



ANTERO RESOURCES CORPORATION



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

Slot: Slot #12
Well: Glamdring Unit 2H
Wellbore: Glamdring Unit 2H PWB

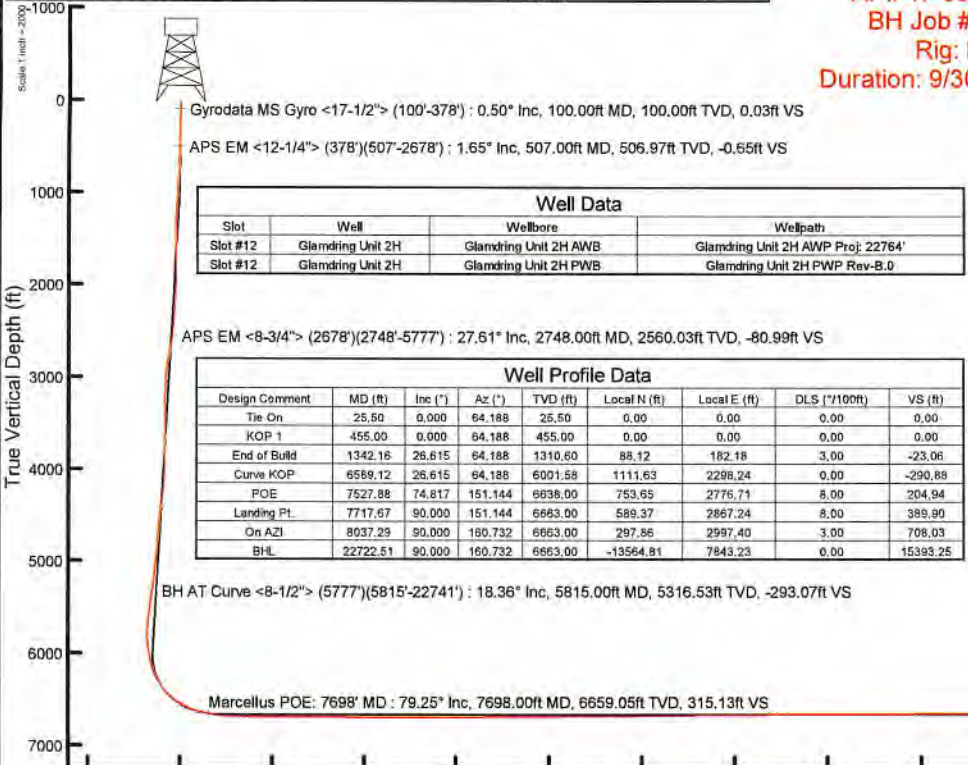
Scale 1 inch = 2500
Easting (ft) -2500 -1250 0 1250 2500 3750 5000 6250 7500 8750

BH AT Curve <8-1/2"> (5777')(5815'-22741') : 5316.53ft TVD, 985.18ft N, 1929.91ft E
APs EM <8-3/4"> (2678')(2748'-5777') : 2560.03ft TVD, 351.84ft N, 760.98ft E
APs EM <12-1/4"> (378')(507'-2678') : 506.97ft TVD, 1.88ft N, 3.44ft E
Gyrodala MS Gyro <17-1/2"> (100'-378') : 100.00ft TVD, 0.08ft N, 0.32ft E

Plot reference wellpath to Glamdring Unit 2H PWB Rev-B.0	Grid System: NAD27 / UTM Zone 17 North, US feet
This vertical depths are referenced to H&P 317 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 317 (RKB)	Scale: True distance
H&P 317 (RKB) to Mean Sea Level: 1065.5 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot #12): -1041 feet	Depths are in feet
Official wellpath-MDs are referenced to each path's default MD datum	Created by: indurpar on 2021-10-22; Database: WA MPL_EASTERNUS_Def

Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Margery Pad	1688470.750	14350316.150	39°31'2.1450"N	80°49'46.5880"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Longitude
Slot #12	90.98	168.90	1688639.580	14350407.090	39°31'3.0410"N 80°49'44.4307"W
Comment	Glamdring Unit 2H				
H&P 317 (RKB) to Ground level (At Slot: Slot #12)	25.5ft				
Mean Sea Level to Ground level (At Slot: Slot #12)	-1041ft				
H&P 317 (RKB) to Mean Sea Level	1065.5ft				

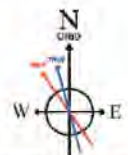
API: 47-095-02743-0000
BH Job #: 111046859
Rig: H&P 317
Duration: 9/30/2021-10/9/2021



Well Data			
Slot	Well	Wellbore	Wellpath
Slot #12	Glamdring Unit 2H	Glamdring Unit 2H AWB	Glamdring Unit 2H AWP Proj: 22764'
Slot #12	Glamdring Unit 2H	Glamdring Unit 2H PWB	Glamdring Unit 2H PWB Rev-B.0

Well Profile Data								
Design Comment	MD (ft)	Inc (")	Az (")	TVD (ft)	Local N (ft)	Local E (ft)	DLS (*/100ft)	VS (ft)
Tie On	25.50	0.000	64.188	25.50	0.00	0.00	0.00	0.00
KOP 1	455.00	0.000	64.188	455.00	0.00	0.00	0.00	0.00
End of Build	1342.16	26.615	64.188	1310.60	88.12	182.18	3.00	-23.06
Curve KOP	6589.12	26.615	64.188	6001.58	1111.63	2298.24	0.00	-290.88
POE	7527.88	74.817	151.144	6638.00	753.65	2776.71	8.00	204.94
Landing Pt.	7717.67	90.000	151.144	6683.00	589.37	2867.24	8.00	389.90
On AZI	8037.29	90.000	160.732	6663.00	297.86	2997.40	3.00	708.03
BHL	22722.51	90.000	160.732	6663.00	-13564.81	7843.23	0.00	15393.25

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User specified (HDGM) Dip: 66.45° Field: 51752 nT
Magnetic North is 7.41 degrees West of True North (at 28/Sep/2021)
Grid North is 0.11 degrees East of True North
To correct azimuth from True to Grid subtract 0.11 degrees
To correct azimuth from Magnetic to Grid subtract 7.52 degrees

Projected MD at TD: 22764' : 89.94° Inc, 22764.00ft MD, 6669.72ft TVD, 15377.36ft VS
Projected MD at TD: 22764' : 6669.72ft TVD, 13550.27ft S, 7836.68ft E

Vertical Section (ft)
Azimuth 160.73° with reference 0.00 N, 0.00 E



Actual Wellpath Report

Glamdring Unit 2H AWP Proj: 22764'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Glamdring Unit 2H
Field	Tyler	API	47-095-02743-0000
Facility	Margery Pad	Wellbore	Glamdring Unit 2H AWB
Slot	Slot #12		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999603	Report Generated	22/Oct/2021 at 20:58
Convergence at slot	0.11° 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	90.98	168.90	1688639.58	14350407.09	39°31'3.0410"N	80°49'44.4307"W
Facility Reference Pt			1688470.75	14350316.15	39°31'2.1450"N	80°49'46.5880"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 317 (RKB) to Facility Vertical Datum	1066.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level	1066.50ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot #12)	25.50ft
MD Reference Pt	H&P 317 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	160.73°

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Field	Tyler	API	47-095-02743-0000
Facility	Margery Pad	Wellbore	Glamdring Unit 2H AWB
Slot	Slot #12		

WELLPATH DATA (252 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]	[US ft]	[US ft]			[ft]	[°]	["/100ft]	["/100ft]	["/100ft]	
0.00	0.00	76.090	0.00	0.00	0.00	0.00	1688639.58	14350407.09	39°31'3.0410"N	80°49'44.4307"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	76.090	25.50	0.00	0.00	0.00	1688639.58	14350407.09	39°31'3.0410"N	80°49'44.4307"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.500	76.090	100.00	0.03	0.08	0.32	1688639.90	14350407.17	39°31'3.0418"N	80°49'44.4267"W	0.33	76.090	0.67	0.67	0.00	Gyrodata MS Gyro <17-1/2"> (100'-378')
200.00	0.540	76.930	199.99	0.12	0.29	1.20	1688640.78	14350407.38	39°31'3.0439"N	80°49'44.4154"W	1.23	76.411	0.04	0.04	0.84	
300.00	0.200	52.300	299.99	0.12	0.50	1.80	1688641.37	14350407.59	39°31'3.0460"N	80°49'44.4078"W	1.86	74.351	0.37	-0.34	-24.63	
378.00	0.090	29.380	377.99	0.03	0.64	1.93	1688641.51	14350407.73	39°31'3.0473"N	80°49'44.4060"W	2.04	71.693	0.16	-0.14	-29.38	
507.00	1.650	51.480	506.97	-0.65	1.88	3.44	1688643.01	14350408.97	39°31'3.0596"N	80°49'44.3868"W	3.92	61.255	1.21	1.21	17.13	APS EM <12-1/4"> (378')(507'-2678')
597.00	3.790	49.290	596.87	-2.16	4.63	6.70	1688646.28	14350411.72	39°31'3.0867"N	80°49'44.3451"W	8.15	55.362	2.38	2.38	-2.43	
688.00	5.590	54.350	687.56	-4.51	9.18	12.59	1688652.16	14350416.26	39°31'3.1315"N	80°49'44.2699"W	15.58	53.903	2.03	1.98	5.56	
778.00	8.410	55.810	776.88	-7.44	15.43	21.59	1688661.17	14350422.52	39°31'3.1931"N	80°49'44.1548"W	26.54	54.450	3.14	3.13	1.62	
868.00	11.520	55.540	865.51	-11.49	24.22	34.45	1688674.02	14350431.30	39°31'3.2797"N	80°49'43.9905"W	42.11	54.895	3.46	3.46	-0.30	
958.00	15.490	58.050	953.01	-16.49	35.67	52.07	1688691.63	14350442.74	39°31'3.3926"N	80°49'43.7655"W	63.11	55.588	4.46	4.41	2.79	
1048.00	18.380	61.670	1039.10	-21.36	48.76	74.76	1688714.31	14350455.83	39°31'3.5216"N	80°49'43.4756"W	89.26	56.885	3.42	3.21	4.02	
1142.00	19.500	57.930	1128.01	-27.17	64.13	101.10	1688740.64	14350471.19	39°31'3.6729"N	80°49'43.1391"W	119.72	57.613	1.76	1.19	-3.98	
1237.00	20.720	61.670	1217.22	-33.33	80.52	129.33	1688768.86	14350487.58	39°31'3.8344"N	80°49'42.7785"W	152.35	58.094	1.87	1.28	3.94	
1331.00	21.910	65.750	1304.79	-37.47	95.62	159.96	1688799.48	14350502.67	39°31'3.9830"N	80°49'42.3873"W	186.36	59.131	2.02	1.27	4.34	
1426.00	22.500	70.190	1392.75	-39.18	109.06	193.23	1688832.73	14350516.11	39°31'4.1153"N	80°49'41.9625"W	221.88	60.559	1.87	0.62	4.67	
1521.00	23.890	70.510	1480.07	-39.43	121.64	228.47	1688867.95	14350528.68	39°31'4.2389"N	80°49'41.5126"W	258.83	61.968	1.47	1.46	0.34	
1615.00	26.040	70.200	1565.28	-39.69	134.98	265.83	1688905.30	14350542.02	39°31'4.3701"N	80°49'41.0355"W	298.13	63.080	2.29	2.29	-0.33	
1710.00	26.650	69.200	1650.42	-40.45	149.61	305.36	1688944.82	14350556.64	39°31'4.5139"N	80°49'40.5307"W	340.04	63.898	0.79	0.64	-1.05	
1806.00	27.340	69.420	1735.96	-41.53	165.00	346.13	1688985.57	14350572.03	39°31'4.6653"N	80°49'40.0101"W	383.45	64.512	0.73	0.72	0.23	
1900.00	29.530	70.980	1818.61	-41.92	180.14	388.24	1689027.67	14350587.16	39°31'4.8141"N	80°49'39.4724"W	428.00	65.109	2.46	2.33	1.66	
1995.00	29.560	71.320	1901.26	-41.58	195.28	432.58	1689071.98	14350602.29	39°31'4.9629"N	80°49'38.9063"W	474.61	65.704	0.18	0.03	0.36	
2089.00	29.540	69.150	1983.04	-41.98	210.95	476.20	1689115.59	14350617.96	39°31'5.1170"N	80°49'38.3493"W	520.83	66.107	1.14	-0.02	-2.31	
2183.00	29.940	68.420	2064.65	-43.56	227.83	519.67	1689159.04	14350634.83	39°31'5.2829"N	80°49'37.7943"W	567.41	66.327	0.57	0.43	-0.78	
2278.00	29.420	64.940	2147.20	-46.87	246.43	562.85	1689202.21	14350653.42	39°31'5.4660"N	80°49'37.2428"W	614.43	66.355	1.89	-0.55	-3.66	
2373.00	29.320	64.510	2229.99	-51.75	266.32	604.98	1689244.32	14350673.31	39°31'5.6618"N	80°49'36.7047"W	661.01	66.240	0.25	-0.11	-0.45	
2468.00	28.710	63.090	2313.06	-57.30	286.66	646.33	1689285.65	14350693.64	39°31'5.8620"N	80°49'36.1766"W	707.05	66.081	0.97	-0.64	-1.49	
2562.00	28.090	61.010	2395.75	-64.04	307.61	685.82	1689325.12	14350714.57	39°31'6.0682"N	80°49'35.6722"W	751.64	65.843	1.24	-0.66	-2.21	
2657.00	28.060	59.360	2479.58	-72.22	329.83	724.61	1689363.90	14350736.79	39°31'6.2872"N	80°49'35.1767"W	796.14	65.525	0.82	-0.03	-1.74	



Actual Wellpath Report

Glamdring Unit 2H AWP Proj: 22764'
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Operator	ANTERO RESOURCES CORPORATION		Well	Glamdring Unit 2H
Field	Tyler		API	47-095-02743-0000
Facility	Margery Pad		Wellbore	Glamdring Unit 2H AWB
Slot	Slot #12			

WELLPATH DATA (252 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
2678.00	27.990	59.060	2498.11	-74.19	334.89	733.08	1689372.37	14350741.84	39°31'6.3369"N	80°49'35.0684"W	805.95	65.448	0.75	-0.33	-1.43	
2748.00	27.610	58.350	2560.03	-80.99	351.84	760.98	1689400.26	14350758.79	39°31'6.5040"N	80°49'34.7120"W	838.38	65.186	0.72	-0.54	-1.01	APS EM <8-3/4"> (2678')(2748'-5777')
2843.00	28.270	51.050	2643.98	-93.29	377.54	797.23	1689436.49	14350784.48	39°31'6.7573"N	80°49'34.2489"W	882.11	64.659	3.66	0.69	-7.68	
3033.00	28.240	53.360	2811.35	-121.66	432.66	868.29	1689507.52	14350839.57	39°31'7.3007"N	80°49'33.3407"W	970.11	63.514	0.58	-0.02	1.22	
3128.00	26.620	52.830	2895.67	-135.12	458.93	903.29	1689542.51	14350865.84	39°31'7.5597"N	80°49'32.8935"W	1013.18	63.066	1.72	-1.71	-0.56	
3223.00	24.760	58.900	2981.29	-145.74	482.07	937.29	1689576.49	14350888.97	39°31'7.7877"N	80°49'32.4591"W	1053.99	62.782	3.39	-1.96	6.39	
3317.00	25.620	67.030	3066.37	-151.09	500.18	972.87	1689612.06	14350907.07	39°31'7.9660"N	80°49'32.0047"W	1093.91	62.791	3.79	0.91	8.65	
3412.00	27.020	65.560	3151.52	-154.36	517.12	1011.43	1689650.60	14350924.00	39°31'8.1327"N	80°49'31.5122"W	1135.96	62.920	1.63	1.47	-1.55	
3506.00	26.980	70.140	3235.29	-156.50	533.20	1050.92	1689690.08	14350940.08	39°31'8.2909"N	80°49'31.0078"W	1178.45	63.098	2.21	-0.04	4.87	
3601.00	27.360	71.940	3319.81	-156.26	547.29	1091.95	1689731.09	14350954.16	39°31'8.4293"N	80°49'30.4840"W	1221.42	63.380	0.95	0.40	1.89	
3695.00	27.690	69.260	3403.17	-156.37	561.72	1132.91	1689772.04	14350968.59	39°31'8.5712"N	80°49'29.9610"W	1264.52	63.627	1.36	0.35	-2.85	
3790.00	27.140	65.300	3487.51	-158.98	578.59	1173.24	1689812.35	14350985.45	39°31'8.7372"N	80°49'29.4459"W	1308.15	63.749	2.00	-0.58	-4.17	
3885.00	26.870	70.010	3572.16	-161.30	594.99	1213.11	1689852.20	14351001.84	39°31'8.8984"N	80°49'28.9368"W	1351.16	63.874	2.27	-0.28	4.96	
3979.00	26.910	69.440	3656.00	-162.05	609.72	1252.99	1689892.07	14351016.57	39°31'9.0433"N	80°49'28.4276"W	1393.46	64.052	0.28	0.04	-0.61	
4074.00	26.020	65.170	3741.05	-164.55	626.02	1292.03	1689931.09	14351032.86	39°31'9.2036"N	80°49'27.9289"W	1435.70	64.149	2.21	-0.94	-4.49	
4168.00	24.080	68.150	3826.21	-167.41	641.82	1328.55	1689967.60	14351048.65	39°31'9.3591"N	80°49'27.4626"W	1475.46	64.215	2.46	-2.06	3.17	
4263.00	24.040	72.890	3912.96	-167.56	654.73	1365.03	1690004.07	14351061.56	39°31'9.4859"N	80°49'26.9967"W	1513.93	64.376	2.03	-0.04	4.99	
4358.00	22.840	68.770	4000.12	-167.46	667.10	1400.72	1690039.74	14351073.92	39°31'9.6075"N	80°49'26.5411"W	1551.46	64.534	2.14	-1.26	-4.34	
4452.00	24.040	68.020	4086.37	-168.99	680.87	1435.48	1690074.48	14351087.69	39°31'9.7429"N	80°49'26.0972"W	1588.77	64.624	1.32	1.28	-0.80	
4547.00	26.990	63.570	4172.10	-172.59	697.71	1472.74	1690111.73	14351104.53	39°31'9.9087"N	80°49'25.6213"W	1629.65	64.651	3.70	3.11	-4.68	
4641.00	25.920	56.740	4256.27	-180.22	718.48	1509.03	1690148.00	14351125.28	39°31'10.1132"N	80°49'25.1577"W	1671.34	64.540	3.43	-1.14	-7.27	
4736.00	27.150	54.630	4341.27	-191.25	742.42	1544.07	1690183.03	14351149.21	39°31'10.3491"N	80°49'24.7100"W	1713.28	64.321	1.63	1.29	-2.22	
4831.00	28.510	55.040	4425.28	-203.39	767.96	1580.32	1690219.27	14351174.74	39°31'10.6008"N	80°49'24.2467"W	1757.04	64.083	1.45	1.43	0.43	
4926.00	28.020	60.320	4508.96	-213.56	792.00	1618.30	1690257.23	14351198.77	39°31'10.8377"N	80°49'23.7615"W	1801.71	63.923	2.68	-0.52	5.56	
5022.00	28.040	63.080	4593.71	-220.64	813.38	1658.01	1690296.93	14351220.15	39°31'11.0483"N	80°49'23.2543"W	1846.78	63.868	1.35	0.02	2.87	
5117.00	27.880	62.620	4677.62	-226.74	833.71	1697.64	1690336.54	14351240.46	39°31'11.2484"N	80°49'22.7480"W	1891.31	63.844	0.28	-0.17	-0.48	
5211.00	28.450	62.000	4760.49	-233.24	854.33	1736.93	1690375.81	14351261.08	39°31'11.4514"N	80°49'22.2462"W	1935.66	63.809	0.68	0.61	-0.66	
5306.00	26.210	57.160	4844.89	-241.60	876.33	1774.54	1690413.42	14351283.07	39°31'11.6682"N	80°49'21.7657"W	1979.13	63.718	3.32	-2.36	-5.09	
5400.00	23.830	57.150	4930.06	-250.93	897.89	1807.94	1690446.80	14351304.63	39°31'11.8806"N	80°49'21.3389"W	2018.63	63.589	2.53	-2.53	-0.01	
5494.00	22.880	60.830	5016.36	-258.53	917.10	1839.85	1690478.70	14351323.83	39°31'12.0698"N	80°49'20.9313"W	2055.76	63.505	1.85	-1.01	3.91	

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Operator	ANTERO RESOURCES CORPORATION		Well	Glamdring Unit 2H
Field	Tyler		API	47-095-02743-0000
Facility	Margery Pad		Wellbore	Glamdring Unit 2H AWB
Slot	Slot #12			

WELLPATH DATA (252 stations) † = interpolated, ‡ = extrapolated station																
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
5589.00	22.060	56.880	5104.16	-265.98	935.85	1870.92	1690509.76	14351342.57	39°31'12.2546"N	80°49'20.5343"W	2091.93	63.425	1.81	-0.86	-4.16	
5683.00	20.190	51.970	5191.84	-275.42	955.49	1898.49	1690537.31	14351362.20	39°31'12.4481"N	80°49'20.1821"W	2125.38	63.284	2.74	-1.99	-5.22	
5777.00	18.670	44.190	5280.50	-287.36	976.28	1921.76	1690560.57	14351382.98	39°31'12.6531"N	80°49'19.8846"W	2155.52	63.069	3.19	-1.62	-8.28	
5815.00	18.360	40.750	5316.53	-293.07	985.18	1929.91	1690568.72	14351391.87	39°31'12.7409"N	80°49'19.7804"W	2166.82	62.957	2.99	-0.82	-9.05	BH AT Curve <8-1/2"> (5777')(5815'-22741')
5887.00	18.580	46.440	5384.83	-303.46	1001.67	1945.62	1690584.42	14351408.36	39°31'12.9036"N	80°49'19.5795"W	2188.33	62.759	2.52	0.31	7.90	
5981.00	18.540	46.900	5473.94	-315.66	1022.20	1967.39	1690606.18	14351428.89	39°31'13.1061"N	80°49'19.3013"W	2217.09	62.545	0.16	-0.04	0.49	
6076.00	18.380	46.480	5564.05	-327.91	1042.84	1989.27	1690628.06	14351449.51	39°31'13.3096"N	80°49'19.0214"W	2246.05	62.335	0.22	-0.17	-0.44	
6170.00	17.940	47.070	5653.37	-339.81	1062.90	2010.62	1690649.40	14351469.57	39°31'13.5075"N	80°49'18.7485"W	2274.28	62.137	0.51	-0.47	0.63	
6265.00	18.110	61.830	5743.76	-347.97	1079.85	2034.36	1690673.13	14351486.51	39°31'13.6745"N	80°49'18.4452"W	2303.19	62.040	4.80	0.18	15.54	
6359.00	21.770	73.610	5832.14	-349.35	1091.67	2063.99	1690702.74	14351498.33	39°31'13.7908"N	80°49'18.0668"W	2334.91	62.125	5.76	3.89	12.53	
6454.00	25.180	88.330	5919.34	-342.35	1097.24	2101.13	1690739.87	14351503.89	39°31'13.8451"N	80°49'17.5927"W	2370.38	62.426	7.11	3.59	15.49	
6549.00	29.930	90.580	6003.54	-328.18	1097.59	2145.06	1690783.78	14351504.24	39°31'13.8477"N	80°49'17.0322"W	2409.56	62.902	5.12	5.00	2.37	
6644.00	34.660	90.060	6083.83	-311.18	1097.32	2195.80	1690834.50	14351503.97	39°31'13.8440"N	80°49'16.3847"W	2454.72	63.447	4.99	4.98	-0.55	
6738.00	36.340	95.820	6160.37	-290.52	1094.47	2250.25	1690888.93	14351501.12	39°31'13.8148"N	80°49'15.6899"W	2502.30	64.063	3.98	1.79	6.13	
6833.00	39.510	102.970	6235.34	-262.44	1084.82	2307.75	1690946.41	14351491.48	39°31'13.7183"N	80°49'14.9565"W	2550.01	64.823	5.70	3.34	7.53	
6928.00	44.250	104.830	6306.05	-227.72	1069.55	2369.28	1691007.91	14351476.21	39°31'13.5661"N	80°49'14.1718"W	2599.50	65.704	5.16	4.99	1.96	
7002.00†	48.084	108.270	6357.30	-196.45	1054.30	2420.41	1691059.02	14351460.97	39°31'13.4144"N	80°49'13.5197"W	2640.06	66.463	6.17	5.18	4.65	Sycamore: 7002' MD
7023.00	49.190	109.170	6371.18	-186.75	1049.24	2435.33	1691073.94	14351455.91	39°31'13.3641"N	80°49'13.3294"W	2651.74	66.692	6.17	5.27	4.29	
7117.00	54.790	112.860	6429.05	-138.82	1022.61	2504.39	1691142.97	14351429.29	39°31'13.0996"N	80°49'12.4489"W	2705.12	67.788	6.71	5.96	3.93	
7187.00†	57.600	114.775	6467.99	-99.08	999.11	2557.58	1691196.14	14351405.81	39°31'12.8663"N	80°49'11.7707"W	2745.81	68.662	4.61	4.01	2.74	Middlesex: 7187' MD
7212.00	58.610	115.430	6481.20	-84.24	990.11	2576.80	1691215.35	14351396.80	39°31'12.7769"N	80°49'11.5256"W	2760.48	68.981	4.61	4.04	2.62	
7307.00	61.870	121.230	6528.38	-23.34	950.94	2649.31	1691287.83	14351357.65	39°31'12.3884"N	80°49'10.6014"W	2814.81	70.255	6.31	3.43	6.11	
7357.00	63.700	126.240	6551.26	12.17	926.25	2686.26	1691324.77	14351332.97	39°31'12.1436"N	80°49'10.1306"W	2841.46	70.975	9.63	3.66	10.02	
7393.00†	65.863	130.209	6566.60	39.63	906.10	2711.83	1691350.33	14351312.82	39°31'11.9439"N	80°49'9.8048"W	2859.20	71.524	11.64	6.01	11.03	Burkett: 7393' MD
7402.00	66.420	131.180	6570.24	46.75	900.73	2718.07	1691356.57	14351307.46	39°31'11.8908"N	80°49'9.7253"W	2863.43	71.666	11.64	6.19	10.79	
7450.00	68.260	135.530	6588.74	86.08	870.32	2750.26	1691388.74	14351277.06	39°31'11.5896"N	80°49'9.3153"W	2884.68	72.440	9.20	3.83	9.06	
7469.00†	69.005	137.130	6595.67	102.19	857.52	2762.48	1691400.95	14351264.27	39°31'11.4629"N	80°49'9.1598"W	2892.51	72.755	8.77	3.92	8.42	Tully: 7469' MD
7497.00	70.130	139.460	6605.44	126.44	837.94	2779.93	1691418.40	14351244.69	39°31'11.2689"N	80°49'8.9376"W	2903.47	73.226	8.77	4.02	8.32	
7592.00	73.970	150.570	6634.80	213.29	763.99	2831.56	1691470.01	14351170.77	39°31'10.5370"N	80°49'8.2806"W	2932.82	74.901	11.83	4.04	11.69	
7685.00	78.920	152.390	6656.59	302.49	684.57	2874.70	1691513.13	14351091.39	39°31'9.7513"N	80°49'7.7322"W	2955.09	76.605	5.65	5.32	1.96	

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Actual Wellpath Report

Glamdring Unit 2H AWP Proj: 22764'
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Glamdring Unit 2H
Field	Tyler		API	47-095-02743-0000
Facility	Margery Pad		Wellbore	Glamdring Unit 2H AWB
Slot	Slot #12			

WELLPATH DATA (252 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	
7698.00†	79.249	153.039	6659.05	315.13	673.23	2880.55	1691518.98	14351080.05	39°31'9.6390"N	80°49'7.6578"W	2958.18	76.845	5.51	2.53	4.99	Marcellus POE: 7698' MD	
7780.00	81.350	157.100	6672.87	395.54	599.95	2914.61	1691553.02	14351006.80	39°31'8.9141"N	80°49'7.2252"W	2975.71	78.369	5.51	2.56	4.95		
7874.00	87.910	160.910	6681.67	489.02	512.63	2948.10	1691586.50	14350919.52	39°31'8.0505"N	80°49'6.8001"W	2992.33	80.136	8.06	6.98	4.05		
7968.00	87.970	159.370	6685.05	582.95	424.28	2980.01	1691618.40	14350831.20	39°31'7.1767"N	80°49'6.3951"W	3010.06	81.897	1.64	0.06	-1.64		
8063.00	88.460	160.120	6688.01	677.89	335.20	3012.98	1691651.26	14350742.16	39°31'6.2956"N	80°49'5.9780"W	3031.47	83.652	0.94	0.52	0.79		
8158.00	89.600	162.070	6689.61	772.87	245.34	3043.65	1691682.02	14350652.33	39°31'5.4069"N	80°49'5.5876"W	3053.53	85.391	2.38	1.20	2.05		
8252.00	89.600	161.280	6690.27	866.85	156.11	3073.21	1691711.56	14350563.14	39°31'4.5244"N	80°49'5.2128"W	3077.17	87.092	0.84	0.00	-0.84		
8347.00	89.750	162.050	6690.81	961.84	65.94	3103.09	1691741.43	14350473.00	39°31'3.6326"N	80°49'4.8338"W	3103.79	88.783	0.83	0.16	0.81		
8441.00	89.910	162.350	6691.09	1055.81	-23.56	3131.83	1691770.16	14350383.54	39°31'2.7475"N	80°49'4.4695"W	3131.92	90.431	0.36	0.17	0.32		
8536.00	89.720	162.100	6691.40	1150.78	-114.03	3160.83	1691799.15	14350293.11	39°31'1.8528"N	80°49'4.1018"W	3162.88	92.066	0.33	-0.20	-0.26		
8631.00	89.570	161.530	6691.98	1245.76	-204.28	3190.48	1691828.78	14350202.89	39°31'0.9602"N	80°49'3.7258"W	3197.01	93.664	0.62	-0.16	-0.60		
8726.00	89.910	161.400	6692.42	1340.75	-294.35	3220.67	1691858.97	14350112.86	39°31'0.0694"N	80°49'3.3428"W	3234.10	95.222	0.38	0.36	-0.14		
8820.00	90.120	161.470	6692.39	1434.74	-383.46	3250.60	1691888.88	14350023.78	39°30'59.1881"N	80°49'2.9632"W	3273.14	96.728	0.24	0.22	0.07		
8915.00	89.600	161.570	6692.62	1529.73	-473.56	3280.71	1691918.98	14349933.72	39°30'58.2970"N	80°49'2.5813"W	3314.72	98.214	0.56	-0.55	0.11		
9010.00	89.570	161.690	6693.31	1624.72	-563.72	3310.65	1691948.91	14349843.60	39°30'57.4054"N	80°49'2.2017"W	3358.30	99.663	0.13	-0.03	0.13		
9105.00	89.720	162.070	6693.90	1719.69	-654.00	3340.20	1691978.44	14349753.35	39°30'56.5124"N	80°49'1.8270"W	3403.62	101.078	0.43	0.16	0.40		
9200.00	89.660	161.560	6694.41	1814.68	-744.26	3369.85	1692008.08	14349663.13	39°30'55.6199"N	80°49'1.4511"W	3451.05	102.454	0.54	-0.06	-0.54		
9294.00	89.690	161.750	6694.95	1908.66	-833.48	3399.43	1692037.65	14349573.94	39°30'54.7375"N	80°49'1.0759"W	3500.12	103.776	0.20	0.03	0.20		
9389.00	89.510	161.610	6695.61	2003.65	-923.66	3429.29	1692067.50	14349483.80	39°30'53.8456"N	80°49'0.6972"W	3551.50	105.075	0.24	-0.19	-0.15		
9484.00	89.660	161.510	6696.30	2098.63	-1013.78	3459.34	1692097.54	14349393.71	39°30'52.9543"N	80°49'0.3162"W	3604.83	106.334	0.19	0.16	-0.11		
9578.00	90.060	161.890	6696.53	2192.62	-1103.03	3488.85	1692127.04	14349304.50	39°30'52.0716"N	80°48'59.9419"W	3659.07	107.545	0.59	0.43	0.40		
9673.00	90.090	161.520	6696.40	2287.61	-1193.22	3518.68	1692156.85	14349214.34	39°30'51.1796"N	80°48'59.5637"W	3715.49	108.732	0.39	0.03	-0.39		
9767.00	90.030	161.510	6696.31	2381.60	-1282.37	3548.48	1692186.64	14349125.23	39°30'50.2979"N	80°48'59.1858"W	3773.09	109.869	0.06	-0.06	-0.01		
9862.00	89.720	161.830	6696.51	2476.58	-1372.55	3578.36	1692216.51	14349035.08	39°30'49.4060"N	80°48'58.8069"W	3832.56	110.985	0.47	-0.33	0.34		
9957.00	89.970	161.770	6696.77	2571.57	-1462.80	3608.03	1692246.17	14348944.87	39°30'48.5135"N	80°48'58.4307"W	3893.28	112.069	0.27	0.26	-0.06		
10051.00	90.370	161.840	6696.49	2665.55	-1552.10	3637.38	1692275.51	14348855.61	39°30'47.6303"N	80°48'58.0585"W	3954.69	113.108	0.43	0.43	0.07		
10146.00	90.180	161.550	6696.03	2760.54	-1642.29	3667.22	1692305.33	14348765.45	39°30'46.7383"N	80°48'57.6802"W	4018.16	114.124	0.36	-0.20	-0.31		
10240.00	89.570	161.480	6696.24	2854.53	-1731.44	3697.02	1692335.12	14348676.34	39°30'45.8566"N	80°48'57.3022"W	4082.38	115.095	0.65	-0.65	-0.07		
10335.00	90.150	161.430	6696.47	2949.52	-1821.51	3727.23	1692365.32	14348586.31	39°30'44.9658"N	80°48'56.9191"W	4148.51	116.045	0.61	0.61	-0.05		
10429.00	90.120	161.520	6696.25	3043.51	-1910.64	3757.10	1692395.18	14348497.22	39°30'44.0844"N	80°48'56.5403"W	4215.01	116.955	0.10	-0.03	0.10		

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Actual Wellpath Report

Glamdring Unit 2H AWP Proj: 22764'
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10523.00	90.710	161.710	6695.57	3137.50	-1999.84	3786.75	1692424.81	14348408.05	39°30'43.2022"N	80°48'56.1644"W	4282.38	117.839	0.66	0.63	0.20	
10618.00	90.150	159.330	6694.86	3232.48	-2089.39	3818.42	1692456.48	14348318.54	39°30'42.3164"N	80°48'55.7626"W	4352.69	118.687	2.57	-0.59	-2.51	
10713.00	90.580	161.070	6694.25	3327.47	-2178.77	3850.60	1692488.64	14348229.19	39°30'41.4324"N	80°48'55.3544"W	4424.27	119.502	1.89	0.45	1.83	
10807.00	90.400	161.220	6693.45	3421.47	-2267.72	3880.98	1692519.01	14348140.28	39°30'40.5527"N	80°48'54.9691"W	4494.95	120.298	0.25	-0.19	0.16	
10902.00	90.860	162.030	6692.40	3516.45	-2357.87	3910.92	1692548.94	14348050.16	39°30'39.6611"N	80°48'54.5894"W	4566.71	121.085	0.98	0.48	0.85	
10996.00	90.800	161.520	6691.04	3610.42	-2447.14	3940.32	1692578.32	14347960.92	39°30'38.7782"N	80°48'54.2167"W	4638.39	121.842	0.55	-0.06	-0.54	
11091.00	90.340	161.350	6690.10	3705.41	-2537.20	3970.56	1692608.56	14347870.91	39°30'37.8875"N	80°48'53.8332"W	4711.98	122.579	0.52	-0.48	-0.18	
11186.00	90.490	161.070	6689.41	3800.41	-2627.13	4001.16	1692639.14	14347781.01	39°30'36.9981"N	80°48'53.4451"W	4786.55	123.289	0.33	0.16	-0.29	
11281.00	90.370	160.850	6688.69	3895.40	-2716.93	4032.15	1692670.12	14347691.24	39°30'36.1099"N	80°48'53.0521"W	4862.09	123.973	0.26	-0.13	-0.23	
11376.00	90.150	160.320	6688.26	3990.40	-2806.53	4063.73	1692701.69	14347601.68	39°30'35.2238"N	80°48'52.6516"W	4938.67	124.630	0.60	-0.23	-0.56	
11470.00	90.250	161.160	6687.94	4084.40	-2895.26	4094.74	1692732.68	14347512.98	39°30'34.3461"N	80°48'52.2583"W	5014.92	125.263	0.90	0.11	0.89	
11565.00	90.150	161.600	6687.60	4179.39	-2985.29	4125.07	1692763.00	14347422.99	39°30'33.4557"N	80°48'51.8737"W	5091.97	125.893	0.47	-0.11	0.46	
11660.00	90.340	162.130	6687.20	4274.37	-3075.57	4154.64	1692792.56	14347332.75	39°30'32.5629"N	80°48'51.4988"W	5169.15	126.512	0.59	0.20	0.56	
11754.00	90.430	161.660	6686.57	4368.35	-3164.91	4183.85	1692821.76	14347243.44	39°30'31.6793"N	80°48'51.1285"W	5246.07	127.106	0.51	0.10	-0.50	
11849.00	90.030	161.110	6686.18	4463.34	-3254.94	4214.17	1692852.07	14347153.45	39°30'30.7889"N	80°48'50.7440"W	5324.84	127.682	0.72	-0.42	-0.58	
11943.00	90.650	160.640	6685.63	4557.34	-3343.75	4244.97	1692882.85	14347064.67	39°30'29.9105"N	80°48'50.3534"W	5403.74	128.227	0.83	0.66	-0.50	
12037.00	90.400	161.300	6684.77	4651.34	-3432.61	4275.62	1692913.49	14346975.85	39°30'29.0317"N	80°48'49.9647"W	5483.04	128.759	0.75	-0.27	0.70	
12132.00	90.400	161.830	6684.10	4746.32	-3522.73	4305.66	1692943.52	14346885.76	39°30'28.1403"N	80°48'49.5838"W	5563.12	129.289	0.56	0.00	0.56	
12226.00	91.050	162.400	6682.91	4840.29	-3612.18	4334.52	1692972.37	14346796.35	39°30'27.2557"N	80°48'49.2179"W	5642.34	129.806	0.92	0.69	0.61	
12320.00	90.650	162.190	6681.52	4934.24	-3701.72	4363.11	1693000.95	14346706.85	39°30'26.3702"N	80°48'48.8556"W	5721.84	130.312	0.48	-0.43	-0.22	
12414.00	90.550	161.000	6680.53	5028.22	-3790.91	4392.78	1693030.61	14346617.70	39°30'25.4881"N	80°48'48.4793"W	5802.37	130.794	1.27	-0.11	-1.27	
12509.00	90.460	159.460	6679.70	5123.21	-3880.30	4424.92	1693062.73	14346528.34	39°30'24.6039"N	80°48'48.0718"W	5885.29	131.248	1.62	-0.09	-1.62	
12603.00	90.710	159.600	6678.74	5217.19	-3968.36	4457.79	1693095.59	14346440.31	39°30'23.7329"N	80°48'47.6547"W	5968.23	131.676	0.30	0.27	0.15	
12698.00	90.680	158.550	6677.58	5312.14	-4057.09	4491.71	1693129.50	14346351.62	39°30'22.8553"N	80°48'47.2243"W	6052.72	132.090	1.11	-0.03	-1.11	
12792.00	91.080	158.900	6676.14	5406.07	-4144.67	4525.82	1693163.59	14346264.07	39°30'21.9890"N	80°48'46.7915"W	6136.88	132.483	0.57	0.43	0.37	
12887.00	90.400	159.840	6674.91	5501.03	-4233.57	4559.28	1693197.04	14346175.21	39°30'21.1097"N	80°48'46.3669"W	6221.75	132.879	1.22	-0.72	0.99	
12981.00	90.620	159.400	6674.08	5595.01	-4321.68	4592.02	1693229.76	14346087.13	39°30'20.2382"N	80°48'45.9516"W	6305.84	133.263	0.52	0.23	-0.47	
13075.00	90.580	159.470	6673.09	5688.98	-4409.69	4625.04	1693262.77	14345999.16	39°30'19.3677"N	80°48'45.5327"W	6390.33	133.635	0.09	-0.04	0.07	
13170.00	90.400	159.590	6672.28	5783.96	-4498.68	4658.26	1693295.98	14345910.20	39°30'18.4875"N	80°48'45.1112"W	6475.92	134.002	0.23	-0.19	0.13	
13265.00	90.800	159.650	6671.29	5878.94	-4587.73	4691.34	1693329.05	14345821.19	39°30'17.6067"N	80°48'44.6916"W	6561.70	134.360	0.43	0.42	0.06	

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Actual Wellpath Report

Glamdring Unit 2H AWP Proj: 22764'
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Glamdring Unit 2H
Field	Tyler		API	47-095-02743-0000
Facility	Margery Pad		Wellbore	Glamdring Unit 2H AWB
Slot	Slot #12			

WELLPATH DATA (252 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
13359.00	90.800	159.880	6669.97	5972.91	-4675.92	4723.85	1693361.54	14345733.03	39°30'16.7344"N	80°48'44.2792"W	6646.73	134.708	0.24	0.00	0.24	
13454.00	90.310	159.870	6669.05	6067.90	-4765.12	4756.53	1693394.21	14345643.87	39°30'15.8522"N	80°48'43.8646"W	6732.83	135.052	0.52	-0.52	-0.01	
13548.00	90.250	159.850	6668.59	6161.89	-4853.37	4788.90	1693426.57	14345555.66	39°30'14.9793"N	80°48'43.4540"W	6818.26	135.383	0.07	-0.06	-0.02	
13642.00	90.280	159.770	6668.16	6255.87	-4941.59	4821.34	1693458.99	14345467.47	39°30'14.1067"N	80°48'43.0425"W	6903.96	135.706	0.09	0.03	-0.09	
13737.00	90.310	159.900	6667.67	6350.86	-5030.77	4854.09	1693491.73	14345378.33	39°30'13.2247"N	80°48'42.6271"W	6990.77	136.024	0.14	0.03	0.14	
13832.00	90.090	159.520	6667.34	6445.84	-5119.87	4887.03	1693524.66	14345289.26	39°30'12.3433"N	80°48'42.2092"W	7077.86	136.333	0.46	-0.23	-0.40	
13926.00	90.310	159.730	6667.01	6539.83	-5207.99	4919.76	1693557.37	14345201.18	39°30'11.4718"N	80°48'41.7940"W	7164.30	136.630	0.32	0.23	0.22	
14020.00	90.220	160.060	6666.58	6633.82	-5296.26	4952.07	1693589.67	14345112.94	39°30'10.5987"N	80°48'41.3842"W	7250.75	136.924	0.36	-0.10	0.35	
14115.00	90.220	160.040	6666.21	6728.81	-5385.56	4984.48	1693622.07	14345023.68	39°30'9.7155"N	80°48'40.9730"W	7338.21	137.215	0.02	0.00	-0.02	
14209.00	90.180	159.690	6665.88	6822.80	-5473.81	5016.84	1693654.42	14344935.46	39°30'8.8425"N	80°48'40.5626"W	7425.05	137.494	0.37	-0.04	-0.37	
14304.00	90.220	159.810	6665.55	6917.78	-5562.94	5049.72	1693687.29	14344846.37	39°30'7.9610"N	80°48'40.1455"W	7513.06	137.769	0.13	0.04	0.13	
14398.00	90.250	161.120	6665.17	7011.78	-5651.53	5081.15	1693718.70	14344757.82	39°30'7.0848"N	80°48'39.7469"W	7599.86	138.042	1.39	0.03	1.39	
14493.00	90.150	159.750	6664.83	7106.77	-5741.04	5112.97	1693750.50	14344668.34	39°30'6.1995"N	80°48'39.3435"W	7687.78	138.312	1.45	-0.11	-1.44	
14587.00	90.310	159.570	6664.46	7200.76	-5829.18	5145.64	1693783.16	14344580.24	39°30'5.3277"N	80°48'38.9290"W	7775.40	138.564	0.26	0.17	-0.19	
14682.00	90.180	159.860	6664.05	7295.74	-5918.29	5178.57	1693816.09	14344491.17	39°30'4.4463"N	80°48'38.5113"W	7864.08	138.814	0.33	-0.14	0.31	
14776.00	90.430	160.600	6663.55	7389.74	-6006.74	5210.37	1693847.87	14344402.75	39°30'3.5714"N	80°48'38.1081"W	7951.66	139.061	0.83	0.27	0.79	
14871.00	90.220	160.350	6663.01	7484.73	-6096.28	5242.12	1693879.61	14344313.25	39°30'2.6858"N	80°48'37.7054"W	8040.18	139.308	0.34	-0.22	-0.26	
14965.00	90.150	160.140	6662.71	7578.73	-6184.75	5273.89	1693911.36	14344224.81	39°30'1.8108"N	80°48'37.3025"W	8128.04	139.545	0.24	-0.07	-0.22	
15060.00	90.340	160.070	6662.30	7673.72	-6274.08	5306.22	1693943.68	14344135.52	39°30'0.9273"N	80°48'36.8925"W	8217.05	139.778	0.21	0.20	-0.07	
15154.00	90.250	159.940	6661.82	7767.71	-6362.41	5338.36	1693975.81	14344047.22	39°30'0.0536"N	80°48'36.4848"W	8305.32	140.002	0.17	-0.10	-0.14	
15249.00	90.250	159.470	6661.40	7862.70	-6451.51	5371.31	1694008.75	14343958.16	39°29'59.1723"N	80°48'36.0669"W	8394.82	140.220	0.49	0.00	-0.49	
15343.00	90.250	159.880	6660.99	7956.68	-6539.66	5403.96	1694041.38	14343870.05	39°29'58.3004"N	80°48'35.6528"W	8483.51	140.432	0.44	0.00	0.44	
15437.00	90.280	160.160	6660.56	8050.67	-6628.00	5436.08	1694073.49	14343781.74	39°29'57.4267"N	80°48'35.2454"W	8572.12	140.642	0.30	0.03	0.30	
15532.00	90.180	159.890	6660.18	8145.66	-6717.28	5468.53	1694105.93	14343692.49	39°29'56.5435"N	80°48'34.8338"W	8661.80	140.851	0.30	-0.11	-0.28	
15626.00	90.400	159.780	6659.70	8239.65	-6805.52	5500.94	1694138.32	14343604.29	39°29'55.6708"N	80°48'34.4229"W	8750.74	141.051	0.26	0.23	-0.12	
15721.00	90.090	159.370	6659.29	8334.63	-6894.54	5534.09	1694171.46	14343515.30	39°29'54.7902"N	80°48'34.0024"W	8840.86	141.247	0.54	-0.33	-0.43	
15815.00	90.310	160.070	6658.97	8428.61	-6982.72	5566.67	1694204.03	14343427.16	39°29'53.9181"N	80°48'33.5891"W	8930.07	141.438	0.78	0.23	0.74	
15910.00	90.120	160.500	6658.61	8523.61	-7072.15	5598.72	1694236.06	14343337.77	39°29'53.0336"N	80°48'33.1827"W	9020.03	141.633	0.49	-0.20	0.45	
16005.00	90.280	160.930	6658.28	8618.61	-7161.81	5630.09	1694267.42	14343248.13	39°29'52.1467"N	80°48'32.7849"W	9109.86	141.828	0.48	0.17	0.45	
16099.00	90.150	160.720	6657.93	8712.61	-7250.60	5660.97	1694298.29	14343159.39	39°29'51.2686"N	80°48'32.3935"W	9198.79	142.019	0.26	-0.14	-0.22	

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Actual Wellpath Report

Glamdring Unit 2H AWP Proj: 22764'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Glamdring Unit 2H
Field	Tyler	API	47-095-02743-0000
Facility	Margery Pad	Wellbore	Glamdring Unit 2H AWB
Slot	Slot #12		

WELLPATH DATA (252 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
16194.00	90.400	160.770	6657.47	8807.61	-7340.28	5692.29	1694329.60	14343069.74	39°29'50.3815"N	80°48'31.9963"W	9288.81	142.207	0.27	0.26	0.05	
16289.00	90.310	161.000	6656.88	8902.61	-7430.04	5723.40	1694360.70	14342980.01	39°29'49.4937"N	80°48'31.6019"W	9378.85	142.393	0.26	-0.09	0.24	
16383.00	90.000	160.770	6656.63	8996.60	-7518.86	5754.18	1694391.47	14342891.23	39°29'48.6153"N	80°48'31.2116"W	9468.05	142.573	0.41	-0.33	-0.24	
16478.00	90.180	160.940	6656.48	9091.60	-7608.61	5785.34	1694422.61	14342801.52	39°29'47.7276"N	80°48'30.8166"W	9558.30	142.752	0.26	0.19	0.18	
16572.00	90.710	160.870	6655.75	9185.60	-7697.43	5816.09	1694453.35	14342712.73	39°29'46.8491"N	80°48'30.4268"W	9647.66	142.926	0.57	0.56	-0.07	
16667.00	90.280	160.830	6654.93	9280.60	-7787.17	5847.25	1694484.50	14342623.03	39°29'45.9615"N	80°48'30.0317"W	9738.09	143.098	0.45	-0.45	-0.04	
16761.00	90.150	160.840	6654.57	9374.60	-7875.96	5878.11	1694515.34	14342534.28	39°29'45.0833"N	80°48'29.6405"W	9827.66	143.265	0.14	-0.14	0.01	
16856.00	90.180	160.840	6654.30	9469.60	-7965.70	5909.29	1694546.51	14342444.57	39°29'44.1958"N	80°48'29.2452"W	9918.27	143.430	0.03	0.03	0.00	
16951.00	90.030	161.110	6654.13	9564.59	-8055.51	5940.26	1694577.47	14342354.80	39°29'43.3075"N	80°48'28.8526"W	10008.89	143.594	0.33	-0.16	0.28	
17045.00	90.220	160.760	6653.92	9658.59	-8144.35	5970.96	1694608.16	14342265.99	39°29'42.4288"N	80°48'28.4634"W	10098.66	143.753	0.42	0.20	-0.37	
17140.00	90.280	160.990	6653.51	9753.59	-8234.11	6002.09	1694639.27	14342176.27	39°29'41.5411"N	80°48'28.0688"W	10189.48	143.911	0.25	0.06	0.24	
17235.00	90.220	160.990	6653.09	9848.59	-8323.92	6033.03	1694670.20	14342086.49	39°29'40.6527"N	80°48'27.6765"W	10280.33	144.066	0.06	-0.06	0.00	
17329.00	90.280	160.840	6652.68	9942.59	-8412.76	6063.77	1694700.93	14341997.69	39°29'39.7741"N	80°48'27.2869"W	10370.33	144.217	0.17	0.06	-0.16	
17424.00	90.150	161.110	6652.33	10037.59	-8502.57	6094.74	1694731.88	14341907.92	39°29'38.8858"N	80°48'26.8943"W	10461.33	144.367	0.32	-0.14	0.28	
17518.00	90.220	160.820	6652.02	10131.59	-8591.43	6125.39	1694762.53	14341819.09	39°29'38.0069"N	80°48'26.5057"W	10551.45	144.512	0.32	0.07	-0.31	
17612.00	90.000	160.530	6651.84	10225.59	-8680.13	6156.50	1694793.62	14341730.43	39°29'37.1296"N	80°48'26.1113"W	10641.76	144.653	0.39	-0.23	-0.31	
17707.00	90.220	160.980	6651.66	10320.58	-8769.82	6187.81	1694824.92	14341640.77	39°29'36.2425"N	80°48'25.7144"W	10733.07	144.794	0.53	0.23	0.47	
17801.00	89.970	160.510	6651.50	10414.58	-8858.56	6218.81	1694855.91	14341552.07	39°29'35.3648"N	80°48'25.3214"W	10823.48	144.931	0.57	-0.27	-0.50	
17895.00	89.750	160.670	6651.73	10508.58	-8947.22	6250.05	1694887.13	14341463.44	39°29'34.4879"N	80°48'24.9254"W	10914.02	145.064	0.29	-0.23	0.17	
17990.00	90.400	160.930	6651.61	10603.58	-9036.93	6281.29	1694918.36	14341373.76	39°29'33.6005"N	80°48'24.5293"W	11005.49	145.198	0.74	0.68	0.27	
18084.00	90.150	160.810	6651.16	10697.58	-9125.74	6312.10	1694949.16	14341284.99	39°29'32.7222"N	80°48'24.1388"W	11096.02	145.329	0.30	-0.27	-0.13	
18179.00	90.250	161.150	6650.83	10792.58	-9215.56	6343.06	1694980.10	14341195.21	39°29'31.8338"N	80°48'23.7464"W	11187.53	145.460	0.37	0.11	0.36	
18274.00	90.120	161.000	6650.52	10887.58	-9305.42	6373.87	1695010.90	14341105.39	39°29'30.9450"N	80°48'23.3558"W	11279.05	145.590	0.21	-0.14	-0.16	
18368.00	88.710	161.300	6651.48	10981.57	-9394.37	6404.24	1695041.26	14341016.47	39°29'30.0653"N	80°48'22.9709"W	11369.63	145.717	1.53	-1.50	0.32	
18463.00	88.340	160.830	6653.92	11076.53	-9484.20	6435.05	1695072.06	14340926.68	39°29'29.1768"N	80°48'22.5803"W	11461.24	145.843	0.63	-0.39	-0.49	
18557.00	88.800	160.580	6656.27	11170.50	-9572.89	6466.10	1695103.10	14340838.02	39°29'28.2996"N	80°48'22.1867"W	11552.09	145.963	0.56	0.49	-0.27	
18651.00	89.320	160.790	6657.81	11264.49	-9661.59	6497.19	1695134.18	14340749.36	39°29'27.4223"N	80°48'21.7926"W	11643.01	146.080	0.60	0.55	0.22	
18746.00	89.420	160.710	6658.86	11359.49	-9751.27	6528.51	1695165.48	14340659.71	39°29'26.5352"N	80°48'21.3956"W	11734.94	146.198	0.13	0.11	-0.08	
18840.00	89.450	160.680	6659.78	11453.48	-9839.98	6559.58	1695196.54	14340571.04	39°29'25.6578"N	80°48'21.0017"W	11825.96	146.312	0.05	0.03	-0.03	
18934.00	89.420	161.020	6660.71	11547.48	-9928.78	6590.42	1695227.37	14340482.28	39°29'24.7796"N	80°48'20.6108"W	11916.97	146.425	0.36	-0.03	0.36	

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Actual Wellpath Report

Glamdring Unit 2H AWP Proj: 22764'
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Glamdring Unit 2H
Field	Tyler		API	47-095-02743-0000
Facility	Margery Pad		Wellbore	Glamdring Unit 2H AWB
Slot	Slot #12			

WELLPATH DATA (252 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
19029.00	89.940	161.000	6661.24	11642.47	-10018.60	6621.33	1695258.27	14340392.49	39°29'23.8911"N	80°48'20.2190"W	12008.93	146.539	0.55	0.55	-0.02	
19123.00	89.820	160.950	6661.44	11736.47	-10107.47	6651.97	1695288.90	14340303.66	39°29'23.0122"N	80°48'19.8306"W	12099.99	146.650	0.14	-0.13	-0.05	
19218.00	89.880	161.040	6661.69	11831.47	-10197.29	6682.91	1695319.82	14340213.87	39°29'22.1238"N	80°48'19.4385"W	12192.05	146.761	0.11	0.06	0.09	
19312.00	90.150	160.960	6661.66	11925.47	-10286.17	6713.51	1695350.41	14340125.03	39°29'21.2447"N	80°48'19.0506"W	12283.18	146.869	0.30	0.29	-0.09	
19406.00	90.310	161.140	6661.28	12019.47	-10375.07	6744.04	1695380.93	14340036.16	39°29'20.3654"N	80°48'18.6637"W	12374.34	146.975	0.26	0.17	0.19	
19501.00	89.780	160.680	6661.21	12114.47	-10464.85	6775.11	1695411.98	14339946.42	39°29'19.4774"N	80°48'18.2699"W	12466.56	147.080	0.74	-0.56	-0.48	
19596.00	90.250	160.800	6661.19	12209.47	-10554.53	6806.44	1695443.31	14339856.77	39°29'18.5904"N	80°48'17.8727"W	12558.89	147.183	0.51	0.49	0.13	
19691.00	90.060	160.640	6660.93	12304.47	-10644.20	6837.81	1695474.66	14339767.14	39°29'17.7035"N	80°48'17.4751"W	12651.27	147.283	0.26	-0.20	-0.17	
19785.00	90.310	161.310	6660.62	12398.46	-10733.07	6868.45	1695505.29	14339678.31	39°29'16.8245"N	80°48'17.0867"W	12742.62	147.383	0.76	0.27	0.71	
19880.00	90.430	161.490	6660.01	12493.46	-10823.10	6898.75	1695535.58	14339588.31	39°29'15.9340"N	80°48'16.7027"W	12834.81	147.486	0.23	0.13	0.19	
19975.00	90.150	160.780	6659.53	12588.45	-10913.00	6929.47	1695566.28	14339498.45	39°29'15.0449"N	80°48'16.3135"W	12927.15	147.586	0.80	-0.29	-0.75	
20069.00	90.220	160.820	6659.23	12682.45	-11001.77	6960.38	1695597.18	14339409.71	39°29'14.1669"N	80°48'15.9216"W	13018.67	147.680	0.09	0.07	0.04	
20164.00	90.150	160.890	6658.92	12777.45	-11091.51	6991.54	1695628.33	14339320.00	39°29'13.2792"N	80°48'15.5267"W	13111.19	147.775	0.10	-0.07	0.07	
20259.00	89.720	160.690	6659.03	12872.45	-11181.22	7022.80	1695659.57	14339230.33	39°29'12.3919"N	80°48'15.1306"W	13203.77	147.868	0.50	-0.45	-0.21	
20353.00	89.940	160.750	6659.31	12966.45	-11269.95	7053.84	1695690.60	14339141.64	39°29'11.5143"N	80°48'14.7372"W	13295.43	147.958	0.24	0.23	0.06	
20448.00	89.880	161.250	6659.46	13061.45	-11359.78	7084.76	1695721.51	14339051.85	39°29'10.6259"N	80°48'14.3452"W	13387.99	148.049	0.53	-0.06	0.53	
20543.00	90.060	161.080	6659.51	13156.44	-11449.69	7115.43	1695752.17	14338961.97	39°29'9.7366"N	80°48'13.9565"W	13480.53	148.141	0.26	0.19	-0.18	
20637.00	89.380	161.500	6659.96	13250.44	-11538.72	7145.59	1695782.31	14338872.98	39°29'8.8561"N	80°48'13.5744"W	13572.08	148.231	0.85	-0.72	0.45	
20731.00	89.450	161.100	6660.92	13344.43	-11627.75	7175.72	1695812.44	14338783.98	39°29'7.9755"N	80°48'13.1925"W	13663.66	148.320	0.43	0.07	-0.43	
20826.00	89.540	161.050	6661.76	13439.42	-11717.61	7206.53	1695843.24	14338694.16	39°29'7.0867"N	80°48'12.8021"W	13756.33	148.408	0.11	0.09	-0.05	
20920.00	89.230	160.810	6662.77	13533.42	-11806.45	7237.24	1695873.93	14338605.35	39°29'6.2080"N	80°48'12.4129"W	13848.10	148.492	0.42	-0.33	-0.26	
21015.00	89.420	160.940	6663.89	13628.41	-11896.20	7268.37	1695905.04	14338515.64	39°29'5.3203"N	80°48'12.0184"W	13940.90	148.576	0.24	0.20	0.14	
21110.00	89.380	160.790	6664.88	13723.40	-11985.95	7299.50	1695936.17	14338425.93	39°29'4.4326"N	80°48'11.6238"W	14033.73	148.658	0.16	-0.04	-0.16	
21205.00	89.880	161.090	6665.50	13818.40	-12075.74	7330.53	1695967.18	14338336.18	39°29'3.5445"N	80°48'11.2306"W	14126.57	148.740	0.61	0.53	0.32	
21299.00	89.780	160.860	6665.78	13912.40	-12164.60	7361.17	1695997.81	14338247.35	39°29'2.6656"N	80°48'10.8423"W	14218.45	148.821	0.27	-0.11	-0.24	
21394.00	89.940	161.110	6666.01	14007.40	-12254.42	7392.12	1696028.75	14338157.57	39°29'1.7772"N	80°48'10.4500"W	14311.33	148.901	0.31	0.17	0.26	
21488.00	89.940	161.280	6666.11	14101.40	-12343.40	7422.42	1696059.04	14338068.62	39°29'0.8971"N	80°48'10.0661"W	14403.19	148.980	0.18	0.00	0.18	
21583.00	89.780	160.700	6666.34	14196.39	-12433.22	7453.37	1696089.97	14337978.84	39°29'0.0088"N	80°48'9.6739"W	14496.12	149.058	0.63	-0.17	-0.61	
21678.00	89.850	161.180	6666.65	14291.39	-12523.01	7484.39	1696120.98	14337889.08	39°28'59.1207"N	80°48'9.2808"W	14589.10	149.135	0.51	0.07	0.51	
21772.00	89.820	161.130	6666.92	14385.39	-12611.97	7514.75	1696151.33	14337800.16	39°28'58.2408"N	80°48'8.8960"W	14681.05	149.212	0.06	-0.03	-0.05	

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Actual Wellpath Report

Glamdring Unit 2H AWP Proj: 22764'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Glamdring Unit 2H
Field	Tyler	API	47-095-02743-0000
Facility	Margery Pad	Wellbore	Glamdring Unit 2H AWB
Slot	Slot #12		

WELLPATH DATA (252 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
21866.00	89.910	161.110	6667.14	14479.39	-12700.91	7545.17	1696181.74	14337711.25	39°28'57.3611"N	80°48'8.5106"W	14773.04	149.287	0.10	0.10	-0.02	
21961.00	89.820	160.870	6667.36	14574.39	-12790.73	7576.11	1696212.67	14337621.47	39°28'56.4727"N	80°48'8.1185"W	14866.08	149.361	0.27	-0.09	-0.25	
22055.00	89.820	160.540	6667.66	14668.38	-12879.45	7607.17	1696243.72	14337532.78	39°28'55.5952"N	80°48'7.7248"W	14958.25	149.432	0.35	0.00	-0.35	
22150.00	89.780	161.020	6667.99	14763.38	-12969.15	7638.45	1696274.98	14337443.12	39°28'54.7079"N	80°48'7.3285"W	15051.41	149.503	0.51	-0.04	0.51	
22244.00	89.850	161.310	6668.29	14857.38	-13058.12	7668.79	1696305.31	14337354.19	39°28'53.8280"N	80°48'6.9439"W	15143.48	149.575	0.32	0.07	0.31	
22338.00	89.780	161.300	6668.60	14951.38	-13147.16	7698.92	1696335.43	14337265.18	39°28'52.9473"N	80°48'6.5622"W	15235.53	149.647	0.08	-0.07	-0.01	
22433.00	89.880	161.080	6668.88	15046.37	-13237.09	7729.55	1696366.05	14337175.29	39°28'52.0579"N	80°48'6.1741"W	15328.62	149.718	0.25	0.11	-0.23	
22528.00	89.820	161.170	6669.13	15141.37	-13326.98	7760.29	1696396.77	14337085.44	39°28'51.1688"N	80°48'5.7847"W	15421.75	149.788	0.11	-0.06	0.09	
22623.00	89.850	161.000	6669.40	15236.37	-13416.85	7791.08	1696427.55	14336995.60	39°28'50.2799"N	80°48'5.3944"W	15514.92	149.857	0.18	0.03	-0.18	
22718.00	89.850	161.130	6669.65	15331.37	-13506.71	7821.91	1696458.37	14336905.78	39°28'49.3911"N	80°48'5.0038"W	15608.12	149.924	0.14	0.00	0.14	
22741.00	89.940	161.310	6669.69	15354.36	-13528.48	7829.31	1696465.77	14336884.01	39°28'49.1757"N	80°48'4.9100"W	15630.67	149.941	0.87	0.39	0.78	
22764.00‡	89.940	161.310	6669.72	15377.36	-13550.27	7836.68	1696473.14	14336862.23	39°28'48.9602"N	80°48'4.8166"W	15653.22	149.957	0.00	0.00	0.00	Projected MD at TD: 22764'

HOLE & CASING SECTIONS - Ref Wellbore: Glamdring Unit 2H AWB Ref Wellpath: Glamdring Unit 2H AWP Proj: 22764'									
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	25.50	126.00	100.50	25.50	126.00	0.00	0.00	0.13	0.54
17.5in Open Hole	126.00	405.00	279.00	126.00	404.99	0.13	0.54	0.72	2.02
13.375in Casing Surface	25.50	386.00	360.50	25.50	385.99	0.00	0.00	0.65	1.94
12.25in Open Hole	405.00	2746.00	2341.00	404.99	2558.26	0.72	2.02	351.36	760.19
9.625in Casing Intermediate	25.50	2726.00	2700.50	25.50	2540.55	0.00	0.00	346.50	752.27
8.75in Open Hole	2746.00	5839.00	3093.00	2558.26	5339.31	351.36	760.19	990.83	1934.94
8.5in Open Hole	5839.00	22764.00	16925.00	5339.31	6669.72	990.83	1934.94	-13550.27	7836.68
5.5in Casing Production	25.50	22744.00	22718.50	25.50	6669.69	0.00	0.00	-13531.32	7830.28



Actual Wellpath Report

Glamdring Unit 2H AWP Proj: 22764'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Glamdring Unit 2H
Field	Tyler	API	47-095-02743-0000
Facility	Margery Pad	Wellbore	Glamdring Unit 2H AWB
Slot	Slot #12		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Glamdring Unit 2H POE Rev-2	6638.00	753.65	2776.71	1691415.18	14351160.44	39°31'10.4360"N	80°49'8.9808"W	point
Glamdring Unit 2H AZI Rev-2	6663.00	297.86	2997.40	1691635.78	14350704.84	39°31'5.9269"N	80°49'6.1765"W	point
Glamdring Unit 2H BHL Rev-2	6663.00	-13564.81	7843.23	1696479.68	14336847.70	39°28'48.8164"N	80°48'4.7335"W	point
Glamdring Unit 2H LP Rev-2	6663.00	589.36	2867.23	1691505.67	14350996.22	39°31'8.8105"N	80°49'7.8299"W	point
Glamdring Unit 2H 50' L/R Hard Line	7000.00	-6632.16	5419.86	1694057.27	14343777.57	39°29'57.3858"N	80°48'35.4525"W	rectangle
2D Rectangle 14688 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Glamdring Unit 2H AWB Ref Wellpath: Glamdring Unit 2H AWP Proj: 22764'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	378.00	Gyrodatta 2015 - GC+WIR+DPIPE	01 Gyrodatta MS Gyro <17-1/2"> (100'-378')	Glamdring Unit 2H AWB	28/Sep/2021
378.00	2678.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-1/4"> (378')(507'-2678')	Glamdring Unit 2H AWB	28/Sep/2021
2678.00	5777.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (2678')(2748'-5777')	Glamdring Unit 2H AWB	28/Sep/2021
5777.00	22764.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (5777')(5815'-22741')	Glamdring Unit 2H AWB	28/Sep/2021



Actual Wellpath Report

Glamdring Unit 2H AWP Proj: 22764'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Glamdring Unit 2H
Field	Tyler	API	47-095-02743-0000
Facility	Margery Pad	Wellbore	Glamdring Unit 2H AWB
Slot	Slot #12		

COMMENTS
<p>Wellpath general comments API: 47-095-02743-0000 BH Job #: 111046859 Rig: H&P 317 Duration: 9/30/2021-10/9/2021 Gyrodata MS Gyro <17-1/2"> (100'-378') APS EM <12-1/4"> (378')(507'-2678') APS EM <8-3/4"> (2678')(2748'-5777') BH AT Curve <8-1/2"> (5777')(5815'-22741') Sycamore: 7002' MD Middlesex: 7187' MD Burkett: 7393' MD Tully: 7469' MD Marcellus POE: 7698' MD Projected MD at TD: 22764'</p>

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