



# ANTERO RESOURCES CORPORATION



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

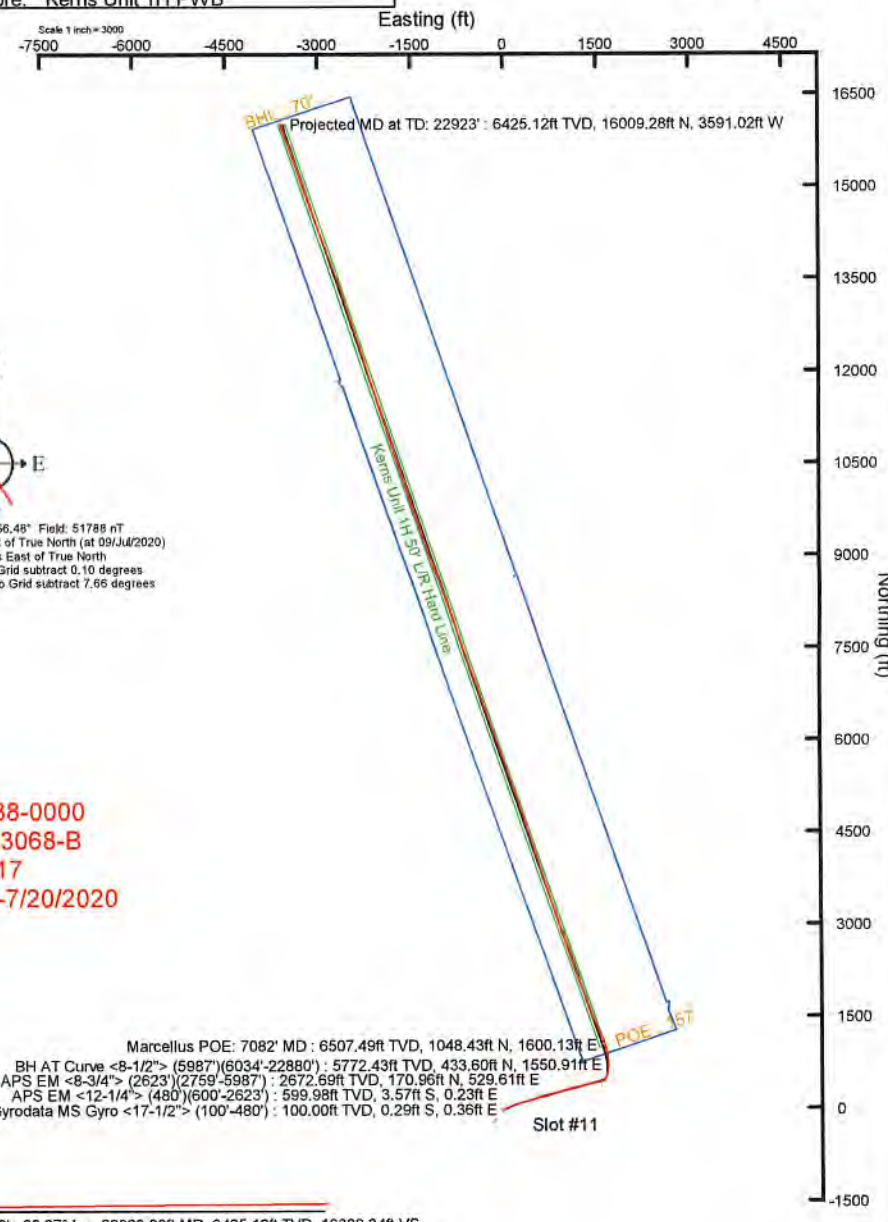
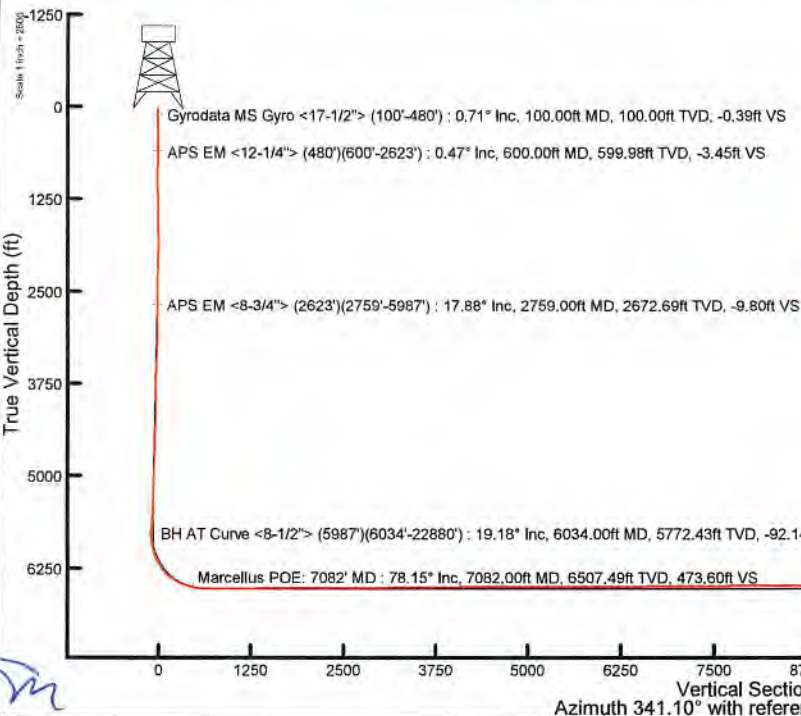
Slot: Slot #11  
 Well: Kerns Unit 1H  
 Wellbore: Kerns Unit 1H PWB

Plot reference wellpath is Kerns Unit 1H PWP Rev-B.0	Grid System: NAD27/UTM Zone 17 North, US feet
True 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: 1029.5 feet	Coordinates are in feet referenced to Slat
Mean Sea Level to Ground level (At Slot: Slot #11): -1004 feet	Depths are in feet
Official wellpath MDs are referenced to each path's default MD datum	Created by: rdsharver on 2020-07-22; Database: WA_MPL_EASTERNUS_Datb

Location Information						
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude		
Blizzard Pad	1682398.190	14343430.420	39°29'54.1703"N	80°51'4.2494"W		
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Slot #11	226.64	195.88	1682593.990	14343656.970	39°29'55.4070"N	80°51'1.7459"W
H&P 317 (RKB) to Ground level (At Slot: Slot #11)			25.5ft			
Mean Sea Level to Ground level (At Slot: Slot #11)			-1004ft			
H&P 317 (RKB) to Mean Sea Level			1029.5ft			

Well Profile Data								
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	2623.00	18.830	71.700	2543.61	156.35	489.38	1.11	-10.60
Proj. to Bottom	2698.00	18.830	71.700	2614.59	163.95	512.36	0.00	-10.85
Drill Out	2798.00	18.830	71.700	2709.24	174.08	543.00	0.00	-11.19
Hold	2848.23	18.834	74.812	2756.78	178.75	558.52	2.00	-11.80
Curve KOP	6081.71	18.834	74.812	5817.15	452.22	1595.90	0.00	-79.39
POE	7039.07	74.552	341.098	6503.00	1015.72	1565.51	8.00	453.86
Landing Pt.	7210.71	90.000	341.098	6526.00	1176.15	1510.57	9.00	623.43
BHL	22871.64	90.000	341.098	6526.00	15992.57	-3562.72	0.00	16284.36

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #11	Kerns Unit 1H	Kerns Unit 1H AWB	Kerns Unit 1H AWP Proj: 22923'
Slot #11	Kerns Unit 1H	Kerns Unit 1H PWB	Kerns Unit 1H PWP Rev-B.0



User specified (HDGM) Dip: 66.48° Field: 51788 nT  
 Magnetic North is 7.56 degrees West of True North (at 09/Jul/2020)  
 Grid North is 0.10 degrees East of True North  
 To correct azimuth from True to Grid subtract 0.10 degrees  
 To correct azimuth from Magnetic to Grid subtract 7.66 degrees

API: 47-095-02688-0000  
 BH Job #: 110423068-B  
 Rig: H&P 317  
 Duration: 5/29/2020-7/20/2020

Marcellus POE: 7082' MD : 6507.49ft TVD, 1048.43ft N, 1600.13ft E  
 BH AT Curve <8-1/2"> (5987')(6034'-22880') : 5772.43ft TVD, 433.60ft N, 1550.91ft E  
 APS EM <8-3/4"> (2623')(2759'-5987') : 2672.69ft TVD, 170.96ft N, 529.61ft E  
 APS EM <12-1/4"> (480')(600'-2623') : 599.98ft TVD, 3.57ft S, 0.23ft E  
 Gyrodata MS Gyro <17-1/2"> (100'-480') : 100.00ft TVD, 0.29ft S, 0.36ft E

*Handwritten signature/initials*



# Actual Wellpath Report

Kerns Unit 1H AWP Proj: 22923'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Kerns Unit 1H
Field	Tyler	API	47-095-02688-0000
Facility	Blizzard Pad	Wellbore	Kerns Unit 1H AWB
Slot	Slot #11		

## REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999602	Report Generated	22/Jul/2020 at 13:58
Convergence at slot	0.10° 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	226.64	195.88	1682593.99	14343656.97	39°29'56.4070"N	80°51'1.7459"W
Facility Reference Pt			1682398.19	14343430.42	39°29'54.1703"N	80°51'4.2494"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	1029.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level	1029.50ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot #11)	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	341.10°



# Actual Wellpath Report

Kerns Unit 1H AWP Proj: 22923'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Kerns Unit 1H
Field	Tyler	API	47-095-02688-0000
Facility	Blizzard Pad	Wellbore	Kerns Unit 1H AWB
Slot	Slot #11		

WELLPATH DATA (262 stations) † = interpolated, ‡ = extrapolated station																
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Comments
0.00	0.000	128.380	0.00	0.00	0.00	0.00	1682593.99	14343656.97	39°29'56.4070"N	80°51'1.7459"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	128.380	25.50	0.00	0.00	0.00	1682593.99	14343656.97	39°29'56.4070"N	80°51'1.7459"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.710	128.380	100.00	-0.39	-0.29	0.36	1682594.35	14343656.68	39°29'56.4042"N	80°51'1.7413"W	0.46	128.380	0.95	0.95	0.00	Gyrodata MS Gyro <17-1/2"> (100'-480')
125.00	0.620	143.470	125.00	-0.65	-0.49	0.56	1682594.55	14343656.48	39°29'56.4022"N	80°51'1.7388"W	0.75	131.079	0.78	-0.36	60.36	
150.00	0.550	150.860	150.00	-0.89	-0.70	0.70	1682594.69	14343656.27	39°29'56.4001"N	80°51'1.7370"W	1.00	135.090	0.41	-0.28	29.56	
175.00	0.470	153.190	174.99	-1.11	-0.90	0.81	1682594.80	14343656.07	39°29'56.3981"N	80°51'1.7357"W	1.21	138.144	0.33	-0.32	9.32	
200.00	0.420	159.990	199.99	-1.31	-1.08	0.88	1682594.87	14343655.89	39°29'56.3964"N	80°51'1.7347"W	1.40	140.638	0.29	-0.20	27.20	
225.00	0.420	157.720	224.99	-1.49	-1.25	0.95	1682594.94	14343655.72	39°29'56.3947"N	80°51'1.7338"W	1.57	142.728	0.07	0.00	-9.08	
250.00	0.430	158.820	249.99	-1.68	-1.42	1.02	1682595.01	14343655.55	39°29'56.3930"N	80°51'1.7330"W	1.75	144.356	0.05	0.04	4.40	
275.00	0.330	176.440	274.99	-1.84	-1.58	1.06	1682595.05	14343655.39	39°29'56.3914"N	80°51'1.7325"W	1.90	146.213	0.61	-0.40	70.48	
300.00	0.330	183.480	299.99	-1.97	-1.73	1.06	1682595.05	14343655.25	39°29'56.3900"N	80°51'1.7325"W	2.02	148.474	0.16	0.00	28.16	
325.00	0.320	180.770	324.99	-2.11	-1.87	1.05	1682595.04	14343655.10	39°29'56.3886"N	80°51'1.7326"W	2.14	150.576	0.07	-0.04	-10.84	
350.00	0.330	204.030	349.99	-2.23	-2.00	1.02	1682595.01	14343654.97	39°29'56.3872"N	80°51'1.7329"W	2.25	152.945	0.53	0.04	93.04	
375.00	0.330	225.380	374.99	-2.31	-2.12	0.94	1682594.93	14343654.85	39°29'56.3861"N	80°51'1.7340"W	2.32	156.027	0.49	0.00	85.40	
400.00	0.430	213.840	399.99	-2.40	-2.25	0.84	1682594.83	14343654.72	39°29'56.3848"N	80°51'1.7353"W	2.40	159.535	0.50	0.40	-46.16	
425.00	0.500	218.440	424.99	-2.51	-2.41	0.72	1682594.71	14343654.56	39°29'56.3832"N	80°51'1.7368"W	2.52	163.401	0.32	0.28	18.40	
450.00	0.610	225.670	449.99	-2.63	-2.59	0.56	1682594.55	14343654.38	39°29'56.3815"N	80°51'1.7389"W	2.65	167.889	0.52	0.44	28.92	
475.00	0.630	229.310	474.99	-2.74	-2.77	0.36	1682594.35	14343654.20	39°29'56.3796"N	80°51'1.7415"W	2.79	172.678	0.18	0.08	14.56	
480.00	0.640	225.530	479.99	-2.76	-2.81	0.32	1682594.31	14343654.16	39°29'56.3793"N	80°51'1.7420"W	2.83	173.595	0.86	0.20	-75.60	
600.00	0.470	126.340	599.98	-3.45	-3.57	0.23	1682594.22	14343653.40	39°29'56.3718"N	80°51'1.7430"W	3.58	176.258	0.71	-0.14	-82.66	APS EM <12-1/4"> (480')(600'-2623')
692.00	2.250	87.680	691.95	-4.28	-3.72	2.34	1682596.33	14343653.25	39°29'56.3702"N	80°51'1.7161"W	4.40	147.810	2.07	1.93	-42.02	
783.00	4.040	85.610	782.81	-5.59	-3.40	7.32	1682601.31	14343653.57	39°29'56.3733"N	80°51'1.6526"W	8.08	114.922	1.97	1.97	-2.27	
874.00	5.530	77.630	873.49	-6.89	-2.22	14.80	1682608.79	14343654.75	39°29'56.3849"N	80°51'1.5572"W	14.97	98.522	1.79	1.64	-8.77	
967.00	7.650	71.380	965.88	-7.43	0.72	25.05	1682619.03	14343657.69	39°29'56.4137"N	80°51'1.4264"W	25.06	88.357	2.40	2.28	-6.72	
1059.00	8.930	68.230	1056.91	-7.11	5.32	37.48	1682631.46	14343662.29	39°29'56.4590"N	80°51'1.2677"W	37.86	81.918	1.48	1.39	-3.42	
1153.00	10.430	65.460	1149.57	-5.90	11.56	52.00	1682645.97	14343668.53	39°29'56.5205"N	80°51'1.0824"W	53.27	77.464	1.67	1.60	-2.95	
1248.00	11.860	65.090	1242.78	-4.04	19.25	68.68	1682662.64	14343676.21	39°29'56.5961"N	80°51'0.8695"W	71.32	74.345	1.51	1.51	-0.39	
1343.00	15.010	67.190	1335.17	-2.18	28.13	88.88	1682682.83	14343685.09	39°29'56.6836"N	80°51'0.6116"W	93.22	72.437	3.35	3.32	2.21	
1437.00	16.680	67.330	1425.59	-0.46	38.05	112.55	1682706.49	14343695.00	39°29'56.7812"N	80°51'0.3094"W	118.80	71.321	1.78	1.78	0.15	
1532.00	18.430	68.830	1516.17	1.03	48.73	139.13	1682733.07	14343705.68	39°29'56.8863"N	80°50'59.9701"W	147.42	70.699	1.90	1.84	1.58	



# Actual Wellpath Report

Kerns Unit 1H AWP Proj: 22923'  
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### REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Kerns Unit 1H
Field	Tyler	API	47-095-02688-0000
Facility	Blizzard Pad	Wellbore	Kerns Unit 1H AWB
Slot	Slot #11		

### WELLPATH DATA (262 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
1627.00	20.740	71.000	1605.66	1.66	59.63	169.04	1682762.97	14343716.57	39°29'56.9936"N	80°50'59.5883"W	179.25	70.570	2.55	2.43	2.28	
1722.00	21.160	69.560	1694.38	2.15	71.09	201.02	1682794.93	14343728.03	39°29'57.1064"N	80°50'59.1802"W	213.22	70.523	0.70	0.44	-1.52	
1817.00	19.720	69.260	1783.40	3.12	82.76	232.07	1682825.97	14343739.69	39°29'57.2211"N	80°50'58.7837"W	246.39	70.374	1.52	-1.52	-0.32	
1911.00	19.450	70.440	1871.96	3.81	93.61	261.65	1682855.54	14343750.55	39°29'57.3280"N	80°50'58.4062"W	277.89	70.314	0.51	-0.29	1.26	
2006.00	19.370	75.680	1961.57	2.74	102.81	291.82	1682885.70	14343759.73	39°29'57.4183"N	80°50'58.0211"W	309.40	70.593	1.83	-0.08	5.52	
2101.00	19.400	76.460	2051.18	0.00	110.40	322.43	1682916.29	14343767.32	39°29'57.4928"N	80°50'57.6305"W	340.80	71.099	0.27	0.03	0.82	
2196.00	19.610	76.160	2140.73	-2.88	117.90	353.24	1682947.09	14343774.83	39°29'57.5665"N	80°50'57.2372"W	372.40	71.542	0.24	0.22	-0.32	
2291.00	19.270	75.460	2230.32	-5.47	125.65	383.90	1682977.73	14343782.57	39°29'57.6426"N	80°50'56.8460"W	403.94	71.876	0.43	-0.36	-0.74	
2386.00	19.150	74.540	2320.03	-7.60	133.74	414.09	1683007.91	14343790.66	39°29'57.7220"N	80°50'56.4607"W	435.15	72.101	0.34	-0.13	-0.97	
2480.00	19.670	73.720	2408.68	-9.25	142.29	444.14	1683037.95	14343799.20	39°29'57.8060"N	80°50'56.0773"W	466.37	72.236	0.62	0.55	-0.87	
2575.00	19.310	72.410	2498.24	-10.34	151.52	474.46	1683068.26	14343808.43	39°29'57.8967"N	80°50'55.6903"W	498.06	72.289	0.60	-0.38	-1.38	
2623.00	18.830	71.700	2543.61	-10.60	156.35	489.38	1683083.17	14343813.25	39°29'57.9442"N	80°50'55.4998"W	513.74	72.282	1.11	-1.00	-1.48	
2759.00	17.880	68.280	2672.69	-9.80	170.96	529.61	1683123.39	14343827.87	39°29'58.0880"N	80°50'54.9863"W	556.52	72.109	1.06	-0.70	-2.51	APS EM <8-3/4"> (2623')(2759'-5987')
2854.00	17.870	70.440	2763.11	-8.92	181.24	556.90	1683150.66	14343838.14	39°29'58.1891"N	80°50'54.6380"W	585.65	71.972	0.70	-0.01	2.27	
2949.00	18.670	70.290	2853.32	-8.53	191.25	584.94	1683178.70	14343848.14	39°29'58.2876"N	80°50'54.2800"W	615.42	71.895	0.84	0.84	-0.16	
3044.00	19.170	70.160	2943.18	-8.06	201.67	613.93	1683207.68	14343858.56	39°29'58.3901"N	80°50'53.9100"W	646.21	71.815	0.53	0.53	-0.14	
3139.00	18.530	73.460	3033.09	-8.43	211.26	643.08	1683236.81	14343868.15	39°29'58.4844"N	80°50'53.5380"W	676.89	71.814	1.31	-0.67	3.47	
3233.00	18.360	77.950	3122.27	-10.81	218.61	671.87	1683265.59	14343875.49	39°29'58.5565"N	80°50'53.1705"W	706.54	71.977	1.52	-0.18	4.78	
3328.00	18.560	77.870	3212.38	-14.38	224.91	701.29	1683295.00	14343881.79	39°29'58.6183"N	80°50'52.7951"W	736.47	72.219	0.21	0.21	-0.08	
3426.00	18.480	77.210	3305.30	-17.87	231.62	731.68	1683325.38	14343888.50	39°29'58.6842"N	80°50'52.4072"W	767.47	72.434	0.23	-0.08	-0.67	
3521.00	18.690	76.710	3395.35	-20.96	238.46	761.18	1683354.86	14343895.33	39°29'58.7512"N	80°50'52.0308"W	797.66	72.606	0.28	0.22	-0.53	
3616.00	20.000	79.580	3484.98	-24.84	244.89	791.97	1683385.65	14343901.77	39°29'58.8143"N	80°50'51.6378"W	828.97	72.817	1.70	1.38	3.02	
3711.00	21.070	80.050	3573.95	-29.90	250.78	824.77	1683418.43	14343907.65	39°29'58.8720"N	80°50'51.2193"W	862.06	73.087	1.14	1.13	0.49	
3806.00	19.390	75.300	3663.09	-33.71	257.74	856.85	1683450.50	14343914.60	39°29'58.9401"N	80°50'50.8099"W	894.77	73.259	2.47	-1.77	-5.00	
3900.00	19.660	70.010	3751.69	-34.55	267.10	886.80	1683480.44	14343923.96	39°29'59.0322"N	80°50'50.4276"W	926.16	73.238	1.90	0.29	-5.63	
3995.00	19.060	73.540	3841.32	-34.91	276.96	916.70	1683510.32	14343933.82	39°29'59.1291"N	80°50'50.0460"W	957.62	73.189	1.38	-0.63	3.72	
4090.00	19.120	71.270	3931.10	-35.61	286.35	946.31	1683539.92	14343943.21	39°29'59.2215"N	80°50'49.6681"W	988.69	73.164	0.78	0.06	-2.39	
4185.00	18.760	72.410	4020.96	-36.01	295.96	975.61	1683569.21	14343952.82	39°29'59.3160"N	80°50'49.2942"W	1019.51	73.124	0.54	-0.38	1.20	
4280.00	18.430	73.060	4111.00	-36.87	304.96	1004.53	1683598.12	14343961.80	39°29'59.4044"N	80°50'48.9249"W	1049.80	73.113	0.41	-0.35	0.68	
4375.00	19.140	72.610	4200.94	-37.80	313.99	1033.76	1683627.34	14343970.83	39°29'59.4931"N	80°50'48.5519"W	1080.39	73.105	0.76	0.75	-0.47	



# Actual Wellpath Report

Kerns Unit 1H AWP Proj: 22923'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Kerns Unit 1H
Field	Tyler	API	47-095-02688-0000
Facility	Blizzard Pad	Wellbore	Kerns Unit 1H AWB
Slot	Slot #11		

WELLPATH DATA (262 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]	
4469.00	19.310	73.350	4289.69	-38.81	323.05	1063.36	1683656.92	14343979.89	39°29'59.5822"N	80°50'48.1741"W	1111.35	73.101	0.32	0.18	0.79	
4564.00	19.290	75.320	4379.36	-40.58	331.52	1093.59	1683687.14	14343988.36	39°29'59.6654"N	80°50'47.7883"W	1142.73	73.135	0.69	-0.02	2.07	
4659.00	19.840	74.250	4468.87	-42.62	339.88	1124.28	1683717.82	14343996.71	39°29'59.7475"N	80°50'47.3966"W	1174.53	73.180	0.69	0.58	-1.13	
4754.00	18.740	75.300	4558.54	-44.63	348.12	1154.56	1683748.09	14344004.95	39°29'59.8285"N	80°50'47.0102"W	1205.90	73.221	1.21	-1.16	1.11	
4849.00	18.420	76.250	4648.58	-47.09	355.56	1183.90	1683777.42	14344012.39	39°29'59.9015"N	80°50'46.6357"W	1236.14	73.283	0.46	-0.34	1.00	
4944.00	17.880	78.810	4738.86	-50.40	361.96	1212.79	1683806.29	14344018.79	39°29'59.9643"N	80°50'46.2671"W	1265.65	73.382	1.01	-0.57	2.69	
5039.00	17.960	77.460	4829.25	-53.98	367.97	1241.39	1683834.88	14344024.79	39°30'0.0232"N	80°50'45.9021"W	1294.78	73.489	0.45	0.08	-1.42	
5133.00	17.730	77.050	4918.73	-57.06	374.33	1269.49	1683862.97	14344031.15	39°30'0.0855"N	80°50'45.5435"W	1323.52	73.571	0.28	-0.24	-0.44	
5228.00	18.270	79.340	5009.08	-60.70	380.32	1298.22	1683891.69	14344037.14	39°30'0.1443"N	80°50'45.1769"W	1352.78	73.672	0.94	0.57	2.41	
5323.00	18.860	80.870	5099.14	-65.44	385.51	1328.01	1683921.47	14344042.33	39°30'0.1951"N	80°50'44.7967"W	1382.84	73.812	0.81	0.62	1.61	
5418.00	18.510	75.750	5189.13	-69.27	391.66	1357.79	1683951.24	14344048.48	39°30'0.2553"N	80°50'44.4167"W	1413.15	73.910	1.76	-0.37	-5.39	
5513.00	18.180	74.180	5279.31	-71.29	399.41	1386.67	1683980.10	14344056.22	39°30'0.3315"N	80°50'44.0481"W	1443.04	73.932	0.63	-0.35	-1.65	
5608.00	18.420	74.480	5369.50	-72.97	407.47	1415.39	1684008.81	14344064.28	39°30'0.4106"N	80°50'43.6816"W	1472.87	73.940	0.27	0.25	0.32	
5703.00	17.640	78.370	5459.84	-75.67	414.39	1443.95	1684037.36	14344071.19	39°30'0.4785"N	80°50'43.3171"W	1502.23	73.987	1.51	-0.82	4.09	
5797.00	18.380	77.320	5549.23	-79.08	420.51	1472.36	1684065.76	14344077.32	39°30'0.5385"N	80°50'42.9545"W	1531.23	74.060	0.86	0.79	-1.12	
5892.00	20.610	82.950	5639.79	-84.14	425.85	1503.57	1684096.96	14344082.65	39°30'0.5908"N	80°50'42.5562"W	1562.71	74.186	3.07	2.35	5.93	
5987.00	19.370	79.990	5728.07	-90.01	430.65	1535.68	1684129.06	14344087.44	39°30'0.6376"N	80°50'42.1465"W	1594.92	74.335	1.68	-1.31	-3.12	
6034.00	19.180	78.010	5772.43	-92.14	433.60	1550.91	1684144.28	14344090.40	39°30'0.6666"N	80°50'41.9522"W	1610.38	74.380	1.45	-0.40	-4.21	BH AT Curve <8-1/2"> (5987')(6034'-22880')
6090.00	18.830	68.420	5825.39	-92.82	438.84	1568.32	1684161.68	14344095.63	39°30'0.7180"N	80°50'41.7300"W	1628.56	74.368	5.61	-0.63	-17.13	
6185.00	17.860	43.360	5915.70	-85.32	455.10	1592.61	1684185.97	14344111.88	39°30'0.8783"N	80°50'41.4197"W	1656.36	74.052	6.30	-1.02	-26.38	
6280.00	22.160	31.410	6004.99	-67.08	481.00	1611.97	1684205.31	14344137.78	39°30'1.1340"N	80°50'41.1722"W	1682.20	73.385	6.22	4.53	-12.58	
6374.00	27.280	20.610	6090.39	-39.10	516.34	1628.81	1684222.15	14344173.10	39°30'1.4829"N	80°50'40.9566"W	1708.69	72.411	7.24	5.45	-11.49	
6469.00	32.220	11.410	6172.88	-0.40	561.59	1641.50	1684234.83	14344218.34	39°30'1.9300"N	80°50'40.7937"W	1734.91	71.113	7.07	5.20	-9.68	
6564.00	39.320	5.670	6249.94	48.92	616.45	1649.50	1684242.83	14344273.18	39°30'2.4721"N	80°50'40.6905"W	1760.92	69.508	8.26	7.47	-6.04	
6659.00	46.630	2.940	6319.40	108.43	680.98	1654.25	1684247.58	14344337.68	39°30'3.1098"N	80°50'40.6285"W	1788.93	67.625	7.94	7.69	-2.87	
6685.00†	49.100	1.496	6336.84	126.41	700.25	1654.99	1684248.32	14344356.94	39°30'3.3001"N	80°50'40.6186"W	1797.03	67.066	10.35	9.50	-5.55	Middlesex: 6685' MD
6754.00	55.730	358.130	6378.91	178.18	754.88	1654.74	1684248.07	14344411.55	39°30'3.8401"N	80°50'40.6206"W	1818.79	65.478	10.35	9.61	-4.88	
6849.00	62.870	353.670	6427.40	257.11	836.26	1648.79	1684242.12	14344492.90	39°30'4.6446"N	80°50'40.6947"W	1848.74	63.106	8.53	7.52	-4.69	
6860.00†	63.530	353.014	6432.36	266.70	846.02	1647.65	1684240.98	14344502.65	39°30'4.7410"N	80°50'40.7090"W	1852.16	62.821	8.02	6.00	-5.96	Burkett: 6860' MD
6896.00	65.710	350.920	6447.79	298.64	878.22	1643.10	1684236.43	14344534.84	39°30'5.0593"N	80°50'40.7664"W	1863.07	61.876	8.02	6.06	-5.82	



# Actual Wellpath Report

Kerns Unit 1H AWP Proj: 22923'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Kerns Unit 1H
Field	Tyler	API	47-095-02688-0000
Facility	Blizzard Pad	Wellbore	Kerns Unit 1H AWB
Slot	Slot #11		

WELLPATH DATA (262 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)	
6915.00†	66.516	349.821	6455.49	315.79	895.35	1640.19	1684233.53	14344551.96	39°30'5.2286"N	80°50'40.8031"W	1868.66	61.371	6.78	4.24	-5.78	ully: 6915' MD
6944.00	67.760	348.170	6466.75	342.25	921.57	1635.09	1684228.43	14344578.18	39°30'5.4879"N	80°50'40.8676"W	1876.92	60.593	6.78	4.29	-5.69	
6991.00	70.810	345.050	6483.38	386.00	964.33	1624.90	1684218.24	14344620.91	39°30'5.9106"N	80°50'40.9966"W	1889.50	59.312	8.98	6.49	-6.64	
7038.00	74.900	343.250	6497.23	430.84	1007.52	1612.63	1684205.98	14344664.08	39°30'6.3377"N	80°50'41.1522"W	1901.49	58.004	9.44	8.70	-3.83	
7082.00†	78.146	342.771	6507.49	473.60	1048.43	1600.13	1684193.48	14344704.98	39°30'6.7423"N	80°50'41.3108"W	1913.01	56.766	7.45	7.38	-1.09	Marcellus POE: 7082' MD
7133.00	81.910	342.230	6516.32	523.80	1096.33	1585.03	1684178.38	14344752.86	39°30'7.2159"N	80°50'41.5024"W	1927.24	55.329	7.45	7.38	-1.06	
7228.00	89.020	337.810	6523.83	618.40	1185.24	1552.68	1684146.05	14344841.74	39°30'8.0953"N	80°50'41.9131"W	1953.36	52.644	8.80	7.48	-4.65	
7323.00	89.850	332.480	6524.76	712.85	1271.41	1512.76	1684106.15	14344927.87	39°30'8.9476"N	80°50'42.4204"W	1976.09	49.954	5.68	0.87	-5.61	
7418.00	89.570	336.760	6525.25	807.22	1357.22	1472.06	1684065.46	14345013.65	39°30'9.7963"N	80°50'42.9379"W	2002.25	47.324	4.51	-0.29	4.51	
7515.00	90.820	337.330	6525.09	903.98	1446.54	1434.23	1684027.64	14345102.93	39°30'10.6797"N	80°50'43.4185"W	2037.02	44.755	1.23	1.08	0.59	
7610.00	90.710	338.340	6523.98	998.81	1534.51	1398.39	1683991.82	14345190.86	39°30'11.5498"N	80°50'43.8738"W	2076.10	42.343	1.07	0.09	1.06	
7705.00	90.220	337.460	6523.21	1093.66	1622.52	1362.65	1683956.09	14345278.85	39°30'12.4203"N	80°50'44.3278"W	2118.82	40.025	1.06	-0.52	-0.93	
7800.00	90.220	338.090	6522.85	1188.50	1710.47	1326.71	1683920.17	14345366.75	39°30'13.2901"N	80°50'44.7843"W	2164.69	37.799	0.66	0.00	0.66	
7895.00	90.620	340.910	6522.15	1283.45	1799.44	1293.45	1683886.92	14345455.69	39°30'14.1700"N	80°50'45.2067"W	2216.07	35.709	3.00	0.42	2.97	
7989.00	90.460	340.120	6521.26	1377.44	1888.05	1262.10	1683855.58	14345544.26	39°30'15.0463"N	80°50'45.6048"W	2271.04	33.761	0.86	-0.17	-0.84	
8084.00	89.690	339.690	6521.14	1472.42	1977.27	1229.46	1683822.95	14345633.44	39°30'15.9286"N	80°50'46.0192"W	2328.33	31.873	0.93	-0.81	-0.45	
8179.00	90.120	340.160	6521.30	1567.40	2066.49	1196.85	1683790.36	14345722.64	39°30'16.8110"N	80°50'46.4333"W	2388.06	30.078	0.67	0.45	0.49	
8274.00	90.120	339.460	6521.10	1662.37	2155.65	1164.06	1683757.59	14345811.76	39°30'17.6928"N	80°50'46.8496"W	2449.87	28.369	0.74	0.00	-0.74	
8369.00	89.880	340.930	6521.10	1757.36	2245.03	1131.87	1683725.41	14345901.10	39°30'18.5767"N	80°50'47.2583"W	2514.22	26.756	1.57	-0.25	1.55	
8464.00	89.880	341.820	6521.30	1852.36	2335.06	1101.53	1683695.08	14345991.09	39°30'19.4669"N	80°50'47.6434"W	2581.83	25.255	0.94	0.00	0.94	
8559.00	90.000	342.060	6521.40	1947.35	2425.38	1072.08	1683665.64	14346081.38	39°30'20.3601"N	80°50'48.0172"W	2651.76	23.847	0.28	0.13	0.25	
8653.00	90.120	341.840	6521.30	2041.34	2514.75	1042.96	1683636.53	14346170.71	39°30'21.2439"N	80°50'48.3868"W	2722.45	22.526	0.27	0.13	-0.23	
8748.00	90.180	341.860	6521.05	2136.33	2605.02	1013.36	1683606.95	14346260.95	39°30'22.1366"N	80°50'48.7624"W	2795.18	21.256	0.07	0.06	0.02	
8843.00	90.150	341.280	6520.78	2231.32	2695.15	983.33	1683576.93	14346351.04	39°30'23.0278"N	80°50'49.1436"W	2868.93	20.045	0.61	-0.03	-0.61	
8938.00	89.970	341.500	6520.68	2326.32	2785.18	953.01	1683546.62	14346441.04	39°30'23.9181"N	80°50'49.5285"W	2943.72	18.890	0.30	-0.19	0.23	
9033.00	90.060	341.070	6520.65	2421.32	2875.16	922.53	1683516.15	14346530.98	39°30'24.8079"N	80°50'49.9154"W	3019.54	17.790	0.46	0.09	-0.45	
9127.00	90.460	341.870	6520.23	2515.32	2964.28	892.66	1683486.29	14346620.07	39°30'25.6893"N	80°50'50.2946"W	3095.77	16.759	0.95	0.43	0.85	
9222.00	90.580	341.900	6519.36	2610.30	3054.57	863.12	1683456.77	14346710.32	39°30'26.5821"N	80°50'50.6695"W	3174.17	15.779	0.13	0.13	0.03	
9317.00	90.770	342.140	6518.24	2705.29	3144.93	833.80	1683427.46	14346800.64	39°30'27.4756"N	80°50'51.0416"W	3253.58	14.849	0.32	0.20	0.25	
9412.00	90.830	341.980	6516.92	2800.26	3235.30	804.54	1683398.21	14346890.97	39°30'28.3693"N	80°50'51.4130"W	3333.83	13.965	0.18	0.06	-0.17	



# Actual Wellpath Report

Kerns Unit 1H AWP Proj: 22923'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Kerns Unit 1H
Field	Tyler	API	47-095-02688-0000
Facility	Blizzard Pad	Wellbore	Kerns Unit 1H AWP
Slot	Slot #11		

WELLPATH DATA (262 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
9507.00	90.620	342.220	6515.72	2895.24	3325.69	775.34	1683369.02	14346981.33	39°30'29.2632"N	80°50'51.7835"W	3414.88	13.123	0.34	-0.22	0.25	
9602.00	90.620	341.950	6514.69	2990.22	3416.08	746.12	1683339.81	14347071.68	39°30'30.1570"N	80°50'52.1544"W	3496.61	12.321	0.28	0.00	-0.28	
9697.00	90.650	341.950	6513.63	3085.21	3506.40	716.69	1683310.39	14347161.97	39°30'31.0501"N	80°50'52.5279"W	3578.89	11.552	0.03	0.03	0.00	
9792.00	90.550	341.910	6512.64	3180.19	3596.71	687.22	1683280.94	14347252.24	39°30'31.9432"N	80°50'52.9019"W	3661.77	10.817	0.11	-0.11	-0.04	
9886.00	90.550	341.900	6511.74	3274.18	3686.06	658.03	1683251.76	14347341.55	39°30'32.8267"N	80°50'53.2725"W	3744.33	10.122	0.01	0.00	-0.01	
9981.00	90.710	342.210	6510.69	3369.16	3776.43	628.76	1683222.50	14347431.89	39°30'33.7204"N	80°50'53.6439"W	3828.41	9.453	0.37	0.17	0.33	
10076.00	90.740	342.330	6509.49	3464.13	3866.91	599.83	1683193.58	14347522.33	39°30'34.6151"N	80°50'54.0111"W	3913.16	8.817	0.13	0.03	0.13	
10171.00	90.680	342.200	6508.31	3559.10	3957.39	570.90	1683164.66	14347612.77	39°30'35.5098"N	80°50'54.3783"W	3998.35	8.209	0.15	-0.06	-0.14	
10266.00	90.800	342.320	6507.09	3654.08	4047.86	541.95	1683135.73	14347703.21	39°30'36.4045"N	80°50'54.7457"W	4083.98	7.626	0.18	0.13	0.13	
10361.00	90.460	342.250	6506.04	3749.05	4138.35	513.05	1683106.83	14347793.67	39°30'37.2993"N	80°50'55.1125"W	4170.03	7.067	0.37	-0.36	-0.07	
10455.00	89.970	340.670	6505.69	3843.04	4227.47	483.16	1683076.96	14347882.75	39°30'38.1806"N	80°50'55.4919"W	4254.99	6.520	1.76	-0.52	-1.68	
10550.00	90.220	342.440	6505.53	3938.04	4317.59	453.10	1683046.91	14347972.83	39°30'39.0717"N	80°50'55.8735"W	4341.30	5.991	1.88	0.26	1.86	
10645.00	90.370	342.380	6505.04	4033.01	4408.14	424.40	1683018.22	14348063.35	39°30'39.9672"N	80°50'56.2378"W	4428.53	5.499	0.17	0.16	-0.06	
10740.00	90.340	342.250	6504.45	4127.99	4498.65	395.54	1682989.37	14348153.82	39°30'40.8622"N	80°50'56.6041"W	4516.01	5.025	0.14	-0.03	-0.14	
10834.00	90.220	342.360	6503.99	4221.97	4588.20	366.97	1682960.81	14348243.34	39°30'41.7478"N	80°50'56.9667"W	4602.85	4.573	0.17	-0.13	0.12	
10929.00	90.430	342.150	6503.46	4316.94	4678.68	338.01	1682931.87	14348333.78	39°30'42.6425"N	80°50'57.3342"W	4690.88	4.132	0.31	0.22	-0.22	
11024.00	90.490	341.250	6502.69	4411.93	4768.87	308.18	1682902.05	14348423.94	39°30'43.5344"N	80°50'57.7128"W	4778.82	3.698	0.95	0.06	-0.95	
11119.00	90.030	340.670	6502.26	4506.93	4858.67	277.19	1682871.07	14348513.70	39°30'44.4224"N	80°50'58.1063"W	4866.57	3.265	0.78	-0.48	-0.61	
11214.00	90.090	341.230	6502.16	4601.93	4948.47	246.19	1682840.08	14348603.46	39°30'45.3104"N	80°50'58.5000"W	4954.59	2.848	0.59	0.06	0.59	
11309.00	90.310	341.020	6501.83	4696.93	5038.36	215.45	1682809.36	14348693.32	39°30'46.1993"N	80°50'58.8902"W	5042.97	2.449	0.32	0.23	-0.22	
11404.00	90.280	341.100	6501.34	4791.93	5128.22	184.62	1682778.53	14348783.14	39°30'47.0879"N	80°50'59.2818"W	5131.54	2.062	0.09	-0.03	0.08	
11498.00	90.000	341.110	6501.11	4885.93	5217.15	154.18	1682748.11	14348872.04	39°30'47.9674"N	80°50'59.6683"W	5219.43	1.693	0.30	-0.30	0.01	
11593.00	90.220	341.240	6500.93	4980.93	5307.07	123.52	1682717.46	14348961.92	39°30'48.8566"N	80°51'0.0575"W	5308.51	1.333	0.27	0.23	0.14	
11688.00	90.030	341.280	6500.72	5075.93	5397.03	93.00	1682686.96	14349051.84	39°30'49.7462"N	80°51'0.4450"W	5397.83	0.987	0.20	-0.20	0.04	
11783.00	90.180	341.380	6500.55	5170.93	5487.03	62.59	1682656.56	14349141.81	39°30'50.6362"N	80°51'0.8311"W	5487.39	0.654	0.19	0.16	0.11	
11878.00	90.180	341.270	6500.25	5265.93	5577.03	32.17	1682626.15	14349231.77	39°30'51.5262"N	80°51'1.2173"W	5577.12	0.331	0.12	0.00	-0.12	
11972.00	90.120	341.340	6500.00	5359.93	5666.07	2.04	1682596.03	14349320.78	39°30'52.4067"N	80°51'1.5999"W	5666.07	0.021	0.10	-0.06	0.07	
12067.00	90.090	341.290	6499.83	5454.92	5756.06	-28.39	1682565.61	14349410.73	39°30'53.2966"N	80°51'1.9863"W	5756.13	359.717	0.06	-0.03	-0.05	
12162.00	90.340	341.200	6499.47	5549.92	5846.02	-58.94	1682535.08	14349500.65	39°30'54.1862"N	80°51'2.3741"W	5846.32	359.422	0.28	0.26	-0.09	
12257.00	90.520	340.540	6498.76	5644.92	5935.77	-90.07	1682503.96	14349590.37	39°30'55.0737"N	80°51'2.7694"W	5936.45	359.131	0.72	0.19	-0.69	



# Actual Wellpath Report

Kerns Unit 1H AWP Proj: 22923'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Kerns Unit 1H
Field	Tyler	API	47-095-02688-0000
Facility	Blizzard Pad	Wellbore	Kerns Unit 1H AWB
Slot	Slot #11		

WELLPATH DATA (262 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
12352.00	90.250	340.370	6498.12	5739.91	6025.29	-121.85	1682472.19	14349679.85	39°30'55.9590"N	80°51'3.1731"W	6026.53	358.841	0.34	-0.28	-0.18	
12447.00	90.310	340.300	6497.66	5834.90	6114.75	-153.82	1682440.23	14349769.28	39°30'56.8437"N	80°51'3.5791"W	6116.69	358.559	0.10	0.06	-0.07	
12541.00	89.910	340.090	6497.48	5928.89	6203.19	-185.67	1682408.40	14349857.68	39°30'57.7183"N	80°51'3.9836"W	6205.97	358.286	0.48	-0.43	-0.22	
12636.00	90.490	340.550	6497.15	6023.88	6292.64	-217.66	1682376.42	14349947.09	39°30'58.6029"N	80°51'4.3899"W	6296.40	358.019	0.78	0.61	0.48	
12731.00	89.850	339.810	6496.86	6118.87	6382.01	-249.87	1682344.22	14350036.43	39°30'59.4867"N	80°51'4.7990"W	6386.90	357.758	1.03	-0.67	-0.78	
12826.00	89.880	340.030	6497.09	6213.85	6471.24	-282.49	1682311.62	14350125.62	39°31'0.3691"N	80°51'5.2133"W	6477.40	357.500	0.23	0.03	0.23	
12921.00	89.940	340.790	6497.24	6308.84	6560.74	-314.34	1682279.78	14350215.08	39°31'1.2541"N	80°51'5.6179"W	6568.26	357.257	0.80	0.06	0.80	
13016.00	89.350	339.880	6497.83	6403.83	6650.19	-346.31	1682247.82	14350304.50	39°31'2.1388"N	80°51'6.0239"W	6659.20	357.019	1.14	-0.62	-0.96	
13111.00	90.740	341.050	6497.75	6498.82	6739.72	-378.07	1682216.07	14350394.00	39°31'3.0241"N	80°51'6.4273"W	6750.32	356.789	1.91	1.46	1.23	
13206.00	90.680	340.620	6496.57	6593.81	6829.45	-409.26	1682184.90	14350483.69	39°31'3.9115"N	80°51'6.8234"W	6841.70	356.571	0.46	-0.06	-0.45	
13301.00	90.430	340.060	6495.65	6688.79	6918.91	-441.22	1682152.95	14350573.11	39°31'4.7961"N	80°51'7.2293"W	6932.96	356.351	0.65	-0.26	-0.59	
13396.00	90.280	340.470	6495.06	6783.78	7008.33	-473.29	1682120.88	14350662.49	39°31'5.6804"N	80°51'7.6368"W	7024.29	356.136	0.46	-0.16	0.43	
13490.00	90.370	340.260	6494.53	6877.77	7096.86	-504.88	1682089.31	14350750.99	39°31'6.5559"N	80°51'8.0379"W	7114.79	355.931	0.24	0.10	-0.22	
13585.00	90.460	340.050	6493.84	6972.76	7186.21	-537.13	1682057.07	14350840.31	39°31'7.4395"N	80°51'8.4476"W	7206.26	355.725	0.24	0.09	-0.22	
13680.00	90.680	340.210	6492.90	7067.74	7275.55	-569.42	1682024.80	14350929.61	39°31'8.3230"N	80°51'8.8577"W	7297.80	355.525	0.29	0.23	0.17	
13775.00	90.460	340.550	6491.95	7162.73	7365.03	-601.32	1681992.92	14351019.06	39°31'9.2079"N	80°51'9.2628"W	7389.54	355.332	0.43	-0.23	0.36	
13869.00	90.220	340.200	6491.40	7256.72	7453.57	-632.89	1681961.36	14351107.56	39°31'10.0835"N	80°51'9.6638"W	7480.39	355.147	0.45	-0.26	-0.37	
13964.00	90.340	340.300	6490.93	7351.71	7542.98	-664.99	1681929.27	14351196.93	39°31'10.9677"N	80°51'10.0716"W	7572.24	354.962	0.16	0.13	0.11	
14059.00	90.680	340.620	6490.09	7446.70	7632.51	-696.76	1681897.51	14351286.42	39°31'11.8530"N	80°51'10.4752"W	7664.24	354.784	0.49	0.36	0.34	
14154.00	90.180	341.480	6489.37	7541.69	7722.35	-727.61	1681866.67	14351376.24	39°31'12.7415"N	80°51'10.8670"W	7756.56	354.617	1.05	-0.53	0.91	
14249.00	90.430	340.310	6488.87	7636.69	7812.12	-758.70	1681835.59	14351465.96	39°31'13.6291"N	80°51'11.2618"W	7848.87	354.453	1.26	0.26	-1.23	
14344.00	90.620	340.150	6488.00	7731.67	7901.52	-790.83	1681803.47	14351555.33	39°31'14.5132"N	80°51'11.6700"W	7940.99	354.285	0.26	0.20	-0.17	
14439.00	90.430	339.630	6487.13	7826.65	7990.72	-823.50	1681770.82	14351644.49	39°31'15.3954"N	80°51'12.0849"W	8033.04	354.116	0.58	-0.20	-0.55	
14533.00	90.460	340.410	6486.40	7920.63	8079.06	-855.61	1681738.72	14351732.80	39°31'16.2690"N	80°51'12.4929"W	8124.24	353.955	0.83	0.03	0.83	
14628.00	90.400	340.490	6485.68	8015.62	8168.58	-887.40	1681706.94	14351822.28	39°31'17.1542"N	80°51'12.8967"W	8216.64	353.800	0.11	-0.06	0.08	
14723.00	90.520	340.170	6484.92	8110.61	8258.03	-919.38	1681674.98	14351911.70	39°31'18.0388"N	80°51'13.3029"W	8309.05	353.647	0.36	0.13	-0.34	
14818.00	90.550	340.260	6484.03	8205.59	8347.42	-951.53	1681642.84	14352001.05	39°31'18.9228"N	80°51'13.7114"W	8401.48	353.497	0.10	0.03	0.09	
14913.00	90.460	339.860	6483.20	8300.57	8436.72	-983.93	1681610.45	14352090.32	39°31'19.8059"N	80°51'14.1229"W	8493.90	353.348	0.43	-0.09	-0.42	
15007.00	90.490	340.070	6482.42	8394.55	8525.03	-1016.13	1681578.26	14352178.59	39°31'20.6792"N	80°51'14.5320"W	8585.38	353.203	0.23	0.03	0.22	
15102.00	90.650	340.230	6481.47	8489.53	8614.38	-1048.39	1681546.02	14352267.91	39°31'21.5628"N	80°51'14.9418"W	8677.94	353.061	0.24	0.17	0.17	





# Actual Wellpath Report

Kerns Unit 1H AWP Proj: 22923'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Kerns Unit 1H
Field	Tyler	API	47-095-02688-0000
Facility	Blizzard Pad	Wellbore	Kerns Unit 1H AWB
Slot	Slot #11		

WELLPATH DATA (262 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
15197.00	90.180	339.570	6480.78	8584.51	8703.59	-1081.04	1681513.39	14352357.08	39°31'22.4450"N	80°51'15.3566"W	8770.47	352.920	0.85	-0.49	-0.69	
15292.00	90.580	340.160	6480.15	8679.48	8792.78	-1113.74	1681480.70	14352446.24	39°31'23.3271"N	80°51'15.7720"W	8863.04	352.781	0.75	0.42	0.62	
15387.00	90.220	340.220	6479.49	8774.47	8882.16	-1145.93	1681448.52	14352535.58	39°31'24.2109"N	80°51'16.1810"W	8955.78	352.649	0.38	-0.38	0.06	
15481.00	90.460	338.100	6478.93	8868.41	8970.00	-1179.37	1681415.09	14352623.39	39°31'25.0796"N	80°51'16.6059"W	9047.20	352.510	2.27	0.26	-2.26	
15576.00	90.030	339.670	6478.53	8963.33	9058.62	-1213.59	1681380.88	14352711.97	39°31'25.9560"N	80°51'17.0408"W	9139.55	352.369	1.71	-0.45	1.65	
15671.00	90.150	339.680	6478.38	9058.30	9147.71	-1246.59	1681347.90	14352801.02	39°31'26.8370"N	80°51'17.4601"W	9232.25	352.240	0.13	0.13	0.01	
15766.00	90.120	341.360	6478.15	9153.29	9237.26	-1278.27	1681316.23	14352890.54	39°31'27.7226"N	80°51'17.8625"W	9325.29	352.121	1.77	-0.03	1.77	
15861.00	89.940	341.140	6478.10	9248.29	9327.22	-1308.81	1681285.71	14352980.46	39°31'28.6122"N	80°51'18.2503"W	9418.60	352.012	0.30	-0.19	-0.23	
15956.00	90.280	341.700	6477.92	9343.29	9417.27	-1339.08	1681255.45	14353070.47	39°31'29.5026"N	80°51'18.6347"W	9512.00	351.907	0.69	0.36	0.59	
16145.00	90.520	341.870	6476.60	9532.27	9596.80	-1398.15	1681196.40	14353249.93	39°31'31.2779"N	80°51'19.3850"W	9698.11	351.711	0.16	0.13	0.09	
16240.00	90.220	341.510	6475.99	9627.27	9686.98	-1428.00	1681166.56	14353340.08	39°31'32.1697"N	80°51'19.7640"W	9791.67	351.614	0.49	-0.32	-0.38	
16335.00	90.710	341.430	6475.22	9722.26	9777.06	-1458.19	1681136.39	14353430.11	39°31'33.0604"N	80°51'20.1474"W	9885.20	351.517	0.52	0.52	-0.08	
16430.00	90.280	341.600	6474.40	9817.25	9867.15	-1488.31	1681106.28	14353520.17	39°31'33.9513"N	80°51'20.5299"W	9978.76	351.422	0.49	-0.45	0.18	
16524.00	90.310	341.840	6473.91	9911.25	9956.41	-1517.79	1681076.81	14353609.39	39°31'34.8339"N	80°51'20.9043"W	10071.43	351.332	0.26	0.03	0.26	
16619.00	90.430	340.720	6473.30	10006.24	10046.38	-1548.28	1681046.33	14353699.33	39°31'35.7236"N	80°51'21.2916"W	10164.98	351.239	1.19	0.13	-1.18	
16714.00	90.580	342.010	6472.46	10101.24	10136.39	-1578.63	1681015.99	14353789.31	39°31'36.6137"N	80°51'21.6771"W	10258.58	351.148	1.37	0.16	1.36	
16809.00	90.520	341.900	6471.55	10196.22	10226.71	-1608.06	1680986.57	14353879.59	39°31'37.5069"N	80°51'22.0508"W	10352.37	351.064	0.13	-0.06	-0.12	
16904.00	90.460	341.260	6470.74	10291.22	10316.84	-1638.08	1680956.57	14353969.69	39°31'38.3981"N	80°51'22.4320"W	10446.08	350.978	0.68	-0.06	-0.67	
16999.00	90.550	341.590	6469.90	10386.21	10406.89	-1668.34	1680926.32	14354059.70	39°31'39.2886"N	80°51'22.8164"W	10539.77	350.892	0.36	0.09	0.35	
17094.00	90.490	341.770	6469.04	10481.20	10497.07	-1698.20	1680896.47	14354149.84	39°31'40.1803"N	80°51'23.1956"W	10633.55	350.810	0.20	-0.06	0.19	
17189.00	90.310	341.630	6468.37	10576.19	10587.26	-1728.02	1680866.66	14354240.00	39°31'41.0722"N	80°51'23.5744"W	10727.36	350.730	0.24	-0.19	-0.15	
17283.00	90.710	342.220	6467.54	10670.18	10676.62	-1757.19	1680837.50	14354329.32	39°31'41.9558"N	80°51'23.9448"W	10820.26	350.654	0.76	0.43	0.63	
17378.00	90.340	341.870	6466.67	10765.16	10766.99	-1786.47	1680808.23	14354419.65	39°31'42.8494"N	80°51'24.3167"W	10914.19	350.579	0.54	-0.39	-0.37	
17473.00	90.430	341.910	6466.03	10860.15	10857.28	-1816.00	1680778.71	14354509.91	39°31'43.7423"N	80°51'24.6917"W	11008.11	350.505	0.10	0.09	0.04	
17568.00	90.490	342.050	6465.27	10955.14	10947.62	-1845.39	1680749.34	14354600.21	39°31'44.6356"N	80°51'25.0649"W	11102.06	350.432	0.16	0.06	0.15	
17663.00	90.460	341.920	6464.48	11050.12	11037.96	-1874.77	1680719.97	14354690.51	39°31'45.5289"N	80°51'25.4380"W	11196.04	350.360	0.14	-0.03	-0.14	
17758.00	90.310	341.770	6463.84	11145.11	11128.23	-1904.37	1680690.38	14354780.75	39°31'46.4215"N	80°51'25.8140"W	11290.00	350.289	0.22	-0.16	-0.16	
17853.00	90.310	341.750	6463.33	11240.10	11218.45	-1934.10	1680660.66	14354870.94	39°31'47.3137"N	80°51'26.1916"W	11383.96	350.218	0.02	0.00	-0.02	
17947.00	90.250	341.850	6462.87	11334.10	11307.75	-1963.46	1680631.31	14354960.20	39°31'48.1967"N	80°51'26.5645"W	11476.95	350.149	0.12	-0.06	0.11	
18042.00	90.280	341.600	6462.43	11429.09	11397.96	-1993.25	1680601.54	14355050.37	39°31'49.0887"N	80°51'26.9428"W	11570.93	350.081	0.27	0.03	-0.26	



# Actual Wellpath Report

Kerns Unit 1H AWP Proj: 22923'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Kerns Unit 1H
Field	Tyler	API	47-095-02688-0000
Facility	Blizzard Pad	Wellbore	Kerns Unit 1H AWB
Slot	Slot #11		

WELLPATH DATA (262 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
18137.00	90.400	342.060	6461.86	11524.08	11488.22	-2022.88	1680571.92	14355140.59	39°31'49.9812"N	80°51'27.3191"W	11664.96	350.014	0.50	0.13	0.48	
18232.00	90.430	341.810	6461.18	11619.07	11578.53	-2052.33	1680542.48	14355230.87	39°31'50.8743"N	80°51'27.6932"W	11759.02	349.949	0.27	0.03	-0.26	
18326.00	90.520	341.830	6460.40	11713.06	11667.84	-2081.66	1680513.16	14355320.14	39°31'51.7574"N	80°51'28.0657"W	11852.08	349.884	0.10	0.10	0.02	
18421.00	90.740	342.490	6459.35	11808.03	11758.26	-2110.76	1680484.07	14355410.53	39°31'52.6515"N	80°51'28.4353"W	11946.22	349.823	0.73	0.23	0.69	
18516.00	90.740	342.180	6458.12	11903.00	11848.78	-2139.59	1680455.26	14355501.01	39°31'53.5465"N	80°51'28.8014"W	12040.40	349.764	0.33	0.00	-0.33	
18611.00	90.520	341.960	6457.08	11997.98	11939.16	-2168.83	1680426.02	14355591.35	39°31'54.4403"N	80°51'29.1728"W	12134.55	349.704	0.33	-0.23	-0.23	
18706.00	90.580	342.410	6456.17	12092.96	12029.60	-2197.90	1680396.97	14355681.76	39°31'55.3346"N	80°51'29.5419"W	12228.73	349.646	0.48	0.06	0.47	
18801.00	90.580	341.730	6455.21	12187.94	12119.98	-2227.14	1680367.74	14355772.10	39°31'56.2283"N	80°51'29.9133"W	12322.91	349.588	0.72	0.00	-0.72	
18895.00	90.550	341.970	6454.28	12281.93	12209.30	-2256.42	1680338.47	14355861.38	39°31'57.1115"N	80°51'30.2852"W	12416.05	349.529	0.26	-0.03	0.26	
18990.00	90.430	342.070	6453.47	12376.91	12299.65	-2285.75	1680309.16	14355951.70	39°31'58.0050"N	80°51'30.6576"W	12510.24	349.472	0.16	-0.13	0.11	
19085.00	90.400	341.900	6452.78	12471.90	12389.99	-2315.12	1680279.79	14356042.01	39°31'58.8983"N	80°51'31.0308"W	12604.43	349.416	0.18	-0.03	-0.18	
19180.00	90.370	341.760	6452.14	12566.89	12480.25	-2344.75	1680250.18	14356132.23	39°31'59.7908"N	80°51'31.4071"W	12698.61	349.359	0.15	-0.03	-0.15	
19275.00	90.370	341.640	6451.53	12661.88	12570.45	-2374.58	1680220.36	14356222.39	39°32'0.6827"N	80°51'31.7860"W	12792.76	349.303	0.13	0.00	-0.13	
19370.00	90.580	341.790	6450.74	12756.88	12660.65	-2404.38	1680190.57	14356312.55	39°32'1.5746"N	80°51'32.1645"W	12886.93	349.247	0.27	0.22	0.16	
19465.00	90.460	341.870	6449.88	12851.86	12750.91	-2434.01	1680160.96	14356402.78	39°32'2.4672"N	80°51'32.5408"W	12981.14	349.193	0.15	-0.13	0.08	
19559.00	90.680	342.030	6448.94	12945.85	12840.28	-2463.13	1680131.85	14356492.11	39°32'3.3509"N	80°51'32.9107"W	13074.39	349.141	0.29	0.23	0.17	
19654.00	90.460	341.660	6448.00	13040.84	12930.54	-2492.73	1680102.26	14356582.34	39°32'4.2435"N	80°51'33.2867"W	13168.62	349.088	0.45	-0.23	-0.39	
19749.00	90.550	341.660	6447.16	13135.83	13020.71	-2522.62	1680072.38	14356672.48	39°32'5.1351"N	80°51'33.6664"W	13262.83	349.035	0.09	0.09	0.00	
19844.00	90.770	342.360	6446.07	13230.81	13111.06	-2551.96	1680043.05	14356762.79	39°32'6.0285"N	80°51'34.0391"W	13357.11	348.986	0.77	0.23	0.74	
19939.00	90.710	340.890	6444.84	13325.79	13201.21	-2581.90	1680013.12	14356852.90	39°32'6.9199"N	80°51'34.4195"W	13451.32	348.934	1.55	-0.06	-1.55	
20034.00	90.550	340.120	6443.79	13420.78	13290.76	-2613.60	1679981.43	14356942.41	39°32'7.8054"N	80°51'34.8223"W	13545.30	348.875	0.83	-0.17	-0.81	
20129.00	90.550	339.980	6442.88	13515.76	13380.05	-2646.02	1679949.03	14357031.67	39°32'8.6884"N	80°51'35.2342"W	13639.18	348.814	0.15	0.00	-0.15	
20224.00	90.400	340.060	6442.09	13610.74	13469.33	-2678.48	1679916.59	14357120.91	39°32'9.5713"N	80°51'35.6467"W	13733.07	348.753	0.18	-0.16	0.08	
20319.00	90.520	340.070	6441.33	13705.72	13558.64	-2710.87	1679884.21	14357210.18	39°32'10.4544"N	80°51'36.0584"W	13826.98	348.694	0.13	0.13	0.01	
20414.00	90.280	340.030	6440.67	13800.70	13647.93	-2743.28	1679851.81	14357299.44	39°32'11.3375"N	80°51'36.4703"W	13920.91	348.635	0.26	-0.25	-0.04	
20508.00	90.490	340.100	6440.04	13894.69	13736.30	-2775.33	1679819.77	14357387.77	39°32'12.2113"N	80°51'36.8776"W	14013.86	348.578	0.24	0.22	0.07	
20603.00	90.430	339.730	6439.27	13989.66	13825.52	-2807.95	1679787.16	14357476.96	39°32'13.0936"N	80°51'37.2922"W	14107.78	348.519	0.39	-0.06	-0.39	
20698.00	90.520	339.940	6438.49	14084.64	13914.69	-2840.70	1679754.43	14357566.10	39°32'13.9754"N	80°51'37.7084"W	14201.70	348.462	0.24	0.09	0.22	
20793.00	90.340	339.470	6437.77	14179.61	14003.79	-2873.65	1679721.49	14357655.16	39°32'14.8565"N	80°51'38.1272"W	14295.59	348.404	0.53	-0.19	-0.49	
20888.00	90.280	339.300	6437.26	14274.56	14092.71	-2907.10	1679688.06	14357744.04	39°32'15.7358"N	80°51'38.5524"W	14389.43	348.344	0.19	-0.06	-0.18	



# Actual Wellpath Report

Kerns Unit 1H AWP Proj: 22923'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Kerns Unit 1H
Field	Tyler	API	47-095-02688-0000
Facility	Blizzard Pad	Wellbore	Kerns Unit 1H AWB
Slot	Slot #11		

WELLPATH DATA (262 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
20983.00	90.370	339.900	6436.72	14369.53	14181.75	-2940.21	1679654.96	14357833.04	39°32'16.6163"N	80°51'38.9733"W	14483.33	348.287	0.64	0.09	0.63	
21078.00	90.340	340.470	6436.13	14464.51	14271.12	-2972.41	1679622.77	14357922.38	39°32'17.5001"N	80°51'39.3825"W	14577.38	348.235	0.60	-0.03	0.60	
21173.00	90.400	340.510	6435.52	14559.51	14360.66	-3004.14	1679591.05	14358011.89	39°32'18.3856"N	80°51'39.7857"W	14671.52	348.185	0.08	0.06	0.04	
21267.00	90.060	340.410	6435.14	14653.50	14449.25	-3035.58	1679559.63	14358100.44	39°32'19.2616"N	80°51'40.1853"W	14764.67	348.136	0.38	-0.36	-0.11	
21362.00	90.340	340.490	6434.81	14748.49	14538.77	-3067.37	1679527.85	14358189.93	39°32'20.1468"N	80°51'40.5892"W	14858.82	348.087	0.31	0.29	0.08	
21457.00	90.180	340.270	6434.38	14843.48	14628.25	-3099.27	1679495.96	14358279.37	39°32'21.0317"N	80°51'40.9946"W	14952.97	348.038	0.29	-0.17	-0.23	
21552.00	90.250	340.120	6434.02	14938.47	14717.63	-3131.46	1679463.79	14358368.72	39°32'21.9156"N	80°51'41.4037"W	15047.08	347.988	0.17	0.07	-0.16	
21647.00	90.400	340.210	6433.48	15033.46	14807.00	-3163.69	1679431.57	14358458.04	39°32'22.7993"N	80°51'41.8134"W	15141.20	347.939	0.18	0.16	0.09	
21742.00	90.400	340.190	6432.82	15128.44	14896.38	-3195.87	1679399.40	14358547.39	39°32'23.6831"N	80°51'42.2224"W	15235.34	347.891	0.02	0.00	-0.02	
21836.00	90.400	340.440	6432.16	15222.43	14984.88	-3227.53	1679367.75	14358635.86	39°32'24.5583"N	80°51'42.6248"W	15328.52	347.845	0.27	0.00	0.27	
21931.00	90.370	340.570	6431.53	15317.42	15074.43	-3259.23	1679336.06	14358725.37	39°32'25.4439"N	80°51'43.0277"W	15422.75	347.800	0.14	-0.03	0.14	
22026.00	90.280	340.250	6430.99	15412.42	15163.93	-3291.09	1679304.22	14358814.84	39°32'26.3289"N	80°51'43.4325"W	15516.96	347.755	0.35	-0.09	-0.34	
22121.00	90.400	340.550	6430.42	15507.41	15253.43	-3322.95	1679272.37	14358904.30	39°32'27.2139"N	80°51'43.8375"W	15611.18	347.710	0.34	0.13	0.32	
22216.00	90.460	340.580	6429.71	15602.40	15343.01	-3354.56	1679240.77	14358993.85	39°32'28.0997"N	80°51'44.2392"W	15705.45	347.667	0.07	0.06	0.03	
22311.00	90.430	340.510	6428.97	15697.39	15432.58	-3386.20	1679209.14	14359083.38	39°32'28.9855"N	80°51'44.6414"W	15799.72	347.624	0.08	-0.03	-0.07	
22406.00	90.520	340.460	6428.18	15792.38	15522.12	-3417.94	1679177.42	14359172.89	39°32'29.8709"N	80°51'45.0447"W	15893.98	347.582	0.11	0.09	-0.05	
22501.00	90.250	340.160	6427.55	15887.37	15611.57	-3449.94	1679145.43	14359262.29	39°32'30.7554"N	80°51'45.4515"W	15988.22	347.539	0.42	-0.28	-0.32	
22595.00	90.370	340.530	6427.04	15981.36	15700.09	-3481.56	1679113.82	14359350.78	39°32'31.6308"N	80°51'45.8533"W	16081.48	347.497	0.41	0.13	0.39	
22690.00	90.310	340.460	6426.47	16076.36	15789.64	-3513.28	1679082.11	14359440.29	39°32'32.5163"N	80°51'46.2565"W	16175.78	347.456	0.10	-0.06	-0.07	
22785.00	90.310	340.440	6425.96	16171.35	15879.16	-3545.07	1679050.34	14359529.78	39°32'33.4015"N	80°51'46.6605"W	16270.07	347.415	0.02	0.00	-0.02	
22880.00	90.370	340.610	6425.40	16266.34	15968.72	-3576.74	1679018.68	14359619.30	39°32'34.2872"N	80°51'47.0630"W	16364.39	347.375	0.19	0.06	0.18	
22923.00‡	90.370	340.610	6425.12	16309.34	16009.28	-3591.02	1679004.41	14359659.85	39°32'34.6882"N	80°51'47.2445"W	16407.09	347.357	0.00	0.00	0.00	Projected MD at TD: 22923'



# Actual Wellpath Report

Kerns Unit 1H AWP Proj: 22923'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Kerns Unit 1H
Field	Tyler	API	47-095-02688-0000
Facility	Blizzard Pad	Wellbore	Kerns Unit 1H AWB
Slot	Slot #11		

HOLE & CASING SECTIONS - Ref Wellbore: Kerns Unit 1H AWB Ref Wellpath: Kerns Unit 1H AWP Proj: 22923'									
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	105.50	80.00	25.50	105.50	0.00	0.00	-0.33	0.41
17.5in Open Hole	105.50	579.00	473.50	105.50	578.98	-0.33	0.41	-3.46	0.12
13.375in Casing Surface	25.50	557.60	532.10	25.50	557.58	0.00	0.00	-3.34	0.06
12.25in Open Hole	579.00	2698.00	2119.00	578.98	2614.71	-3.46	0.12	164.20	511.92
9.625in Casing Intermediate	25.50	2678.00	2652.50	25.50	2595.72	0.00	0.00	162.06	506.00
8.75in Open Hole	2698.00	6058.00	3360.00	2614.71	5795.12	164.20	511.92	435.50	1558.51
8.5in Open Hole	6058.00	22923.00	16865.00	5795.12	6425.12	435.50	1558.51	16009.28	-3591.02
5.5in Casing Production	25.50	22923.00	22897.50	25.50	6425.12	0.00	0.00	16009.28	-3591.02

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Kerns Unit 1H POE Rev-2	6503.00	1015.72	1565.51	1684158.87	14344672.28	39°30'6.4196"N	80°50'41.7532"W	point
Kerns Unit 1H BHL Rev-2	6526.00	15992.57	-3562.72	1679032.69	14359643.14	39°32'34.5226"N	80°51'46.8837"W	point
Kerns Unit 1H LP Rev-2	6526.00	1176.15	1510.57	1684103.96	14344832.65	39°30'8.0061"N	80°50'42.4504"W	point
Kerns Unit 1H 50' L/R Hard Line	6750.00	8503.64	-998.61	1681595.78	14352157.21	39°31'20.4675"N	80°51'14.3089"W	rectangle
2D Rectangle 15830.5 x 100.								



# Actual Wellpath Report

Kerns Unit 1H AWP Proj: 22923'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Kerns Unit 1H
Field	Tyler	API	47-095-02688-0000
Facility	Blizzard Pad	Wellbore	Kerns Unit 1H AWB
Slot	Slot #11		

WELLPATH COMPOSITION - Ref Wellbore: Kerns Unit 1H AWB Ref Wellpath: Kerns Unit 1H AWP Proj: 22923'						
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date	
25.50	480.00	Gyrodatta 2015 - GC+WIR+CAS	01 Gyrodatta MS Gyro <17-1/2"> (100'-480')	Kerns Unit 1H AWB	27/May/2020	
480.00	2623.00	BH NaviTrak (2019) (Axial)	02 APS EM <12-1/4"> (480')(600'-2623')	Kerns Unit 1H AWB	27/May/2020	
2623.00	5987.00	BH NaviTrak (2019) (Axial)	03 APS EM <8-3/4"> (2623')(2759'-5987')	Kerns Unit 1H AWB	10/Jul/2020	
5987.00	22923.00	BH AutoTrak Curve (2019) (Short spacing)	04 BH AT Curve <8-1/2"> (5987')(6034'-22880')	Kerns Unit 1H AWB	10/Jul/2020	



# Actual Wellpath Report

Kerns Unit 1H AWP Proj: 22923'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Kerns Unit 1H
Field	Tyler	API	47-095-02688-0000
Facility	Blizzard Pad	Wellbore	Kerns Unit 1H AWB
Slot	Slot #11		

COMMENTS
<p><b>Wellpath general comments</b> API: 47-095-02688-0000 BH Job #: 110423068-B Rig: H&amp;P 317 Duration: 5/29/2020-7/20/2020 Gyrodata MS Gyro &lt;17-1/2"&gt; (100'-480') APS EM &lt;12-1/4"&gt; (480')(600'-2623') APS EM &lt;8-3/4"&gt; (2623')(2759'-5987') BH AT Curve &lt;8-1/2"&gt; (5987')(6034'-22880') Middlesex: 6685' MD Burkett: 6860' MD Tully: 6915' MD Marcellus POE: 7082' MD Projected MD at TD: 22923'</p>