	39°34'38.9151"N	80°41'57.6757"W	1087.41	273.676	1.06	0.22	2.41	
3367.00	25.360	271.170	3115.40	-433.91	70.43	-1126.00	1725090.87	14372337.19	39°34'38.9235"N	80°41'58.1970"W	1128.20	273.579	0.25	-0.20	0.36	
3461.00	25.450	272.310	3200.31	-448.22	71.66	-1166.31	1725050.58	14372338.42	39°34'38.9369"N	80°41'58.7117"W	1168.51	273.516	0.53	0.10	1.21	
3555.00	24.500	268.870	3285.53	-461.57	72.09	-1205.98	1725010.93	14372338.85	39°34'38.9425"N	80°41'59.2183"W	1208.13	273.421	1.85	-1.01	-3.66	
3650.00	23.800	267.290	3372.21	-473.02	70.79	-1244.82	1724972.10	14372337.55	39°34'38.9310"N	80°41'59.7144"W	1246.83	273.255	1.00	-0.74	-1.66	
3723.00	23.300	265.910	3439.13	-480.88	69.07	-1273.94	1724943.00	14372335.83	39°34'38.9149"N	80°42'0.0863"W	1275.81	273.103	1.02	-0.68	-1.89	
3779.00	22.730	264.240	3490.67	-486.22	67.19	-1295.75	1724921.19	14372333.95	39°34'38.8970"N	80°42'0.3649"W	1297.49	272.968	1.55	-1.02	-2.98	APS EM <8-3/4"> (3723')(3779'-6985')
3873.00	23.840	262.610	3577.02	-494.23	62.92	-1332.66	1724884.30	14372329.69	39°34'38.8561"N	80°42'0.8365"W	1334.14	272.703	1.37	1.18	-1.73	
3967.00	28.320	268.030	3661.44	-504.62	59.71	-1373.80	1724843.17	14372326.48	39°34'38.8257"N	80°42'1.3621"W	1375.10	272.489	5.39	4.77	5.77	
4062.00	30.990	269.560	3743.99	-519.04	58.75	-1420.79	1724796.20	14372325.52	39°34'38.8177"N	80°42'1.9622"W	1422.01	272.368	2.92	2.81	1.61	
4156.00	32.220	272.870	3824.05	-536.11	59.82	-1470.02	1724746.99	14372326.59	39°34'38.8299"N	80°42'2.5909"W	1471.24	272.330	2.26	1.31	3.52	
4251.00	33.150	273.510	3904.01	-555.52	62.68	-1521.24	1724695.78	14372329.44	39°34'38.8599"N	80°42'3.2449"W	1522.54	272.359	1.04	0.98	0.67	
4345.00	31.750	274.890	3983.33	-575.41	66.36	-1571.54	1724645.51	14372333.12	39°34'38.8979"N	80°42'3.8871"W	1572.94	272.418	1.68	-1.49	1.47	
4439.00	30.710	272.190	4063.71	-594.13	69.38	-1620.17	1724596.89	14372336.15	39°34'38.9294"N	80°42'4.5081"W	1621.66	272.452	1.86	-1.11	-2.87	
4533.00	25.080	271.780	4146.75	-609.92	70.92	-1664.11	1724552.98	14372337.68	39°34'38.9460"N	80°42'5.0691"W	1665.62	272.440	5.99	-5.99	-0.44	
4628.00	23.430	268.090	4233.37	-622.64	70.92	-1703.11	1724513.99	14372337.68	39°34'38.9473"N	80°42'5.5672"W	1704.59	272.384	2.36	-1.74	-3.88	
4722.00	23.200	269.830	4319.70	-634.13	70.24	-1740.31	1724476.81	14372337.00	39°34'38.9418"N	80°42'6.0422"W	1741.72	272.311	0.77	-0.24	1.85	
4817.00	25.560	271.040	4406.22	-647.22	70.56	-1779.52	1724437.61	14372337.32	39°34'38.9462"N	80°42'6.5430"W	1780.91	272.271	2.54	2.48	1.27	
4911.00	27.040	268.510	4490.49	-660.63	70.37	-1821.15	1724395.99	14372337.13	39°34'38.9457"N	80°42'7.0747"W	1822.51	272.213	1.97	1.57	-2.69	
5006.00	25.470	268.660	4574.79	-673.22	69.34	-1862.72	1724354.44	14372336.10	39°34'38.9369"N	80°42'7.6056"W	1864.01	272.132	1.67	-1.67	0.16	
5100.00	25.980	274.090	4660.38	-687.61	70.35	-1903.90	1724313.27	14372337.11	39°34'38.9482"N	80°42'8.1315"W	1905.20	272.116	2.54	0.54	5.72	
5194.00	26.140	276.360	4744.83	-704.58	74.11	-1945.02	1724272.17	14372340.87	39°34'38.9867"N	80°42'8.6564"W	1946.43	272.182	1.07	0.17	2.41	
5288.00	24.450	272.210	4829.82	-720.51	77.15	-1985.05	1724232.17	14372343.91	39°34'39.0181"N	80°42'9.1675"W	1986.54	272.226	2.60	-1.80	-4.41	
5382.00	25.450	270.620	4915.05	-734.36	78.12	-2024.68	1724192.55	14372344.88	39°34'39.0290"N	80°42'9.6736"W	2026.19	272.210	1.28	1.06	-1.69	
5477.00	27.630	272.460	5000.03	-749.30	79.29	-2067.11	1724150.14	14372346.05	39°34'39.0419"N	80°42'10.2154"W	2068.83	272.197	2.45	2.29	1.94	



Actual Wellpath Report

Cobb Unit 1H AWP Proj: 26908'
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Slot	Slot H		

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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
5571.00	27.010	272.610	5083.55	-765.16	81.20	-2110.21	1724107.05	14372347.95	39°34'39.0622"N	80°42'10.7657"W	2111.77	272.204	0.66	-0.66	0.16	
5666.00	26.210	273.550	5168.49	-781.18	83.48	-2152.69	1724064.58	14372350.24	39°34'39.0861"N	80°42'11.3082"W	2154.31	272.221	0.95	-0.84	0.99	
5760.00	24.530	271.150	5253.42	-795.89	85.16	-2192.93	1724024.37	14372351.91	39°34'39.1040"N	80°42'11.8219"W	2194.58	272.224	2.10	-1.79	-2.55	
5854.00	24.520	269.050	5338.94	-808.68	85.22	-2231.94	1723985.37	14372351.98	39°34'39.1060"N	80°42'12.3202"W	2233.57	272.187	0.93	-0.01	-2.23	
5949.00	28.130	269.480	5424.07	-821.92	84.69	-2274.06	1723943.27	14372351.45	39°34'39.1021"N	80°42'12.8581"W	2275.63	272.133	3.81	3.80	0.45	
6043.00	28.740	267.910	5506.73	-835.55	83.67	-2318.80	1723898.54	14372350.42	39°34'39.0934"N	80°42'13.4295"W	2320.31	272.066	1.03	0.65	-1.67	
6137.00	26.850	264.410	5589.89	-847.08	80.78	-2362.52	1723854.84	14372347.53	39°34'39.0662"N	80°42'13.9880"W	2363.90	271.958	2.66	-2.01	-3.72	
6232.00	26.500	266.250	5674.78	-857.66	77.30	-2405.02	1723812.36	14372344.06	39°34'39.0333"N	80°42'14.5309"W	2406.26	271.841	0.94	-0.37	1.94	
6326.00	26.420	267.020	5758.93	-868.97	74.84	-2446.83	1723770.56	14372341.60	39°34'39.0103"N	80°42'15.0650"W	2447.98	271.752	0.37	-0.09	0.82	
6420.00	24.520	262.250	5843.80	-878.58	71.12	-2487.05	1723730.36	14372337.88	39°34'38.9749"N	80°42'15.5788"W	2488.07	271.638	2.97	-2.02	-5.07	
6515.00	22.980	262.830	5930.76	-886.25	66.15	-2524.99	1723692.44	14372332.91	39°34'38.9270"N	80°42'16.0634"W	2525.85	271.501	1.64	-1.62	0.61	
6609.00	24.180	268.120	6016.92	-895.71	63.23	-2562.44	1723655.00	14372329.99	39°34'38.8993"N	80°42'16.5419"W	2563.22	271.413	2.59	1.28	5.63	
6702.00	23.710	262.390	6101.92	-905.03	60.13	-2600.01	1723617.44	14372326.89	39°34'38.8699"N	80°42'17.0219"W	2600.71	271.325	2.55	-0.51	-6.16	
6798.00	19.920	248.840	6191.09	-908.26	51.66	-2634.43	1723583.04	14372318.43	39°34'38.7873"N	80°42'17.4617"W	2634.94	271.123	6.54	-3.95	-14.11	
6892.00	19.270	238.030	6279.67	-904.19	37.66	-2662.53	1723554.95	14372304.43	39°34'38.6499"N	80°42'17.8212"W	2662.80	270.810	3.91	-0.69	-11.50	
6985.00	19.980	231.660	6367.28	-895.51	19.68	-2688.02	1723529.47	14372286.46	39°34'38.4730"N	80°42'18.1474"W	2688.09	270.419	2.42	0.76	-6.85	
7036.00	20.650	231.140	6415.11	-889.58	8.63	-2701.85	1723515.64	14372275.42	39°34'38.3642"N	80°42'18.3246"W	2701.87	270.183	1.36	1.31	-1.02	BH Lucida <8-1/2"> (6985')(7036'-26882')
7108.00	22.440	223.350	6482.09	-878.90	-9.33	-2721.18	1723496.32	14372257.46	39°34'38.1873"N	80°42'18.5721"W	2721.19	269.803	4.68	2.49	-10.82	
7202.00	29.530	207.030	6566.64	-854.45	-43.10	-2744.08	1723473.43	14372223.71	39°34'37.8543"N	80°42'18.8660"W	2744.42	269.100	10.65	7.54	-17.36	
7296.00	35.180	195.510	6646.09	-816.01	-89.91	-2761.88	1723455.64	14372176.91	39°34'37.3923"N	80°42'19.0953"W	2763.34	268.135	8.87	6.01	-12.26	
7341.00†	37.665	190.219	6682.31	-793.33	-115.94	-2767.79	1723449.73	14372150.89	39°34'37.1352"N	80°42'19.1718"W	2770.21	267.601	8.90	5.52	-11.76	Sycamore: 7341' MD
7390.00	40.610	185.120	6720.32	-765.70	-146.58	-2771.87	1723445.65	14372120.27	39°34'36.8326"N	80°42'19.2252"W	2775.74	266.973	8.90	6.01	-10.41	
7485.00	47.800	176.350	6788.44	-703.43	-212.64	-2772.39	1723445.13	14372054.24	39°34'36.1797"N	80°42'19.2346"W	2780.53	265.614	9.92	7.57	-9.23	
7525.00†	50.616	174.281	6814.57	-674.09	-242.81	-2769.90	1723447.62	14372024.07	39°34'35.8814"N	80°42'19.2042"W	2780.53	264.990	8.05	7.04	-5.17	Middlesex: 7525' MD
7579.00	54.470	171.740	6847.41	-632.18	-285.34	-2764.66	1723452.85	14371981.56	39°34'35.4609"N	80°42'19.1391"W	2779.35	264.107	8.05	7.14	-4.71	
7673.00	60.050	168.540	6898.24	-554.16	-363.18	-2751.07	1723466.45	14371903.75	39°34'34.6911"N	80°42'18.9686"W	2774.93	262.480	6.59	5.94	-3.40	
7698.00†	60.534	168.385	6910.62	-532.63	-384.46	-2746.72	1723470.79	14371882.48	39°34'34.4807"N	80°42'18.9141"W	2773.50	262.032	2.01	1.94	-0.62	Burkett: 7698' MD
7764.00†	61.812	167.984	6942.45	-475.27	-441.05	-2734.88	1723482.62	14371825.91	39°34'33.9210"N	80°42'18.7652"W	2770.22	260.839	2.01	1.94	-0.61	Tully: 7764' MD
7768.00	61.890	167.960	6944.33	-471.77	-444.50	-2734.15	1723483.36	14371822.46	39°34'33.8869"N	80°42'18.7560"W	2770.04	260.766	2.01	1.94	-0.60	
7862.00	66.920	166.120	6984.93	-387.50	-527.08	-2715.11	1723502.39	14371739.92	39°34'33.0701"N	80°42'18.5164"W	2765.80	259.014	5.63	5.35	-1.96	



Actual Wellpath Report

Cobb Unit 1H AWP Proj: 26908'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Cobb Unit 1H
Field	Wetzel	API	47-103-03657-0000
Facility	Galmish Pad	Wellbore	Cobb Unit 1H AWP
Slot	Slot H		

WELLPATH DATA (294 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
7957.00	73.910	164.200	7016.76	-298.30	-613.53	-2692.17	1723525.32	14371653.50	39°34'32.2150"N	80°42'18.2270"W	2761.20	257.162	7.60	7.36	-2.02	
8029.00†	77.717	163.900	7034.40	-228.61	-680.64	-2672.99	1723544.49	14371586.42	39°34'31.5512"N	80°42'17.9849"W	2758.29	255.714	5.30	5.29	-0.42	Marcellus POE: 8029' MD
8051.00	78.880	163.810	7038.86	-207.09	-701.33	-2667.00	1723550.48	14371565.74	39°34'31.3465"N	80°42'17.9093"W	2757.67	255.267	5.30	5.29	-0.41	
8146.00	82.010	162.090	7054.63	-113.48	-790.88	-2639.53	1723577.94	14371476.23	39°34'30.4606"N	80°42'17.5622"W	2755.47	253.320	3.75	3.29	-1.81	
8240.00	89.940	161.250	7061.23	-19.80	-879.81	-2610.07	1723607.39	14371387.32	39°34'29.5806"N	80°42'17.1896"W	2754.36	251.372	8.48	8.44	-0.89	
8334.00	89.820	161.500	7061.42	74.20	-968.89	-2580.04	1723637.40	14371298.28	39°34'28.6993"N	80°42'16.8100"W	2755.97	249.417	0.30	-0.13	0.27	
8428.00	89.880	161.570	7061.67	168.20	-1058.05	-2550.27	1723667.16	14371209.16	39°34'27.8171"N	80°42'16.4335"W	2761.04	247.468	0.10	0.06	0.07	
8523.00	89.880	161.330	7061.87	263.19	-1148.12	-2520.05	1723697.37	14371119.13	39°34'26.9260"N	80°42'16.0514"W	2769.26	245.506	0.25	0.00	-0.25	
8617.00	89.780	161.110	7062.15	357.19	-1237.11	-2489.79	1723727.62	14371030.17	39°34'26.0455"N	80°42'15.6686"W	2780.20	243.578	0.26	-0.11	-0.23	
8711.00	89.910	161.410	7062.40	451.19	-1326.13	-2459.59	1723757.81	14370941.19	39°34'25.1647"N	80°42'15.2867"W	2794.31	241.668	0.35	0.14	0.32	
8806.00	89.780	160.870	7062.66	546.19	-1416.03	-2428.88	1723788.51	14370851.32	39°34'24.2752"N	80°42'14.8983"W	2811.51	239.758	0.58	-0.14	-0.57	
8900.00	89.690	160.280	7063.09	640.18	-1504.67	-2397.62	1723819.76	14370762.71	39°34'23.3981"N	80°42'14.5029"W	2830.66	237.889	0.63	-0.10	-0.63	
8994.00	89.420	160.690	7063.82	734.18	-1593.27	-2366.22	1723851.14	14370674.15	39°34'22.5215"N	80°42'14.1056"W	2852.63	236.046	0.52	-0.29	0.44	
9088.00	89.880	161.510	7064.40	828.17	-1682.20	-2335.77	1723881.58	14370585.25	39°34'21.6416"N	80°42'13.7205"W	2878.48	234.239	1.00	0.49	0.87	
9183.00	89.540	161.400	7064.88	923.17	-1772.27	-2305.56	1723911.78	14370495.22	39°34'20.7504"N	80°42'13.3385"W	2908.01	232.451	0.38	-0.36	-0.12	
9277.00	89.850	160.140	7065.38	1017.17	-1861.02	-2274.60	1723942.73	14370406.50	39°34'19.8723"N	80°42'12.9469"W	2938.91	230.711	1.38	0.33	-1.34	
9372.00	89.750	161.050	7065.71	1112.16	-1950.62	-2243.03	1723974.28	14370316.94	39°34'18.9857"N	80°42'12.5476"W	2972.56	228.989	0.96	-0.11	0.96	
9466.00	89.630	160.820	7066.22	1206.16	-2039.46	-2212.33	1724004.97	14370228.13	39°34'18.1067"N	80°42'12.1593"W	3008.96	227.328	0.28	-0.13	-0.24	
9560.00	89.850	160.600	7066.64	1300.16	-2128.18	-2181.28	1724036.01	14370139.44	39°34'17.2288"N	80°42'11.7665"W	3047.48	225.706	0.33	0.23	-0.23	
9654.00	90.120	161.190	7066.67	1394.16	-2217.01	-2150.51	1724066.76	14370050.66	39°34'16.3499"N	80°42'11.3773"W	3088.66	224.128	0.69	0.29	0.63	
9748.00	90.060	160.900	7066.52	1488.16	-2305.91	-2119.98	1724097.29	14369961.79	39°34'15.4703"N	80°42'10.9912"W	3132.34	222.594	0.32	-0.06	-0.31	
9842.00	90.150	161.080	7066.35	1582.16	-2394.78	-2089.36	1724127.89	14369872.95	39°34'14.5910"N	80°42'10.6039"W	3178.11	221.104	0.21	0.10	0.19	
9936.00	89.630	160.660	7066.53	1676.16	-2483.59	-2058.56	1724158.69	14369784.18	39°34'13.7122"N	80°42'10.2143"W	3225.81	219.654	0.71	-0.55	-0.45	
10032.00	89.570	160.180	7067.20	1772.15	-2574.04	-2026.38	1724190.84	14369693.77	39°34'12.8173"N	80°42'9.8073"W	3275.96	218.211	0.50	-0.06	-0.50	
10126.00	89.850	160.570	7067.68	1866.14	-2662.57	-1994.81	1724222.40	14369605.26	39°34'11.9412"N	80°42'9.4079"W	3326.95	216.841	0.51	0.30	0.41	
10220.00	89.630	161.020	7068.10	1960.14	-2751.34	-1963.89	1724253.31	14369516.53	39°34'11.0629"N	80°42'9.0168"W	3380.35	215.519	0.53	-0.23	0.48	
10315.00	89.690	161.140	7068.67	2055.14	-2841.21	-1933.09	1724284.10	14369426.70	39°34'10.1737"N	80°42'8.6273"W	3436.47	214.230	0.14	0.06	0.13	
10409.00	89.570	160.830	7069.27	2149.14	-2930.08	-1902.46	1724314.71	14369337.87	39°34'9.2944"N	80°42'8.2400"W	3493.53	212.995	0.35	-0.13	-0.33	
10503.00	89.690	161.180	7069.88	2243.14	-3018.96	-1871.87	1724345.30	14369249.02	39°34'8.4150"N	80°42'7.8530"W	3552.18	211.801	0.39	0.13	0.37	
10598.00	89.720	160.990	7070.37	2338.13	-3108.82	-1841.07	1724376.08	14369159.19	39°34'7.5258"N	80°42'7.4636"W	3613.08	210.634	0.20	0.03	-0.20	



Actual Wellpath Report

Cobb Unit 1H AWP Proj: 26908'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Cobb Unit 1H
Field	Wetzel	API	47-103-03657-0000
Facility	Galmish Pad	Wellbore	Cobb Unit 1H AWB
Slot	Slot H		

WELLPATH DATA (294 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
10692.00	89.780	161.160	7070.78	2432.13	-3197.74	-1810.59	1724406.56	14369070.31	39°34'6.6460"N	80°42'7.0781"W	3674.75	209.519	0.19	0.06	0.18	
10786.00	89.690	160.990	7071.21	2526.13	-3286.66	-1780.10	1724437.03	14368981.42	39°34'5.7662"N	80°42'6.6925"W	3737.77	208.441	0.20	-0.10	-0.18	
10881.00	89.750	161.010	7071.68	2621.13	-3376.48	-1749.17	1724467.95	14368891.64	39°34'4.8775"N	80°42'6.3014"W	3802.66	207.386	0.07	0.06	0.02	
10975.00	90.030	160.910	7071.86	2715.13	-3465.34	-1718.51	1724498.60	14368802.81	39°34'3.9983"N	80°42'5.9136"W	3868.05	206.377	0.32	0.30	-0.11	
11069.00	90.000	161.000	7071.83	2809.13	-3554.20	-1687.83	1724529.26	14368713.99	39°34'3.1191"N	80°42'5.5257"W	3934.60	205.402	0.10	-0.03	0.10	
11163.00	89.910	160.710	7071.91	2903.13	-3643.00	-1657.00	1724560.08	14368625.23	39°34'2.2405"N	80°42'5.1358"W	4002.14	204.458	0.32	-0.10	-0.31	
11258.00	89.940	160.850	7072.03	2998.13	-3732.70	-1625.73	1724591.34	14368535.56	39°34'1.3529"N	80°42'4.7403"W	4071.37	203.535	0.15	0.03	0.15	
11352.00	89.820	160.820	7072.23	3092.13	-3821.49	-1594.87	1724622.19	14368446.80	39°34'0.4743"N	80°42'4.3500"W	4140.94	202.653	0.13	-0.13	-0.03	
11446.00	90.090	160.830	7072.30	3186.13	-3910.28	-1564.00	1724653.05	14368358.05	39°33'59.5958"N	80°42'3.9595"W	4211.45	201.800	0.29	0.29	0.01	
11540.00	89.910	160.770	7072.30	3280.13	-3999.05	-1533.08	1724683.95	14368269.32	39°33'58.7175"N	80°42'3.5686"W	4282.84	200.975	0.20	-0.19	-0.06	
11635.00	89.910	160.780	7072.45	3375.13	-4088.75	-1501.80	1724715.22	14368179.65	39°33'57.8299"N	80°42'3.1730"W	4355.83	200.168	0.01	0.00	0.01	
11729.00	89.940	160.530	7072.58	3469.13	-4177.44	-1470.66	1724746.34	14368090.99	39°33'56.9523"N	80°42'2.7791"W	4428.76	199.395	0.27	0.03	-0.27	
11823.00	89.780	160.480	7072.81	3563.12	-4266.05	-1439.29	1724777.70	14368002.42	39°33'56.0755"N	80°42'2.3824"W	4502.31	198.644	0.18	-0.17	-0.05	
11917.00	90.030	160.850	7072.96	3657.12	-4354.75	-1408.17	1724808.81	14367913.75	39°33'55.1979"N	80°42'1.9887"W	4576.77	197.919	0.48	0.27	0.39	
12012.00	89.780	160.360	7073.12	3752.12	-4444.36	-1376.62	1724840.35	14367824.18	39°33'54.3112"N	80°42'1.5897"W	4652.68	197.210	0.58	-0.26	-0.52	
12106.00	89.910	160.780	7073.37	3846.12	-4533.00	-1345.36	1724871.60	14367735.57	39°33'53.4341"N	80°42'1.1942"W	4728.44	196.530	0.47	0.14	0.45	
12201.00	89.940	160.640	7073.50	3941.12	-4622.67	-1313.97	1724902.97	14367645.94	39°33'52.5469"N	80°42'0.7973"W	4805.79	195.868	0.15	0.03	-0.15	
12295.00	90.060	161.210	7073.50	4035.11	-4711.51	-1283.25	1724933.68	14367557.13	39°33'51.6678"N	80°42'0.4089"W	4883.14	195.236	0.62	0.13	0.61	
12389.00	90.000	161.000	7073.45	4129.11	-4800.44	-1252.81	1724964.11	14367468.24	39°33'50.7879"N	80°42'0.0240"W	4961.23	194.627	0.23	-0.06	-0.22	
12484.00	90.000	160.880	7073.45	4224.11	-4890.24	-1221.79	1724995.12	14367378.48	39°33'49.8994"N	80°41'59.6317"W	5040.55	194.028	0.13	0.00	-0.13	
12578.00	90.120	160.850	7073.35	4318.11	-4979.04	-1190.98	1725025.92	14367289.71	39°33'49.0207"N	80°41'59.2420"W	5119.50	193.452	0.13	0.13	-0.03	
12672.00	90.000	160.580	7073.25	4412.11	-5067.77	-1159.93	1725056.96	14367201.02	39°33'48.1428"N	80°41'58.8494"W	5198.82	192.892	0.31	-0.13	-0.29	
12767.00	90.060	160.710	7073.20	4507.11	-5157.40	-1128.45	1725088.43	14367111.42	39°33'47.2559"N	80°41'58.4512"W	5279.41	192.342	0.15	0.06	0.14	
12861.00	89.940	160.630	7073.20	4601.11	-5246.10	-1097.33	1725119.53	14367022.76	39°33'46.3783"N	80°41'58.0577"W	5359.64	191.814	0.15	-0.13	-0.09	
12956.00	89.820	160.710	7073.40	4696.11	-5335.74	-1065.89	1725150.96	14366933.15	39°33'45.4912"N	80°41'57.6601"W	5441.16	191.297	0.15	-0.13	0.08	
13050.00	90.000	160.880	7073.55	4790.11	-5424.51	-1034.96	1725181.87	14366844.41	39°33'44.6129"N	80°41'57.2690"W	5522.36	190.802	0.26	0.19	0.18	
13144.00	90.030	160.980	7073.52	4884.11	-5513.35	-1004.25	1725212.57	14366755.61	39°33'43.7339"N	80°41'56.8807"W	5604.07	190.323	0.11	0.03	0.11	
13239.00	89.940	160.450	7073.55	4979.11	-5603.02	-972.88	1725243.94	14366665.97	39°33'42.8466"N	80°41'56.4839"W	5686.86	189.850	0.57	-0.09	-0.56	
13333.00	90.030	160.930	7073.57	5073.11	-5691.73	-941.79	1725275.01	14366577.30	39°33'41.9688"N	80°41'56.0909"W	5769.13	189.395	0.52	0.10	0.51	
13427.00	89.940	160.870	7073.80	5167.11	-5780.56	-911.04	1725305.75	14366488.51	39°33'41.0899"N	80°41'55.7019"W	5851.91	188.956	0.12	-0.10	-0.06	



Actual Wellpath Report

Cobb Unit 1H AWP Proj: 26908'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Cobb Unit 1H
Field	Wetzel	API	47-103-03657-0000
Facility	Galmish Pad	Wellbore	Cobb Unit 1H AWP
Slot	Slot H		

WELLPATH DATA (294 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
13522.00	90.060	160.900	7073.60	5262.11	-5870.32	-879.93	1725336.85	14366398.78	39°33'40.2018"N	80°41'55.3086"W	5935.90	188.525	0.13	0.13	0.03	
13616.00	89.970	160.630	7073.57	5356.10	-5959.07	-848.96	1725367.81	14366310.06	39°33'39.3236"N	80°41'54.9170"W	6019.24	188.108	0.30	-0.10	-0.29	
13710.00	90.000	160.860	7073.60	5450.10	-6047.82	-817.96	1725398.79	14366221.35	39°33'38.4455"N	80°41'54.5250"W	6102.88	187.702	0.25	0.03	0.24	
13805.00	89.880	160.460	7073.70	5545.10	-6137.45	-786.50	1725430.24	14366131.75	39°33'37.5585"N	80°41'54.1271"W	6187.64	187.303	0.44	-0.13	-0.42	
13899.00	90.000	160.970	7073.80	5639.10	-6226.18	-755.45	1725461.27	14366043.06	39°33'36.6806"N	80°41'53.7346"W	6271.84	186.918	0.56	0.13	0.54	
13993.00	89.910	160.850	7073.87	5733.10	-6315.01	-724.71	1725492.00	14365954.27	39°33'35.8017"N	80°41'53.3458"W	6356.46	186.547	0.16	-0.10	-0.13	
14087.00	89.970	160.960	7073.97	5827.10	-6403.84	-693.96	1725522.74	14365865.47	39°33'34.9227"N	80°41'52.9570"W	6441.33	186.185	0.13	0.06	0.12	
14181.00	89.910	160.930	7074.07	5921.10	-6492.69	-663.27	1725553.42	14365776.66	39°33'34.0436"N	80°41'52.5690"W	6526.48	185.833	0.07	-0.06	-0.03	
14276.00	89.970	160.940	7074.17	6016.10	-6582.48	-632.24	1725584.44	14365686.90	39°33'33.1552"N	80°41'52.1767"W	6612.77	185.486	0.06	0.06	0.01	
14370.00	89.970	160.890	7074.22	6110.10	-6671.31	-601.51	1725615.16	14365598.11	39°33'32.2762"N	80°41'51.7881"W	6698.37	185.152	0.05	0.00	-0.05	
14464.00	89.970	160.770	7074.26	6204.10	-6760.10	-570.64	1725646.02	14365509.35	39°33'31.3977"N	80°41'51.3978"W	6784.14	184.825	0.13	0.00	-0.13	
14558.00	90.000	160.980	7074.29	6298.10	-6848.91	-539.84	1725676.80	14365420.58	39°33'30.5189"N	80°41'51.0084"W	6870.15	184.507	0.23	0.03	0.22	
14653.00	89.690	160.550	7074.55	6393.10	-6938.60	-508.54	1725708.09	14365330.92	39°33'29.6314"N	80°41'50.6127"W	6957.22	184.192	0.56	-0.33	-0.45	
14747.00	89.970	160.930	7074.82	6487.10	-7027.34	-477.54	1725739.08	14365242.21	39°33'28.7533"N	80°41'50.2206"W	7043.55	183.888	0.50	0.30	0.40	
14840.00	90.030	160.930	7074.82	6580.10	-7115.24	-447.15	1725769.45	14365154.35	39°33'27.8836"N	80°41'49.8365"W	7129.28	183.596	0.06	0.06	0.00	
14935.00	89.940	160.920	7074.85	6675.10	-7205.02	-416.11	1725800.49	14365064.60	39°33'26.9952"N	80°41'49.4440"W	7217.03	183.305	0.10	-0.09	-0.01	
15028.00	90.030	160.830	7074.87	6768.10	-7292.89	-385.64	1725830.95	14364976.77	39°33'26.1258"N	80°41'49.0587"W	7303.08	183.027	0.14	0.10	-0.10	
15122.00	90.000	160.970	7074.85	6862.10	-7381.71	-354.88	1725861.69	14364887.98	39°33'25.2469"N	80°41'48.6698"W	7390.24	182.752	0.15	-0.03	0.15	
15216.00	89.820	160.600	7075.00	6956.10	-7470.48	-323.94	1725892.62	14364799.25	39°33'24.3686"N	80°41'48.2787"W	7477.50	182.483	0.44	-0.19	-0.39	
15311.00	89.510	160.910	7075.55	7051.09	-7560.17	-292.63	1725923.92	14364709.60	39°33'23.4812"N	80°41'47.8828"W	7565.83	182.217	0.46	-0.33	0.33	
15405.00	89.660	160.840	7076.23	7145.09	-7648.98	-261.83	1725954.70	14364620.82	39°33'22.6024"N	80°41'47.4934"W	7653.46	181.961	0.18	0.16	-0.07	
15499.00	89.570	160.710	7076.86	7239.09	-7737.73	-230.88	1725985.64	14364532.10	39°33'21.7242"N	80°41'47.1021"W	7741.18	181.709	0.17	-0.10	-0.14	
15593.00	89.570	161.060	7077.57	7333.09	-7826.55	-200.10	1726016.41	14364443.32	39°33'20.8454"N	80°41'46.7129"W	7829.10	181.465	0.37	0.00	0.37	
15687.00	89.600	160.700	7078.25	7427.08	-7915.36	-169.31	1726047.18	14364354.55	39°33'19.9666"N	80°41'46.3237"W	7917.17	181.225	0.38	0.03	-0.38	
15781.00	89.660	160.720	7078.86	7521.08	-8004.08	-138.26	1726078.22	14364265.86	39°33'19.0887"N	80°41'45.9311"W	8005.27	180.990	0.07	0.06	0.02	
15876.00	89.630	160.750	7079.45	7616.08	-8093.76	-106.92	1726109.56	14364176.22	39°33'18.2014"N	80°41'45.5348"W	8094.46	180.757	0.04	-0.03	0.03	
15970.00	89.720	160.910	7079.98	7710.08	-8182.54	-76.05	1726140.41	14364087.47	39°33'17.3229"N	80°41'45.1446"W	8182.90	180.532	0.20	0.10	0.17	
16065.00	89.690	160.690	7080.47	7805.07	-8272.26	-44.81	1726171.64	14363997.79	39°33'16.4351"N	80°41'44.7496"W	8272.38	180.310	0.23	-0.03	-0.23	
16159.00	89.690	160.860	7080.98	7899.07	-8361.02	-13.86	1726202.58	14363909.07	39°33'15.5569"N	80°41'44.3583"W	8361.03	180.095	0.18	0.00	0.18	
16253.00	89.690	161.010	7081.49	7993.07	-8449.86	16.85	1726233.27	14363820.26	39°33'14.6778"N	80°41'43.9701"W	8449.87	179.886	0.16	0.00	0.16	



Actual Wellpath Report

Cobb Unit 1H AWP Proj: 26908'

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REFERENCE WELLPATH IDENTIFICATION															
Operator	ANTERO RESOURCES CORPORATION							Well	Cobb Unit 1H						
Field	Wetzel							API	47-103-03657-0000						
Facility	Galmish Pad							Wellbore	Cobb Unit 1H AWB						
Slot	Slot H														

WELLPATH DATA (294 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
16348.00	89.690	160.780	7082.00	8088.07	-8539.62	47.94	1726264.35	14363730.53	39°33'13.7896"N	80°41'43.5771"W	8539.76	179.678	0.24	0.00	-0.24	
16442.00	89.720	160.840	7082.48	8182.07	-8628.40	78.84	1726295.24	14363641.79	39°33'12.9112"N	80°41'43.1864"W	8628.76	179.476	0.07	0.03	0.06	
16536.00	89.780	160.650	7082.89	8276.07	-8717.14	109.84	1726326.22	14363553.08	39°33'12.0331"N	80°41'42.7945"W	8717.83	179.278	0.21	0.06	-0.20	
16631.00	89.690	160.660	7083.33	8371.06	-8806.78	141.31	1726357.68	14363463.48	39°33'11.1462"N	80°41'42.3967"W	8807.91	179.081	0.10	-0.09	0.01	
16725.00	89.780	160.710	7083.77	8465.06	-8895.48	172.40	1726388.76	14363374.81	39°33'10.2684"N	80°41'42.0036"W	8897.15	178.890	0.11	0.10	0.05	
16819.00	89.660	160.770	7084.23	8559.06	-8984.22	203.40	1726419.75	14363286.10	39°33'9.3904"N	80°41'41.6116"W	8986.52	178.703	0.14	-0.13	0.06	
16913.00	89.690	160.740	7084.76	8653.06	-9072.97	234.39	1726450.72	14363197.39	39°33'8.5122"N	80°41'41.2199"W	9075.99	178.520	0.05	0.03	-0.03	
17008.00	89.750	160.770	7085.23	8748.06	-9162.66	265.70	1726482.02	14363107.74	39°33'7.6247"N	80°41'40.8240"W	9166.51	178.339	0.07	0.06	0.03	
17102.00	89.780	161.060	7085.61	8842.06	-9251.49	296.43	1726512.75	14363018.94	39°33'6.7458"N	80°41'40.4355"W	9256.24	178.165	0.31	0.03	0.31	
17196.00	89.660	160.830	7086.07	8936.05	-9340.34	327.12	1726543.42	14362930.13	39°33'5.8666"N	80°41'40.0476"W	9346.06	177.994	0.28	-0.13	-0.24	
17290.00	89.690	160.450	7086.60	9030.05	-9429.02	358.28	1726574.57	14362841.48	39°33'4.9891"N	80°41'39.6536"W	9435.83	177.824	0.41	0.03	-0.40	
17385.00	89.940	160.900	7086.91	9125.05	-9518.67	389.72	1726606.00	14362751.87	39°33'4.1021"N	80°41'39.2562"W	9526.64	177.655	0.54	0.26	0.47	
17479.00	89.750	160.620	7087.16	9219.05	-9607.42	420.69	1726636.96	14362663.15	39°33'3.2239"N	80°41'38.8646"W	9616.62	177.493	0.36	-0.20	-0.30	
17573.00	89.630	160.560	7087.67	9313.04	-9696.07	451.93	1726668.19	14362574.53	39°33'2.3466"N	80°41'38.4697"W	9706.60	177.331	0.14	-0.13	-0.06	
17668.00	89.380	160.790	7088.49	9408.04	-9785.72	483.37	1726699.61	14362484.92	39°33'1.4596"N	80°41'38.0723"W	9797.65	177.172	0.36	-0.26	0.24	
17762.00	90.030	161.120	7088.98	9502.04	-9874.57	514.04	1726730.27	14362396.11	39°33'0.5804"N	80°41'37.6846"W	9887.94	177.020	0.78	0.69	0.35	
17856.00	89.880	160.610	7089.05	9596.04	-9963.38	544.85	1726761.07	14362307.33	39°32'59.7017"N	80°41'37.2951"W	9978.26	176.870	0.57	-0.16	-0.54	
17950.00	90.180	160.940	7089.00	9690.04	-10052.13	575.81	1726792.01	14362218.61	39°32'58.8234"N	80°41'36.9038"W	10068.61	176.722	0.47	0.32	0.35	
18043.00	90.060	160.860	7088.81	9783.04	-10140.01	606.24	1726822.43	14362130.77	39°32'57.9539"N	80°41'36.5191"W	10158.12	176.579	0.16	-0.13	-0.09	
18138.00	90.090	160.760	7088.68	9878.04	-10229.74	637.46	1726853.64	14362041.08	39°32'57.0661"N	80°41'36.1244"W	10249.58	176.434	0.11	0.03	-0.11	
18232.00	90.120	160.720	7088.51	9972.04	-10318.47	668.47	1726884.64	14361952.38	39°32'56.1880"N	80°41'35.7325"W	10340.10	176.293	0.05	0.03	-0.04	
18326.00	90.000	160.900	7088.41	10066.03	-10407.25	699.37	1726915.52	14361863.64	39°32'55.3096"N	80°41'35.3419"W	10430.72	176.155	0.23	-0.13	0.19	
18420.00	90.060	160.720	7088.36	10160.03	-10496.03	730.27	1726946.41	14361774.89	39°32'54.4311"N	80°41'34.9513"W	10521.40	176.020	0.20	0.06	-0.19	
18515.00	90.000	160.930	7088.31	10255.03	-10585.76	761.47	1726977.60	14361685.20	39°32'53.5433"N	80°41'34.5569"W	10613.11	175.886	0.23	-0.06	0.22	
18609.00	90.000	161.070	7088.31	10349.03	-10674.64	792.07	1727008.19	14361596.36	39°32'52.6638"N	80°41'34.1701"W	10703.98	175.756	0.15	0.00	0.15	
18703.00	89.970	160.730	7088.34	10443.03	-10763.46	822.83	1727038.94	14361507.57	39°32'51.7849"N	80°41'33.7813"W	10794.87	175.628	0.36	-0.03	-0.36	
18798.00	89.940	160.750	7088.41	10538.03	-10853.14	854.17	1727070.26	14361417.92	39°32'50.8975"N	80°41'33.3852"W	10886.70	175.500	0.04	-0.03	0.02	
18892.00	90.060	160.780	7088.41	10632.03	-10941.90	885.14	1727101.22	14361329.20	39°32'50.0193"N	80°41'32.9938"W	10977.64	175.375	0.13	0.13	0.03	
18986.00	90.030	160.680	7088.34	10726.03	-11030.63	916.16	1727132.23	14361240.50	39°32'49.1413"N	80°41'32.6017"W	11068.61	175.252	0.11	-0.03	-0.11	
19080.00	89.970	161.240	7088.34	10820.03	-11119.49	946.82	1727162.88	14361151.68	39°32'48.2621"N	80°41'32.2141"W	11159.72	175.133	0.60	-0.06	0.60	



Actual Wellpath Report

Cobb Unit 1H AWP Proj: 26908'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Cobb Unit 1H
Field	Wetzel	API	47-103-03657-0000
Facility	Galmish Pad	Wellbore	Cobb Unit 1H AWP
Slot	Slot H		

WELLPATH DATA (294 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
19175.00	90.000	161.600	7088.36	10915.03	-11209.53	977.09	1727193.14	14361061.67	39°32'47.3711"N	80°41'31.8316"W	11252.04	175.018	0.38	0.03	0.38	
19269.00	90.000	161.750	7088.36	11009.02	-11298.77	1006.65	1727222.68	14360972.47	39°32'46.4881"N	80°41'31.4582"W	11343.52	174.909	0.16	0.00	0.16	
19364.00	90.000	161.450	7088.36	11104.01	-11388.91	1036.63	1727252.66	14360882.36	39°32'45.5962"N	80°41'31.0794"W	11435.99	174.799	0.32	0.00	-0.32	
19458.00	90.460	161.920	7087.99	11198.01	-11478.15	1066.17	1727282.18	14360793.16	39°32'44.7133"N	80°41'30.7062"W	11527.56	174.693	0.70	0.49	0.50	
19552.00	89.630	161.800	7087.91	11291.99	-11567.48	1095.44	1727311.44	14360703.87	39°32'43.8294"N	80°41'30.3366"W	11619.23	174.590	0.89	-0.88	-0.13	
19647.00	89.690	161.520	7088.48	11386.98	-11657.65	1125.33	1727341.32	14360613.73	39°32'42.9372"N	80°41'29.9589"W	11711.84	174.486	0.30	0.06	-0.29	
19741.00	89.230	161.430	7089.36	11480.98	-11746.77	1155.19	1727371.17	14360524.64	39°32'42.0554"N	80°41'29.5816"W	11803.44	174.384	0.50	-0.49	-0.10	
19836.00	89.630	161.750	7090.31	11575.97	-11836.91	1185.19	1727401.16	14360434.54	39°32'41.1636"N	80°41'29.2026"W	11896.09	174.282	0.54	0.42	0.34	
19930.00	89.630	161.770	7090.91	11669.95	-11926.18	1214.62	1727430.57	14360345.30	39°32'40.2802"N	80°41'28.8310"W	11987.87	174.185	0.02	0.00	0.02	
20024.00	89.570	161.920	7091.57	11763.94	-12015.50	1243.90	1727459.84	14360256.02	39°32'39.3965"N	80°41'28.4610"W	12079.72	174.090	0.17	-0.06	0.16	
20119.00	89.450	161.530	7092.38	11858.93	-12105.70	1273.69	1727489.62	14360165.85	39°32'38.5040"N	80°41'28.0847"W	12172.53	173.994	0.43	-0.13	-0.41	
20213.00	89.660	161.940	7093.11	11952.92	-12194.97	1303.15	1727519.07	14360076.62	39°32'37.6208"N	80°41'27.7126"W	12264.40	173.901	0.49	0.22	0.44	
20307.00	89.690	161.890	7093.65	12046.90	-12284.32	1332.33	1727548.24	14359987.30	39°32'36.7367"N	80°41'27.3440"W	12356.36	173.810	0.06	0.03	-0.05	
20402.00	89.320	161.590	7094.47	12141.89	-12374.53	1362.10	1727577.99	14359897.13	39°32'35.8441"N	80°41'26.9681"W	12449.27	173.719	0.50	-0.39	-0.32	
20496.00	89.380	161.350	7095.53	12235.88	-12463.65	1391.97	1727607.85	14359808.04	39°32'34.9623"N	80°41'26.5907"W	12541.14	173.627	0.26	0.06	-0.26	
20591.00	89.320	161.730	7096.61	12330.87	-12553.76	1422.05	1727637.92	14359717.97	39°32'34.0707"N	80°41'26.2107"W	12634.05	173.537	0.40	-0.06	0.40	
20685.00	89.480	161.760	7097.60	12424.86	-12643.02	1451.49	1727667.35	14359628.74	39°32'33.1875"N	80°41'25.8388"W	12726.07	173.451	0.17	0.17	0.03	
20780.00	89.380	161.250	7098.54	12519.85	-12733.11	1481.63	1727697.47	14359538.69	39°32'32.2961"N	80°41'25.4581"W	12819.02	173.363	0.55	-0.11	-0.54	
20874.00	89.660	161.970	7099.33	12613.84	-12822.31	1511.28	1727727.12	14359449.53	39°32'31.4135"N	80°41'25.0835"W	12911.06	173.278	0.82	0.30	0.77	
20969.00	89.450	161.420	7100.07	12708.82	-12912.50	1541.12	1727756.94	14359359.37	39°32'30.5212"N	80°41'24.7066"W	13004.14	173.194	0.62	-0.22	-0.58	
21063.00	89.570	161.920	7100.87	12802.81	-13001.73	1570.68	1727786.49	14359270.18	39°32'29.6383"N	80°41'24.3332"W	13096.25	173.112	0.55	0.13	0.53	
21157.00	89.230	161.280	7101.85	12896.80	-13090.91	1600.35	1727816.15	14359181.03	39°32'28.7558"N	80°41'23.9584"W	13188.37	173.030	0.77	-0.36	-0.68	
21251.00	89.660	161.780	7102.76	12990.79	-13180.07	1630.12	1727846.91	14359091.91	39°32'27.8737"N	80°41'23.5822"W	13280.49	172.949	0.70	0.46	0.53	
21346.00	89.820	161.650	7103.20	13085.78	-13270.27	1659.93	1727875.71	14359001.74	39°32'26.9812"N	80°41'23.2058"W	13373.68	172.870	0.22	0.17	-0.14	
21440.00	89.260	160.460	7103.95	13179.78	-13359.17	1690.45	1727906.21	14358912.87	39°32'26.1015"N	80°41'22.8202"W	13465.70	172.788	1.40	-0.60	-1.27	
21535.00	89.630	162.040	7104.87	13274.77	-13449.12	1720.98	1727936.73	14358822.96	39°32'25.2114"N	80°41'22.4344"W	13558.79	172.708	1.71	0.39	1.66	
21629.00	89.480	163.520	7105.60	13368.72	-13538.91	1748.81	1727964.55	14358733.21	39°32'24.3232"N	80°41'22.0832"W	13651.38	172.640	1.58	-0.16	1.57	
21723.00	89.320	162.020	7106.59	13462.66	-13628.68	1776.65	1727992.38	14358643.47	39°32'23.4350"N	80°41'21.7317"W	13743.99	172.573	1.60	-0.17	-1.60	
21818.00	89.850	162.210	7107.27	13557.64	-13719.09	1805.82	1728021.54	14358553.10	39°32'22.5405"N	80°41'21.3633"W	13837.42	172.501	0.59	0.56	0.20	
21912.00	89.260	161.500	7108.00	13651.62	-13808.41	1835.10	1728050.80	14358463.82	39°32'21.6567"N	80°41'20.9937"W	13929.81	172.430	0.98	-0.63	-0.76	



Actual Wellpath Report

Cobb Unit 1H AWP Proj: 26908'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Cobb Unit 1H
Field	Wetzel	API	47-103-03657-0000
Facility	Galmish Pad	Wellbore	Cobb Unit 1H AWP
Slot	Slot H		

WELLPATH DATA (294 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
22006.00	89.380	161.610	7109.12	13745.61	-13897.57	1864.83	1728080.53	14358374.69	39°32'20.7744"N	80°41'20.6180"W	14022.13	172.357	0.17	0.13	0.12	
22101.00	89.630	161.870	7109.94	13840.60	-13987.79	1894.60	1728110.28	14358284.51	39°32'19.8818"N	80°41'20.2421"W	14115.51	172.286	0.38	0.26	0.27	
22195.00	89.540	161.170	7110.62	13934.59	-14076.93	1924.39	1728140.07	14358195.40	39°32'18.9997"N	80°41'19.8657"W	14207.86	172.216	0.75	-0.10	-0.74	
22290.00	89.140	161.160	7111.72	14029.59	-14166.84	1955.06	1728170.72	14358105.52	39°32'18.1101"N	80°41'19.4782"W	14301.11	172.143	0.42	-0.42	-0.01	
22384.00	89.320	161.590	7112.98	14123.57	-14255.91	1985.08	1728200.73	14358016.49	39°32'17.2288"N	80°41'19.0990"W	14393.45	172.073	0.50	0.19	0.46	
22479.00	89.350	161.730	7114.08	14218.56	-14346.08	2014.97	1728230.61	14357926.36	39°32'16.3366"N	80°41'18.7215"W	14486.89	172.005	0.15	0.03	0.15	
22573.00	89.540	161.630	7114.99	14312.55	-14435.31	2044.52	1728260.14	14357837.16	39°32'15.4537"N	80°41'18.3483"W	14579.38	171.939	0.23	0.20	-0.11	
22668.00	89.570	161.190	7115.73	14407.54	-14525.35	2074.80	1728290.41	14357747.16	39°32'14.5628"N	80°41'17.9658"W	14672.78	171.871	0.46	0.03	-0.46	
22763.00	89.480	160.110	7116.52	14502.54	-14614.98	2106.28	1728321.88	14357657.56	39°32'13.6759"N	80°41'17.5680"W	14765.98	171.799	1.14	-0.09	-1.14	
22857.00	89.850	159.740	7117.07	14596.52	-14703.27	2138.54	1728354.13	14357569.31	39°32'12.8022"N	80°41'17.1601"W	14857.98	171.725	0.56	0.39	-0.39	
22952.00	89.940	159.690	7117.24	14691.50	-14792.38	2171.48	1728387.05	14357480.24	39°32'11.9204"N	80°41'16.7437"W	14950.91	171.649	0.11	0.09	-0.05	
23046.00	89.720	159.650	7117.52	14785.47	-14880.52	2204.13	1728419.70	14357392.13	39°32'11.0481"N	80°41'16.3307"W	15042.87	171.574	0.24	-0.23	-0.04	
23140.00	89.880	159.790	7117.85	14879.45	-14968.69	2236.71	1728452.26	14357303.99	39°32'10.1756"N	80°41'15.9188"W	15134.88	171.501	0.23	0.17	0.15	
23235.00	89.570	159.420	7118.30	14974.42	-15057.73	2269.82	1728485.36	14357214.98	39°32'9.2944"N	80°41'15.5002"W	15227.85	171.428	0.51	-0.33	-0.39	
23329.00	89.510	159.580	7119.08	15068.39	-15145.78	2302.74	1728518.26	14357126.97	39°32'8.4231"N	80°41'15.0840"W	15319.83	171.355	0.18	-0.06	0.17	
23423.00	89.570	159.660	7119.81	15162.36	-15233.89	2335.47	1728550.98	14357038.89	39°32'7.5511"N	80°41'14.6701"W	15411.88	171.284	0.11	0.06	0.09	
23518.00	89.780	159.500	7120.35	15257.33	-15322.92	2368.62	1728584.12	14356949.90	39°32'6.6701"N	80°41'14.2510"W	15504.91	171.213	0.28	0.22	-0.17	
23613.00	89.850	159.640	7120.66	15352.30	-15411.95	2401.78	1728617.26	14356860.91	39°32'5.7891"N	80°41'13.8317"W	15597.97	171.142	0.16	0.07	0.15	
23707.00	89.820	160.590	7120.93	15446.29	-15500.34	2433.75	1728649.22	14356772.55	39°32'4.9144"N	80°41'13.4276"W	15690.24	171.077	1.01	-0.03	1.01	
23802.00	89.970	161.040	7121.10	15541.29	-15590.06	2464.97	1728680.43	14356682.86	39°32'4.0266"N	80°41'13.0331"W	15783.73	171.015	0.50	0.16	0.47	
23896.00	89.750	160.760	7121.33	15635.29	-15678.89	2495.73	1728711.18	14356594.07	39°32'3.1476"N	80°41'12.6445"W	15876.28	170.956	0.38	-0.23	-0.30	
23991.00	89.970	160.830	7121.57	15730.29	-15768.60	2526.98	1728742.41	14356504.40	39°32'2.2599"N	80°41'12.2496"W	15969.80	170.896	0.24	0.23	0.07	
24086.00	89.450	160.180	7122.05	15825.28	-15858.15	2558.68	1728774.10	14356414.88	39°32'1.3738"N	80°41'11.8490"W	16063.24	170.834	0.88	-0.55	-0.68	
24180.00	89.630	160.810	7122.80	15919.28	-15946.75	2590.07	1728805.48	14356326.31	39°32'0.4970"N	80°41'11.4524"W	16155.72	170.775	0.70	0.19	0.67	
24274.00	89.660	160.780	7123.38	16013.27	-16035.52	2620.99	1728836.38	14356237.58	39°31'59.6186"N	80°41'11.0617"W	16248.31	170.717	0.05	0.03	-0.03	
24368.00	89.480	160.770	7124.09	16107.27	-16124.28	2651.94	1728867.32	14356148.86	39°31'58.7404"N	80°41'10.6706"W	16340.90	170.660	0.19	-0.19	-0.01	
24463.00	89.600	160.650	7124.85	16202.27	-16213.94	2683.32	1728898.69	14356059.23	39°31'57.8531"N	80°41'10.2741"W	16434.48	170.603	0.18	0.13	-0.13	
24557.00	89.420	160.660	7125.66	16296.26	-16302.63	2714.46	1728929.82	14355970.58	39°31'56.9755"N	80°41'9.8806"W	16527.07	170.547	0.19	-0.19	0.01	
24651.00	89.750	160.970	7126.34	16390.26	-16391.41	2745.35	1728960.70	14355881.83	39°31'56.0971"N	80°41'9.4904"W	16619.72	170.492	0.48	0.35	0.33	
24746.00	89.380	160.790	7127.06	16485.26	-16481.16	2776.46	1728991.80	14355792.11	39°31'55.2089"N	80°41'9.0972"W	16713.39	170.438	0.43	-0.39	-0.19	



Actual Wellpath Report

Cobb Unit 1H AWP Proj: 26908'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Cobb Unit 1H
Field	Wetzel	API	47-103-03657-0000
Facility	Galmish Pad	Wellbore	Cobb Unit 1H AWB
Slot	Slot H		

WELLPATH DATA (294 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
24840.00	89.450	160.660	7128.02	16579.25	-16569.89	2807.49	1729022.81	14355703.42	39°31'54.3309"N	80°41'8.7052"W	16806.05	170.384	0.16	0.07	-0.14	
24935.00	89.230	160.860	7129.11	16674.24	-16659.58	2838.79	1729054.11	14355613.77	39°31'53.4434"N	80°41'8.3097"W	16899.71	170.330	0.31	-0.23	0.21	
25029.00	89.380	160.800	7130.25	16768.24	-16748.36	2869.66	1729084.96	14355525.02	39°31'52.5649"N	80°41'7.9197"W	16992.42	170.277	0.17	0.16	-0.06	
25123.00	89.050	160.910	7131.54	16862.23	-16837.15	2900.48	1729115.77	14355436.27	39°31'51.6863"N	80°41'7.5303"W	17085.15	170.226	0.37	-0.35	0.12	
25218.00	89.420	160.770	7132.81	16957.22	-16926.88	2931.66	1729146.94	14355346.57	39°31'50.7984"N	80°41'7.1364"W	17178.88	170.174	0.42	0.39	-0.15	
25312.00	89.140	160.220	7133.99	17051.21	-17015.48	2963.04	1729178.31	14355258.01	39°31'49.9217"N	80°41'6.7398"W	17271.54	170.122	0.66	-0.30	-0.59	
25406.00	89.480	160.290	7135.12	17145.19	-17103.94	2994.80	1729210.05	14355169.58	39°31'49.0463"N	80°41'6.3385"W	17364.15	170.069	0.37	0.36	0.07	
25500.00	90.490	162.770	7135.15	17239.18	-17193.09	3024.57	1729239.81	14355080.46	39°31'48.1641"N	80°41'5.9625"W	17457.11	170.023	2.85	1.07	2.64	
25595.00	89.260	162.090	7135.35	17334.15	-17283.66	3053.25	1729268.48	14354989.93	39°31'47.2681"N	80°41'5.6006"W	17551.28	169.982	1.48	-1.29	-0.72	
25688.00	89.170	160.280	7136.63	17427.13	-17371.68	3083.24	1729298.46	14354901.95	39°31'46.3971"N	80°41'5.2218"W	17643.17	169.936	1.95	-0.10	-1.95	
25783.00	89.320	160.380	7137.88	17522.12	-17461.13	3115.21	1729330.42	14354812.53	39°31'45.5120"N	80°41'4.8177"W	17736.84	169.884	0.19	0.16	0.11	
25877.00	89.170	160.390	7139.12	17616.11	-17549.67	3146.77	1729361.96	14354724.03	39°31'44.6358"N	80°41'4.4190"W	17829.55	169.835	0.16	-0.16	0.01	
25971.00	89.480	160.650	7140.22	17710.10	-17638.28	3178.11	1729393.29	14354635.45	39°31'43.7590"N	80°41'4.0229"W	17922.31	169.786	0.43	0.33	0.28	
26065.00	89.450	160.290	7141.10	17804.09	-17726.87	3209.53	1729424.70	14354546.90	39°31'42.8823"N	80°41'3.6259"W	18015.07	169.737	0.38	-0.03	-0.38	
26159.00	90.430	161.010	7141.20	17898.09	-17815.55	3240.68	1729455.83	14354458.25	39°31'42.0047"N	80°41'3.2324"W	18107.90	169.691	1.29	1.04	0.77	
26253.00	89.480	160.780	7141.27	17992.08	-17904.38	3271.45	1729486.59	14354369.46	39°31'41.1258"N	80°41'2.8437"W	18200.80	169.645	1.04	-1.01	-0.24	
26347.00	89.510	160.550	7142.10	18086.08	-17993.07	3302.57	1729517.70	14354280.80	39°31'40.2481"N	80°41'2.4505"W	18293.65	169.599	0.25	0.03	-0.24	
26441.00	89.570	160.400	7142.86	18180.07	-18081.66	3333.98	1729549.10	14354192.24	39°31'39.3715"N	80°41'2.0536"W	18386.46	169.553	0.17	0.06	-0.16	
26536.00	90.710	160.800	7142.63	18275.07	-18171.27	3365.54	1729580.64	14354102.68	39°31'38.4848"N	80°41'1.6549"W	18480.31	169.507	1.27	1.20	0.42	
26630.00	90.150	160.340	7141.92	18369.06	-18259.91	3396.81	1729611.90	14354014.07	39°31'37.6076"N	80°41'1.2599"W	18573.17	169.462	0.77	-0.60	-0.49	
26724.00	90.340	160.800	7141.52	18463.06	-18348.56	3428.08	1729643.16	14353925.46	39°31'36.7304"N	80°41'0.8648"W	18666.04	169.417	0.53	0.20	0.49	
26818.00	89.910	160.400	7141.31	18557.06	-18437.22	3459.30	1729674.37	14353836.83	39°31'35.8531"N	80°41'0.4703"W	18758.94	169.373	0.62	-0.46	-0.43	
26882.00	90.310	160.890	7141.19	18621.06	-18497.60	3480.51	1729695.57	14353776.47	39°31'35.2556"N	80°41'0.2023"W	18822.20	169.344	0.99	0.62	0.77	
26908.00‡	90.310	160.890	7141.05	18647.06	-18522.17	3489.02	1729704.08	14353751.91	39°31'35.0125"N	80°41'0.0948"W	18847.92	169.332	0.00	0.00	0.00	Projected MD at TD: 26908'



Actual Wellpath Report

Cobb Unit 1H AWP Proj: 26908'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Cobb Unit 1H
Field	Wetzel	API	47-103-03657-0000
Facility	Galmish Pad	Wellbore	Cobb Unit 1H AWB
Slot	Slot H		

HOLE & CASING SECTIONS - Ref Wellbore: Cobb Unit 1H AWB Ref Wellpath: Cobb Unit 1H AWP Proj: 26908'									
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	30.00	130.00	100.00	30.00	130.00	0.00	0.00	0.05	0.21
17.5in Open Hole	130.00	382.00	252.00	130.00	381.99	0.05	0.21	-0.76	0.19
13.375in Casing Surface	30.00	362.00	332.00	30.00	361.99	0.00	0.00	-0.59	0.53
12.375in Open Hole	382.00	3796.00	3414.00	381.99	3506.34	-0.76	0.19	66.51	-1302.31
9.625in Casing Intermediate	30.00	3766.00	3736.00	30.00	3478.69	0.00	0.00	67.68	-1290.73
8.75in Open Hole	3796.00	7062.00	3266.00	3506.34	6439.39	66.51	-1302.31	2.61	-2708.93
8.5in Open Hole	7062.00	26908.00	19846.00	6439.39	7141.05	2.61	-2708.93	-18522.17	3489.02
5.5in Casing Production	30.00	26888.00	26858.00	30.00	7141.16	0.00	0.00	-18503.27	3482.47



Actual Wellpath Report

Cobb Unit 1H AWP Proj: 26908'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Cobb Unit 1H
Field	Wetzel	API	47-103-03657-0000
Facility	Galmish Pad	Wellbore	Cobb Unit 1H AWB
Slot	Slot H		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Cobb Unit 1H POE Rev-1	7016.00	-649.76	-2689.53	1723527.96	14371617.29	39°34'31.8569"N	80°42'18.1948"W	point
Cobb Unit 1H BHL Rev-1	7044.00	-18764.04	3560.44	1729775.47	14353510.14	39°31'32.6196"N	80°40'59.1942"W	point
Cobb Unit 1H BHL Rev-2	7044.00	-18527.71	3478.90	1729693.96	14353746.37	39°31'34.9581"N	80°41'0.2242"W	point
Cobb Unit 1H LP Rev-1	7044.00	-850.40	-2620.30	1723597.16	14371416.72	39°34'29.8716"N	80°42'17.3191"W	point
Cobb Unit 1H 50' L/R Hard Line R-2	7500.00	-9588.73	394.69	1726610.96	14362681.83	39°33'3.4094"N	80°41'39.1958"W	rectangle
2D Rectangle 18912.2 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Cobb Unit 1H AWB Ref Wellpath: Cobb Unit 1H AWP Proj: 26908'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	289.00	Gyrodatta 2015 - GC+WIR+DPIPE	01 Gyrodatta MS Gyro <17-1/2"> (100'-289')	Cobb Unit 1H AWB	7/24/2024
289.00	3723.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-3/8"> (289')(470'-3723')	Cobb Unit 1H AWB	7/24/2024
3723.00	6985.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (3723')(3779'-6985')	Cobb Unit 1H AWB	7/24/2024
6985.00	26908.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH Lucida <8-1/2"> (6985')(7036'-26882')	Cobb Unit 1H AWB	7/24/2024



Actual Wellpath Report

Cobb Unit 1H AWP Proj: 26908'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Cobb Unit 1H
Field	Wetzel	API	47-103-03657-0000
Facility	Galmish Pad	Wellbore	Cobb Unit 1H AWB
Slot	Slot H		

COMMENTS	
Wellpath general comments API: 47-103-03657-0000 BH Job #: 112320219 Rig: H&P 519 Duration: 7/25/2024-8/3/2024 Gyrodata MS Gyro <17-1/2"> (100'-289') APS EM <12-3/8"> (289')(470'-3723') APS EM <8-3/4"> (3723')(3779'-6985') BH Lucida <8-1/2"> (6985')(7036'-26882') Sycamore: 7341' MD Middlesex: 7525' MD Burkett: 7698' MD Tully: 7764' MD Marcellus POE: 8029' MD Projected MD at TD: 26908'	