



# ANTERO RESOURCES CORPORATION



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

Slot: Slot #07  
 Well: Parr Unit 1H  
 Wellbore: Parr Unit 1H PWB

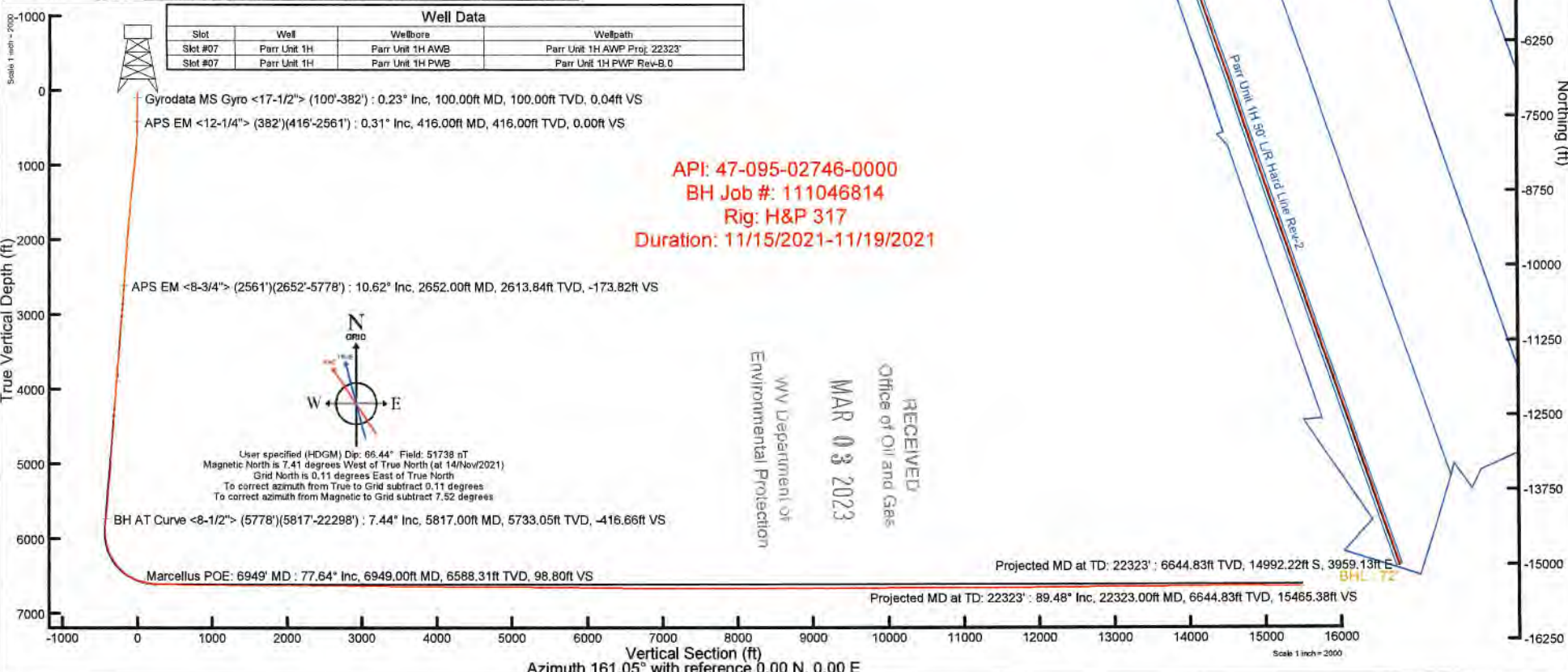
Easting (ft)  
 Scale 1 inch = 2500

Plot reference wellbore is Parr Unit 1H PWB Rev-B.0	Grid System: NAD83 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 317 (RKB)	North Reference: Grid north
Wellbore depths measured depths are referenced to H&P 317 (RKB)	Scale: True distance
H&P 317 (RKB) is 145 feet Local Level: 1066.5 feet	Coordinates are in feet referenced to slot
Mean Sea Level to Ground level (At Slot: Slot #07) : -1041 feet	Depths are in feet
Official wellbore MDs are referenced to each well's default MD datum	Created by: antero on 2021-11-19; Database: WA_MPL_EASTERNUS; Date:

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)
Slot #07	154.95	129.74	1688600.440	14350471.040
Comment	Parr Unit 1H			
H&P 317 (RKB) to Ground level (At Slot: Slot #07)	25.5ft			
Mean Sea Level to Ground level (At Slot: Slot #07)	-1041ft			
H&P 317 (RKB) to Mean Sea Level	1066.5ft			

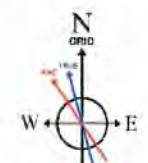
Well Profile Data							
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	VS (ft)
Tie On	2561.00	11.120	273.650	2524.48	49.78	-370.66	0.19
Proj. to Bottom	2651.00	11.120	273.650	2612.79	50.88	-367.98	0.00
Drill Out	2731.00	11.120	273.650	2691.28	51.87	-403.38	0.00
End of 3D Arc	2788.37	9.683	278.908	2747.71	52.96	-413.67	3.00
Curve KOP	5953.99	9.683	278.908	5868.24	135.41	-939.68	0.00
POE	6919.50	74.514	173.765	6585.00	-397.81	-974.87	5.00
Landing Pt.	7113.08	90.000	173.765	6611.00	-587.90	-954.10	8.00
On AZI	7536.88	90.000	161.051	6611.00	-1000.67	-861.90	3.00
BHL	22350.00	90.000	161.051	6611.00	-15011.00	3948.41	0.00

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #07	Parr Unit 1H	Parr Unit 1H AWB	Parr Unit 1H AWP Proj. 22323'
Slot #07	Parr Unit 1H	Parr Unit 1H PWB	Parr Unit 1H PWP Rev-B.0



Gyrodatta MS Gyro <17-1/2"> (100'-382') : 100.00ft TVD, 0.01ft N, 0.15ft E  
 APS EM <12-1/4"> (382')(416'-2561') : 416.00ft TVD, 0.23ft N, 0.66ft E  
 BH AT Curve <8-1/2"> (5778')(5817'-22298') : 5733.05ft TVD, 127.04ft N, 913.06ft W  
 Marcellus POE: 6949' MD : 6588.31ft TVD, 438.32ft S, 972.34ft W

API: 47-095-02746-0000  
 BH Job #: 111046814  
 Rig: H&P 317  
 Duration: 11/15/2021-11/19/2021



User specified (HDGM) Dip: 86.44° Field: 51738 nT  
 Magnetic North is 7.41 degrees West of True North (at 14/Nov/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

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Projected MD at TD: 22323' : 6644.83ft TVD, 14992.22ft S, 3959.13ft E  
 Projected MD at TD: 22323' : 89.48° Inc, 22323.00ft MD, 6644.83ft TVD, 15465.38ft VS

Vertical Section (ft)  
 Azimuth 161.05° with reference 0.00 N, 0.00 E



# Actual Wellpath Report

Parr Unit 1H AWP Proj: 22323'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Parr Unit 1H
Field	Tyler	API	47-095-02746-0000
Facility	Margery Pad	Wellbore	Parr Unit 1H AWB
Slot	Slot #07		

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	29/Nov/2021 at 20:16
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	154.95	129.74	1688600.44	14350471.04	39°31'3.6741"N	80°49'44.9288"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 #07)	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	161.05°

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Field	Tyler	API	47-095-02746-0000
Facility	Margery Pad	Wellbore	Parr Unit 1H AWB
Slot	Slot #07		

WELLPATH DATA (248 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]	[°N]	[°W]	[ft]	[°]	[ft/100ft]	[ft/100ft]	[°/100ft]	
0.00	0.000	85.660	0.00	0.00	0.00	0.00	1688600.44	14350471.04	39°31'3.6741"N	80°49'44.9288"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	85.660	25.50	0.00	0.00	0.00	1688600.44	14350471.04	39°31'3.6741"N	80°49'44.9288"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.230	85.660	100.00	0.04	0.01	0.15	1688600.59	14350471.05	39°31'3.6742"N	80°49'44.9269"W	0.15	85.660	0.31	0.31	0.00	Gyrodata MS Gyro <17-1/2"> (100'-382')
200.00	0.110	141.050	200.00	0.18	-0.05	0.41	1688600.85	14350470.99	39°31'3.6736"N	80°49'44.9236"W	0.41	96.705	0.19	-0.12	55.39	
300.00	0.090	54.200	300.00	0.25	-0.08	0.53	1688600.97	14350470.96	39°31'3.6733"N	80°49'44.9220"W	0.54	98.196	0.14	-0.02	-86.85	
382.00	0.190	22.780	382.00	0.13	0.09	0.64	1688601.08	14350471.13	39°31'3.6749"N	80°49'44.9207"W	0.64	82.314	0.15	0.12	-38.32	
416.00	0.310	1.650	416.00	0.00	0.23	0.66	1688601.10	14350471.27	39°31'3.6763"N	80°49'44.9203"W	0.70	70.861	0.44	0.35	-62.15	APS EM <12-1/4"> (382')(416'-2561')
507.00	1.400	293.170	506.99	-0.98	0.91	-0.35	1688600.09	14350471.95	39°31'3.6831"N	80°49'44.9333"W	0.98	338.930	1.45	1.20	-75.25	
597.00	3.680	285.700	596.89	-3.36	2.13	-4.14	1688596.30	14350473.17	39°31'3.6952"N	80°49'44.9816"W	4.66	297.181	2.55	2.53	-8.30	
688.00	5.860	283.850	687.57	-7.54	4.03	-11.47	1688588.98	14350475.07	39°31'3.7141"N	80°49'45.0750"W	12.15	289.366	2.40	2.40	-2.03	
778.00	7.760	283.640	776.93	-13.30	6.56	-21.83	1688578.62	14350477.60	39°31'3.7393"N	80°49'45.2072"W	22.80	286.732	2.11	2.11	-0.23	
869.00	9.780	285.250	866.87	-20.95	10.05	-35.26	1688565.19	14350481.08	39°31'3.7740"N	80°49'45.3785"W	36.66	285.901	2.24	2.22	1.77	
958.00	10.530	285.020	954.47	-29.74	14.14	-50.41	1688550.05	14350485.18	39°31'3.8148"N	80°49'45.5717"W	52.36	285.670	0.84	0.84	-0.26	
1048.00	10.910	284.720	1042.90	-39.06	18.44	-66.59	1688533.88	14350489.47	39°31'3.8575"N	80°49'45.7780"W	69.09	285.476	0.43	0.42	-0.33	
1142.00	11.360	283.300	1135.13	-48.93	22.83	-84.20	1688516.27	14350493.86	39°31'3.9012"N	80°49'46.0027"W	87.24	285.168	0.56	0.48	-1.51	
1237.00	11.640	282.690	1228.22	-58.95	27.08	-102.66	1688497.82	14350498.11	39°31'3.9437"N	80°49'46.2381"W	106.17	284.780	0.32	0.29	-0.64	
1331.00	11.560	280.640	1320.30	-68.58	30.91	-121.17	1688479.32	14350501.93	39°31'3.9818"N	80°49'46.4741"W	125.04	284.310	0.45	-0.09	-2.18	
1426.00	11.780	281.230	1413.34	-78.15	34.55	-140.03	1688460.46	14350505.58	39°31'4.0182"N	80°49'46.7148"W	144.23	283.861	0.26	0.23	0.62	
1521.00	11.890	276.780	1506.32	-87.28	37.60	-159.26	1688441.24	14350508.62	39°31'4.0486"N	80°49'46.9601"W	163.64	283.283	0.97	0.12	-4.68	
1615.00	11.810	278.160	1598.32	-95.87	40.11	-178.40	1688422.11	14350511.13	39°31'4.0738"N	80°49'47.2042"W	182.85	282.670	0.31	-0.09	1.47	
1710.00	11.950	277.700	1691.28	-104.71	42.80	-197.77	1688402.75	14350513.83	39°31'4.1008"N	80°49'47.4513"W	202.35	282.212	0.18	0.15	-0.48	
1804.00	11.950	275.270	1783.25	-113.06	45.00	-217.10	1688383.42	14350516.02	39°31'4.1229"N	80°49'47.6980"W	221.72	281.710	0.54	0.00	-2.59	
1899.00	11.720	273.050	1876.23	-120.71	46.42	-236.53	1688364.00	14350517.44	39°31'4.1372"N	80°49'47.9458"W	241.04	281.103	0.54	-0.24	-2.34	
1993.00	11.660	272.120	1968.28	-127.71	47.28	-255.56	1688344.98	14350518.30	39°31'4.1461"N	80°49'48.1886"W	259.90	280.481	0.21	-0.06	-0.99	
2087.00	11.980	271.170	2060.29	-134.48	47.83	-274.81	1688325.74	14350518.85	39°31'4.1519"N	80°49'48.4342"W	278.94	279.873	0.40	0.34	-1.01	
2181.00	11.960	271.040	2152.24	-141.16	48.20	-294.30	1688306.26	14350519.22	39°31'4.1560"N	80°49'48.6829"W	298.22	279.302	0.04	-0.02	-0.14	
2276.00	12.020	270.880	2245.17	-147.88	48.53	-314.03	1688286.54	14350519.55	39°31'4.1596"N	80°49'48.9346"W	317.76	278.786	0.07	0.06	-0.17	
2371.00	11.750	268.940	2338.13	-154.21	48.51	-333.59	1688266.98	14350519.53	39°31'4.1597"N	80°49'49.1843"W	337.10	278.273	0.51	-0.28	-2.04	
2466.00	11.090	272.720	2431.25	-160.56	48.76	-352.39	1688248.19	14350519.78	39°31'4.1626"N	80°49'49.4241"W	355.75	277.878	1.05	-0.69	3.98	
2561.00	11.120	273.650	2524.48	-167.45	49.78	-370.66	1688229.93	14350520.80	39°31'4.1730"N	80°49'49.6572"W	373.99	277.649	0.19	0.03	0.98	

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# Actual Wellpath Report

Parr Unit 1H AWP Proj: 22323'  
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Parr Unit 1H
Field	Tyler		API	47-095-02746-0000
Facility	Margery Pad		Wellbore	Parr Unit 1H AWB
Slot	Slot #07			

WELLPATH DATA (248 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
2652.00	10.620	272.010	2613.84	-173.82	50.63	-387.80	1688212.80	14350521.65	39°31'4.1817"N	80°49'49.8759"W	391.09	277.439	0.65	-0.55	-1.80	APS EM <8-3/4"> (2561')(2652'-5778')
2746.00	11.540	267.080	2706.09	-179.52	50.46	-405.84	1688194.76	14350521.48	39°31'4.1803"N	80°49'50.1062"W	408.97	277.087	1.40	0.98	-5.24	
2840.00	12.060	269.980	2798.11	-185.30	49.97	-425.06	1688175.55	14350520.99	39°31'4.1759"N	80°49'50.3513"W	427.98	276.705	0.84	0.55	3.09	
2935.00	11.630	273.770	2891.08	-192.22	50.60	-444.53	1688156.08	14350521.62	39°31'4.1824"N	80°49'50.5998"W	447.41	276.494	0.94	-0.45	3.99	
3030.00	11.440	277.860	2984.17	-200.16	52.52	-463.42	1688137.20	14350523.54	39°31'4.2018"N	80°49'50.8408"W	466.39	276.466	0.88	-0.20	4.31	
3124.00	10.170	280.920	3076.50	-208.50	55.36	-480.81	1688119.83	14350526.38	39°31'4.2302"N	80°49'51.0625"W	483.98	276.569	1.48	-1.35	3.26	
3221.00	10.030	277.910	3172.00	-216.58	58.15	-497.58	1688103.06	14350529.17	39°31'4.2580"N	80°49'51.2765"W	500.97	276.666	0.56	-0.14	-3.10	
3316.00	10.040	269.580	3265.55	-222.95	59.23	-514.06	1688086.59	14350530.24	39°31'4.2690"N	80°49'51.4867"W	517.46	276.572	1.53	0.01	-8.77	
3410.00	10.170	273.460	3358.09	-228.72	59.67	-530.54	1688070.12	14350530.68	39°31'4.2737"N	80°49'51.6970"W	533.88	276.417	0.74	0.14	4.13	
3505.00	9.440	282.900	3451.71	-236.03	61.91	-546.50	1688054.16	14350532.93	39°31'4.2962"N	80°49'51.9007"W	550.00	276.464	1.86	-0.77	9.94	
3600.00	9.590	291.220	3545.41	-245.25	66.52	-561.47	1688039.19	14350537.53	39°31'4.3419"N	80°49'52.0916"W	565.40	276.756	1.46	0.16	8.76	
3695.00	10.020	289.680	3639.02	-255.51	72.17	-576.63	1688024.04	14350543.18	39°31'4.3980"N	80°49'52.2849"W	581.13	277.133	0.53	0.45	-1.62	
3790.00	10.260	283.160	3732.54	-265.17	76.87	-592.65	1688008.02	14350547.88	39°31'4.4449"N	80°49'52.4892"W	597.62	277.391	1.23	0.25	-6.86	
3884.00	10.000	272.770	3825.08	-272.64	79.18	-608.96	1687991.73	14350550.18	39°31'4.4679"N	80°49'52.6972"W	614.08	277.408	1.96	-0.28	-11.05	
3979.00	9.490	274.350	3918.71	-278.79	80.17	-625.01	1687975.68	14350551.18	39°31'4.4780"N	80°49'52.9019"W	630.13	277.309	0.61	-0.54	1.66	
4073.00	8.590	280.410	4011.54	-285.30	82.02	-639.64	1687961.06	14350553.03	39°31'4.4966"N	80°49'53.0886"W	644.88	277.307	1.39	-0.96	6.45	
4168.00	8.820	276.910	4105.45	-291.95	84.18	-653.85	1687946.85	14350555.19	39°31'4.5182"N	80°49'53.2698"W	659.24	277.336	0.61	0.24	-3.68	
4263.00	8.460	278.610	4199.37	-298.36	86.10	-667.99	1687932.72	14350557.11	39°31'4.5375"N	80°49'53.4502"W	673.51	277.345	0.46	-0.38	1.79	
4358.00	8.220	282.940	4293.37	-305.18	88.67	-681.51	1687919.20	14350559.68	39°31'4.5631"N	80°49'53.6228"W	687.26	277.413	0.71	-0.25	4.56	
4452.00	7.520	279.330	4386.48	-311.65	91.17	-694.13	1687906.58	14350562.18	39°31'4.5881"N	80°49'53.7837"W	700.10	277.483	0.91	-0.74	-3.84	
4547.00	8.030	279.060	4480.61	-317.71	93.23	-706.82	1687893.90	14350564.23	39°31'4.6086"N	80°49'53.9456"W	712.94	277.514	0.54	0.54	-0.28	
4641.00	8.640	282.130	4573.62	-324.44	95.74	-720.21	1687880.52	14350566.75	39°31'4.6337"N	80°49'54.1163"W	726.54	277.572	0.80	0.65	3.27	
4736.00	9.350	279.830	4667.45	-331.84	98.56	-734.79	1687865.95	14350569.56	39°31'4.6618"N	80°49'54.3023"W	741.37	277.640	0.84	0.75	-2.42	
4831.00	9.640	278.990	4761.15	-339.28	101.12	-750.25	1687850.49	14350572.12	39°31'4.6874"N	80°49'54.4995"W	757.03	277.676	0.34	0.31	-0.88	
4926.00	9.130	277.010	4854.87	-346.30	103.28	-765.59	1687835.16	14350574.28	39°31'4.7091"N	80°49'54.6952"W	772.52	277.683	0.64	-0.54	-2.08	
5020.00	8.730	273.800	4947.73	-352.33	104.67	-780.11	1687820.65	14350575.67	39°31'4.7230"N	80°49'54.8804"W	787.10	277.642	0.68	-0.43	-3.41	
5115.00	8.790	274.150	5041.63	-357.96	105.67	-794.54	1687806.22	14350576.67	39°31'4.7332"N	80°49'55.0648"W	801.53	277.576	0.08	0.06	0.37	
5210.00	9.920	278.180	5135.36	-364.54	107.36	-809.88	1687790.89	14350578.36	39°31'4.7502"N	80°49'55.2603"W	816.96	277.551	1.37	1.19	4.24	
5306.00	10.720	283.500	5229.81	-373.11	110.62	-826.75	1687774.02	14350581.62	39°31'4.7827"N	80°49'55.4754"W	834.11	277.621	1.30	0.83	5.54	
5401.00	10.680	278.150	5323.16	-381.86	113.93	-844.05	1687756.73	14350584.93	39°31'4.8158"N	80°49'55.6962"W	851.71	277.687	1.05	-0.04	-5.63	

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Slot	Slot #07			

WELLPATH DATA (248 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)	
5495.00	10.380	271.190	5415.58	-388.74	115.34	-861.14	1687739.64	14350586.34	39°31'4.8300"N	80°49'55.9142"W	868.83	277.629	1.39	-0.32	-7.40	
5590.00	9.820	276.340	5509.11	-395.15	116.41	-877.75	1687723.04	14350587.41	39°31'4.8409"N	80°49'56.1261"W	885.44	277.555	1.12	-0.59	5.42	
5685.00	9.860	285.710	5602.72	-403.24	119.51	-893.63	1687707.16	14350590.50	39°31'4.8718"N	80°49'56.3287"W	901.59	277.617	1.68	0.04	9.86	
5778.00	9.070	294.280	5694.46	-412.79	124.88	-907.98	1687692.82	14350595.67	39°31'4.9232"N	80°49'56.5116"W	916.50	277.819	1.73	-0.85	9.22	
5817.00	7.440	295.880	5733.05	-416.66	127.04	-913.06	1687687.75	14350598.03	39°31'4.9466"N	80°49'56.5764"W	921.85	277.921	4.21	-4.18	3.59	BH AT Curve <8-1/2"> (5778')(5817'-22298')
5888.00	9.840	284.700	5803.25	-423.26	130.57	-923.07	1687677.74	14350601.56	39°31'4.9817"N	80°49'56.7041"W	932.26	278.051	4.09	3.38	-15.46	
5983.00	9.830	251.960	5896.92	-427.89	130.12	-938.65	1687662.17	14350601.11	39°31'4.9775"N	80°49'56.9028"W	947.62	277.892	5.81	-0.01	-34.46	
6077.00	13.490	223.270	5989.04	-422.90	119.64	-953.81	1687647.01	14350590.63	39°31'4.8742"N	80°49'57.0965"W	961.28	277.150	7.18	3.89	-30.52	
6172.00	17.880	199.530	6080.62	-406.42	97.95	-966.24	1687634.58	14350568.95	39°31'4.6600"N	80°49'57.2557"W	971.20	275.788	7.95	4.41	-24.99	
6266.00	23.860	190.700	6168.49	-378.69	65.77	-974.56	1687626.27	14350536.79	39°31'4.3422"N	80°49'57.3625"W	976.77	273.861	7.35	6.57	-9.39	
6361.00	31.030	183.920	6252.76	-339.37	22.40	-979.81	1687621.03	14350493.43	39°31'3.9136"N	80°49'57.4306"W	980.06	271.310	8.22	7.55	-7.14	
6422.00†	35.222	181.963	6303.84	-308.44	-10.88	-981.48	1687619.35	14350460.16	39°31'3.5847"N	80°49'57.4528"W	981.54	269.365	7.09	6.87	-3.21	Sycamore: 6422' MD
6456.00	37.570	181.040	6331.21	-289.53	-31.05	-982.01	1687618.82	14350440.00	39°31'3.3854"N	80°49'57.4599"W	982.50	268.189	7.09	6.91	-2.71	
6550.00	44.130	182.060	6402.27	-231.99	-92.47	-983.71	1687617.13	14350378.60	39°31'2.7784"N	80°49'57.4830"W	988.04	264.630	7.01	6.98	1.09	
6553.00†	44.395	182.048	6404.42	-230.03	-94.57	-983.78	1687617.05	14350376.51	39°31'2.7577"N	80°49'57.4841"W	988.32	264.509	8.84	8.83	-0.38	Middlesex: 6553' MD
6645.00	52.520	181.740	6465.38	-165.73	-163.33	-986.04	1687614.79	14350307.77	39°31'2.0781"N	80°49'57.5146"W	999.48	260.595	8.84	8.83	-0.34	
6710.00†	58.911	178.880	6501.98	-115.05	-217.00	-986.28	1687614.55	14350254.13	39°31'1.5477"N	80°49'57.5189"W	1009.87	257.592	10.48	9.83	-4.40	Burkett: 6710' MD
6740.00	61.880	177.690	6516.80	-90.14	-243.07	-985.50	1687615.34	14350228.07	39°31'1.2900"N	80°49'57.5095"W	1015.03	256.145	10.48	9.90	-3.97	
6770.00†	64.515	176.979	6530.33	-64.44	-269.81	-984.25	1687616.58	14350201.33	39°31'1.0257"N	80°49'57.4942"W	1020.56	254.670	9.04	8.78	-2.37	Tully: 6770' MD
6787.00	66.010	176.590	6537.44	-49.58	-285.23	-983.38	1687617.45	14350185.93	39°31'0.8733"N	80°49'57.4835"W	1023.91	253.825	9.04	8.79	-2.29	
6835.00	69.140	175.960	6555.75	-6.77	-329.50	-980.50	1687620.33	14350141.67	39°31'0.4357"N	80°49'57.4478"W	1034.38	251.425	6.63	6.52	-1.31	
6882.00	72.280	175.450	6571.27	36.14	-373.73	-977.18	1687623.65	14350097.46	39°30'59.9985"N	80°49'57.4064"W	1046.21	249.070	6.76	6.68	-1.09	
6929.00	76.650	175.990	6583.86	79.94	-418.88	-973.80	1687627.03	14350052.33	39°30'59.5523"N	80°49'57.3644"W	1060.07	246.725	9.36	9.30	1.15	
6949.00†	77.637	175.420	6588.31	98.80	-438.32	-972.34	1687628.49	14350032.90	39°30'59.3601"N	80°49'57.3462"W	1066.57	245.735	5.66	4.94	-2.85	Marcellus POE: 6949' MD
7024.00	81.350	173.320	6601.98	170.55	-511.69	-965.10	1687635.73	14349959.56	39°30'58.6348"N	80°49'57.2566"W	1092.36	242.068	5.66	4.95	-2.80	
7119.00	86.920	170.620	6611.69	263.29	-605.22	-951.89	1687648.93	14349866.07	39°30'57.7102"N	80°49'57.0893"W	1128.00	237.552	6.51	5.86	-2.84	
7214.00	89.910	166.560	6614.32	357.41	-698.27	-933.11	1687667.70	14349773.05	39°30'56.7901"N	80°49'56.8518"W	1165.45	233.191	5.31	3.15	-4.27	
7308.00	89.320	162.210	6614.95	451.22	-788.78	-907.82	1687692.99	14349682.58	39°30'55.8952"N	80°49'56.5312"W	1202.62	229.013	4.67	-0.63	-4.63	
7403.00	89.140	158.720	6616.23	546.19	-878.29	-876.06	1687724.73	14349593.10	39°30'55.0099"N	80°49'56.1281"W	1240.51	224.927	3.68	-0.19	-3.67	
7498.00	89.350	162.750	6617.48	641.17	-967.94	-844.72	1687756.06	14349503.48	39°30'54.1233"N	80°49'55.7304"W	1284.71	221.111	4.25	0.22	4.24	

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# Actual Wellpath Report

Parr Unit 1H AWP Proj: 22323'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Parr Unit 1H
Field	Tyler	API	47-095-02746-0000
Facility	Margery Pad	Wellbore	Parr Unit 1H AWB
Slot	Slot #07		

WELLPATH DATA (248 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
7593.00	89.570	163.350	6618.38	736.10	-1058.81	-817.03	1687783.74	14349412.65	39°30'53.2247"N	80°49'55.3792"W	1337.39	217.655	0.67	0.23	0.63	
7687.00	89.350	162.270	6619.26	830.05	-1148.61	-789.25	1687811.51	14349322.89	39°30'52.3367"N	80°49'55.0269"W	1393.63	214.494	1.17	-0.23	-1.15	
7782.00	89.450	161.220	6620.26	925.04	-1238.82	-759.49	1687841.25	14349232.71	39°30'51.4445"N	80°49'54.6494"W	1453.10	211.511	1.11	0.11	-1.11	
7876.00	89.480	161.590	6621.13	1019.03	-1327.91	-729.52	1687871.21	14349143.66	39°30'50.5635"N	80°49'54.2691"W	1515.10	208.783	0.39	0.03	0.39	
7970.00	89.110	161.510	6622.29	1113.02	-1417.07	-699.77	1687900.95	14349054.54	39°30'49.6817"N	80°49'53.8917"W	1580.43	206.281	0.40	-0.39	-0.09	
8065.00	89.570	161.590	6623.38	1208.01	-1507.18	-669.71	1687931.00	14348964.46	39°30'48.7906"N	80°49'53.5102"W	1649.27	203.958	0.49	0.48	0.08	
8160.00	89.690	161.180	6624.00	1303.01	-1597.21	-639.38	1687961.31	14348874.47	39°30'47.9002"N	80°49'53.1255"W	1720.43	201.817	0.45	0.13	-0.43	
8254.00	89.750	161.660	6624.46	1397.00	-1686.31	-609.43	1687991.25	14348785.41	39°30'47.0191"N	80°49'52.7455"W	1793.05	199.870	0.51	0.06	0.51	
8349.00	89.720	161.000	6624.90	1492.00	-1776.31	-579.02	1688021.65	14348695.44	39°30'46.1290"N	80°49'52.3596"W	1868.30	198.054	0.70	-0.03	-0.69	
8443.00	89.720	161.020	6625.36	1586.00	-1865.19	-548.44	1688052.22	14348606.59	39°30'45.2500"N	80°49'51.9715"W	1944.15	196.385	0.02	0.00	0.02	
8538.00	89.660	161.130	6625.87	1681.00	-1955.05	-517.62	1688083.02	14348516.77	39°30'44.3613"N	80°49'51.5805"W	2022.42	194.830	0.13	-0.06	0.12	
8633.00	89.690	161.310	6626.41	1776.00	-2044.99	-487.04	1688113.59	14348426.86	39°30'43.4718"N	80°49'51.1924"W	2102.19	193.396	0.19	0.03	0.19	
8728.00	89.570	160.600	6627.02	1870.99	-2134.79	-456.04	1688144.58	14348337.10	39°30'42.5837"N	80°49'50.7991"W	2182.96	192.059	0.76	-0.13	-0.75	
8822.00	89.780	162.110	6627.56	1964.99	-2223.86	-425.99	1688174.62	14348248.07	39°30'41.7029"N	80°49'50.4178"W	2264.29	190.844	1.62	0.22	1.61	
8917.00	90.120	161.070	6627.64	2059.98	-2313.99	-395.99	1688204.61	14348157.97	39°30'40.8115"N	80°49'50.0372"W	2347.63	189.711	1.15	0.36	-1.09	
9012.00	89.660	161.190	6627.82	2154.98	-2403.89	-365.27	1688235.32	14348068.11	39°30'39.9225"N	80°49'49.6473"W	2431.48	188.640	0.50	-0.48	0.13	
9107.00	89.110	160.510	6628.84	2249.98	-2493.62	-334.10	1688266.47	14347978.41	39°30'39.0350"N	80°49'49.2519"W	2515.90	187.631	0.92	-0.58	-0.72	
9201.00	89.420	161.330	6630.05	2343.97	-2582.45	-303.38	1688297.18	14347889.62	39°30'38.1565"N	80°49'48.8620"W	2600.21	186.700	0.93	0.33	0.87	
9296.00	89.260	161.220	6631.14	2438.96	-2672.42	-272.88	1688327.67	14347799.69	39°30'37.2668"N	80°49'48.4751"W	2686.31	185.830	0.20	-0.17	-0.12	
9391.00	89.020	160.640	6632.57	2533.95	-2762.19	-241.85	1688358.69	14347709.95	39°30'36.3790"N	80°49'48.0813"W	2772.76	185.004	0.66	-0.25	-0.61	
9486.00	89.110	160.520	6634.12	2628.93	-2851.77	-210.27	1688390.26	14347620.40	39°30'35.4930"N	80°49'47.6805"W	2859.52	184.217	0.16	0.09	-0.13	
9580.00	89.200	161.320	6635.50	2722.92	-2940.60	-179.54	1688420.97	14347531.61	39°30'34.6145"N	80°49'47.2907"W	2946.08	183.494	0.86	0.10	0.85	
9675.00	89.290	160.610	6636.76	2817.91	-3030.40	-148.56	1688451.94	14347441.85	39°30'33.7264"N	80°49'46.8976"W	3034.04	182.807	0.75	0.09	-0.75	
9769.00	89.290	161.400	6637.92	2911.90	-3119.27	-117.97	1688482.52	14347353.01	39°30'32.8475"N	80°49'46.5094"W	3121.50	182.166	0.84	0.00	0.84	
9864.00	89.320	161.430	6639.07	3006.90	-3209.31	-87.69	1688512.78	14347263.01	39°30'31.9571"N	80°49'46.1253"W	3210.51	181.565	0.04	0.03	0.03	
9959.00	89.380	161.250	6640.15	3101.89	-3299.31	-57.30	1688543.16	14347173.05	39°30'31.0670"N	80°49'45.7397"W	3299.81	180.995	0.20	0.06	-0.19	
10053.00	89.570	161.030	6641.01	3195.88	-3388.26	-26.91	1688573.54	14347084.13	39°30'30.1873"N	80°49'45.3542"W	3388.37	180.455	0.31	0.20	-0.23	
10147.00	89.320	160.800	6641.92	3289.88	-3477.09	3.82	1688604.26	14346995.34	39°30'29.3088"N	80°49'44.9642"W	3477.09	179.937	0.36	-0.27	-0.24	
10242.00	89.320	161.130	6643.05	3384.87	-3566.89	34.80	1688635.23	14346905.58	39°30'28.4207"N	80°49'44.5711"W	3567.06	179.441	0.35	0.00	0.35	
10337.00	89.260	160.760	6644.23	3479.86	-3656.68	65.81	1688666.23	14346815.82	39°30'27.5327"N	80°49'44.1777"W	3657.27	178.969	0.39	-0.06	-0.39	

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# Actual Wellpath Report

Parr Unit 1H AWP Proj: 22323'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Parr Unit 1H
Field	Tyler		API	47-095-02746-0000
Facility	Margery Pad		Wellbore	Parr Unit 1H AWB
Slot	Slot #07			

WELLPATH DATA (248 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
10431.00	89.350	160.730	6645.37	3573.86	-3745.41	96.81	1688697.21	14346727.12	39°30'26.6551"N	80°49'43.7844"W	3746.66	178.519	0.10	0.10	-0.03	
10525.00	89.320	160.830	6646.46	3667.85	-3834.17	127.75	1688728.14	14346638.41	39°30'25.7774"N	80°49'43.3917"W	3836.29	178.092	0.11	-0.03	0.11	
10620.00	89.540	161.130	6647.40	3762.84	-3923.97	158.71	1688759.09	14346548.63	39°30'24.8892"N	80°49'42.9989"W	3927.18	177.684	0.39	0.23	0.32	
10715.00	89.780	160.820	6647.97	3857.84	-4013.78	189.68	1688790.04	14346458.86	39°30'24.0010"N	80°49'42.6060"W	4018.26	177.294	0.41	0.25	-0.33	
10809.00	89.480	161.260	6648.57	3951.84	-4102.68	220.22	1688820.57	14346370.00	39°30'23.1218"N	80°49'42.2186"W	4108.59	176.927	0.57	-0.32	0.47	
10904.00	89.660	160.900	6649.29	4046.84	-4192.55	251.02	1688851.36	14346280.17	39°30'22.2331"N	80°49'41.8278"W	4200.05	176.574	0.42	0.19	-0.38	
10998.00	89.630	160.990	6649.87	4140.84	-4281.39	281.71	1688882.04	14346191.36	39°30'21.3544"N	80°49'41.4384"W	4290.65	176.235	0.10	-0.03	0.10	
11093.00	89.720	161.560	6650.41	4235.83	-4371.36	312.21	1688912.52	14346101.42	39°30'20.4646"N	80°49'41.0515"W	4382.50	175.915	0.61	0.09	0.60	
11188.00	89.660	161.100	6650.92	4330.83	-4461.36	342.62	1688942.92	14346011.46	39°30'19.5745"N	80°49'40.6658"W	4474.50	175.608	0.49	-0.06	-0.48	
11283.00	89.510	160.620	6651.61	4425.83	-4551.11	373.76	1688974.06	14345921.75	39°30'18.6869"N	80°49'40.2706"W	4566.43	175.305	0.53	-0.16	-0.51	
11378.00	89.630	160.930	6652.32	4520.82	-4640.81	405.05	1689005.32	14345832.09	39°30'17.7998"N	80°49'39.8737"W	4658.45	175.012	0.35	0.13	0.33	
11472.00	89.660	160.960	6652.91	4614.82	-4729.66	435.73	1689036.00	14345743.27	39°30'16.9211"N	80°49'39.4844"W	4749.68	174.736	0.05	0.03	0.03	
11567.00	89.630	160.770	6653.49	4709.82	-4819.40	466.87	1689067.13	14345653.56	39°30'16.0335"N	80°49'39.0893"W	4841.97	174.467	0.20	-0.03	-0.20	
11661.00	89.720	161.420	6654.03	4803.82	-4908.33	497.33	1689097.57	14345564.67	39°30'15.1540"N	80°49'38.7029"W	4933.46	174.214	0.70	0.10	0.69	
11756.00	89.750	161.340	6654.47	4898.81	-4998.36	527.66	1689127.89	14345474.68	39°30'14.2637"N	80°49'38.3182"W	5026.13	173.974	0.09	0.03	-0.08	
11850.00	89.780	161.320	6654.85	4992.81	-5087.41	557.75	1689157.97	14345385.66	39°30'13.3830"N	80°49'37.9365"W	5117.89	173.743	0.04	0.03	-0.02	
11944.00	89.660	161.940	6655.31	5086.81	-5176.62	587.38	1689187.58	14345296.49	39°30'12.5008"N	80°49'37.5607"W	5209.84	173.527	0.67	-0.13	0.66	
12039.00	89.750	161.610	6655.80	5181.80	-5266.85	617.09	1689217.28	14345206.29	39°30'11.6084"N	80°49'37.1839"W	5302.88	173.317	0.36	0.09	-0.35	
12133.00	89.540	160.750	6656.38	5275.79	-5355.82	647.41	1689247.59	14345117.35	39°30'10.7285"N	80°49'36.7992"W	5394.81	173.108	0.94	-0.22	-0.91	
12227.00	89.630	160.680	6657.06	5369.79	-5444.55	678.45	1689278.62	14345028.67	39°30'9.8510"N	80°49'36.4054"W	5486.66	172.897	0.12	0.10	-0.07	
12322.00	89.880	161.630	6657.47	5464.79	-5534.45	709.14	1689309.30	14344938.80	39°30'8.9619"N	80°49'36.0161"W	5579.70	172.698	1.03	0.26	1.00	
12416.00	89.450	161.270	6658.02	5558.78	-5623.57	739.04	1689339.19	14344849.72	39°30'8.0805"N	80°49'35.6368"W	5671.92	172.513	0.60	-0.46	-0.38	
12511.00	89.600	160.770	6658.81	5653.78	-5713.40	769.94	1689370.07	14344759.92	39°30'7.1921"N	80°49'35.2449"W	5765.04	172.325	0.55	0.16	-0.53	
12605.00	89.140	160.910	6659.84	5747.77	-5802.19	800.79	1689400.91	14344671.17	39°30'6.3140"N	80°49'34.8535"W	5857.19	172.142	0.51	-0.49	0.15	
12699.00	88.650	161.110	6661.65	5841.75	-5891.05	831.37	1689431.48	14344582.34	39°30'5.4351"N	80°49'34.4656"W	5949.43	171.967	0.56	-0.52	0.21	
12794.00	89.420	161.140	6663.25	5936.74	-5980.93	862.10	1689462.19	14344492.50	39°30'4.5462"N	80°49'34.0758"W	6042.75	171.798	0.81	0.81	0.03	
12888.00	89.600	161.570	6664.06	6030.74	-6070.00	892.15	1689492.23	14344403.47	39°30'3.6654"N	80°49'33.6946"W	6135.21	171.639	0.50	0.19	0.46	
12983.00	89.420	161.380	6664.87	6125.73	-6160.07	922.33	1689522.40	14344313.43	39°30'2.7746"N	80°49'33.3118"W	6228.74	171.485	0.28	-0.19	-0.20	
13077.00	88.980	161.350	6666.18	6219.72	-6249.13	952.37	1689552.43	14344224.40	39°30'1.8938"N	80°49'32.9309"W	6321.29	171.335	0.47	-0.47	-0.03	
13172.00	89.230	160.640	6667.67	6314.71	-6338.94	983.30	1689583.35	14344134.63	39°30'1.0056"N	80°49'32.5385"W	6414.75	171.183	0.79	0.26	-0.75	

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# Actual Wellpath Report

Parr Unit 1H AWP Proj: 22323'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Parr Unit 1H
Field	Tyler	API	47-095-02746-0000
Facility	Margery Pad	Wellbore	Parr Unit 1H AWB
Slot	Slot #07		

WELLPATH DATA (248 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
13266.00	89.260	161.040	6668.91	6408.70	-6427.73	1014.15	1689614.18	14344045.88	39°30'0.1275"N	80°49'32.1472"W	6507.24	171.034	0.43	0.03	0.43	
13361.00	89.420	160.830	6670.00	6503.69	-6517.51	1045.18	1689645.20	14343956.13	39°29'59.2396"N	80°49'31.7535"W	6600.78	170.889	0.28	0.17	-0.22	
13455.00	89.290	160.410	6671.06	6597.68	-6606.18	1076.37	1689676.38	14343867.50	39°29'58.3626"N	80°49'31.3579"W	6693.29	170.746	0.47	-0.14	-0.45	
13550.00	89.320	161.070	6672.21	6692.67	-6695.85	1107.70	1689707.70	14343777.86	39°29'57.4757"N	80°49'30.9604"W	6786.86	170.607	0.70	0.03	0.69	
13644.00	89.380	161.100	6673.28	6786.67	-6784.77	1138.17	1689738.16	14343688.98	39°29'56.5963"N	80°49'30.5739"W	6879.58	170.477	0.07	0.06	0.03	
13739.00	89.540	161.070	6674.17	6881.66	-6874.64	1168.96	1689768.94	14343599.15	39°29'55.7076"N	80°49'30.1833"W	6973.32	170.350	0.17	0.17	-0.03	
13833.00	90.060	160.720	6674.50	6975.66	-6963.46	1199.73	1689799.69	14343510.36	39°29'54.8291"N	80°49'29.7930"W	7066.06	170.225	0.67	0.55	-0.37	
13927.00	90.000	160.750	6674.45	7069.66	-7052.20	1230.74	1689830.69	14343421.66	39°29'53.9515"N	80°49'29.3996"W	7158.79	170.100	0.07	-0.06	0.03	
14022.00	89.880	160.870	6674.55	7164.66	-7141.92	1261.97	1689861.91	14343331.97	39°29'53.0642"N	80°49'29.0035"W	7252.56	169.979	0.18	-0.13	0.13	
14117.00	89.940	160.740	6674.70	7259.66	-7231.64	1293.21	1689893.13	14343242.29	39°29'52.1768"N	80°49'28.6073"W	7346.36	169.861	0.15	0.06	-0.14	
14211.00	89.850	160.540	6674.87	7353.66	-7320.32	1324.37	1689924.28	14343153.64	39°29'51.2997"N	80°49'28.2120"W	7439.16	169.745	0.23	-0.10	-0.21	
14305.00	89.970	161.010	6675.02	7447.65	-7409.08	1355.32	1689955.22	14343064.92	39°29'50.4219"N	80°49'27.8193"W	7532.02	169.634	0.52	0.13	0.50	
14400.00	89.820	161.690	6675.19	7542.65	-7499.09	1385.70	1689985.58	14342974.95	39°29'49.5317"N	80°49'27.4340"W	7626.04	169.531	0.73	-0.16	0.72	
14494.00	90.000	161.390	6675.34	7636.65	-7588.25	1415.46	1690015.34	14342885.82	39°29'48.6499"N	80°49'27.0566"W	7719.14	169.434	0.37	0.19	-0.32	
14589.00	90.120	160.780	6675.24	7731.65	-7678.12	1446.27	1690046.14	14342795.99	39°29'47.7612"N	80°49'26.6658"W	7813.14	169.333	0.68	0.13	-0.66	
14684.00	90.150	161.360	6675.02	7826.65	-7767.97	1477.11	1690076.96	14342706.17	39°29'46.8725"N	80°49'26.2747"W	7907.16	169.234	0.63	0.03	0.63	
14778.00	90.030	162.010	6674.87	7920.64	-7857.21	1506.65	1690106.48	14342616.97	39°29'45.9900"N	80°49'25.9001"W	8000.36	169.145	0.70	-0.13	0.69	
14872.00	90.030	161.710	6674.82	8014.63	-7946.54	1535.91	1690135.74	14342527.68	39°29'45.1065"N	80°49'25.5290"W	8093.61	169.061	0.32	0.00	-0.32	
14967.00	90.030	161.090	6674.77	8109.63	-8036.58	1566.21	1690166.03	14342437.67	39°29'44.2161"N	80°49'25.1448"W	8187.77	168.972	0.65	0.00	-0.65	
15061.00	89.910	161.580	6674.82	8203.63	-8125.63	1596.30	1690196.10	14342348.65	39°29'43.3353"N	80°49'24.7633"W	8280.94	168.886	0.54	-0.13	0.52	
15156.00	89.910	160.650	6674.97	8298.63	-8215.52	1627.04	1690226.83	14342258.80	39°29'42.4464"N	80°49'24.3733"W	8375.08	168.798	0.98	0.00	-0.98	
15250.00	90.060	160.980	6674.99	8392.62	-8304.30	1657.93	1690257.71	14342170.06	39°29'41.5683"N	80°49'23.9815"W	8468.18	168.709	0.39	0.16	0.35	
15345.00	89.850	161.070	6675.07	8487.62	-8394.13	1688.82	1690288.59	14342080.26	39°29'40.6798"N	80°49'23.5897"W	8562.34	168.624	0.24	-0.22	0.09	
15439.00	89.970	160.970	6675.22	8581.62	-8483.02	1719.40	1690319.15	14341991.41	39°29'39.8007"N	80°49'23.2020"W	8655.52	168.542	0.17	0.13	-0.11	
15534.00	89.970	160.770	6675.27	8676.62	-8572.78	1750.53	1690350.27	14341901.69	39°29'38.9131"N	80°49'22.8071"W	8749.68	168.459	0.21	0.00	-0.21	
15628.00	90.000	160.610	6675.29	8770.62	-8661.49	1781.61	1690381.34	14341813.01	39°29'38.0357"N	80°49'22.4128"W	8842.82	168.377	0.17	0.03	-0.17	
15723.00	89.910	160.210	6675.37	8865.62	-8750.99	1813.47	1690413.18	14341723.55	39°29'37.1505"N	80°49'22.0088"W	8936.92	168.292	0.43	-0.09	-0.42	
15817.00	89.940	160.970	6675.49	8959.61	-8839.65	1844.70	1690444.41	14341634.92	39°29'36.2737"N	80°49'21.6125"W	9030.08	168.212	0.81	0.03	0.81	
15912.00	89.940	160.350	6675.59	9054.61	-8929.28	1876.17	1690475.86	14341545.32	39°29'35.3871"N	80°49'21.2135"W	9124.26	168.134	0.65	0.00	-0.65	
16007.00	90.370	160.870	6675.33	9149.61	-9018.90	1907.70	1690507.38	14341455.75	39°29'34.5008"N	80°49'20.8134"W	9218.45	168.057	0.71	0.45	0.55	

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# Actual Wellpath Report

Parr Unit 1H AWP Proj: 22323'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Parr Unit 1H
Field	Tyler		API	47-095-02746-0000
Facility	Margery Pad		Wellbore	Parr Unit 1H AWB
Slot	Slot #07			

WELLPATH DATA (248 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
16101.00	90.710	161.150	6674.44	9243.60	-9107.78	1938.29	1690537.96	14341366.90	39°29'33.6218"N	80°49'20.4255"W	9311.74	167.986	0.47	0.36	0.30	
16196.00	90.090	160.990	6673.78	9338.60	-9197.63	1969.11	1690568.76	14341277.08	39°29'32.7331"N	80°49'20.0347"W	9406.06	167.916	0.67	-0.65	-0.17	
16290.00	90.280	161.340	6673.48	9432.60	-9286.60	1999.46	1690599.10	14341188.15	39°29'31.8532"N	80°49'19.6498"W	9499.41	167.849	0.42	0.20	0.37	
16385.00	90.400	160.950	6672.91	9527.60	-9376.50	2030.16	1690629.79	14341098.28	39°29'30.9641"N	80°49'19.2605"W	9593.76	167.783	0.43	0.13	-0.41	
16480.00	90.620	161.300	6672.07	9622.59	-9466.39	2060.89	1690660.51	14341008.43	39°29'30.0751"N	80°49'18.8708"W	9688.13	167.718	0.44	0.23	0.37	
16574.00	90.280	160.820	6671.33	9716.59	-9555.30	2091.40	1690691.00	14340919.56	39°29'29.1958"N	80°49'18.4839"W	9781.49	167.654	0.63	-0.36	-0.51	
16668.00	90.460	160.980	6670.72	9810.59	-9644.12	2122.16	1690721.75	14340830.77	39°29'28.3174"N	80°49'18.0938"W	9874.85	167.590	0.26	0.19	0.17	
16763.00	90.310	161.240	6670.09	9905.58	-9734.00	2152.91	1690752.49	14340740.93	39°29'27.4284"N	80°49'17.7038"W	9969.24	167.528	0.32	-0.16	0.27	
16858.00	90.220	161.150	6669.65	10000.58	-9823.93	2183.53	1690783.10	14340651.03	39°29'26.5390"N	80°49'17.3155"W	10063.67	167.469	0.13	-0.09	-0.09	
16953.00	90.000	160.980	6669.46	10095.58	-9913.79	2214.36	1690813.92	14340561.21	39°29'25.6503"N	80°49'16.9245"W	10158.08	167.409	0.29	-0.23	-0.18	
17047.00	90.150	161.240	6669.34	10189.58	-10002.73	2244.79	1690844.34	14340472.31	39°29'24.7707"N	80°49'16.5386"W	10251.52	167.351	0.32	0.16	0.28	
17142.00	90.310	161.320	6668.96	10284.58	-10092.70	2275.28	1690874.82	14340382.37	39°29'23.8809"N	80°49'16.1520"W	10345.99	167.296	0.19	0.17	0.08	
17236.00	90.090	160.400	6668.63	10378.58	-10181.50	2306.10	1690905.62	14340293.61	39°29'23.0026"N	80°49'15.7611"W	10439.40	167.238	1.01	-0.23	-0.98	
17331.00	90.220	160.870	6668.37	10473.57	-10271.13	2337.60	1690937.11	14340204.02	39°29'22.1162"N	80°49'15.3616"W	10533.77	167.178	0.51	0.14	0.49	
17425.00	90.280	160.840	6667.96	10567.57	-10359.93	2368.43	1690967.93	14340115.25	39°29'21.2380"N	80°49'14.9707"W	10627.21	167.123	0.07	0.06	-0.03	
17520.00	90.280	161.430	6667.50	10662.57	-10449.82	2399.15	1690998.63	14340025.39	39°29'20.3489"N	80°49'14.5812"W	10721.69	167.070	0.62	0.00	0.62	
17614.00	90.150	161.120	6667.15	10756.57	-10538.85	2429.32	1691028.79	14339936.40	39°29'19.4684"N	80°49'14.1986"W	10815.21	167.019	0.36	-0.14	-0.33	
17708.00	90.090	160.900	6666.95	10850.57	-10627.73	2459.91	1691059.37	14339847.56	39°29'18.5894"N	80°49'13.8107"W	10908.70	166.968	0.24	-0.06	-0.23	
17802.00	90.150	161.120	6666.75	10944.57	-10716.61	2490.50	1691089.95	14339758.71	39°29'17.7103"N	80°49'13.4228"W	11002.20	166.917	0.24	0.06	0.23	
17897.00	90.150	160.620	6666.50	11039.57	-10806.37	2521.63	1691121.07	14339668.99	39°29'16.8226"N	80°49'13.0280"W	11096.67	166.865	0.53	0.00	-0.53	
17991.00	90.150	160.720	6666.26	11133.57	-10895.07	2552.75	1691152.17	14339580.32	39°29'15.9453"N	80°49'12.6334"W	11190.13	166.813	0.11	0.00	0.11	
18086.00	90.490	160.780	6665.73	11228.56	-10984.75	2584.07	1691183.48	14339490.67	39°29'15.0583"N	80°49'12.2362"W	11284.60	166.762	0.36	0.36	0.06	
18181.00	90.060	160.740	6665.27	11323.56	-11074.45	2615.37	1691214.77	14339401.02	39°29'14.1712"N	80°49'11.8392"W	11379.08	166.712	0.45	-0.45	-0.04	
18275.00	90.090	160.860	6665.15	11417.56	-11163.22	2646.29	1691245.67	14339312.28	39°29'13.2933"N	80°49'11.4472"W	11472.59	166.664	0.13	0.03	0.13	
18370.00	90.180	161.370	6664.92	11512.56	-11253.10	2677.03	1691276.41	14339222.43	39°29'12.4043"N	80°49'11.0573"W	11567.14	166.618	0.55	0.09	0.54	
18464.00	90.150	160.550	6664.65	11606.56	-11341.96	2707.70	1691307.06	14339133.61	39°29'11.5255"N	80°49'10.6685"W	11660.69	166.573	0.87	-0.03	-0.87	
18558.00	90.220	160.750	6664.35	11700.55	-11430.65	2738.84	1691338.19	14339044.96	39°29'10.6483"N	80°49'10.2735"W	11754.19	166.526	0.23	0.07	0.21	
18653.00	90.250	160.920	6663.96	11795.55	-11520.38	2770.03	1691369.37	14338955.26	39°29'9.7608"N	80°49'9.8780"W	11848.73	166.480	0.18	0.03	0.18	
18747.00	90.430	161.220	6663.40	11889.55	-11609.30	2800.53	1691399.85	14338866.38	39°29'8.8814"N	80°49'9.4914"W	11942.31	166.438	0.37	0.19	0.32	
18841.00	90.150	161.380	6662.93	11983.55	-11698.33	2830.66	1691429.97	14338777.38	39°29'8.0009"N	80°49'9.1093"W	12035.93	166.398	0.34	-0.30	0.17	

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# Actual Wellpath Report

Parr Unit 1H AWP Proj: 22323'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Parr Unit 1H
Field	Tyler	API	47-095-02746-0000
Facility	Margery Pad	Wellbore	Parr Unit 1H AWB
Slot	Slot #07		

WELLPATH DATA (248 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
18936.00	90.770	161.080	6662.16	12078.55	-11788.28	2861.23	1691460.53	14338687.47	39°29'7.1113"N	80°49'8.7217"W	12130.55	166.357	0.73	0.65	-0.32	
19030.00	90.460	161.620	6661.16	12172.54	-11877.34	2891.29	1691490.57	14338598.45	39°29'6.2305"N	80°49'8.3407"W	12224.18	166.319	0.66	-0.33	0.57	
19125.00	90.460	161.660	6660.39	12267.53	-11967.50	2921.21	1691520.48	14338508.32	39°29'5.3388"N	80°49'7.9613"W	12318.87	166.283	0.04	0.00	0.04	
19219.00	90.770	161.380	6659.38	12361.52	-12056.65	2951.01	1691550.27	14338419.21	39°29'4.4571"N	80°49'7.5836"W	12412.54	166.247	0.44	0.33	-0.30	
19314.00	90.680	160.890	6658.18	12456.51	-12146.53	2981.72	1691580.97	14338329.36	39°29'3.5681"N	80°49'7.1942"W	12507.16	166.208	0.52	-0.09	-0.52	
19408.00	90.310	160.860	6657.37	12550.51	-12235.34	3012.52	1691611.75	14338240.58	39°29'2.6898"N	80°49'6.8037"W	12600.75	166.168	0.39	-0.39	-0.03	
19503.00	90.550	160.610	6656.66	12645.50	-12325.02	3043.86	1691643.08	14338150.94	39°29'1.8028"N	80°49'6.4063"W	12695.32	166.127	0.36	0.25	-0.26	
19598.00	90.400	160.680	6655.87	12740.50	-12414.65	3075.34	1691674.55	14338061.35	39°29'0.9164"N	80°49'6.0071"W	12789.89	166.087	0.17	-0.16	0.07	
19692.00	90.370	160.590	6655.24	12834.49	-12503.33	3106.51	1691705.71	14337972.70	39°29'0.0393"N	80°49'5.6118"W	12883.46	166.047	0.10	-0.03	-0.10	
19787.00	90.150	160.540	6654.81	12929.49	-12592.91	3138.12	1691737.31	14337883.15	39°28'59.1533"N	80°49'5.2110"W	12978.03	166.007	0.24	-0.23	-0.05	
19882.00	90.250	160.510	6654.47	13024.49	-12682.48	3169.79	1691768.97	14337793.63	39°28'58.2675"N	80°49'4.8094"W	13072.60	165.967	0.11	0.11	-0.03	
19976.00	90.370	160.710	6653.97	13118.48	-12771.15	3201.00	1691800.16	14337704.99	39°28'57.3905"N	80°49'4.4136"W	13166.19	165.929	0.25	0.13	0.21	
20071.00	90.180	161.000	6653.51	13213.48	-12860.89	3232.16	1691831.31	14337615.29	39°28'56.5029"N	80°49'4.0186"W	13260.82	165.893	0.36	-0.20	0.31	
20166.00	90.460	161.100	6652.98	13308.48	-12950.74	3263.01	1691862.14	14337525.47	39°28'55.6143"N	80°49'3.6275"W	13355.48	165.858	0.31	0.29	0.11	
20260.00	90.280	160.990	6652.37	13402.48	-13039.64	3293.54	1691892.66	14337436.61	39°28'54.7350"N	80°49'3.2404"W	13449.15	165.825	0.22	-0.19	-0.12	
20355.00	90.430	160.620	6651.78	13497.47	-13129.36	3324.77	1691923.89	14337346.93	39°28'53.8477"N	80°49'2.8444"W	13543.79	165.790	0.42	0.16	-0.39	
20450.00	90.580	161.280	6650.95	13592.47	-13219.15	3355.78	1691954.88	14337257.17	39°28'52.9596"N	80°49'2.4512"W	13638.45	165.756	0.71	0.16	0.69	
20544.00	90.620	161.450	6649.96	13686.46	-13308.22	3385.81	1691984.90	14337168.14	39°28'52.0787"N	80°49'2.0705"W	13732.17	165.726	0.19	0.04	0.18	
20639.00	90.650	161.430	6648.91	13781.45	-13398.27	3416.05	1692015.13	14337078.12	39°28'51.1881"N	80°49'1.6872"W	13826.90	165.696	0.04	0.03	-0.02	
20733.00	90.800	161.740	6647.72	13875.44	-13487.45	3445.74	1692044.81	14336988.98	39°28'50.3061"N	80°49'1.3109"W	13920.65	165.669	0.37	0.16	0.33	
20827.00	90.890	161.160	6646.33	13969.43	-13576.56	3475.64	1692074.70	14336899.91	39°28'49.4248"N	80°49'0.9318"W	14014.38	165.640	0.62	0.10	-0.62	
20922.00	90.520	161.140	6645.16	14064.42	-13666.45	3506.33	1692105.37	14336810.04	39°28'48.5357"N	80°49'0.5428"W	14109.09	165.610	0.39	-0.39	-0.02	
21017.00	90.680	161.120	6644.17	14159.42	-13756.34	3537.06	1692136.09	14336720.19	39°28'47.6467"N	80°49'0.1533"W	14203.79	165.580	0.17	0.17	-0.02	
21112.00	90.650	161.450	6643.07	14254.41	-13846.31	3567.54	1692166.55	14336630.25	39°28'46.7569"N	80°48'59.7669"W	14298.52	165.552	0.35	-0.03	0.35	
21206.00	90.120	161.190	6642.44	14348.41	-13935.36	3597.64	1692196.65	14336541.24	39°28'45.8762"N	80°48'59.3853"W	14392.27	165.524	0.63	-0.56	-0.28	
21301.00	89.940	161.550	6642.39	14443.40	-14025.38	3627.99	1692226.98	14336451.26	39°28'44.9858"N	80°48'59.0006"W	14487.02	165.497	0.42	-0.19	0.38	
21395.00	90.220	161.570	6642.25	14537.40	-14114.56	3657.72	1692256.70	14336362.12	39°28'44.1039"N	80°48'58.6237"W	14580.80	165.472	0.30	0.30	0.02	
21490.00	90.490	161.400	6641.67	14632.40	-14204.64	3687.89	1692286.86	14336272.08	39°28'43.2130"N	80°48'58.2413"W	14675.57	165.446	0.34	0.28	-0.18	
21585.00	89.380	160.540	6641.77	14727.39	-14294.44	3718.87	1692317.82	14336182.31	39°28'42.3248"N	80°48'57.8487"W	14770.28	165.417	1.48	-1.17	-0.91	
21679.00	89.880	161.120	6642.38	14821.39	-14383.23	3749.73	1692348.68	14336093.56	39°28'41.4467"N	80°48'57.4573"W	14863.97	165.388	0.81	0.53	0.62	

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# Actual Wellpath Report

Parr Unit 1H AWP Proj: 22323'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Parr Unit 1H
Field	Tyler	API	47-095-02746-0000
Facility	Margery Pad	Wellbore	Parr Unit 1H AWB
Slot	Slot #07		

WELLPATH DATA (248 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
21774.00	89.690	161.310	6642.74	14916.39	-14473.17	3780.32	1692379.25	14336003.65	39°28'40.5572"N	80°48'57.0696"W	14958.72	165.362	0.28	-0.20	0.20	
21868.00	89.720	160.520	6643.22	15010.39	-14562.00	3811.06	1692409.98	14335914.86	39°28'39.6786"N	80°48'56.6799"W	15052.44	165.334	0.84	0.03	-0.84	
21962.00	90.030	161.270	6643.43	15104.38	-14650.82	3841.82	1692440.73	14335826.07	39°28'38.8001"N	80°48'56.2899"W	15146.16	165.306	0.86	0.33	0.80	
22057.00	90.090	160.930	6643.33	15199.38	-14740.70	3872.60	1692471.49	14335736.23	39°28'37.9112"N	80°48'55.8998"W	15240.90	165.280	0.36	0.06	-0.36	
22151.00	89.540	160.780	6643.63	15293.38	-14829.50	3903.42	1692502.31	14335647.46	39°28'37.0329"N	80°48'55.5090"W	15334.63	165.253	0.61	-0.59	-0.16	
22246.00	89.720	161.130	6644.24	15388.38	-14919.30	3934.42	1692533.29	14335557.70	39°28'36.1448"N	80°48'55.1160"W	15429.36	165.227	0.41	0.19	0.37	
22298.00	89.480	161.360	6644.61	15440.38	-14968.53	3951.14	1692550.00	14335508.48	39°28'35.6578"N	80°48'54.9041"W	15481.23	165.213	0.64	-0.46	0.44	
22323.00‡	89.480	161.360	6644.83	15465.38	-14992.22	3959.13	1692557.99	14335484.81	39°28'35.4235"N	80°48'54.8029"W	15506.17	165.207	0.00	0.00	0.00	Projected MD at TD: 22323'

HOLE & CASING SECTIONS - Ref Wellbore: Parr Unit 1H AWB Ref Wellpath: Parr Unit 1H AWP Proj: 22323'										
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	0.01	0.24	
17.5in Open Hole	126.00	427.00	301.00	126.00	427.00	0.01	0.24	0.29	0.65	
13.375in Casing Surface	25.50	407.00	381.50	25.50	407.00	0.00	0.00	0.18	0.66	
12.25in Open Hole	427.00	2651.00	2224.00	427.00	2612.86	0.29	0.65	50.62	-387.61	
9.625in Casing Intermediate	25.50	2631.00	2605.50	25.50	2593.21	0.00	0.00	50.48	-383.91	
8.75in Open Hole	2651.00	5842.00	3191.00	2612.86	5757.82	50.62	-387.61	128.39	-916.19	
8.5in Open Hole	5842.00	22323.00	16481.00	5757.82	6644.83	128.39	-916.19	-14992.22	3959.13	
5.5in Casing Production	25.50	22303.00	22277.50	25.50	6644.65	0.00	0.00	-14973.27	3952.74	



# Actual Wellpath Report

Parr Unit 1H AWP Proj: 22323'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Parr Unit 1H
Field	Tyler	API	47-095-02746-0000
Facility	Margery Pad	Wellbore	Parr Unit 1H AWB
Slot	Slot #07		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Parr Unit 1H BHL Rev-1	6580.00	-14664.33	3829.38	1692428.29	14335812.57	39°28'38.6669"N	80°48'56.4490"W	point
Parr Unit 1H POE Rev-2	6585.00	-397.81	-974.87	1687625.96	14350073.39	39°30'59.7605"N	80°49'57.3775"W	point
Parr Unit 1H AZI Rev-2	6611.00	-1000.67	-861.90	1687738.89	14349470.77	39°30'53.8001"N	80°49'55.9503"W	point
Parr Unit 1H BHL Rev-2	6611.00	-15011.00	3948.41	1692547.27	14335466.04	39°28'35.2382"N	80°48'54.9401"W	point
Parr Unit 1H LP Rev-2	6611.00	-587.90	-954.10	1687646.72	14349883.37	39°30'57.8814"N	80°49'57.1170"W	point
Parr Unit 1H 50' L/R Hard Line Rev-2	7000.00	-8005.84	1543.26	1690143.08	14342468.40	39°29'44.5204"N	80°49'25.4369"W	rectangle
2D Rectangle 14813.1 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Parr Unit 1H AWB Ref Wellpath: Parr Unit 1H AWP Proj: 22323'						
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date	
25.50	382.00	Gyrodata 2015 - GC+WIR+DPIPE	01 Gyrodata MS Gyro <17-1/2"> (100'-382')	Parr Unit 1H AWB	13/Sep/2021	
382.00	2561.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-1/4"> (382')(416'-2561')	Parr Unit 1H AWB	13/Sep/2021	
2561.00	5778.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (2561')(2652'-5778')	Parr Unit 1H AWB	13/Nov/2021	
5778.00	22323.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (5778')(5817'-22298')	Parr Unit 1H AWB	13/Nov/2021	

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# Actual Wellpath Report

Parr Unit 1H AWP Proj: 22323'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Parr Unit 1H
Field	Tyler	API	47-095-02746-0000
Facility	Margery Pad	Wellbore	Parr Unit 1H AWB
Slot	Slot #07		

COMMENTS
<p><b>Wellpath general comments</b> API: 47-095-02746-0000 BH Job #: 111046814 Rig: H&amp;P 317 Duration: 11/15/2021-11/19/2021 Gyrodatta MS Gyro &lt;17-1/2"&gt; (100'-382') APS EM &lt;12-1/4"&gt; (382')(416'-2561') APS EM &lt;8-3/4"&gt; (2561')(2652'-5778') BH AT Curve &lt;8-1/2"&gt; (5778')(5817'-22298') Sycamore: 6422' MD Middlesex: 6553' MD Burkett: 6710' MD Tully: 6770' MD Marcellus POE: 6949' MD Projected MD at TD: 22323'</p>

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