



**ANTERO RESOURCES CORPORATION**  
 Location: Tyler County, WV  
 Field: Tyler  
 Facility: Mckim Pad

API: 47-095-02369-0000  
 BH Job #: 8863513  
 Rig: Frontier 32  
 Duration: 11/21/17 - 11/23/17



Slot: Slot #02  
 Well: All Unit 2H  
 Wellbore: All Unit 2H PWB

Plot reference wellbore is: All Unit 2H PWB Rev-A.0

True vertical depths are referenced to Frontier 32 (RKB)	Grid System: NAD27 / UTM Zone 17 North, US feet
Measured depths are referenced to Frontier 32 (RKB)	North Reference: Grid north
Frontier 32 (RKB) to Mean Sea Level: 1204 feet	Scale: True distance
Mean Sea Level to Ground level (At Slot: Slot #02): -1172 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: mcrnrb on 2018-05-08
	Database: WA_MPL_EASTERNS.Dbf

Gyrodatta MS Gyro <12-1/4">(505)(560-713) : 0.31° Inc. 560.00ft MD, 560.00ft TVD, 0.87ft VS  
 Directional ONE MWD <12-1/4">(713)(770-2570) : 1.48° Inc. 770.00ft MD, 769.98ft TVD, 2.24ft VS

**Location Information**

Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Mckim Pad	1654145.557	14302331.123	39°23'08.110"N	80°57'05.080"W
Slot	Local N (ft)	Grid East (US ft)	Latitude	Longitude
Slot #02	-9.10	1654148.701	14302322.022	39°23'08.020"N
Frontier 32 (RKB) to Ground level (At Slot: Slot #02)			32ft	80°57'05.040"W
Mean Sea Level to Ground level (At Slot: Slot #02)			-1172ft	
Frontier 32 (RKB) to Mean Sea Level			1204ft	

Directional ONE MWD <8-3/4">(2570)(2697-6758) : 17.21° Inc. 2697.00ft MD, 2631.99ft TVD, -154.01ft VS

**Well Profile Data**

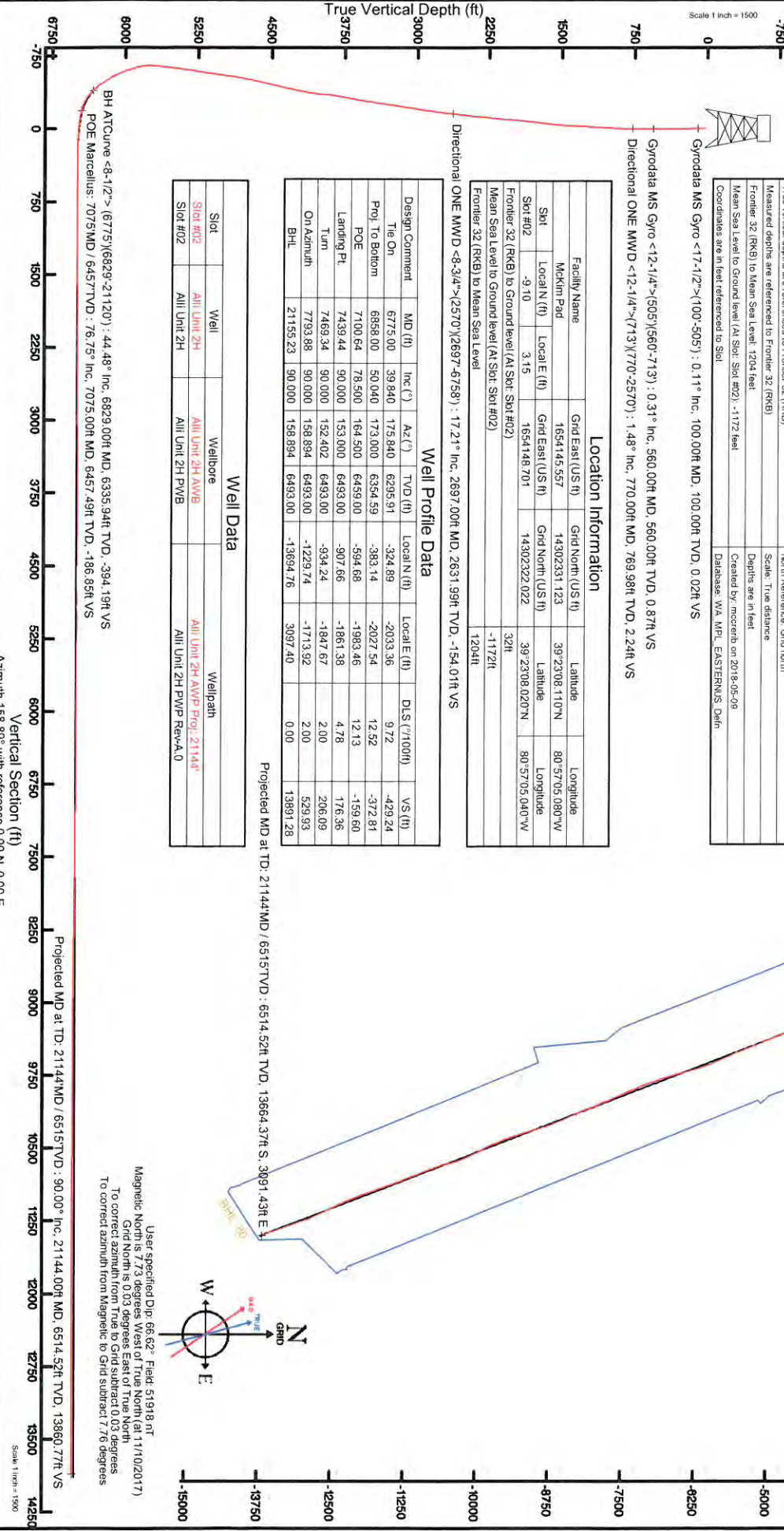
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
The On	6775.00	39.840	175.840	6295.91	-324.89	-2033.36	9.72	-429.24
Profl To Bottom	6858.00	50.040	173.000	6354.59	-383.14	-2027.54	12.52	-372.81
POE	7100.54	78.500	164.500	6459.00	-594.68	-1983.46	12.13	-159.60
Landing Pt	7439.44	90.000	153.000	6493.00	-907.66	-1881.38	4.78	176.36
Turn	7469.34	90.000	152.402	6493.00	-934.24	-1847.67	2.00	206.09
On Azimuth	7793.88	90.000	158.894	6493.00	-1229.74	-1713.92	2.00	529.93
BH#	21155.23	90.000	158.894	6493.00	-13694.76	3097.40	0.00	13891.28

Projected MD at TD: 21144.44 MD / 6515.52ft TVD, 13664.37ft S, 3091.43ft E

**Well Data**

Slot	Well	Wellbore	Wellpath
Slot #02	All Unit 2H	All Unit 2H A/W/B	All Unit 2H A/W/P Proj: 21144
Slot #02	All Unit 2H	All Unit 2H PWB	All Unit 2H PWB Rev-A.0

BH ATCure <8-1/2">(6775)(6829-21120) : 44.48° Inc. 6829.00ft MD, 6335.94ft TVD, -394.19ft VS  
 POE Marcellus: 7075MD / 6457TVD : 76.75° Inc. 7075.00ft MD, 6457.49ft TVD, -186.85ft VS



User specified Dip: 66.62° Field: 51918 nT  
 Magnetic North is 7.73 degrees West of True North (at 11/10/2017)  
 Grid North is 0.03 degrees East of True North  
 To correct azimuth from True to Grid subtract 0.03 degrees  
 To correct azimuth from Magnetic to Grid subtract 7.76 degrees

05/03/2019



# Actual Wellpath Report

Alli Unit 2H AWP Proj: 21144'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Tyler County, WV	Well	Alli Unit 2H
Field	Tyler	Wellbore	Alli Unit 2H AWB
Facility	McKim Pad		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect@ 5.1
North Reference	Grid	User	McCrerib
Scale	0.999600	Report Generated	5/9/2018 at 11:43:20 AM
Convergence at slot	0.03° East	Database/Source file	WA_MPL_EASTERNU.S Defn\Alli_Unit_2H_AWP_Proj_21144_.xml

	Local coordinates		Grid coordinates		Geographic coordinates	
	North(ft)	East(ft)	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-9.10	3.15	1654148.70	14302322.02	39°23'08.020"N	80°57'05.040"W
Facility Reference Pt			1654145.56	14302331.12	39°23'08.110"N	80°57'05.080"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.301"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Frontier 32 (RKB) to Facility Vertical Datum	32.00ft
Horizontal Reference Pt	Slot	Frontier 32 (RKB) to Mean Sea Level	1204.00ft
Vertical Reference Pt	Frontier 32 (RKB)	Frontier 32 (RKB) to Ground Level at Slot (Slot #02)	32.00ft
MD Reference Pt	Frontier 32 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	158.89°

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**Actual Wellpath Report**  
 All Unit 2H AWP Proj: 21144'  
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REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #02
Operator	ANTERO RESOURCES CORPORATION	Well	All Unit 2H
Area	Tyler County, WV	Wellbore	All Unit 2H AWB
Field	Tyler		
Facility	Mckim Pad		

WELLPATH DATA (268 stations) † = interpolated/extrapolated station															
MD	Inclination	TVD	Vert Secl	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
ft	°	ft	ft	ft	ft	US ft	US ft			ft	°	"/100ft	"/100ft	"/100ft	
0.00†	0.000	229.840	0.00	0.00	0.00	1654148.70	14302322.02	39°23'08.020"N	80°57'05.040"W	0.00	0.000	0.00	0.00	0.00	
32.00	0.000	229.840	32.00	0.00	0.00	1654148.70	14302322.02	39°23'08.020"N	80°57'05.040"W	0.00	0.000	0.00	0.00	0.00	
100.00†	0.112	229.840	100.00	0.02	-0.04	1654148.65	14302321.98	39°23'08.020"N	80°57'05.041"W	0.07	229.840	0.16	0.16	-191.41	Gyrodatta MS Gyro <17-1/2><(100'-505')
117.00	0.140	229.840	117.00	0.03	-0.07	1654148.62	14302321.96	39°23'08.019"N	80°57'05.043"W	0.10	229.840	0.16	0.16	0.00	
217.00	0.130	232.020	217.00	-0.11	-0.22	1654148.44	14302321.81	39°23'08.018"N	80°57'05.043"W	0.34	230.568	0.01	-0.01	2.18	
317.00	0.230	198.000	317.00	0.30	-0.48	1654148.29	14302321.54	39°23'08.015"N	80°57'05.045"W	0.63	220.387	0.15	0.10	-36.02	
417.00	0.160	225.950	417.00	0.51	-0.77	1654148.14	14302321.25	39°23'08.012"N	80°57'05.047"W	0.95	216.211	0.12	-0.07	29.95	
517.00	0.160	165.020	517.00	0.71	-1.00	1654148.07	14302321.02	39°23'08.010"N	80°57'05.048"W	1.18	212.073	0.16	0.00	-60.93	
522.00	0.140	168.860	522.00	0.72	-1.01	1654148.08	14302321.01	39°23'08.010"N	80°57'05.048"W	1.19	211.626	0.45	-0.40	76.80	
560.00†	0.313	164.612	560.00	0.87	-1.16	1654148.11	14302320.86	39°23'08.009"N	80°57'05.047"W	1.30	206.885	0.46	0.45	-11.18	Gyrodatta MS Gyro <12-1/4><(505')(560'-713')
577.00	0.390	163.930	577.00	0.97	-1.26	1654148.14	14302320.76	39°23'08.008"N	80°57'05.047"W	1.38	203.946	0.46	0.46	-4.01	
668.00	0.620	160.600	667.99	1.77	-2.02	1654148.39	14302320.00	39°23'08.000"N	80°57'05.044"W	2.04	188.715	0.25	0.25	-3.66	
730.00	0.650	225.210	729.99	2.25	-2.59	1654148.25	14302319.44	39°23'07.994"N	80°57'05.046"W	2.62	189.831	1.10	0.05	-1.13	
770.00†	1.480	260.371	769.98	2.24	-2.83	1654147.58	14302319.19	39°23'07.992"N	80°57'05.054"W	3.04	201.553	2.55	2.08	87.90	Directional ONE MWD <12-1/4><(713')(770'-2570')
787.00	1.890	285.200	786.98	2.12	-2.89	1654147.09	14302319.13	39°23'07.991"N	80°57'05.061"W	3.31	209.172	2.55	2.41	28.41	
847.00	3.890	273.980	846.90	0.98	-2.83	1654144.07	14302319.19	39°23'07.992"N	80°57'05.099"W	5.43	238.543	3.40	3.33	14.63	
937.00	5.400	278.990	936.60	-2.44	-1.96	1654138.85	14302320.06	39°23'08.001"N	80°57'05.191"W	12.02	260.619	1.74	1.67	5.57	
1026.00	6.890	277.780	1025.09	-7.12	-0.58	1654127.42	14302321.44	39°23'08.014"N	80°57'05.311"W	21.29	268.433	1.68	1.67	-1.36	
1114.00	7.880	275.020	1112.36	-12.33	0.66	1654116.19	14302322.68	39°23'08.027"N	80°57'05.454"W	32.53	271.163	1.19	1.13	-3.14	
1202.00	8.940	269.790	1199.41	-17.43	1.16	1654103.35	14302323.19	39°23'08.032"N	80°57'05.618"W	45.39	271.468	1.48	1.20	-5.94	
1290.00	10.270	265.840	1286.17	-22.15	0.57	1654088.69	14302322.59	39°23'08.026"N	80°57'05.805"W	60.04	270.543	1.69	1.51	-4.49	
1379.00	11.170	266.830	1373.62	-27.12	-0.48	1654072.18	14302321.54	39°23'08.016"N	80°57'06.015"W	76.56	269.638	1.03	1.01	1.11	
1467.00	12.630	269.880	1459.73	-33.19	-0.97	1654054.05	14302321.05	39°23'08.012"N	80°57'06.246"W	94.69	269.410	1.81	1.66	3.47	
1555.00	14.350	270.620	1545.30	-40.68	-0.88	1654033.53	14302321.15	39°23'08.013"N	80°57'06.507"W	118.31	269.683	1.98	1.95	0.84	
1643.00	16.080	269.970	1630.21	-49.10	-0.77	1654010.45	14302321.26	39°23'08.013"N	80°57'07.127"W	163.90	269.862	1.52	1.43	1.87	
1732.00	17.350	271.630	1715.45	-58.66	-0.39	1653984.87	14302321.63	39°23'08.017"N	80°57'07.461"W	190.08	270.055	0.27	-0.09	-0.84	
1820.00	17.270	270.890	1799.46	-68.63	0.18	1653958.70	14302322.20	39°23'08.019"N	80°57'07.786"W	216.36	269.936	1.25	0.27	-4.09	
1908.00	17.510	267.290	1883.44	-77.70	-0.24	1653932.43	14302321.78	39°23'08.012"N	80°57'07.966"W	243.11	269.432	1.43	0.56	-4.33	
1996.00	18.000	263.480	1967.75	-85.30	-0.41	1653905.70	14302319.61	39°23'07.997"N	80°57'08.136"W	243.11	269.432	1.43	0.56	-4.33	
2084.00	18.890	264.230	2050.73	-92.50	-0.39	1653878.03	14302316.64	39°23'07.988"N	80°57'08.489"W	270.83	268.860	1.05	1.01	0.85	

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**Actual Wellpath Report**  
Alli Unit 2H AWP Proj: 21144'  
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REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #02
Operator	ANTERO RESOURCES CORPORATION	Well	Alli Unit 2H
Area	Tyler County, WV	Wellbore	Alli Unit 2H AWP
Field	Tyler		
Facility	McKim Pad		

WELLPATH DATA (268 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	ft	°	"/100ft	"/100ft	"/100ft	
2173.00	20.110	265.910	2134.63	-100.79	-7.93	-307.37	1653848.45	14302314.10	39°23'07.943"N	80°57'08.866"W	300.48	268.488	1.51	1.37	1.89		
2261.00	20.470	265.840	2217.16	-109.70	-10.12	-330.81	1653818.02	14302311.80	39°23'07.922"N	80°57'09.253"W	330.97	268.247	0.41	0.41	-0.08		
2349.00	19.740	265.490	2299.80	-118.43	-12.41	-360.97	1653787.87	14302309.62	39°23'07.899"N	80°57'09.637"W	361.19	268.031	0.84	-0.83	-0.40		
2437.00	17.070	265.730	2383.29	-126.42	-14.54	-388.67	1653760.18	14302307.49	39°23'07.878"N	80°57'09.990"W	388.95	267.858	3.04	-3.03	0.27		
2526.00	16.940	266.900	2468.41	-134.86	-15.53	-414.67	1653734.20	14302306.50	39°23'07.869"N	80°57'10.321"W	414.96	267.855	1.38	-0.15	4.69		
2697.00†	17.208	270.707	2526.79	-141.58	-15.15	-432.33	1653716.54	14302307.81	39°23'07.873"N	80°57'10.546"W	432.60	267.993	1.33	-0.31	4.46		
2714.00	17.280	270.420	2548.23	-155.87	-14.17	-469.48	1653679.41	14302307.86	39°23'07.882"N	80°57'11.019"W	469.69	268.271	0.66	0.43	-1.69		Directional ONE MWD <-8.3/4>(2570)(2697-6758)
2758.00	17.130	269.100	2690.26	-160.50	-14.23	-482.49	1653666.40	14302307.80	39°23'07.882"N	80°57'11.185"W	482.70	268.311	0.95	-0.34	-3.00		
2864.00†	22.965	266.654	2789.66	-172.41	-15.62	-512.60	1653636.31	14302306.77	39°23'07.872"N	80°57'11.659"W	512.83	268.294	6.03	5.99	-2.13		
2935.00	25.090	264.600	2854.50	-180.71	-17.84	-547.97	1653600.95	14302304.19	39°23'07.847"N	80°57'12.019"W	548.26	268.135	3.22	2.99	-2.89		
2991.00†	25.283	266.692	2905.18	-187.59	-19.65	-571.73	1653577.20	14302302.38	39°23'07.829"N	80°57'12.322"W	572.07	268.032	1.63	0.34	3.74		Gordon. 2991 MWD / 2905 TVD
3024.00	25.410	267.910	2935.00	-192.05	-20.31	-585.84	1653526.09	14302301.72	39°23'07.822"N	80°57'12.501"W	586.19	268.014	1.63	0.39	3.69		
3112.00	24.610	271.790	3014.75	-205.33	-20.43	-623.03	1653526.92	14302301.60	39°23'07.821"N	80°57'12.975"W	623.36	268.122	2.07	-0.91	4.41		
3200.00	24.280	267.160	3094.87	-218.13	-20.75	-659.42	1653489.55	14302301.28	39°23'07.818"N	80°57'13.438"W	659.74	268.197	2.21	-0.37	-5.26		
3298.00	25.210	271.590	3174.80	-231.04	-21.13	-696.22	1653452.76	14302300.90	39°23'07.815"N	80°57'13.907"W	696.54	268.262	2.36	1.06	5.03		
3350.00†	25.043	269.791	3230.93	-240.82	-20.81	-722.55	1653426.45	14302301.22	39°23'07.818"N	80°57'14.242"W	722.84	268.350	1.26	-0.27	-2.90		Fifth Sand. 3350 MWD / 3231 TVD
3376.00	24.980	269.030	3254.49	-244.67	-20.92	-733.64	1653415.46	14302301.11	39°23'07.817"N	80°57'14.382"W	733.84	268.366	1.26	-0.24	-2.93		
3464.00	23.970	263.340	3334.60	-255.53	-23.31	-769.88	1653379.13	14302298.72	39°23'07.794"N	80°57'14.845"W	770.23	268.266	2.91	-1.15	-6.47		
3552.00	23.870	268.420	3415.05	-265.94	-23.88	-805.43	1653343.59	14302296.16	39°23'07.768"N	80°57'15.298"W	805.85	268.160	2.34	0.14	5.77		
3640.00	23.990	272.970	3495.49	-279.20	-25.44	-841.10	1653307.94	14302296.59	39°23'07.773"N	80°57'16.681"W	841.49	268.268	2.10	0.14	5.17		
3729.00	23.890	269.190	3576.84	-292.83	-24.76	-877.19	1653271.86	14302297.27	39°23'07.780"N	80°57'16.212"W	877.54	268.383	1.74	-0.11	4.27		
3817.00	26.630	272.320	3656.75	-306.57	-24.25	-910.04	1653235.04	14302297.82	39°23'07.790"N	80°57'16.895"W	910.15	268.537	2.48	1.98	3.58		
3866.00†	25.467	270.943	3691.94	-313.07	-23.77	-934.84	1653211.86	14302298.29	39°23'07.785"N	80°57'17.163"W	931.15	268.537	1.58	-0.42	-3.53		Warren 3866 MWD / 3692 TVD
3905.00	25.280	269.190	3736.21	-320.66	-23.75	-951.84	1653197.25	14302298.99	39°23'07.785"N	80°57'17.685"W	952.13	268.547	1.58	-0.38	-3.58		
3993.00	25.940	269.190	3815.56	-333.86	-24.28	-982.89	1653159.23	14302297.75	39°23'07.785"N	80°57'18.647"W	990.17	268.595	0.75	0.75	0.00		
4082.00	24.960	265.370	3895.93	-345.94	-26.08	-1028.85	1653121.06	14302295.92	39°23'07.768"N	80°57'18.133"W	1028.38	268.547	2.15	-1.10	-4.29		
4170.00	23.480	259.570	3976.20	-354.46	-30.75	-1063.81	1653086.32	14302291.29	39°23'07.722"N	80°57'18.589"W	1064.25	268.344	3.18	-1.68	-6.59		
4258.00	24.280	268.230	4056.69	-363.70	-34.48	-1099.15	1653050.00	14302287.55	39°23'07.685"N	80°57'19.039"W	1099.69	268.203	4.08	0.91	9.84		

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Actual Wellpath Report  
Alli Unit 2H AWP Proj: 21144'  
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REFERENCE WELLPATH IDENTIFICATION				Slot	Slot #02
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Area	Tyler County, WV			Wellbore	Alli Unit 2H AWP
Field	Tyler				
Facility	McKim Pad				

WELLPATH DATA (268 stations) † = interpolated/extrapolated station																		
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ft/l	°	°	ft/l	ft/l	ft/l	ft/l	US ft	US ft			ft/l	°	°/100ft	°/100ft	°/100ft			
4282.00†	24.365	268.979	4078.56	-367.03	-34.72	-1109.03	1653040.12	14302287.31	39°23'07.682"N	80°57'19.165"W	1109.57	268.207	1.33	0.35	3.17	Spechly: 4282M/D / 4079TVD		
4346.00	24.610	270.950	4136.80	-376.57	-34.74	-1135.55	1653013.61	14302287.30	39°23'07.682"N	80°57'19.502"W	1136.08	268.248	1.33	0.38	3.08			
4434.00	24.500	273.020	4216.84	-390.91	-33.47	-1172.09	1652977.08	14302288.56	39°23'07.695"N	80°57'19.966"W	1172.57	268.364	0.99	-0.13	2.35			
4522.00	25.610	278.690	4296.57	-407.83	-29.64	-1209.12	1652940.06	14302292.40	39°23'07.733"N	80°57'20.439"W	1209.49	268.596	3.00	1.26	6.44			
4596.00†	26.636	278.385	4363.01	-423.94	-24.80	-1241.34	1652907.86	14302297.23	39°23'07.781"N	80°57'20.850"W	1241.59	268.855	1.40	1.39	-0.41	Balltown 4596M/D / 4363TVD		
4610.00	26.830	278.330	4373.52	-427.04	-23.89	-1247.57	1652901.63	14302298.15	39°23'07.790"N	80°57'20.929"W	1247.80	268.903	1.40	1.39	-0.39			
4699.00	25.680	276.180	4455.34	-445.76	-18.90	-1286.62	1652862.60	14302303.13	39°23'07.840"N	80°57'21.426"W	1286.76	269.158	1.68	-1.29	-2.42			
4787.00	26.900	275.810	4534.23	-463.51	-14.83	-1325.38	1652823.85	14302307.20	39°23'07.880"N	80°57'21.920"W	1325.47	269.359	1.40	1.39	-0.42			
4875.00	28.160	275.470	4612.27	-481.82	-10.84	-1365.88	1652783.39	14302311.19	39°23'07.920"N	80°57'22.436"W	1365.90	269.545	1.44	1.43	-0.39			
4964.00	27.130	273.540	4691.11	-499.68	-7.58	-1407.02	1652742.24	14302314.44	39°23'07.962"N	80°57'22.960"W	1407.04	269.691	1.53	-1.16	-2.17			
5023.00†	26.088	272.381	4743.86	-510.46	-6.21	-1433.41	1652715.87	14302315.81	39°23'07.966"N	80°57'23.296"W	1433.43	269.752	1.97	-1.77	-1.98	Bradford: 5023M/D / 4744TVD		
5052.00	25.580	271.780	4769.96	-515.44	-5.75	-1446.04	1652703.24	14302316.27	39°23'07.970"N	80°57'23.457"W	1446.05	269.772	1.97	-1.75	-2.07			
5140.00	24.610	269.380	4849.65	-529.24	-5.36	-1483.35	1652665.94	14302316.66	39°23'07.974"N	80°57'23.932"W	1483.36	269.793	1.60	-1.10	-2.73			
5228.00	25.270	267.850	4929.45	-541.76	-6.26	-1520.45	1652628.87	14302315.76	39°23'07.966"N	80°57'24.404"W	1520.46	269.764	1.05	0.75	-1.74			
5317.00	26.420	267.700	5009.54	-554.32	-7.77	-1559.21	1652590.11	14302314.25	39°23'07.951"N	80°57'24.898"W	1559.23	269.714	1.29	1.29	-0.17			
5405.00	25.250	263.870	5088.75	-565.48	-10.56	-1597.44	1652551.90	14302311.46	39°23'07.924"N	80°57'25.385"W	1597.48	269.621	2.32	-1.33	-4.35			
5433.00†	25.826	264.255	5113.12	-568.53	-11.77	-1609.02	1652540.33	14302310.26	39°23'07.912"N	80°57'25.532"W	1609.06	269.581	2.22	2.13	1.43	Benson: 5432M/D / 5113TVD		
5493.00	27.130	265.070	5167.72	-575.92	-14.29	-1636.10	1652513.26	14302307.74	39°23'07.887"N	80°57'25.877"W	1636.16	269.500	2.22	2.14	1.34			
5582.00	27.300	268.250	5246.87	-588.35	-16.66	-1676.72	1652472.66	14302305.37	39°23'07.864"N	80°57'26.395"W	1676.80	269.431	1.65	0.19	3.57			
5670.00	26.520	265.580	5325.24	-600.68	-18.79	-1716.48	1652432.91	14302303.24	39°23'07.843"N	80°57'26.901"W	1716.58	269.373	1.63	-0.89	-3.03			
5680.00†	26.574	265.671	5334.29	-601.97	-19.13	-1720.94	1652428.46	14302302.90	39°23'07.840"N	80°57'26.956"W	1721.04	269.363	0.67	0.54	0.91	Alexander: 5680M/D / 5334TVD		
5759.00	27.000	266.380	5404.81	-612.46	-21.60	-1756.45	1652392.95	14302300.44	39°23'07.815"N	80°57'27.410"W	1756.59	269.296	0.67	0.54	0.90			
5847.00	26.100	264.130	5483.53	-623.55	-24.84	-1795.65	1652353.78	14302297.20	39°23'07.783"N	80°57'27.909"W	1795.82	269.208	1.53	-1.02	-2.56			
5905.00†	26.501	262.417	5535.75	-629.82	-27.79	-1820.71	1652328.52	14302294.24	39°23'07.754"N	80°57'28.329"W	1820.93	269.126	1.65	-1.03	-2.95	Elk: 5905M/D / 5536TVD		
5939.00	25.190	261.470	5563.77	-632.82	-29.65	-1833.85	1652315.58	14302292.39	39°23'07.736"N	80°57'28.396"W	1834.09	269.074	1.65	-1.00	-3.05			
6024.00	24.950	264.660	5643.48	-641.88	-34.22	-1870.85	1652278.60	14302287.82	39°23'07.691"N	80°57'28.867"W	1871.16	268.952	1.47	-0.27	3.40			
6112.00	23.600	255.580	5723.72	-648.92	-40.30	-1906.40	1652242.50	14302281.66	39°23'07.650"N	80°57'29.320"W	1906.82	268.786	0.87	-1.53	-10.09			
6156.00	23.820	244.780	5764.03	-649.31	-46.46	-1922.97	1652226.50	14302275.66	39°23'07.571"N	80°57'29.531"W	1923.53	268.618	0.87	0.50	-24.55			
6201.00	24.920	234.490	5805.04	-646.30	-55.76	-1938.92	1652210.56	14302266.28	39°23'07.478"N	80°57'29.734"W	1939.72	268.353	0.73	2.44	-22.87			
6245.00	25.670	222.680	5844.84	-639.78	-68.16	-1952.93	1652196.55	14302253.89	39°23'07.356"N	80°57'29.913"W	1954.12	268.001	1.58	1.70	-26.84			



# Actual Wellpath Report

Alli Unit 2H AWP Proj: 21144'  
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REFERENCE WELLPATH IDENTIFICATION											
Operator	ANTERO RESOURCES CORPORATION										
Area	Tyler County, WV										
Field	Tyler										
Facility	McKlim Pad										
Slot #02	Alli Unit 2H										
Wellbore	Alli Unit 2H AWP										

WELLPATH DATA (268 stations) † = Interpolated/Extrapolated station																
MD	Inclination	Asimuth	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	°	ft/100ft	°/100ft		
6262.00†	26.283	220.048	5860.13	-636.34	-73.75	-1967.85	1652191.64	14302248.30	39°23'07.30"N	80°57'29.975"W	1959.24	267.843	7.68	3.61	-13.49	Rhinestreet 6262MD / 5860TVD
6289.00	27.350	216.100	5884.22	-630.09	-83.34	-1965.35	1652184.14	14302238.72	39°23'07.206"N	80°57'30.071"W	1967.12	267.572	7.68	3.95	-14.61	
6333.00	27.880	212.960	5923.21	-618.58	-100.14	-1976.91	1652172.59	14302221.92	39°23'07.040"N	80°57'30.218"W	1979.44	267.100	3.52	1.20	-7.14	
6377.00	28.140	209.790	5962.06	-606.00	-117.78	-1987.66	1652161.84	14302204.29	39°23'06.865"N	80°57'30.355"W	1991.15	266.609	3.43	0.59	-7.20	
6421.00	28.440	207.990	6000.81	-592.60	-136.03	-1997.73	1652151.77	14302186.04	39°23'06.885"N	80°57'30.484"W	2002.36	266.104	2.06	0.68	-4.09	
6466.00	28.830	204.980	6040.31	-578.06	-155.33	-2007.34	1652142.17	14302166.75	39°23'06.495"N	80°57'30.606"W	2013.34	265.575	3.32	0.87	-6.69	
6510.00	29.730	197.000	6078.70	-562.11	-175.39	-2015.02	1652134.50	14302146.70	39°23'06.285"N	80°57'30.704"W	2022.63	265.025	3.10	2.05	-18.14	
6554.00	31.910	193.550	6116.49	-543.95	-197.13	-2020.93	1652128.58	14302124.97	39°23'06.082"N	80°57'30.807"W	2030.52	264.429	6.38	4.95	-7.84	
6598.00	32.970	188.290	6153.63	-523.95	-220.29	-2025.38	1652124.13	14302101.82	39°23'05.853"N	80°57'30.836"W	2037.33	263.793	6.85	2.41	-11.95	
6642.00	35.310	187.950	6190.04	-502.41	-244.74	-2028.87	1652120.65	14302077.39	39°23'05.611"N	80°57'30.881"W	2043.58	263.122	5.34	5.32	-0.77	
6687.00	36.230	186.090	6226.55	-479.21	-270.84	-2032.08	1652117.44	14302051.29	39°23'05.353"N	80°57'30.922"W	2050.05	262.408	3.16	2.04	-4.13	
6700.00†	36.726	184.835	6237.01	-472.30	-278.53	-2032.81	1652116.71	14302043.60	39°23'05.277"N	80°57'30.931"W	2051.81	262.188	6.89	3.82	-9.66	Sycamore 6700MD / 6237TVD
6731.00	37.960	181.960	6261.65	-455.19	-297.30	-2033.92	1652115.60	14302024.84	39°23'05.092"N	80°57'30.886"W	2055.53	261.684	6.89	3.98	-9.28	
6775.00	39.840	175.840	6296.91	-429.24	-324.89	-2033.36	1652116.16	14301997.26	39°23'04.819"N	80°57'30.939"W	2059.15	260.922	9.72	4.27	-13.91	
6825.00†	44.130	171.572	6333.07	-396.92	-358.11	-2029.65	1652119.87	14301964.06	39°23'04.491"N	80°57'30.891"W	2061.00	259.994	10.30	8.58	-8.54	Middlesex 6825MD / 6333TVD
6829.00	44.480	171.260	6335.94	-394.19	-360.87	-2029.23	1652120.29	14301961.30	39°23'04.463"N	80°57'30.886"W	2061.07	259.916	10.30	8.74	-7.81	BH ATCurve <8-1/2"> (6775)(6829-21120)
6853.00	46.310	168.840	6352.79	-377.43	-377.70	-2026.27	1652123.24	14301944.48	39°23'04.297"N	80°57'30.849"W	2061.17	259.441	10.47	7.63	-10.08	
6899.00	51.440	166.980	6383.03	-343.22	-411.56	-2018.99	1652130.52	14301910.63	39°23'03.962"N	80°57'30.756"W	2060.52	258.478	11.56	11.15	-11.56	
6947.00	58.880	166.860	6410.44	-304.24	-449.91	-2010.08	1652139.43	14301872.30	39°23'03.583"N	80°57'30.643"W	2059.82	257.384	15.50	15.50	-0.25	
6977.00†	63.393	166.914	6424.91	-278.22	-475.49	-2004.12	1652145.38	14301846.72	39°23'03.330"N	80°57'30.567"W	2059.76	256.653	15.05	15.04	0.18	Burket 6977MD / 6425TVD
6992.00	65.650	166.940	6431.37	-254.82	-488.68	-2001.06	1652148.44	14301833.54	39°23'03.200"N	80°57'30.528"W	2059.87	256.276	15.05	15.04	0.17	
7042.00	73.180	166.420	6448.93	-218.47	-534.19	-1990.28	1652159.22	14301788.04	39°23'02.750"N	80°57'30.391"W	2060.72	254.976	15.09	15.06	-1.04	
7045.00†	73.504	166.335	6449.79	-215.63	-536.99	-1989.60	1652159.90	14301785.25	39°23'02.722"N	80°57'30.383"W	2060.80	254.866	11.14	10.80	-2.83	Tully 7045MD / 6450TVD
7075.00†	76.746	165.501	6457.49	-186.85	-565.11	-1982.55	1652166.90	14301757.14	39°23'02.445"N	80°57'30.293"W	2061.51	254.090	11.14	10.81	-2.78	POE Marcellus 7075MD / 6457TVD
7099.00	78.260	165.120	6460.52	-173.27	-578.33	-1979.08	1652170.41	14301743.93	39°23'02.314"N	80°57'30.249"W	2061.85	253.711	11.14	10.81	-2.72	
7138.00	79.980	163.840	6469.77	-125.38	-624.69	-1966.21	1652183.28	14301697.99	39°23'01.866"N	80°57'30.085"W	2063.06	252.374	4.35	3.51	-2.61	
7185.00	81.820	162.730	6477.21	-79.11	-669.13	-1952.86	1652196.63	14301653.16	39°23'01.416"N	80°57'29.915"W	2064.31	251.066	4.56	3.91	-2.36	
7232.00	83.530	162.190	6483.20	-32.59	-713.58	-1938.81	1652210.67	14301608.73	39°23'00.977"N	80°57'29.737"W	2065.96	249.784	3.81	3.64	-1.15	
7279.00	85.190	161.030	6487.82	14.13	-757.96	-1924.05	1652225.42	14301564.37	39°23'00.538"N	80°57'29.549"W	2067.97	248.499	4.30	3.53	-2.47	
7327.00	87.080	159.350	6491.05	62.00	-803.01	-1907.82	1652224.64	14301519.33	39°23'00.093"N	80°57'29.343"W	2069.93	247.173	5.26	3.94	-3.50	

05/03/2019



# Actual Wellpath Report

Alli Unit 2H AWP Proj: 21144'  
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REFERENCE WELLPATH IDENTIFICATION									
Operator	ANTERO RESOURCES CORPORATION								
Area	Tyler County, WV								
Field	Tyler								
Facility	McKim Pad								

WELLPATH DATA (268 stations)																
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Built Rate	Turn Rate	Comments
ft	°	°	ft	ft	ft	ft	ft	ft			ft	°	ft/100ft	ft/100ft	ft/100ft	
7374.00	88.830	158.390	6492.73	108.97	-848.82	-1890.89	1652258.57	14301478.54	39°22'59.660"N	80°57'29.127"W	2071.86	245.875	4.25	3.72	-2.04	
7422.00	89.850	158.780	6493.28	156.97	-891.51	-1873.37	1652276.09	14301430.87	39°22'59.218"N	80°57'28.804"W	2074.68	244.551	2.28	2.12	0.81	
7517.00	89.630	155.500	6493.71	251.91	-979.03	-1836.47	1652312.97	14301343.38	39°22'58.353"N	80°57'28.435"W	2081.13	241.938	3.46	-0.23	-3.45	
7612.00	89.880	155.530	6494.12	346.74	-1065.49	-1797.10	1652352.33	14301256.96	39°22'57.498"N	80°57'27.934"W	2089.21	239.337	0.27	0.26	0.03	
7706.00	90.250	154.990	6494.01	440.55	-1150.86	-1757.76	1652391.65	14301171.63	39°22'56.654"N	80°57'27.433"W	2101.00	236.786	0.70	0.39	-0.57	
7801.00	90.120	153.950	6493.71	536.27	-1236.58	-1716.81	1652432.58	14301085.94	39°22'55.867"N	80°57'26.913"W	2115.79	234.286	1.10	-0.14	-1.09	
7896.00	90.030	152.770	6493.58	629.82	-1321.50	-1674.22	1652475.16	14301001.06	39°22'54.967"N	80°57'26.571"W	2132.92	231.715	1.25	-0.09	-1.24	
7990.00	90.060	154.500	6493.51	723.43	-1405.71	-1632.48	1652516.88	14300916.87	39°22'54.135"N	80°57'25.840"W	2154.30	229.268	1.84	0.03	1.84	
8085.00	90.060	156.640	6493.41	818.26	-1492.20	-1593.19	1652556.15	14300830.42	39°22'53.280"N	80°57'25.340"W	2182.87	226.875	2.25	0.00	2.25	
8178.00	90.090	155.800	6493.29	911.16	-1577.31	-1555.89	1652593.64	14300745.35	39°22'52.438"N	80°57'24.863"W	2215.41	224.605	0.90	0.03	-0.90	
8273.00	90.030	156.350	6493.19	1006.04	-1664.14	-1517.16	1652632.15	14300658.55	39°22'51.580"N	80°57'24.373"W	2251.92	222.355	0.58	-0.06	0.58	
8368.00	89.910	159.100	6493.24	1101.02	-1752.05	-1481.16	1652668.14	14300570.68	39°22'50.711"N	80°57'23.915"W	2294.23	220.211	2.90	-0.13	2.89	
8462.00	89.750	159.830	6493.52	1195.01	-1840.07	-1448.18	1652701.10	14300482.69	39°22'49.841"N	80°57'23.495"W	2341.60	218.204	0.80	-0.17	0.78	
8557.00	90.180	161.530	6493.57	1289.96	-1929.72	-1416.75	1652732.52	14300393.08	39°22'48.955"N	80°57'23.095"W	2393.95	216.285	1.85	0.45	1.79	
8651.00	90.250	162.620	6493.22	1383.81	-2019.15	-1387.82	1652761.44	14300303.68	39°22'48.071"N	80°57'22.728"W	2450.11	214.502	1.16	0.07	1.16	
8746.00	90.280	163.080	6492.78	1478.58	-2109.93	-1359.81	1652789.44	14300212.94	39°22'47.173"N	80°57'22.571"W	2510.16	212.801	0.49	0.03	0.48	
8841.00	90.370	163.620	6492.24	1573.29	-2200.94	-1332.59	1652816.65	14300121.96	39°22'46.274"N	80°57'22.025"W	2572.93	211.193	0.58	0.09	0.57	
8935.00	90.280	160.070	6491.71	1667.15	-2290.25	-1303.31	1652845.92	14300032.69	39°22'45.391"N	80°57'21.653"W	2635.12	209.643	3.78	-0.10	-3.78	
9030.00	90.370	156.030	6491.17	1762.12	-2378.34	-1267.80	1652881.41	14299944.64	39°22'44.520"N	80°57'21.201"W	2695.15	208.060	4.25	0.09	-4.25	
9126.00	90.220	155.850	6490.68	1857.99	-2466.00	-1228.67	1652920.53	14299857.01	39°22'43.653"N	80°57'20.704"W	2755.14	206.484	0.24	-0.16	-0.19	
9220.00	90.280	155.730	6490.27	1951.85	-2551.73	-1190.12	1652959.06	14299771.32	39°22'42.806"N	80°57'20.213"W	2815.62	205.004	0.14	0.06	-0.13	
9315.00	90.180	156.040	6489.89	2046.72	-2638.44	-1151.31	1652997.88	14299684.64	39°22'41.949"N	80°57'19.719"W	2878.69	203.574	0.34	-0.11	0.33	
9410.00	89.850	156.920	6489.86	2141.64	-2725.55	-1113.39	1653035.75	14299597.57	39°22'41.088"N	80°57'19.237"W	2944.19	202.220	0.99	-0.35	0.93	
9505.00	90.220	162.610	6489.80	2236.59	-2814.65	-1080.85	1653068.59	14299510.51	39°22'40.319"N	80°57'18.468"W	2994.42	201.002	6.00	0.39	5.99	
9599.00	90.220	163.140	6489.44	2330.36	-2904.48	-1052.87	1653098.25	14299428.71	39°22'39.319"N	80°57'18.468"W	3089.42	199.926	0.56	0.00	0.56	
9694.00	90.150	159.810	6489.14	2425.25	-2994.54	-1022.69	1653126.42	14299328.68	39°22'38.428"N	80°57'18.084"W	3164.36	198.856	3.51	-0.07	-3.51	
9788.00	89.880	156.040	6489.11	2519.22	-3081.64	-987.34	1653161.73	14299241.62	39°22'37.568"N	80°57'17.635"W	3235.95	197.766	4.02	-0.29	-4.01	
9883.00	90.250	152.770	6488.90	2613.91	-3167.30	-946.94	1653202.47	14299155.99	39°22'36.721"N	80°57'17.113"W	3306.66	196.635	3.46	0.39	-3.44	
9977.00	90.250	153.140	6488.59	2707.41	-3251.02	-903.60	1653245.74	14299072.31	39°22'35.893"N	80°57'16.569"W	3374.26	195.533	0.39	0.00	0.39	
10071.00	90.180	159.440	6488.24	2801.26	-3337.04	-865.82	1653283.23	14298986.82	39°22'35.043"N	80°57'16.088"W	3447.54	194.545	6.70	-0.07	6.70	

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**Actual Wellpath Report**  
Alli Unit 2H AWP Proj: 21144'  
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REFERENCE WELLPATH IDENTIFICATION									
Operator	ANTERO RESOURCES CORPORATION								
Area	Tyler County, WV								
Field	Tyler								
Facility	McKlim Pad								
Slot	Well								
Wellbore	Wellbore								
Slot #02	Alli Unit 2H								
	Alli Unit 2H AWP								

WELLPATH DATA (268 stations)																
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
ft	°	°	ft	ft	ft	ft	ft	ft	ft	ft	ft	°	ft/100ft	ft/100ft	ft/100ft	
10166.00	90.150	161.820	6487.97	2896.21	-3426.66	-834.31	1653314.72	14298896.74	39°22'34.15"N	80°57'15.688"W	3526.77	193.684	2.51	-0.03	2.51	
10261.00	90.400	162.460	6487.51	2991.06	-3517.08	-805.18	1653343.85	14298806.36	39°22'33.263"N	80°57'15.317"W	3608.07	192.895	0.72	0.26	0.67	
10356.00	90.220	164.830	6487.00	3085.72	-3608.23	-778.43	1653370.59	14298715.24	39°22'32.362"N	80°57'14.977"W	3691.24	192.174	2.50	-0.19	2.49	
10450.00	89.970	164.400	6486.84	3179.25	-3698.86	-753.49	1653395.51	14298624.65	39°22'31.466"N	80°57'14.660"W	3774.83	191.514	0.53	-0.27	-0.46	
10545.00	90.120	164.340	6486.77	3273.82	-3790.35	-727.89	1653421.10	14298533.20	39°22'30.562"N	80°57'14.335"W	3859.61	190.871	0.17	0.16	-0.06	
10639.00	90.000	163.230	6486.67	3367.48	-3880.61	-701.65	1653447.34	14298442.98	39°22'29.669"N	80°57'14.001"W	3943.53	190.249	1.19	-0.13	-1.18	
10734.00	90.000	160.360	6486.64	3462.34	-3970.84	-671.97	1653477.00	14298352.78	39°22'28.777"N	80°57'13.624"W	4027.30	189.605	3.02	0.00	-3.02	
10828.00	90.030	158.770	6486.64	3556.33	-4058.92	-639.15	1653509.81	14298264.73	39°22'27.907"N	80°57'13.207"W	4108.94	188.949	1.69	0.03	-1.69	
10923.00	90.090	157.440	6486.54	3651.32	-4147.07	-603.73	1653545.22	14298176.62	39°22'27.035"N	80°57'12.756"W	4190.78	188.283	1.40	0.06	-1.40	
11017.00	90.000	159.110	6486.47	3745.31	-4234.39	-568.93	1653580.00	14298089.34	39°22'26.172"N	80°57'12.314"W	4272.44	187.652	1.78	-0.10	-1.78	
11112.00	89.820	158.140	6486.62	3840.31	-4322.85	-534.31	1653614.61	14298000.91	39°22'25.298"N	80°57'11.873"W	4355.75	187.046	1.04	0.06	-1.04	
11206.00	90.030	156.690	6486.74	3934.28	-4409.64	-498.21	1653650.69	14297914.15	39°22'24.440"N	80°57'11.414"W	4437.70	186.446	1.56	0.22	-1.54	
11300.00	90.090	157.350	6486.64	4028.23	-4496.18	-461.51	1653687.38	14297827.65	39°22'23.584"N	80°57'10.948"W	4519.80	185.861	0.71	0.06	0.70	
11395.00	89.970	158.570	6486.59	4123.21	-4584.24	-425.86	1653723.01	14297739.63	39°22'22.714"N	80°57'10.494"W	4603.97	185.307	1.29	-0.13	1.28	
11490.00	90.060	157.130	6486.57	4218.20	-4672.22	-390.04	1653758.81	14297651.68	39°22'21.844"N	80°57'10.039"W	4688.48	184.772	1.52	0.09	-1.52	
11584.00	89.850	156.560	6486.64	4312.14	-4758.65	-353.08	1653795.76	14297565.28	39°22'20.989"N	80°57'09.569"W	4771.73	184.243	0.65	-0.22	-0.61	
11679.00	89.910	158.450	6486.84	4407.10	-4846.42	-316.74	1653832.09	14297477.55	39°22'20.122"N	80°57'09.106"W	4856.76	183.739	1.99	0.06	1.99	
11773.00	89.780	157.180	6487.10	4501.08	-4933.46	-281.24	1653867.57	14297390.55	39°22'19.261"N	80°57'08.655"W	4941.47	183.263	1.36	-0.14	-1.35	
11867.00	89.970	157.710	6487.30	4595.05	-5020.27	-245.19	1653903.61	14297303.77	39°22'18.403"N	80°57'08.196"W	5026.25	182.796	0.60	0.20	0.56	
11962.00	90.090	158.010	6487.25	4689.04	-5108.26	-209.38	1653939.40	14297215.81	39°22'17.533"N	80°57'07.741"W	5112.55	182.347	0.34	0.13	0.32	
12057.00	90.030	158.200	6487.15	4785.03	-5196.41	-173.96	1653974.81	14297127.70	39°22'16.662"N	80°57'07.291"W	5199.32	181.917	0.21	-0.06	0.20	
12152.00	89.970	158.430	6487.15	4880.02	-5284.69	-138.86	1654009.90	14297039.46	39°22'15.789"N	80°57'06.844"W	5286.51	181.505	0.25	-0.06	0.24	
12246.00	90.030	158.600	6487.05	4974.02	-5372.15	-104.43	1654044.32	14296952.03	39°22'14.924"N	80°57'06.407"W	5373.17	181.114	0.19	0.06	0.18	
12341.00	90.060	158.920	6487.98	5069.02	-5460.70	-70.01	1654078.72	14296863.52	39°22'14.049"N	80°57'05.969"W	5461.15	180.735	0.34	0.03	0.34	
12435.00	90.090	156.290	6486.95	5162.99	-5547.60	-34.20	1654114.51	14296776.65	39°22'13.190"N	80°57'05.514"W	5547.71	180.353	2.80	0.03	-2.80	
12530.00	89.690	154.060	6487.14	5257.78	-5633.82	5.68	1654154.38	14296690.47	39°22'12.338"N	80°57'05.066"W	5633.82	179.942	2.38	-0.42	-2.35	
12625.00	89.910	158.170	6487.47	5352.55	-5720.66	44.14	1654192.82	14296603.66	39°22'11.479"N	80°57'04.517"W	5720.83	179.558	4.33	0.23	4.33	
12719.00	90.030	154.760	6487.52	5446.55	-5806.83	81.67	1654230.34	14296517.26	39°22'10.627"N	80°57'04.040"W	5807.41	179.194	3.63	0.13	-3.63	
12815.00	89.940	156.080	6487.54	5542.38	-5894.13	121.60	1654270.25	14296430.52	39°22'09.764"N	80°57'03.532"W	5895.39	178.818	1.38	-0.09	1.36	
12910.00	89.660	158.680	6487.87	5637.33	-5981.82	158.13	1654306.77	14296342.61	39°22'08.897"N	80°57'03.067"W	5983.91	178.486	2.75	-0.29	2.74	



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**Actual Wellpath Report**  
Alli Unit 2H AWP Proj: 21144  
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REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #02
Operator	ANTERO RESOURCES CORPORATION	Well	Alli Unit 2H
Area	Tyler County, WV	Wellbore	Alli Unit 2H AWP
Field	Tyler		
Facility	Mickim Pad		

WELLPATH DATA (268 stations)																			
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	°	ft/100ft	ft/100ft	ft/100ft				
13004.00	89.850	161.840	6488.28	5731.29	-6070.28	189.88	1654338.50	14296284.18	39°22'08.023"N	80°57'02.664"W	6073.25	178.208	3.37	0.20	3.36				
13099.00	89.820	164.220	6488.55	5826.04	-6181.14	217.60	1654366.22	14296163.36	39°22'07.125"N	80°57'02.311"W	6164.98	177.977	2.51	-0.03	2.51				
13193.00	89.850	164.570	6488.82	5919.60	-6251.67	242.89	1654391.49	14296072.86	39°22'06.230"N	80°57'01.990"W	6256.39	177.775	0.37	0.03	0.37				
13288.00	89.690	163.410	6489.20	6014.23	-6342.98	269.09	1654417.68	14295981.59	39°22'05.327"N	80°57'01.657"W	6348.69	177.571	1.23	-0.17	-1.22				
13383.00	89.970	163.210	6489.48	6108.94	-6433.98	296.37	1654444.96	14295890.63	39°22'04.428"N	80°57'01.310"W	6440.80	177.363	0.36	0.26	-0.21				
13478.00	89.850	164.200	6489.63	6203.61	-6525.16	323.03	1654471.60	14295799.48	39°22'03.526"N	80°57'00.972"W	6533.15	177.166	1.05	-0.13	1.04				
13572.00	89.780	163.710	6489.94	6297.24	-6615.50	349.01	1654497.57	14295709.18	39°22'02.633"N	80°57'00.642"W	6624.70	176.980	0.53	-0.07	-0.52				
13667.00	89.850	163.540	6490.24	6391.91	-6706.65	375.79	1654524.34	14295618.07	39°22'01.732"N	80°57'00.301"W	6717.17	176.793	0.19	0.07	-0.18				
13762.00	89.850	162.630	6490.49	6486.66	-6797.54	403.43	1654551.97	14295527.22	39°22'00.834"N	80°56'59.950"W	6809.50	176.603	0.96	0.00	-0.96				
13856.00	90.000	161.140	6490.61	6580.53	-6888.87	432.66	1654581.19	14295437.92	39°21'59.951"N	80°56'59.578"W	6900.45	176.405	1.59	0.16	-1.59				
13950.00	89.780	159.050	6490.79	6674.50	-6975.25	464.66	1654613.18	14295349.57	39°21'59.077"N	80°56'59.172"W	6990.71	176.189	2.24	-0.23	-2.22				
14045.00	89.820	159.000	6491.13	6769.50	-7063.96	498.67	1654647.17	14295260.90	39°21'58.200"N	80°56'58.739"W	7081.54	175.962	0.07	0.04	-0.05				
14139.00	89.880	159.090	6491.37	6863.50	-7151.74	532.28	1654680.77	14295173.16	39°21'57.322"N	80°56'58.312"W	7171.52	175.743	0.12	0.06	0.10				
14235.00	89.630	156.790	6491.78	6959.48	-7240.71	568.34	1654716.81	14295084.23	39°21'56.453"N	80°56'57.853"W	7262.98	175.512	2.41	-0.26	-2.40				
14329.00	89.600	156.090	6492.41	7053.39	-7326.87	605.91	1654754.37	14294998.10	39°21'55.601"N	80°56'57.376"W	7351.88	175.273	0.75	-0.03	-0.74				
14425.00	89.480	155.750	6493.19	7149.26	-7414.51	645.08	1654793.52	14294910.49	39°21'54.735"N	80°56'56.878"W	7442.52	175.028	0.38	-0.12	-0.35				
14519.00	89.480	155.550	6494.04	7243.10	-7500.14	683.83	1654832.26	14294824.89	39°21'53.888"N	80°56'56.385"W	7531.25	174.790	0.21	0.00	-0.21				
14613.00	89.570	156.620	6494.82	7336.99	-7586.07	721.94	1654870.35	14294739.00	39°21'53.039"N	80°56'55.900"W	7620.34	174.564	1.14	0.10	1.14				
14709.00	89.570	157.230	6495.54	7432.93	-7674.39	759.56	1654907.96	14294650.72	39°21'52.165"N	80°56'55.422"W	7711.88	174.348	0.64	0.00	0.64				
14804.00	90.000	157.370	6495.89	7527.89	-7762.03	796.22	1654944.60	14294563.11	39°21'51.289"N	80°56'54.956"W	7802.76	174.143	0.48	0.45	0.15				
14899.00	89.420	157.680	6496.38	7622.86	-7849.81	832.54	1654980.90	14294475.37	39°21'50.431"N	80°56'54.494"W	7893.83	173.946	0.69	0.61	0.33				
14993.00	89.480	158.860	6497.28	7716.85	-7937.12	867.34	1655015.69	14294388.09	39°21'49.568"N	80°56'54.052"W	7984.37	173.764	1.26	0.06	1.26				
15088.00	89.540	158.420	6498.09	7811.84	-8025.60	901.94	1655050.28	14294299.65	39°21'48.663"N	80°56'53.612"W	8076.12	173.588	0.47	0.06	-0.46				
15182.00	89.540	158.170	6498.85	7906.84	-8112.93	936.70	1655088.02	14294212.35	39°21'47.830"N	80°56'53.170"W	8166.82	173.414	0.27	0.00	-0.27				
15277.00	89.540	155.900	6499.61	8004.78	-8200.39	973.76	1655126.42	14294124.93	39°21'46.965"N	80°56'52.698"W	8258.00	173.228	2.39	0.00	-2.39				
15371.00	89.450	155.930	6500.44	8094.65	-8286.20	1012.12	1655162.42	14294039.15	39°21'46.117"N	80°56'52.211"W	8347.79	173.036	0.10	-0.10	0.03				
15466.00	89.600	155.620	6501.22	8189.50	-8372.83	1051.10	1655199.38	14293952.55	39°21'45.261"N	80°56'51.715"W	8438.55	172.845	0.36	-0.16	-0.33				
15560.00	89.660	157.040	6501.83	8283.40	-8458.92	1088.84	1655237.10	14293866.50	39°21'44.410"N	80°56'51.273"W	8528.71	172.665	1.51	0.06	1.51				
15654.00	89.510	157.840	6502.51	8377.37	-8545.73	1124.90	1655273.15	14293781.73	39°21'43.551"N	80°56'50.777"W	8619.45	172.501	0.87	-0.16	0.85				
15749.00	89.450	158.900	6503.37	8472.36	-8634.03	1159.91	1655308.15	14293691.46	39°21'42.678"N	80°56'50.332"W	8711.60	172.349	1.12	-0.06	1.12				

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**Actual Wellpath Report**

Alli Unit 2H AWP Proj: 21144'  
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REFERENCE WELLPATH IDENTIFICATION											
Operator	ANTERO RESOURCES CORPORATION										
Area	Tyler County, WV										
Field	Tyler										
Facility	McKinn Pad										

WELLPATH DATA (268 stations)																
MD IRI	Inclination °	Azimuth °	TVD IRI	Vert Sect IRI	North IRI	East IRI	Grid East IUS IRI	Grid North IUS IRI	Latitude	Longitude	Closure Dist IRI	Closure Dir °	DLS F/1000ft	Build Rate F/1000ft	Turn Rate F/1000ft	Comments
15844.00	89.630	158.970	6504.14	8567.36	-8722.68	1184.06	165342.28	14293602.85	39°21'41.802"N	80°56'49.898"W	8804.03	172.205	0.20	0.19	0.07	
15939.00	89.540	160.980	6504.83	8662.33	-8811.93	1226.59	165374.80	14293513.63	39°21'40.920"N	80°56'49.484"W	8896.89	172.076	2.12	-0.09	2.12	
16034.00	89.540	163.920	6505.59	8757.14	-8902.50	1255.23	1655403.43	14293423.10	39°21'40.025"N	80°56'49.120"W	8990.55	171.974	3.09	0.00	3.09	
16128.00	89.480	163.460	6506.39	8850.80	-8992.71	1281.63	1655429.81	14293322.93	39°21'39.133"N	80°56'48.785"W	9083.58	171.889	0.49	-0.06	-0.49	
16222.00	89.570	162.960	6507.17	8944.53	-9082.71	1308.76	1655456.93	14293242.97	39°21'38.243"N	80°56'48.440"W	9176.51	171.801	0.51	0.10	-0.50	
16316.00	89.780	161.810	6507.70	9038.35	-9172.30	1337.18	1655485.34	14293153.41	39°21'37.357"N	80°56'48.079"W	9269.26	171.706	1.28	0.22	-1.26	
16411.00	89.690	161.380	6508.14	9133.25	-9262.44	1367.17	1655515.32	14293063.30	39°21'36.466"N	80°56'47.698"W	9362.80	171.604	0.46	-0.09	-0.45	
16506.00	89.788	161.340	6508.58	9228.16	-9352.46	1397.54	1655545.67	14292973.32	39°21'35.576"N	80°56'47.312"W	9456.30	171.501	0.10	0.09	-0.04	
16600.00	89.696	159.430	6509.02	9322.12	-9441.00	1429.09	1655577.22	14292884.82	39°21'34.701"N	80°56'46.911"W	9548.55	171.392	2.03	-0.10	-2.03	
16694.00	90.038	158.010	6509.25	9416.12	-9528.59	1458.20	1655611.32	14292797.26	39°21'33.835"N	80°56'46.477"W	9640.28	171.270	1.55	0.36	-1.51	
16789.00	89.880	158.430	6509.32	9511.11	-9616.80	1498.45	1655646.55	14292709.08	39°21'32.963"N	80°56'46.029"W	9732.85	171.144	0.47	-0.16	0.44	
16883.00	89.880	156.280	6509.52	9605.07	-9703.55	1534.64	1655682.73	14292622.37	39°21'32.106"N	80°56'45.569"W	9824.16	171.013	2.29	0.00	-2.29	
16978.00	89.940	154.490	6509.67	9699.89	-9789.92	1574.21	1655722.28	14292536.04	39°21'31.252"N	80°56'45.066"W	9915.67	170.865	1.89	0.06	-1.88	
17072.00	89.940	154.180	6509.77	9793.59	-9874.64	1614.92	1655762.97	14292451.35	39°21'30.414"N	80°56'44.548"W	10005.82	170.712	0.33	0.00	-0.33	
17166.00	90.039	152.740	6509.79	9887.17	-9958.73	1656.92	1655804.96	14292367.29	39°21'29.583"N	80°56'44.014"W	10095.63	170.554	1.53	0.10	-1.53	
17260.00	89.720	154.130	6510.00	9980.74	-10042.81	1698.96	1655846.98	14292283.25	39°21'28.752"N	80°56'43.480"W	10185.50	170.398	1.52	-0.33	1.48	
17355.00	89.940	156.310	6510.28	10075.54	-10129.05	1738.77	1655886.78	14292197.04	39°21'27.899"N	80°56'42.973"W	10277.21	170.259	2.31	0.23	2.29	
17449.00	89.600	157.710	6510.66	10169.48	-10215.59	1775.49	1655923.47	14292110.54	39°21'27.043"N	80°56'42.507"W	10368.73	170.140	1.53	-0.36	1.49	
17544.00	89.820	160.790	6511.14	10264.47	-10304.41	1809.14	1655957.11	14292021.75	39°21'26.165"N	80°56'42.079"W	10462.02	170.042	3.25	-0.23	3.24	
17639.00	89.850	165.440	6511.41	10359.18	-10395.29	1836.72	1655994.69	14291930.91	39°21'25.267"N	80°56'41.728"W	10556.31	169.980	4.89	0.03	4.89	
17734.00	89.850	166.650	6511.66	10453.44	-10487.49	1859.63	1656007.59	14291838.75	39°21'24.356"N	80°56'41.437"W	10651.08	169.945	1.27	0.00	1.27	
17829.00	89.750	161.660	6511.99	10548.01	-10578.85	1885.56	1656033.51	14291747.43	39°21'23.452"N	80°56'41.108"W	10745.57	169.894	5.25	-0.11	-5.25	
17924.00	89.820	159.660	6512.35	10642.96	-10668.48	1917.07	1656064.95	14291657.83	39°21'22.566"N	80°56'40.708"W	10839.35	169.813	2.11	0.07	-2.11	
18019.00	89.820	159.370	6512.65	10737.99	-10757.47	1950.27	1656098.19	14291568.87	39°21'21.687"N	80°56'40.286"W	10932.83	169.724	0.31	0.00	-0.31	
18113.00	89.720	158.870	6513.02	10831.95	-10845.30	1993.77	1656131.68	14291481.08	39°21'20.818"N	80°56'39.860"W	11025.24	169.634	0.54	-0.11	-0.53	
18208.00	89.780	158.030	6513.44	10926.95	-10933.66	2018.67	1656166.56	14291392.76	39°21'19.945"N	80°56'39.476"W	11118.45	169.539	0.89	0.06	-0.88	
18302.00	89.820	158.950	6513.71	11020.94	-11021.11	2053.13	1656204.57	14291305.34	39°21'19.080"N	80°56'38.978"W	11210.72	169.447	0.98	0.04	0.98	
18397.00	89.690	158.650	6514.17	11115.94	-11109.97	2086.71	1656241.57	14291216.51	39°21'18.202"N	80°56'38.552"W	11304.24	169.362	0.75	-0.14	0.74	
18491.00	89.750	158.140	6514.63	11209.94	-11197.66	2120.56	1656268.41	14291128.86	39°21'17.335"N	80°56'38.121"W	11396.69	169.277	1.61	0.06	-1.61	
18586.00	89.720	159.390	6515.07	11304.93	-11286.21	2154.97	1656302.80	14291040.35	39°21'16.459"N	80°56'37.684"W	11490.10	169.190	1.32	-0.03	1.32	

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Actual Wellpath Report  
Alli Unit 2H AWP Proj: 21144'  
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REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #02
Operator	ANTERO RESOURCES CORPORATION	Well	Alli Unit 2H
Area	Tyler County, WV	Wellbore	Alli Unit 2H AWP
Field	Tyler		
Facility	Mckim Pad		

WELLPATH DATA (268 stations)																			
MD	Inclination	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					
18680.00	89.750	157.960	6515.51	11398.93	-11373.77	2189.15	1656636.97	14290952.82	39°21'15.594"N	80°56'37.250"W	11582.53	169.105	1.52	0.03	-1.52				
18774.00	89.820	160.960	6515.88	11492.91	-11461.79	2222.12	16566369.93	14290864.84	39°21'14.724"N	80°56'36.830"W	11675.20	169.028	3.19	0.07	3.19				
18869.00	89.820	161.030	6516.16	11587.85	-11551.61	2253.06	16566400.88	14290775.06	39°21'13.836"N	80°56'36.437"W	11769.28	168.963	0.07	0.00	0.07				
18964.00	89.910	159.720	6516.38	11682.81	-11641.09	2284.97	1656432.75	14290685.61	39°21'12.951"N	80°56'36.032"W	11863.22	168.895	1.38	0.09	-1.38				
19060.00	89.910	160.260	6516.53	11778.80	-11731.29	2317.82	1656465.59	14290595.45	39°21'12.059"N	80°56'35.614"W	11958.07	168.824	0.56	0.00	0.56				
19154.00	90.180	161.780	6516.48	11872.73	-11820.18	2348.39	1656496.15	14290506.55	39°21'11.181"N	80°56'35.226"W	12051.20	168.763	1.64	0.29	1.62				
19249.00	90.030	160.820	6516.28	11967.64	-11910.16	2378.85	1656526.59	14290416.65	39°21'10.281"N	80°56'34.839"W	12145.40	168.705	1.02	-0.16	-1.01				
19343.00	90.060	157.820	6516.21	12061.63	-11998.09	2412.04	1656559.77	14290328.75	39°21'09.422"N	80°56'34.417"W	12238.14	168.633	3.19	0.03	-3.19				
19438.00	90.000	156.230	6516.16	12156.58	-12085.56	2449.12	1656596.84	14290241.32	39°21'08.557"N	80°56'33.946"W	12331.21	168.544	1.67	-0.06	-1.67				
19533.00	89.970	156.850	6516.19	12251.50	-12259.16	2486.94	1656667.15	14290154.21	39°21'07.696"N	80°56'33.465"W	12424.15	168.453	0.65	-0.03	0.65				
19627.00	90.180	156.920	6516.06	12345.44	-12259.16	2523.84	1656667.15	14290067.79	39°21'06.841"N	80°56'32.996"W	12516.26	168.367	0.24	0.07	0.07				
19722.00	90.000	156.410	6515.91	12440.37	-12346.38	2561.47	1656709.14	14289980.60	39°21'05.979"N	80°56'32.518"W	12609.30	168.279	0.57	-0.19	-0.54				
19817.00	90.090	155.550	6515.84	12535.24	-12433.16	2600.14	1656747.80	14289893.86	39°21'05.121"N	80°56'32.026"W	12702.13	168.188	0.91	0.09	-0.91				
19912.00	90.150	154.900	6515.64	12630.05	-12519.41	2639.95	1656787.59	14289807.64	39°21'04.266"N	80°56'31.520"W	12794.73	168.093	0.69	0.06	-0.68				
20006.00	90.060	153.970	6515.47	12723.76	-12604.21	2680.51	1656828.14	14289722.88	39°21'03.430"N	80°56'31.004"W	12886.09	167.994	0.99	-0.10	-0.99				
20100.00	89.970	154.010	6515.44	12817.42	-12688.69	2721.74	1656869.34	14289638.43	39°21'02.594"N	80°56'30.480"W	12977.31	167.893	0.10	-0.10	0.04				
20194.00	90.060	155.770	6515.42	12911.19	-12773.80	2761.62	1656909.22	14289553.35	39°21'01.753"N	80°56'29.973"W	13068.92	167.801	1.87	0.10	1.87				
20289.00	90.090	158.730	6515.29	13006.14	-12861.40	2798.36	1656945.93	14289465.79	39°21'00.887"N	80°56'29.506"W	13162.31	167.725	3.12	0.03	3.12				
20384.00	90.090	160.430	6515.14	13101.13	-12950.43	2831.50	1656979.07	14289376.80	39°21'00.007"N	80°56'29.085"W	13256.36	167.667	1.79	0.00	1.79				
20479.00	90.000	161.100	6515.07	13196.07	-13040.12	2862.80	1657010.35	14289287.14	39°20'59.120"N	80°56'28.688"W	13350.67	167.618	0.71	-0.09	0.71				
20574.00	90.030	159.800	6515.04	13291.04	-13129.64	2894.59	1657042.13	14289197.65	39°20'58.235"N	80°56'28.284"W	13444.93	167.567	1.37	0.03	-1.37				
20669.00	90.000	158.900	6515.02	13386.03	-13218.54	2928.09	1657075.61	14289108.79	39°20'57.356"N	80°56'27.858"W	13538.96	167.510	0.95	-0.03	-0.95				
20765.00	90.120	160.010	6514.92	13482.03	-13308.43	2961.78	1657109.29	14289018.94	39°20'56.468"N	80°56'27.430"W	13634.02	167.453	1.16	0.13	1.16				
20860.00	90.180	161.530	6514.67	13576.97	-13398.13	2993.07	1657140.57	14288929.25	39°20'55.688"N	80°56'27.032"W	13728.38	167.407	1.60	0.06	1.60				
20954.00	90.030	161.930	6514.50	13670.86	-13487.39	3022.54	1657170.02	14288840.05	39°20'54.898"N	80°56'26.658"W	13821.92	167.369	0.45	-0.16	0.43				
21048.00	89.970	158.520	6514.50	13764.82	-13575.83	3054.33	1657201.81	14288751.64	39°20'53.824"N	80°56'26.254"W	13915.18	167.321	3.63	-0.06	-3.63				
21140.00	90.000	156.520	6514.52	13858.79	-13664.36	3081.86	1657229.33	14288665.14	39°20'53.166"N	80°56'25.904"W	13986.13	167.270	2.78	0.04	-2.78				
21144.00	90.000	156.520	6514.52	13860.77	-13664.37	3091.43	1657238.88	14288663.14	39°20'52.949"N	80°56'25.783"W	14009.71	167.252	0.00	0.00	Projected MD at TD: 21144MD / 6515"TV				

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**Actual Wellpath Report**  
 Aili Unit 2H AWP Proj: 21144'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Tyler County, WV	Well	Aili Unit 2H
Field	Tyler	Wellbore	Aili Unit 2H AWB
Facility	Mickim Pad		

HOLE & CASING SECTIONS - Ref Wellbore: Aili Unit 2H AWB Ref Wellpath: Aili Unit 2H AWP Proj: 21144'									
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	32.00	112.00	80.00	32.00	112.00	0.00	0.00	-0.00	-0.07
17.5in Open Hole	112.00	550.20	438.20	112.00	550.20	-0.06	-0.07	-1.11	-0.60
13.375in Casing Surface	32.00	550.20	518.20	32.00	550.20	0.00	0.00	-1.11	-0.60
12.25in Open Hole	550.20	2660.00	2109.80	550.20	2596.64	-1.11	-0.60	-14.42	-453.54
9.625in Casing Intermediate	32.00	2660.00	2628.00	32.00	2596.64	0.00	0.00	-14.42	-453.54

TARGETS									
Name	TVD (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Shape	
Aili Unit 2H POE - Rev-2	6459.00	-594.68	-1983.46	1652166.04	14301727.59	39°23'02.152"N	80°57'30.305"W	point	
Aili Unit 2H BHL - Rev-2	6493.00	-13694.76	3097.40	1657244.86	14286832.76	39°20'52.648"N	80°56'25.707"W	point	
Aili Unit 2H LP - Rev-1	6493.00	-907.66	-1861.38	1652288.07	14301414.72	39°22'59.058"N	80°57'28.752"W	point	

WELLPATH COMPOSITION - Ref Wellbore: Aili Unit 2H AWB Ref Wellpath: Aili Unit 2H AWP Proj: 21144'									
Start MD (ft)	End MD (ft)	Positional Uncertainty Model	Log Name/Comment	Wellbore					
32.00	522.00	ISCWSA MWD, Rev. 4 (Standard)	01 Gyrodatta MS Gyro <17-1/2">(100'-505')	Aili Unit 2H AWB					
522.00	730.00	Gyrodatta standard - Drop gyro or Multi-shot	02 Gyrodatta MS Gyro <12-1/4">(505')(560'-713')	Aili Unit 2H AWB					
730.00	2587.00	ISCWSA MWD, Rev. 4 (Standard)	03 Directional ONE MWD <12-1/4">(713')(770'-2570')	Aili Unit 2H AWB					
2587.00	6775.00	ISCWSA MWD, Rev. 4 (Standard)	04 Directional ONE MWD <8-3/4">(2570')(2697'-6758')	Aili Unit 2H AWB					
6775.00	21120.00	BH1 AutoTrak Curve (Short)	05 BH AT Curve <8-1/2">(6775')(6829'-21120')	Aili Unit 2H AWB					
21120.00	21144.00	Blind Drilling (std)	Projection to bit	Aili Unit 2H AWB					

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**Actual Wellpath Report**

Alli Unit 2H AWP Proj: 21144'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Tyler County, WV	Well	Alli Unit 2H
Field	Tyler	Wellbore	Alli Unit 2H AWB
Facility	Mickim Pad		

COMMENTS	
<p><b>Wellpath general comments</b>                      API: 47-095-02369-0000                      BH Job #: 8863513                      Rig: Frontier-32                      Duration: 11/21/17 - 11/23/17                      Comment                      Gyrodota MS Gyro &lt;17-1/2"&gt;(100'-505')                      Gyrodota MS Gyro &lt;12-1/4"&gt;(505')(560'-713')                      Directional ONE MWD &lt;12-1/4"&gt;(713')(770'-2570')                      Directional ONE MWD &lt;8-3/4"&gt;(2570')(2697'-6758')                      Fifty Foot SS: 2864'MD / 2790'TVD                      Gordon: 2991'MD / 2905'TVD                      Fifth Sand: 3350'MD / 3231'TVD                      Warren: 3856'MD / 3692'TVD                      Speechly: 4282'MD / 4079'TVD                      Balltown: 4596'MD / 4363'TVD                      Bradford: 5023'MD / 4744'TVD                      Benson: 5432'MD / 5113'TVD                      Alexander: 5680'MD / 5334'TVD                      Elk: 5905'MD / 5536'TVD                      Rhinestreet: 6262'MD / 5860'TVD                      Sycamore: 6700'MD / 6237'TVD                      Middlesex: 6825'MD / 6333'TVD                      BH ATCurve &lt;8-1/2"&gt;(6775')(6829'-21120')                      Burket: 6977'MD / 6425'TVD                      Tully: 7045'MD / 6450'TVD                      POE Marcellus: 7075'MD / 6457'TVD                      Projected MD at TD: 21144'MD / 6515'TVD</p>	