



ANTERO RESOURCES CORPORATION



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

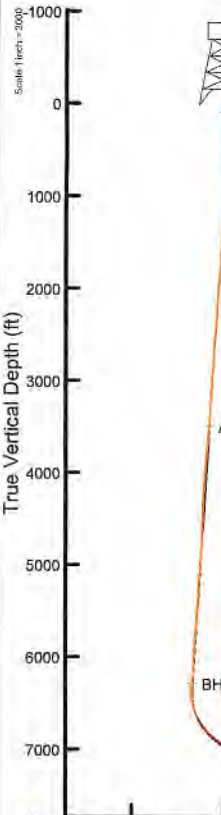
Slot: Slot B
Well: Eckleberry Unit 1H
Wellbore: Eckleberry Unit 1H PWB

Plot reference wellpath is Eckleberry Unit 1H PWP Rev-B.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 519 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 519 (RKB)	Scale: True distance
H&P 519 (RKB) to Mean Sea Level: 1242 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot B): -1212 feet	Depths are in feet
Offset wellpath MDs are referenced to each plot's default MD datum	Created by: nbsayan on 2022-11-15, Database: WA_MPL_EASTERNUS_Defn

Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Furbee Pad	1716103.700	14364954.390	39°33'26.2109"N	80°43'53.2980"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude
Slot B	-14.39	4.12	1716107.820	14364940.010	39°33'26.0677"N

Comment: Eckleberry Unit 1H	
H&P 519 (RKB) to Ground level (At Slot: Slot B)	30ft
Mean Sea Level to Ground level (At Slot: Slot B)	-1212ft
H&P 519 (RKB) to Mean Sea Level	1242ft

Well Profile Data								
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (*100ft)	VS (ft)
Tie On	3600.00	23.360	62.080	3409.12	445.31	844.98	1.09	-146.77
Proj. to Bottom	3674.00	23.390	62.080	3477.06	459.04	870.91	0.00	-151.34
Drill Out	3754.00	23.360	62.080	3550.50	473.90	898.94	0.00	-156.28
End of 3D Arc	3841.71	25.062	63.116	3630.50	490.44	930.87	2.00	-161.57
Curve KOP	6847.71	25.062	63.116	6353.48	1066.22	2066.60	0.00	-337.32
POE	7832.41	73.823	161.054	7046.00	644.42	2472.23	8.00	193.34
Landing PL	8029.83	89.700	161.054	7077.00	460.38	2535.40	8.00	387.93
BHL	22975.64	89.700	161.054	7155.26	-13675.76	7387.92	0.00	15333.74



Gyrodata MS Gyro <17-1/2"> (100'-534') : 0.33° Inc, 100.00ft MD, 100.00ft TVD, 0.19ft VS

APS EM <12-1/4"> (534')(687'-3600') : 1.52° Inc, 687.00ft MD, 686.98ft TVD, 1.88ft VS

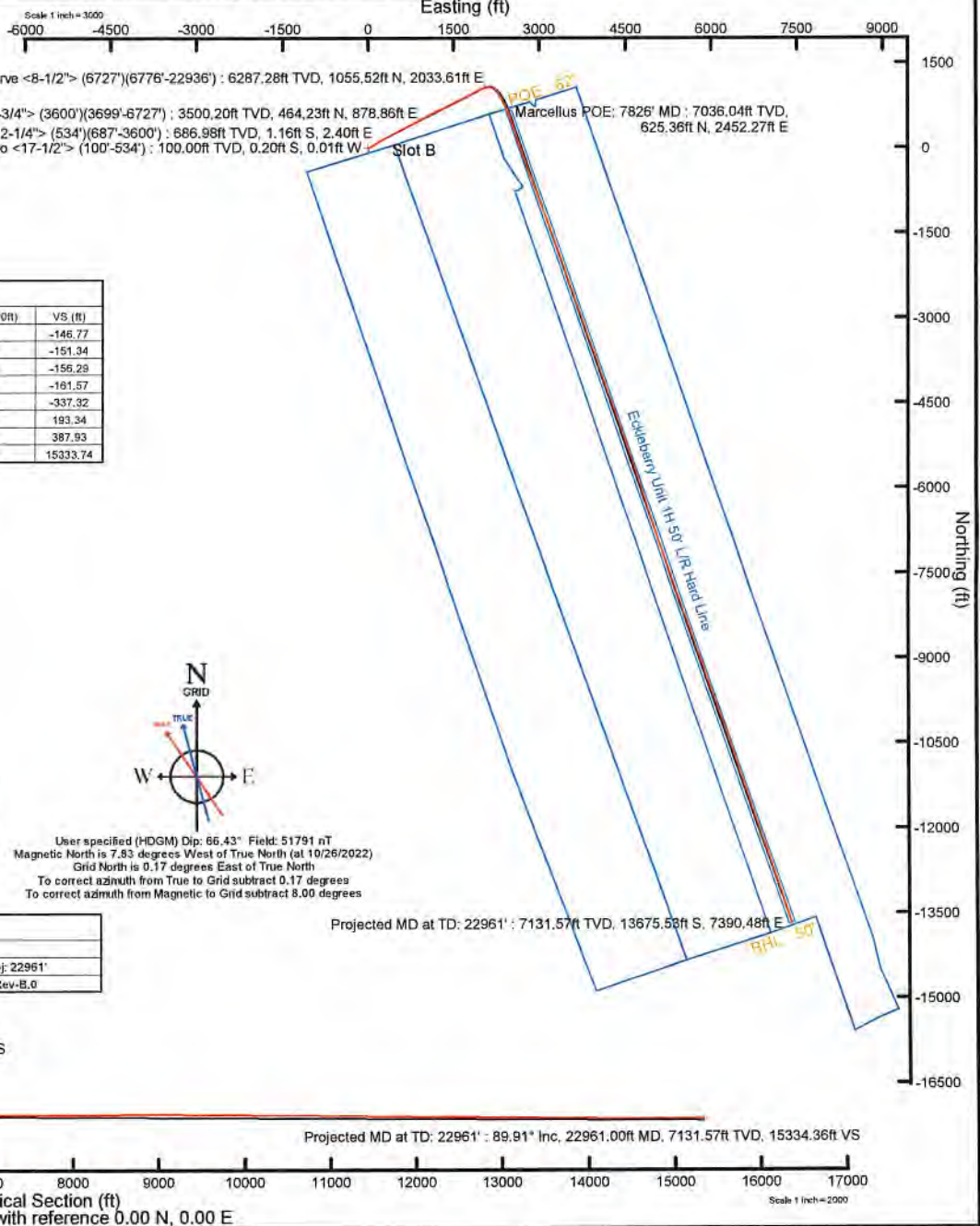
API: 47-103-03492-0000
BH Job #: 111490439
Rig: H&P 519
Duration: 10/28/2022 - 11/1/2022

APS EM <8-3/4"> (3600')(3699'-6727') : 22.80° Inc, 3699.00ft MD, 3690.20ft TVD, -153.67ft VS

BH AT Curve <8-1/2"> (6727')(6776'-22936') : 21.08° Inc, 6776.00ft MD, 6287.28ft TVD, -337.92ft VS

Marcellus POE: 7826' MD : 75.68° Inc, 7826.00ft MD, 7036.04ft TVD, 204.89ft VS

Well Data			
Slot	Well	Wellbore	Wellpath
Slot B	Eckleberry Unit 1H	Eckleberry Unit 1H AWB	Eckleberry Unit 1H AWP Proj: 22961'
Slot B	Eckleberry Unit 1H	Eckleberry Unit 1H PWB	Eckleberry Unit 1H PWP Rev-B.0



User specified (HDGM) Dip: 66.43° Field: 51791 nT
Magnetic North is 7.83 degrees West of True North (at 10/26/2022)
Grid North is 0.17 degrees East of True North
To correct azimuth from True to Grid subtract 0.17 degrees
To correct azimuth from Magnetic to Grid subtract 8.00 degrees

WV Department of Environmental Protection
 MAY 10 2023
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Actual Wellpath Report

Eckleberry Unit 1H AWP Proj: 22961'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Eckleberry Unit 1H
Field	Wetzel	API	47-103-03492-0000
Facility	Furbee Pad	Wellbore	Eckleberry Unit 1H AWB
Slot	Slot B		

REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999607	Report Generated	11/15/2022 at 3:28:41 PM
Convergence at slot	0.17° 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	-14.39	4.12	1716107.82	14364940.01	39°33'26.0677"N	80°43'53.2459"W
Facility Reference Pt			1716103.70	14364954.39	39°33'26.2100"N	80°43'53.2980"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.3013"W

WELLPATH DATUM

Calculation method	Minimum curvature	H&P 519 (RKB) to Facility Vertical Datum	1242.00ft
Horizontal Reference Pt	Slot	H&P 519 (RKB) to Mean Sea Level	1242.00ft
Vertical Reference Pt	H&P 519 (RKB)	H&P 519 (RKB) to Ground Level at Slot (Slot B)	30.00ft
MD Reference Pt	H&P 519 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	161.05°

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Eckleberry Unit 1H
Field	Wetzel	API	47-103-03492-0000
Facility	Furbee Pad	Wellbore	Eckleberry Unit 1H AWB
Slot	Slot B		

WELLPATH DATA (253 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	0.00	182.090	0.00	0.00	0.00	0.00	1716107.82	14364940.01	39°33'26.0677"N	80°43'53.2459"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.00	182.090	30.00	0.00	0.00	0.00	1716107.82	14364940.01	39°33'26.0677"N	80°43'53.2459"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.330	182.090	100.00	0.19	-0.20	-0.01	1716107.81	14364939.81	39°33'26.0658"N	80°43'53.2460"W	0.20	182.090	0.47	0.47	0.00	Gyrodatta MS Gyro <17-1/2"> (100'-534')
200.00	0.280	159.320	200.00	0.70	-0.72	0.07	1716107.89	14364939.29	39°33'26.0606"N	80°43'53.2451"W	0.72	174.554	0.13	-0.05	-22.77	
300.00	0.260	145.320	300.00	1.16	-1.13	0.28	1716108.10	14364938.88	39°33'26.0565"N	80°43'53.2424"W	1.17	165.937	0.07	-0.02	-14.00	
400.00	0.270	217.230	400.00	1.51	-1.51	0.27	1716108.09	14364938.50	39°33'26.0528"N	80°43'53.2425"W	1.53	169.830	0.31	0.01	71.91	
500.00	0.100	354.550	500.00	1.56	-1.61	0.12	1716107.94	14364938.40	39°33'26.0518"N	80°43'53.2445"W	1.61	175.749	0.35	-0.17	137.32	
534.00	0.300	30.840	534.00	1.47	-1.50	0.16	1716107.98	14364938.51	39°33'26.0529"N	80°43'53.2439"W	1.51	173.831	0.67	0.59	106.74	
687.00	1.520	90.120	686.98	1.88	-1.16	2.40	1716110.22	14364938.85	39°33'26.0562"N	80°43'53.2154"W	2.66	115.868	0.91	0.80	38.75	APS EM <12-1/4"> (534')(687'-3600')
778.00	1.620	95.840	777.94	2.81	-1.30	4.88	1716112.70	14364938.71	39°33'26.0548"N	80°43'53.1836"W	5.05	104.859	0.20	0.11	6.29	
869.00	2.880	87.890	868.87	4.01	-1.34	8.45	1716116.26	14364938.67	39°33'26.0542"N	80°43'53.1381"W	8.55	99.029	1.42	1.38	-8.74	
959.00	4.980	78.140	958.65	5.15	-0.46	14.53	1716122.35	14364939.55	39°33'26.0628"N	80°43'53.0604"W	14.54	91.798	2.44	2.33	-10.83	
1050.00	7.130	72.020	1049.14	5.73	2.10	23.77	1716131.58	14364942.11	39°33'26.0878"N	80°43'52.9424"W	23.86	84.953	2.46	2.36	-6.73	
1145.00	9.110	67.100	1143.19	5.32	6.85	36.31	1716144.11	14364946.85	39°33'26.1343"N	80°43'52.7821"W	36.95	79.322	2.21	2.08	-5.18	
1239.00	11.020	61.470	1235.74	3.31	14.03	51.06	1716158.86	14364954.04	39°33'26.2049"N	80°43'52.5936"W	52.95	74.631	2.28	2.03	-5.99	
1334.00	12.220	57.010	1328.79	-0.64	23.85	67.47	1716175.26	14364963.85	39°33'26.3014"N	80°43'52.3837"W	71.56	70.535	1.58	1.26	-4.69	
1429.00	13.000	55.420	1421.50	-5.96	35.38	84.70	1716192.49	14364975.38	39°33'26.4150"N	80°43'52.1632"W	91.79	67.326	0.90	0.82	-1.67	
1523.00	14.750	55.090	1512.75	-12.10	48.23	103.22	1716211.00	14364988.22	39°33'26.5414"N	80°43'51.9263"W	113.93	64.953	1.86	1.86	-0.35	
1617.00	17.240	56.510	1603.11	-18.89	62.77	124.65	1716232.42	14365002.76	39°33'26.6844"N	80°43'51.6521"W	139.56	63.271	2.68	2.65	1.51	
1712.00	19.490	60.250	1693.26	-25.39	78.41	150.16	1716257.92	14365018.38	39°33'26.8382"N	80°43'51.3259"W	169.39	62.428	2.67	2.37	3.94	
1806.00	21.410	59.160	1781.34	-31.87	94.98	178.50	1716286.25	14365034.96	39°33'27.0012"N	80°43'50.9633"W	202.20	61.982	2.08	2.04	-1.16	
1901.00	23.020	59.990	1869.28	-39.00	113.16	209.48	1716317.22	14365053.13	39°33'27.1800"N	80°43'50.5672"W	238.09	61.621	1.73	1.69	0.87	
1995.00	24.730	60.860	1955.24	-46.01	131.93	242.57	1716350.29	14365071.89	39°33'27.3645"N	80°43'50.1440"W	276.13	61.458	1.86	1.82	0.93	
2090.00	25.260	61.160	2041.34	-53.01	151.39	277.68	1716385.39	14365091.34	39°33'27.5557"N	80°43'49.6949"W	316.27	61.402	0.57	0.56	0.32	
2184.00	25.150	62.650	2126.39	-59.37	170.24	312.99	1716420.69	14365110.18	39°33'27.7410"N	80°43'49.2434"W	356.29	61.458	0.69	-0.12	1.59	
2278.00	25.610	64.950	2211.32	-64.45	188.02	349.14	1716456.82	14365127.95	39°33'27.9156"N	80°43'48.7812"W	396.55	61.697	1.16	0.49	2.45	
2373.00	26.380	63.300	2296.71	-69.47	206.19	386.60	1716494.26	14365146.12	39°33'28.0942"N	80°43'48.3023"W	438.15	61.926	1.11	0.81	-1.74	
2468.00	26.700	62.050	2381.70	-75.66	225.68	424.30	1716531.96	14365165.60	39°33'28.2856"N	80°43'47.8201"W	480.59	61.992	0.68	0.34	-1.32	
2562.00	26.940	60.180	2465.59	-82.98	246.17	461.43	1716569.07	14365186.08	39°33'28.4870"N	80°43'47.3453"W	522.99	61.921	0.93	0.26	-1.99	
2657.00	25.980	61.580	2550.64	-90.46	266.77	498.41	1716606.03	14365206.68	39°33'28.6896"N	80°43'46.8725"W	565.31	61.842	1.21	-1.01	1.47	

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Actual Wellpath Report

Eckleberry Unit 1H AWP Proj: 22961'
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Eckleberry Unit 1H
Field	Wetzel		API	47-103-03492-0000
Facility	Furbee Pad		Wellbore	Eckleberry Unit 1H AWB
Slot	Slot B			

WELLPATH DATA (253 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
2751.00	25.570	62.500	2635.28	-96.86	285.94	534.51	1716642.12	14365225.84	39°33'28.8779"N	80°43'46.4108"W	606.18	61.855	0.61	-0.44	0.98	
2846.00	25.830	64.680	2720.89	-102.21	304.26	571.40	1716679.00	14365244.15	39°33'29.0579"N	80°43'45.9391"W	647.36	61.966	1.03	0.27	2.29	
2940.00	24.930	64.790	2805.82	-106.64	321.45	607.84	1716715.42	14365261.34	39°33'29.2267"N	80°43'45.4732"W	687.60	62.128	0.96	-0.96	0.12	
3035.00	24.210	62.390	2892.21	-111.76	339.01	643.21	1716750.78	14365278.89	39°33'29.3992"N	80°43'45.0209"W	727.08	62.208	1.30	-0.76	-2.53	
3130.00	23.590	60.250	2979.07	-118.25	357.47	676.98	1716784.53	14365297.34	39°33'29.5806"N	80°43'44.5891"W	765.56	62.164	1.12	-0.65	-2.25	
3224.00	23.900	61.260	3065.11	-125.01	375.96	710.00	1716817.54	14365315.82	39°33'29.7624"N	80°43'44.1667"W	803.40	62.098	0.54	0.33	1.07	
3319.00	23.620	62.510	3152.06	-131.11	394.00	743.76	1716851.29	14365333.85	39°33'29.9397"N	80°43'43.7351"W	841.67	62.088	0.61	-0.29	1.32	
3414.00	23.980	63.040	3238.98	-136.63	411.53	777.85	1716885.36	14365351.38	39°33'30.1120"N	80°43'43.2991"W	880.01	62.118	0.44	0.38	0.56	
3508.00	23.990	64.010	3324.87	-141.63	428.57	812.05	1716919.55	14365368.41	39°33'30.2793"N	80°43'42.8618"W	918.21	62.177	0.42	0.01	1.03	
3600.00	23.360	62.080	3409.12	-146.77	445.31	844.98	1716952.47	14365385.14	39°33'30.4437"N	80°43'42.4408"W	955.14	62.211	1.09	-0.68	-2.10	
3699.00	22.800	59.510	3500.20	-153.67	464.23	878.86	1716986.33	14365404.06	39°33'30.6297"N	80°43'42.0076"W	993.93	62.156	1.16	-0.57	-2.60	APS EM <8-3/4"> (3600')(3699'-6727')
3793.00	24.810	58.710	3586.20	-161.53	483.71	911.41	1717018.87	14365423.53	39°33'30.8214"N	80°43'41.5912"W	1031.81	62.044	2.17	2.14	-0.85	
3888.00	27.330	60.880	3671.53	-169.64	504.68	947.50	1717054.94	14365444.49	39°33'31.0275"N	80°43'41.1296"W	1073.53	61.958	2.84	2.65	2.28	
3982.00	28.010	61.120	3754.78	-177.25	525.84	985.68	1717093.11	14365465.65	39°33'31.2355"N	80°43'40.6414"W	1117.17	61.921	0.73	0.72	0.26	
4077.00	29.450	62.970	3838.08	-184.38	547.23	1026.01	1717133.43	14365487.03	39°33'31.4457"N	80°43'40.1255"W	1162.83	61.926	1.78	1.52	1.95	
4171.00	30.180	62.460	3919.64	-191.16	568.66	1067.55	1717174.95	14365508.45	39°33'31.6562"N	80°43'39.5944"W	1209.56	61.957	0.82	0.78	-0.54	
4266.00	29.730	63.100	4001.95	-197.99	590.36	1109.73	1717217.11	14365530.14	39°33'31.8694"N	80°43'39.0550"W	1256.99	61.988	0.58	-0.47	0.67	
4361.00	28.160	66.200	4085.09	-203.14	610.06	1151.25	1717258.62	14365549.83	39°33'32.0629"N	80°43'38.5241"W	1302.91	62.080	2.29	-1.65	3.26	
4455.00	27.920	61.710	4168.06	-208.59	629.45	1190.93	1717298.28	14365569.21	39°33'32.2533"N	80°43'38.0168"W	1347.04	62.142	2.26	-0.26	-4.78	
4550.00	26.670	63.790	4252.48	-214.89	649.41	1229.65	1717336.98	14365589.16	39°33'32.4494"N	80°43'37.5217"W	1390.60	62.160	1.65	-1.32	2.19	
4645.00	26.120	66.730	4337.58	-219.16	667.09	1267.99	1717375.31	14365606.83	39°33'32.6230"N	80°43'37.0315"W	1432.76	62.251	1.49	-0.58	3.09	
4739.00	24.740	70.390	4422.48	-220.95	681.86	1305.53	1717412.83	14365621.60	39°33'32.7679"N	80°43'36.5516"W	1472.87	62.422	2.22	-1.47	3.89	
4834.00	24.020	64.800	4509.02	-223.28	696.77	1341.76	1717449.04	14365636.50	39°33'32.9141"N	80°43'36.0885"W	1511.88	62.557	2.54	-0.76	-5.88	
4929.00	22.400	64.910	4596.33	-227.32	712.68	1375.65	1717482.92	14365652.41	39°33'33.0703"N	80°43'35.6552"W	1549.29	62.613	1.71	-1.71	0.12	
5024.00	22.480	65.090	4684.13	-231.14	728.00	1408.51	1717515.77	14365667.73	39°33'33.2208"N	80°43'35.2350"W	1585.53	62.667	0.11	0.08	0.19	
5118.00	23.040	63.340	4770.82	-235.48	743.83	1441.25	1717548.50	14365683.54	39°33'33.3762"N	80°43'34.8164"W	1621.88	62.702	0.93	0.60	-1.86	
5213.00	23.460	61.620	4858.10	-241.07	761.16	1474.50	1717581.74	14365700.87	39°33'33.5465"N	80°43'34.3912"W	1659.37	62.697	0.84	0.44	-1.81	
5308.00	23.410	60.240	4945.27	-247.71	779.51	1507.52	1717614.75	14365719.21	39°33'33.7269"N	80°43'33.9689"W	1697.13	62.657	0.58	-0.05	-1.45	
5402.00	22.590	61.610	5031.79	-254.17	797.37	1539.62	1717646.83	14365737.06	39°33'33.9024"N	80°43'33.5584"W	1733.84	62.620	1.04	-0.87	1.46	
5497.00	22.660	62.080	5119.48	-260.02	814.61	1571.84	1717679.04	14365754.30	39°33'34.0719"N	80°43'33.1483"W	1770.39	62.604	0.20	0.07	0.49	

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Operator	ANTERO RESOURCES CORPORATION		Well	Eckleberry Unit 1H
Field	Wetzel		API	47-103-03492-0000
Facility	Furbee Pad		Wellbore	Eckleberry Unit 1H AWP
Slot	Slot B			

WELLPATH DATA (253 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
5591.00	22.480	61.690	5206.28	-265.76	831.61	1603.66	1717710.85	14365771.29	39°33'34.2389"N	80°43'32.7394"W	1806.46	62.590	0.25	-0.19	-0.41	
5686.00	22.960	61.320	5293.91	-271.85	849.12	1635.91	1717743.08	14365788.79	39°33'34.4110"N	80°43'32.3270"W	1843.15	62.568	0.53	0.51	-0.39	
5780.00	23.280	63.750	5380.36	-277.31	866.13	1668.65	1717775.81	14365805.80	39°33'34.5782"N	80°43'31.9083"W	1880.05	62.568	1.07	0.34	2.59	
5875.00	24.410	66.220	5467.26	-281.35	882.35	1703.45	1717810.60	14365822.01	39°33'34.7374"N	80°43'31.4633"W	1918.41	62.617	1.59	1.19	2.60	
5970.00	26.470	64.250	5553.04	-285.51	899.47	1740.49	1717847.62	14365839.12	39°33'34.9054"N	80°43'30.9897"W	1959.17	62.671	2.34	2.17	-2.07	
6065.00	25.140	60.630	5638.57	-291.66	918.57	1777.15	1717884.27	14365858.21	39°33'35.0931"N	80°43'30.5209"W	2000.51	62.667	2.17	-1.40	-3.81	
6159.00	24.570	60.730	5723.86	-298.78	937.91	1811.60	1717918.70	14365877.55	39°33'35.2833"N	80°43'30.0803"W	2039.99	62.628	0.61	-0.61	0.11	
6254.00	23.940	61.670	5810.48	-305.46	956.72	1845.80	1717952.89	14365896.35	39°33'35.4681"N	80°43'29.6430"W	2079.01	62.601	0.78	-0.66	0.99	
6348.00	23.820	62.110	5896.43	-311.51	974.65	1879.36	1717986.44	14365914.27	39°33'35.6443"N	80°43'29.2138"W	2117.06	62.588	0.23	-0.13	0.47	
6443.00	23.910	63.920	5983.31	-316.89	992.08	1913.61	1718020.67	14365931.70	39°33'35.8156"N	80°43'28.7758"W	2155.49	62.596	0.78	0.09	1.91	
6538.00	24.660	63.960	6069.90	-321.72	1009.25	1948.71	1718055.76	14365948.86	39°33'35.9841"N	80°43'28.3270"W	2194.55	62.620	0.79	0.79	0.04	
6632.00	25.320	62.900	6155.10	-326.99	1027.01	1984.22	1718091.26	14365966.62	39°33'36.1586"N	80°43'27.8729"W	2234.25	62.634	0.85	0.70	-1.13	
6727.00	22.830	58.980	6241.84	-333.73	1045.77	2018.11	1718125.13	14365985.37	39°33'36.3430"N	80°43'27.4395"W	2272.97	62.607	3.11	-2.62	-4.13	
6776.00	21.080	56.580	6287.28	-337.92	1055.52	2033.61	1718140.62	14365995.12	39°33'36.4389"N	80°43'27.2412"W	2291.22	62.569	4.01	-3.57	-4.90	BH AT Curve <8-1/2"> (6727')(6776'-22936')
6841.00	22.470	64.050	6347.66	-342.35	1067.40	2054.54	1718161.55	14366006.99	39°33'36.5556"N	80°43'26.9735"W	2315.27	62.547	4.77	2.14	11.49	
6935.00	24.670	82.060	6433.92	-340.79	1077.99	2090.17	1718197.17	14366017.57	39°33'36.6592"N	80°43'26.5182"W	2351.78	62.718	7.98	2.34	19.16	
7029.00	25.850	101.920	6519.08	-326.50	1076.46	2129.73	1718236.70	14366016.04	39°33'36.6429"N	80°43'26.0132"W	2386.31	63.186	9.06	1.26	21.13	
7124.00	29.680	116.590	6603.23	-299.05	1061.63	2171.09	1718278.05	14366001.22	39°33'36.4951"N	80°43'25.4857"W	2416.75	63.942	8.22	4.03	15.44	
7218.00	33.370	127.800	6683.41	-260.77	1035.34	2212.37	1718319.32	14365974.94	39°33'36.2340"N	80°43'24.9596"W	2442.65	64.922	7.35	3.93	11.93	
7233.00†	34.259	130.070	6695.88	-253.70	1030.09	2218.86	1718325.81	14365969.69	39°33'36.1819"N	80°43'24.8769"W	2446.31	65.097	10.30	5.93	15.13	Sycamore: 7233' MD
7312.00	39.530	140.420	6759.09	-211.04	996.34	2251.96	1718358.88	14365935.96	39°33'35.8474"N	80°43'24.4558"W	2462.52	66.134	10.30	6.67	13.10	
7406.00†	45.644	144.967	6828.29	-150.68	945.71	2290.35	1718397.27	14365885.35	39°33'35.3458"N	80°43'23.9675"W	2477.92	67.564	7.28	6.50	4.84	Middlesex: 7406' MD
7407.00	45.710	145.010	6828.98	-149.99	945.12	2290.76	1718397.68	14365884.76	39°33'35.3400"N	80°43'23.9623"W	2478.07	67.580	7.28	6.59	4.31	
7502.00	52.450	149.620	6891.19	-80.30	884.69	2329.36	1718436.26	14365824.35	39°33'34.7416"N	80°43'23.4718"W	2491.71	69.203	7.98	7.09	4.85	
7559.00†	56.054	151.627	6924.49	-34.81	844.38	2352.03	1718458.92	14365784.06	39°33'34.3425"N	80°43'23.1840"W	2499.01	70.252	6.94	6.32	3.52	Burkett: 7559' MD
7596.00	58.410	152.840	6944.52	-4.07	816.85	2366.52	1718473.41	14365756.54	39°33'34.0700"N	80°43'23.0001"W	2503.53	70.957	6.94	6.37	3.28	
7618.00†	59.657	153.361	6955.84	14.61	800.03	2375.06	1718481.94	14365739.72	39°33'33.9034"N	80°43'22.8918"W	2506.18	71.384	6.02	5.67	2.37	Tully: 7618' MD
7691.00	63.810	155.000	6990.40	78.43	742.16	2403.04	1718509.91	14365681.88	39°33'33.3307"N	80°43'22.5368"W	2515.03	72.837	6.02	5.69	2.25	
7714.00†	66.051	155.766	7000.15	99.16	723.22	2411.71	1718518.58	14365662.95	39°33'33.1432"N	80°43'22.4268"W	2517.82	73.307	10.20	9.74	3.33	Hamilton: 7714' MD
7785.00	72.990	157.980	7024.97	165.45	662.08	2437.79	1718544.65	14365601.83	39°33'32.5382"N	80°43'22.0962"W	2526.10	74.805	10.20	9.77	3.12	

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Actual Wellpath Report

Eckleberry Unit 1H AWP Proj: 22961'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Eckleberry Unit 1H
Field	Wetzel	API	47-103-03492-0000
Facility	Furbee Pad	Wellbore	Eckleberry Unit 1H AWB
Slot	Slot B		

WELLPATH DATA (253 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
7826.00†	75.681	158.987	7036.04	204.89	625.36	2452.27	1718559.12	14365565.12	39°33'32.1748"N	80°43'21.9128"W	2530.75	75.694	6.98	6.56	2.46	Marcellus POE: 7826' MD
7878.00	79.100	160.230	7047.39	255.61	577.80	2469.94	1718576.79	14365517.58	39°33'31.7042"N	80°43'21.6890"W	2536.63	76.833	6.98	6.57	2.39	
7973.00	85.190	161.210	7060.37	349.67	489.01	2500.99	1718607.83	14365428.83	39°33'30.8258"N	80°43'21.2961"W	2548.35	78.937	6.49	6.41	1.03	
8068.00	90.310	160.610	7064.10	444.57	399.34	2532.03	1718638.85	14365339.19	39°33'29.9385"N	80°43'20.9034"W	2563.33	81.037	5.43	5.39	-0.63	
8162.00	90.150	161.070	7063.72	538.56	310.55	2562.88	1718669.69	14365250.43	39°33'29.0600"N	80°43'20.5130"W	2581.63	83.091	0.52	-0.17	0.49	
8257.00	90.370	161.480	7063.29	633.56	220.57	2593.38	1718700.17	14365160.50	39°33'28.1699"N	80°43'20.1271"W	2602.74	85.139	0.49	0.23	0.43	
8351.00	89.570	161.680	7063.34	727.56	131.39	2623.08	1718729.86	14365071.35	39°33'27.2876"N	80°43'19.7515"W	2626.37	87.132	0.88	-0.85	0.21	
8446.00	89.480	160.730	7064.13	822.55	41.46	2653.69	1718760.46	14364981.45	39°33'26.3979"N	80°43'19.3642"W	2654.01	89.105	1.00	-0.09	-1.00	
8540.00	89.080	162.450	7065.31	916.54	-47.72	2683.37	1718790.13	14364892.31	39°33'25.5156"N	80°43'18.9888"W	2683.79	91.019	1.88	-0.43	1.83	
8634.00	91.020	159.790	7065.23	1010.52	-136.65	2713.78	1718820.53	14364803.42	39°33'24.6357"N	80°43'18.6040"W	2717.22	92.883	3.50	2.06	-2.83	
8729.00	89.420	160.350	7064.86	1105.51	-225.95	2746.16	1718852.90	14364714.15	39°33'23.7521"N	80°43'18.1941"W	2755.44	94.704	1.78	-1.68	0.59	
8823.00	88.890	158.640	7066.25	1199.46	-313.99	2779.09	1718885.81	14364626.15	39°33'22.8811"N	80°43'17.7773"W	2796.77	96.446	1.90	-0.56	-1.82	
8917.00	89.690	159.980	7067.41	1293.40	-401.91	2812.29	1718919.00	14364538.26	39°33'22.0110"N	80°43'17.3568"W	2840.87	98.133	1.66	0.85	1.43	
9012.00	89.200	159.680	7068.33	1388.38	-491.08	2845.05	1718951.74	14364449.12	39°33'21.1288"N	80°43'16.9421"W	2887.12	99.793	0.60	-0.52	-0.32	
9107.00	89.910	158.600	7069.07	1483.32	-579.85	2878.88	1718985.56	14364360.39	39°33'20.2504"N	80°43'16.5138"W	2936.69	101.388	1.36	0.75	-1.14	
9201.00	89.260	160.560	7069.75	1577.28	-667.94	2911.67	1719018.34	14364272.34	39°33'19.3788"N	80°43'16.0986"W	2987.30	102.920	2.20	-0.69	2.09	
9296.00	89.290	158.580	7070.95	1672.24	-756.95	2944.83	1719051.48	14364183.36	39°33'18.4981"N	80°43'15.6788"W	3040.56	104.415	2.08	0.03	-2.08	
9390.00	90.250	161.650	7071.33	1766.21	-845.33	2976.79	1719083.44	14364095.01	39°33'17.6236"N	80°43'15.2742"W	3094.49	105.853	3.42	1.02	3.27	
9485.00	89.200	159.280	7071.79	1861.20	-934.86	3008.56	1719115.19	14364005.52	39°33'16.7378"N	80°43'14.8722"W	3150.46	107.262	2.73	-1.11	-2.49	
9579.00	90.370	160.320	7072.14	1955.17	-1023.07	3041.01	1719147.63	14363917.34	39°33'15.8650"N	80°43'14.4614"W	3208.50	108.594	1.67	1.24	1.11	
9674.00	88.860	158.600	7072.78	2050.13	-1112.02	3074.34	1719180.95	14363828.43	39°33'14.9848"N	80°43'14.0394"W	3269.28	109.886	2.41	-1.59	-1.81	
9768.00	89.540	159.580	7074.09	2144.06	-1199.82	3107.89	1719214.48	14363740.66	39°33'14.1161"N	80°43'13.6146"W	3331.45	111.109	1.27	0.72	1.04	
9863.00	91.290	161.730	7073.40	2239.05	-1289.45	3139.35	1719245.93	14363651.07	39°33'13.2293"N	80°43'13.2165"W	3393.85	112.330	2.92	1.84	2.26	
9958.00	89.420	158.880	7072.82	2334.02	-1378.88	3171.36	1719277.93	14363561.68	39°33'12.3445"N	80°43'12.8114"W	3458.16	113.499	3.59	-1.97	-3.00	
10052.00	91.570	160.630	7072.00	2427.99	-1467.06	3203.89	1719310.44	14363473.53	39°33'11.4720"N	80°43'12.3997"W	3523.80	114.603	2.95	2.29	1.86	
10147.00	89.600	161.150	7071.03	2522.98	-1556.81	3234.99	1719341.53	14363383.81	39°33'10.5840"N	80°43'12.0062"W	3590.10	115.699	2.14	-2.07	0.55	
10242.00	89.320	160.770	7071.93	2617.97	-1646.61	3265.98	1719372.50	14363294.05	39°33'9.6955"N	80°43'11.6141"W	3657.58	116.756	0.50	-0.29	-0.40	
10337.00	88.650	162.780	7073.61	2712.94	-1736.83	3295.68	1719402.20	14363203.87	39°33'8.8030"N	80°43'11.2385"W	3725.33	117.789	2.23	-0.71	2.12	
10431.00	89.940	159.800	7074.77	2806.92	-1825.84	3325.83	1719432.33	14363114.89	39°33'7.9223"N	80°43'10.8572"W	3794.05	118.766	3.45	1.37	-3.17	
10526.00	90.090	162.550	7074.74	2901.91	-1915.75	3356.98	1719462.97	14363025.02	39°33'7.0328"N	80°43'10.4698"W	3864.72	119.716	2.90	0.16	2.89	

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Eckleberry Unit 1H AWP Proj: 22961'
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Facility	Furbee Pad	Wellbore	Eckleberry Unit 1H AWB
Slot	Slot B		

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MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS ["/100ft]	Build Rate ["/100ft]	Turn Rate ["/100ft]	Comments
10620.00	89.660	157.390	7074.95	2995.86	-2004.03	3388.66	1719495.14	14362936.77	39°33'6.1593"N	80°43'10.0621"W	3936.90	120.600	5.51	-0.46	-5.49	
10715.00	88.150	159.860	7076.76	3090.75	-2092.47	3423.28	1719529.75	14362848.36	39°33'5.2841"N	80°43'9.6237"W	4012.14	121.435	3.05	-1.59	2.60	
10809.00	91.820	165.110	7076.79	3184.67	-2182.07	3451.56	1719558.01	14362758.80	39°33'4.3978"N	80°43'9.2663"W	4083.46	122.301	6.81	3.90	5.59	
10905.00	93.390	160.050	7072.42	3280.51	-2273.54	3480.25	1719586.70	14362667.37	39°33'3.4928"N	80°43'8.9036"W	4157.06	123.155	5.51	1.64	-5.27	
10999.00	89.630	161.170	7069.95	3374.45	-2362.16	3511.44	1719617.87	14362578.79	39°33'2.6160"N	80°43'8.5090"W	4232.02	123.929	4.17	-4.00	1.19	
11094.00	89.350	160.330	7070.79	3469.45	-2451.84	3542.76	1719649.18	14362489.14	39°33'1.7287"N	80°43'8.1127"W	4308.44	124.686	0.93	-0.29	-0.88	
11188.00	89.690	159.950	7071.58	3563.43	-2540.25	3574.69	1719681.10	14362400.77	39°33'0.8540"N	80°43'7.7086"W	4385.35	125.398	0.54	0.36	-0.40	
11283.00	90.520	162.460	7071.41	3658.42	-2630.18	3605.30	1719711.69	14362310.87	39°32'59.9643"N	80°43'7.3215"W	4462.73	126.112	2.78	0.87	2.64	
11377.00	88.740	157.880	7072.01	3752.38	-2718.57	3637.18	1719743.56	14362222.51	39°32'59.0896"N	80°43'6.9181"W	4540.89	126.776	5.23	-1.89	-4.87	
11472.00	88.980	162.560	7073.90	3847.32	-2807.92	3669.31	1719775.68	14362133.20	39°32'58.2056"N	80°43'6.5115"W	4620.42	127.425	4.93	0.25	4.93	
11566.00	90.770	158.470	7074.11	3941.30	-2896.52	3700.66	1719807.01	14362044.64	39°32'57.3290"N	80°43'6.1148"W	4699.43	128.050	4.75	1.90	-4.35	
11661.00	90.580	161.130	7072.99	4036.26	-2985.66	3733.45	1719839.80	14361955.53	39°32'56.4470"N	80°43'5.6997"W	4780.47	128.649	2.81	-0.20	2.80	
11755.00	90.180	160.550	7072.37	4130.25	-3074.45	3764.30	1719870.64	14361866.77	39°32'55.5685"N	80°43'5.3094"W	4860.27	129.240	0.75	-0.43	-0.62	
11850.00	89.780	161.750	7072.40	4225.25	-3164.35	3795.00	1719901.32	14361776.91	39°32'54.6790"N	80°43'4.9212"W	4941.17	129.822	1.33	-0.42	1.26	
11944.00	89.570	162.470	7072.93	4319.23	-3253.81	3823.87	1719930.18	14361687.49	39°32'53.7940"N	80°43'4.5562"W	5020.88	130.395	0.80	-0.22	0.77	
12039.00	89.230	160.470	7073.93	4414.22	-3343.87	3854.06	1719960.36	14361597.46	39°32'52.9029"N	80°43'4.1744"W	5102.48	130.946	2.14	-0.36	-2.11	
12134.00	90.000	160.480	7074.57	4509.21	-3433.41	3885.81	1719992.09	14361507.96	39°32'52.0171"N	80°43'3.7727"W	5185.35	131.463	0.81	0.81	0.01	
12229.00	90.120	158.740	7074.47	4604.18	-3522.45	3918.91	1720025.18	14361418.95	39°32'51.1360"N	80°43'3.3538"W	5269.30	131.950	1.84	0.13	-1.83	
12324.00	87.170	160.470	7076.71	4699.11	-3611.46	3952.00	1720058.26	14361329.98	39°32'50.2553"N	80°43'2.9349"W	5353.59	132.422	3.60	-3.11	1.82	
12418.00	89.480	159.970	7079.46	4793.05	-3699.87	3983.80	1720090.04	14361241.61	39°32'49.3805"N	80°43'2.5326"W	5436.88	132.884	2.51	2.46	-0.53	
12513.00	89.630	162.630	7080.20	4888.04	-3789.84	4014.25	1720120.48	14361151.67	39°32'48.4904"N	80°43'2.1474"W	5520.61	133.353	2.80	0.16	2.80	
12608.00	88.800	157.950	7081.50	4983.00	-3879.24	4046.28	1720152.50	14361062.30	39°32'47.6056"N	80°43'1.7422"W	5605.43	133.793	5.00	-0.87	-4.93	
12702.00	92.460	164.980	7080.47	5076.91	-3968.29	4076.14	1720182.34	14360973.29	39°32'46.7248"N	80°43'1.3646"W	5688.78	134.232	8.43	3.89	7.48	
12797.00	91.820	159.610	7076.92	5171.79	-4058.69	4105.00	1720211.19	14360882.92	39°32'45.8304"N	80°43'0.9998"W	5772.69	134.675	5.69	-0.67	-5.65	
12892.00	89.940	161.030	7075.46	5266.76	-4148.13	4136.98	1720243.17	14360793.52	39°32'44.9455"N	80°43'0.5951"W	5858.46	135.077	2.48	-1.98	1.49	
12986.00	89.380	160.430	7076.01	5360.76	-4236.86	4168.00	1720274.18	14360704.83	39°32'44.0676"N	80°43'0.2027"W	5943.33	135.469	0.87	-0.60	-0.64	
13081.00	89.420	160.330	7077.01	5455.75	-4326.34	4199.90	1720306.06	14360615.38	39°32'43.1823"N	80°42'59.7991"W	6029.62	135.850	0.11	0.04	-0.11	
13175.00	90.370	159.990	7077.18	5549.74	-4414.76	4231.80	1720337.95	14360527.00	39°32'42.3074"N	80°42'59.3954"W	6115.41	136.212	1.07	1.01	-0.36	
13270.00	90.520	161.680	7076.44	5644.73	-4504.49	4262.99	1720369.12	14360437.31	39°32'41.4196"N	80°42'59.0009"W	6201.89	136.578	1.79	0.16	1.78	
13364.00	88.800	159.960	7077.00	5738.72	-4593.26	4293.87	1720399.99	14360348.57	39°32'40.5413"N	80°42'58.6103"W	6287.71	136.929	2.59	-1.83	-1.83	

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Actual Wellpath Report

Eckleberry Unit 1H AWP Proj: 22961'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Eckleberry Unit 1H
Field	Wetzel		API	47-103-03492-0000
Facility	Furbee Pad		Wellbore	Eckleberry Unit 1H AWB
Slot	Slot B			

WELLPATH DATA (253 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
13459.00	90.180	160.130	7077.85	5833.70	-4682.55	4326.29	1720432.40	14360259.31	39°32'39.6578"N	80°42'58.2001"W	6375.19	137.265	1.46	1.45	0.18	
13554.00	90.090	160.420	7077.62	5928.69	-4771.98	4358.35	1720464.45	14360169.92	39°32'38.7730"N	80°42'57.7944"W	6462.74	137.594	0.32	-0.09	0.31	
13648.00	89.910	159.240	7077.62	6022.67	-4860.21	4390.76	1720496.85	14360081.72	39°32'37.9000"N	80°42'57.3843"W	6549.84	137.905	1.27	-0.19	-1.26	
13743.00	90.250	161.040	7077.49	6117.65	-4949.55	4423.04	1720529.11	14359992.41	39°32'37.0159"N	80°42'56.9759"W	6637.87	138.215	1.93	0.36	1.89	
13838.00	90.180	161.670	7077.13	6212.65	-5039.57	4453.41	1720559.47	14359902.43	39°32'36.1254"N	80°42'56.5919"W	6725.33	138.533	0.67	-0.07	0.66	
13933.00	88.250	158.890	7078.44	6307.62	-5128.98	4485.45	1720591.50	14359813.06	39°32'35.2407"N	80°42'56.1864"W	6813.64	138.829	3.56	-2.03	-2.93	
14027.00	90.030	162.950	7079.85	6401.58	-5217.78	4516.17	1720622.20	14359724.29	39°32'34.3621"N	80°42'55.7979"W	6900.80	139.123	4.72	1.89	4.32	
14122.00	89.570	159.430	7080.18	6496.57	-5307.69	4546.80	1720652.82	14359634.42	39°32'33.4725"N	80°42'55.4106"W	6988.91	139.415	3.74	-0.48	-3.71	
14216.00	90.310	159.760	7080.28	6590.53	-5395.79	4579.57	1720685.58	14359546.35	39°32'32.6008"N	80°42'54.9959"W	7077.22	139.678	0.86	0.79	0.35	
14311.00	89.450	161.650	7080.48	6685.53	-5485.45	4610.96	1720716.95	14359456.73	39°32'31.7137"N	80°42'54.5988"W	7165.97	139.950	2.18	-0.91	1.99	
14405.00	90.000	161.640	7080.93	6779.52	-5574.67	4640.56	1720746.54	14359367.55	39°32'30.8310"N	80°42'54.2246"W	7253.39	140.225	0.59	0.59	-0.01	
14500.00	90.310	163.060	7080.67	6874.49	-5665.19	4669.36	1720775.33	14359277.06	39°32'29.9354"N	80°42'53.8606"W	7341.48	140.504	1.53	0.33	1.49	
14595.00	89.420	163.040	7080.89	6969.43	-5756.06	4697.06	1720803.02	14359186.22	39°32'29.0364"N	80°42'53.5107"W	7429.31	140.785	0.94	-0.94	-0.02	
14689.00	89.690	162.890	7081.62	7063.38	-5845.94	4724.59	1720830.55	14359096.38	39°32'28.1474"N	80°42'53.1629"W	7516.43	141.055	0.33	0.29	-0.16	
14784.00	89.970	160.580	7081.91	7158.37	-5936.14	4754.37	1720860.31	14359006.21	39°32'27.2549"N	80°42'52.7865"W	7605.38	141.308	2.45	0.29	-2.43	
14879.00	90.220	163.200	7081.75	7253.35	-6026.43	4783.89	1720889.82	14358915.96	39°32'26.3616"N	80°42'52.4133"W	7694.38	141.557	2.77	0.26	2.76	
14974.00	90.030	162.730	7081.54	7348.29	-6117.26	4811.72	1720917.64	14358825.17	39°32'25.4631"N	80°42'52.0617"W	7782.90	141.812	0.53	-0.20	-0.49	
15069.00	89.970	163.170	7081.54	7443.24	-6208.09	4839.58	1720945.48	14358734.38	39°32'24.5645"N	80°42'51.7099"W	7871.58	142.061	0.47	-0.06	0.46	
15163.00	89.350	161.740	7082.10	7537.21	-6297.71	4867.91	1720973.81	14358644.79	39°32'23.6779"N	80°42'51.3518"W	7959.76	142.297	1.66	-0.66	-1.52	
15258.00	89.600	162.360	7082.97	7632.19	-6388.08	4897.19	1721003.07	14358554.46	39°32'22.7838"N	80°42'50.9818"W	8049.23	142.526	0.70	0.26	0.65	
15353.00	89.660	162.890	7083.58	7727.15	-6478.74	4925.56	1721031.43	14358463.83	39°32'21.8869"N	80°42'50.6234"W	8138.50	142.756	0.56	0.06	0.56	
15447.00	89.260	161.750	7084.47	7821.12	-6568.30	4954.10	1721059.97	14358374.31	39°32'21.0009"N	80°42'50.2627"W	8227.13	142.975	1.29	-0.43	-1.21	
15542.00	91.050	162.890	7084.21	7916.09	-6658.80	4982.95	1721088.80	14358283.84	39°32'20.1055"N	80°42'49.8981"W	8316.82	143.192	2.23	1.88	1.20	
15637.00	90.340	163.610	7083.06	8011.01	-6749.77	5010.33	1721116.17	14358192.91	39°32'19.2056"N	80°42'49.5524"W	8406.11	143.414	1.06	-0.75	0.76	
15732.00	90.580	160.380	7082.30	8105.99	-6840.10	5039.69	1721145.52	14358102.62	39°32'18.3119"N	80°42'49.1813"W	8496.20	143.618	3.41	0.25	-3.40	
15826.00	90.060	160.480	7081.77	8199.98	-6928.67	5071.18	1721176.99	14358014.08	39°32'17.4356"N	80°42'48.7830"W	8586.22	143.799	0.56	-0.55	0.11	
15921.00	89.970	160.540	7081.75	8294.97	-7018.22	5102.87	1721208.67	14357924.56	39°32'16.5495"N	80°42'48.3821"W	8677.26	143.980	0.11	-0.09	0.06	
16016.00	89.720	159.590	7082.00	8389.96	-7107.53	5135.26	1721241.05	14357835.29	39°32'15.6658"N	80°42'47.9723"W	8768.57	144.152	1.03	-0.26	-1.00	
16110.00	90.340	159.950	7081.95	8483.93	-7196.73	5167.77	1721273.54	14357747.12	39°32'14.7931"N	80°42'47.5611"W	8859.14	144.315	0.76	0.66	0.38	
16205.00	90.490	160.570	7081.27	8578.92	-7285.15	5199.85	1721305.62	14357657.75	39°32'13.9084"N	80°42'47.1552"W	8950.52	144.482	0.67	0.16	0.65	

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Actual Wellpath Report

Eckleberry Unit 1H AWP Proj: 22961'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Eckleberry Unit 1H
Field	Wetzel	API	47-103-03492-0000
Facility	Furbee Pad	Wellbore	Eckleberry Unit 1H AWB
Slot	Slot B		

WELLPATH DATA (253 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
16299.00	90.000	160.680	7080.86	8672.92	-7373.82	5231.04	1721336.79	14357569.11	39°32'13.0310"N	80°42'46.7608"W	9040.85	144.648	0.53	-0.52	0.12	
16393.00	90.150	160.790	7080.74	8766.92	-7462.56	5262.05	1721367.79	14357480.40	39°32'12.1530"N	80°42'46.3685"W	9131.21	144.811	0.20	0.16	0.12	
16488.00	90.310	161.220	7080.36	8861.92	-7552.38	5292.97	1721398.70	14357390.61	39°32'11.2643"N	80°42'45.9775"W	9222.47	144.976	0.48	0.17	0.45	
16582.00	89.780	160.500	7080.29	8955.91	-7641.19	5323.79	1721429.51	14357301.85	39°32'10.3856"N	80°42'45.5878"W	9312.92	145.134	0.95	-0.56	-0.77	
16677.00	89.880	160.260	7080.57	9050.91	-7730.67	5355.69	1721461.39	14357212.40	39°32'9.5002"N	80°42'45.1843"W	9404.61	145.286	0.27	0.11	-0.25	
16772.00	89.690	160.810	7080.92	9145.90	-7820.24	5387.35	1721493.04	14357122.86	39°32'8.6140"N	80°42'44.7839"W	9496.30	145.437	0.61	-0.20	0.58	
16866.00	89.820	160.150	7081.33	9239.90	-7908.83	5418.75	1721524.43	14357034.30	39°32'7.7374"N	80°42'44.3866"W	9587.10	145.583	0.72	0.14	-0.70	
16962.00	89.910	160.230	7081.55	9335.89	-7999.15	5451.29	1721556.95	14356944.02	39°32'6.8437"N	80°42'43.9751"W	9680.03	145.726	0.13	0.09	0.08	
17056.00	89.910	160.560	7081.70	9429.88	-8087.70	5482.83	1721588.48	14356855.50	39°32'5.9676"N	80°42'43.5762"W	9771.00	145.866	0.35	0.00	0.35	
17150.00	89.230	160.470	7082.41	9523.87	-8176.32	5514.18	1721619.82	14356766.93	39°32'5.0908"N	80°42'43.1796"W	9861.97	146.004	0.73	-0.72	-0.10	
17245.00	89.380	160.030	7083.56	9618.86	-8265.72	5546.28	1721651.91	14356677.56	39°32'4.2062"N	80°42'42.7736"W	9954.07	146.138	0.49	0.16	-0.46	
17340.00	89.230	159.950	7084.71	9713.83	-8354.98	5578.79	1721684.40	14356588.33	39°32'3.3230"N	80°42'42.3624"W	10046.32	146.268	0.18	-0.16	-0.08	
17435.00	89.350	160.590	7085.89	9808.82	-8444.40	5610.86	1721716.46	14356498.95	39°32'2.4382"N	80°42'41.9567"W	10138.52	146.398	0.69	0.13	0.67	
17529.00	89.750	161.540	7086.63	9902.81	-8533.31	5641.36	1721746.95	14356410.08	39°32'1.5586"N	80°42'41.5711"W	10229.48	146.531	1.10	0.43	1.01	
17624.00	89.420	160.250	7087.31	9997.81	-8623.07	5672.45	1721778.03	14356320.35	39°32'0.6704"N	80°42'41.1779"W	10321.53	146.662	1.40	-0.35	-1.36	
17719.00	89.540	160.850	7088.18	10092.80	-8712.64	5704.08	1721809.65	14356230.81	39°31'59.7841"N	80°42'40.7779"W	10413.77	146.788	0.64	0.13	0.63	
17813.00	89.350	160.060	7089.09	10186.79	-8801.22	5735.53	1721841.08	14356142.27	39°31'58.9077"N	80°42'40.3802"W	10505.13	146.909	0.86	-0.20	-0.84	
17908.00	89.780	160.700	7089.81	10281.78	-8890.70	5767.42	1721872.96	14356052.82	39°31'58.0223"N	80°42'39.9767"W	10597.54	147.028	0.81	0.45	0.67	
18003.00	89.290	160.240	7090.58	10376.77	-8980.23	5799.18	1721904.71	14355963.33	39°31'57.1365"N	80°42'39.5751"W	10689.95	147.147	0.71	-0.52	-0.48	
18098.00	90.060	160.690	7091.12	10471.76	-9069.76	5830.95	1721936.46	14355873.83	39°31'56.2506"N	80°42'39.1734"W	10782.42	147.263	0.94	0.81	0.47	
18192.00	89.570	160.650	7091.42	10565.76	-9158.46	5862.06	1721967.56	14355785.17	39°31'55.3730"N	80°42'38.7799"W	10873.88	147.378	0.52	-0.52	-0.04	
18287.00	89.660	161.060	7092.06	10660.76	-9248.21	5893.22	1721998.71	14355695.46	39°31'54.4850"N	80°42'38.3860"W	10966.28	147.494	0.44	0.09	0.43	
18381.00	88.860	161.700	7093.27	10754.75	-9337.28	5923.23	1722028.71	14355606.42	39°31'53.6038"N	80°42'38.0066"W	11057.55	147.610	1.09	-0.85	0.68	
18476.00	89.510	159.950	7094.63	10849.73	-9426.99	5954.43	1722059.89	14355516.74	39°31'52.7161"N	80°42'37.6121"W	11150.04	147.722	1.96	0.68	-1.84	
18571.00	89.450	160.630	7095.49	10944.72	-9516.42	5986.46	1722091.92	14355427.35	39°31'51.8312"N	80°42'37.2069"W	11242.78	147.827	0.72	-0.06	0.72	
18665.00	89.350	160.490	7096.47	11038.71	-9605.06	6017.75	1722123.19	14355338.75	39°31'50.9542"N	80°42'36.8113"W	11334.48	147.932	0.18	-0.11	-0.15	
18760.00	89.510	160.840	7097.42	11133.70	-9694.70	6049.20	1722154.63	14355249.15	39°31'50.0673"N	80°42'36.4136"W	11427.16	148.037	0.41	0.17	0.37	
18855.00	89.140	160.590	7098.54	11228.69	-9784.36	6080.57	1722185.99	14355159.52	39°31'49.1801"N	80°42'36.0169"W	11519.86	148.141	0.47	-0.38	-0.26	
18950.00	89.230	160.740	7099.89	11323.68	-9873.99	6112.02	1722217.43	14355069.92	39°31'48.2933"N	80°42'35.6192"W	11612.60	148.242	0.18	0.09	0.16	
19044.00	89.140	160.630	7101.22	11417.67	-9962.69	6143.11	1722248.50	14354981.26	39°31'47.4156"N	80°42'35.2261"W	11704.40	148.342	0.15	-0.10	-0.12	

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Eckleberry Unit 1H AWP Proj: 22961'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Eckleberry Unit 1H
Field	Wetzel	API	47-103-03492-0000
Facility	Furbee Pad	Wellbore	Eckleberry Unit 1H AWB
Slot	Slot B		

WELLPATH DATA (253 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
19139.00	89.570	160.660	7102.29	11512.66	-10052.32	6174.59	1722279.97	14354891.67	39°31'46.5289"N	80°42'34.8280"W	11797.23	148.440	0.45	0.45	0.03	
19234.00	89.260	160.650	7103.26	11607.65	-10141.95	6206.06	1722311.43	14354802.07	39°31'45.6420"N	80°42'34.4301"W	11890.10	148.537	0.33	-0.33	-0.01	
19328.00	89.140	160.490	7104.58	11701.64	-10230.59	6237.33	1722342.68	14354713.47	39°31'44.7650"N	80°42'34.0347"W	11982.04	148.630	0.21	-0.13	-0.17	
19423.00	89.170	160.770	7105.98	11796.63	-10320.20	6268.83	1722374.17	14354623.89	39°31'43.8783"N	80°42'33.6363"W	12074.97	148.724	0.30	0.03	0.29	
19517.00	89.110	161.120	7107.39	11890.62	-10409.04	6299.52	1722404.85	14354535.09	39°31'42.9993"N	80°42'33.2484"W	12166.84	148.818	0.38	-0.06	0.37	
19612.00	89.630	161.260	7108.43	11985.61	-10498.96	6330.15	1722435.46	14354445.20	39°31'42.1096"N	80°42'32.8612"W	12259.65	148.913	0.57	0.55	0.15	
19707.00	89.480	161.650	7109.17	12080.61	-10589.02	6360.36	1722465.67	14354355.17	39°31'41.2185"N	80°42'32.4793"W	12352.39	149.009	0.44	-0.16	0.41	
19802.00	89.600	161.740	7109.93	12175.60	-10679.21	6390.20	1722495.49	14354265.02	39°31'40.3262"N	80°42'32.1023"W	12445.09	149.105	0.16	0.13	0.09	
19897.00	89.600	161.540	7110.60	12270.59	-10769.38	6420.12	1722525.40	14354174.89	39°31'39.4342"N	80°42'31.7242"W	12537.84	149.199	0.21	0.00	-0.21	
19992.00	89.780	161.530	7111.11	12365.59	-10859.48	6450.21	1722555.48	14354084.82	39°31'38.5426"N	80°42'31.3439"W	12630.66	149.291	0.19	0.19	-0.01	
20086.00	89.350	161.740	7111.82	12459.58	-10948.69	6479.82	1722585.08	14353995.65	39°31'37.6600"N	80°42'30.9696"W	12722.50	149.381	0.51	-0.46	0.22	
20181.00	89.260	161.400	7112.98	12554.57	-11038.81	6509.86	1722615.10	14353905.56	39°31'36.7684"N	80°42'30.5901"W	12815.37	149.471	0.37	-0.09	-0.36	
20276.00	89.630	161.620	7113.90	12649.56	-11128.91	6539.98	1722645.22	14353815.50	39°31'35.8770"N	80°42'30.2094"W	12908.29	149.559	0.45	0.39	0.23	
20371.00	89.230	161.370	7114.84	12744.55	-11218.99	6570.13	1722675.36	14353725.46	39°31'34.9857"N	80°42'29.8283"W	13001.25	149.646	0.50	-0.42	-0.26	
20465.00	89.380	161.290	7115.98	12838.54	-11308.04	6600.22	1722705.43	14353636.44	39°31'34.1047"N	80°42'29.4480"W	13093.30	149.729	0.18	0.16	-0.09	
20560.00	89.570	161.390	7116.85	12933.54	-11398.04	6630.62	1722735.81	14353546.48	39°31'33.2142"N	80°42'29.0639"W	13186.37	149.812	0.23	0.20	0.11	
20655.00	89.570	161.630	7117.57	13028.53	-11488.13	6660.74	1722765.93	14353456.42	39°31'32.3228"N	80°42'28.6831"W	13279.41	149.895	0.25	0.00	0.25	
20749.00	89.600	161.260	7118.25	13122.53	-11577.24	6690.66	1722795.83	14353367.34	39°31'31.4411"N	80°42'28.3051"W	13371.52	149.976	0.39	0.03	-0.39	
20844.00	89.570	161.490	7118.93	13217.52	-11667.27	6720.99	1722826.16	14353277.36	39°31'30.5504"N	80°42'27.9217"W	13464.65	150.056	0.24	-0.03	0.24	
20938.00	89.510	161.580	7119.69	13311.52	-11756.42	6750.77	1722855.92	14353188.24	39°31'29.6683"N	80°42'27.5455"W	13556.78	150.135	0.12	-0.06	0.10	
21033.00	89.230	161.140	7120.73	13406.51	-11846.43	6781.13	1722886.27	14353098.26	39°31'28.7777"N	80°42'27.1617"W	13649.97	150.212	0.55	-0.29	-0.46	
21128.00	89.260	161.430	7121.99	13501.50	-11936.40	6811.61	1722916.73	14353008.33	39°31'27.8876"N	80°42'26.7765"W	13743.21	150.288	0.31	0.03	0.31	
21222.00	89.480	161.280	7123.02	13595.49	-12025.47	6841.66	1722946.77	14352919.30	39°31'27.0064"N	80°42'26.3967"W	13835.46	150.363	0.28	0.23	-0.16	
21317.00	89.540	161.680	7123.83	13690.49	-12115.54	6871.83	1722976.93	14352829.26	39°31'26.1152"N	80°42'26.0154"W	13928.69	150.438	0.43	0.06	0.42	
21411.00	89.350	161.920	7124.74	13784.47	-12204.83	6901.19	1723006.28	14352740.00	39°31'25.2317"N	80°42'25.6445"W	14020.86	150.514	0.33	-0.20	0.26	
21506.00	89.170	161.150	7125.97	13879.46	-12294.94	6931.28	1723036.35	14352649.94	39°31'24.3403"N	80°42'25.2643"W	14114.11	150.588	0.83	-0.19	-0.81	
21601.00	89.450	161.460	7127.11	13974.45	-12384.92	6961.72	1723066.79	14352559.99	39°31'23.4500"N	80°42'24.8795"W	14207.45	150.659	0.44	0.29	0.33	
21695.00	89.510	161.720	7127.97	14068.45	-12474.10	6991.41	1723096.46	14352470.84	39°31'22.5676"N	80°42'24.5044"W	14299.76	150.731	0.28	0.06	0.28	
21790.00	89.290	161.580	7128.96	14163.43	-12564.27	7021.32	1723126.36	14352380.71	39°31'21.6755"N	80°42'24.1265"W	14393.04	150.802	0.27	-0.23	-0.15	
21885.00	89.140	161.600	7130.26	14258.42	-12654.40	7051.32	1723156.35	14352290.62	39°31'20.7838"N	80°42'23.7474"W	14486.37	150.872	0.16	-0.16	0.02	

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Actual Wellpath Report

Eckleberry Unit 1H AWP Proj: 22961'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Eckleberry Unit 1H
Field	Wetzel	API	47-103-03492-0000
Facility	Furbee Pad	Wellbore	Eckleberry Unit 1H AWB
Slot	Slot B		

WELLPATH DATA (253 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
21979.00	89.970	161.480	7130.99	14352.41	-12743.56	7081.08	1723186.10	14352201.49	39°31'19.9016"N	80°42'23.3713"W	14578.75	150.941	0.89	0.88	-0.13	
22074.00	90.220	161.660	7130.84	14447.41	-12833.68	7111.11	1723216.12	14352111.40	39°31'19.0099"N	80°42'22.9918"W	14672.13	151.009	0.32	0.26	0.19	
22169.00	89.910	161.570	7130.73	14542.41	-12923.83	7141.08	1723246.07	14352021.29	39°31'18.1180"N	80°42'22.6132"W	14765.52	151.077	0.34	-0.33	-0.09	
22263.00	89.660	161.510	7131.08	14636.40	-13013.00	7170.84	1723275.82	14351932.16	39°31'17.2358"N	80°42'22.2371"W	14857.96	151.143	0.27	-0.27	-0.06	
22358.00	90.060	162.040	7131.31	14731.39	-13103.23	7200.55	1723305.52	14351841.96	39°31'16.3430"N	80°42'21.8618"W	14951.34	151.210	0.70	0.42	0.56	
22452.00	89.850	161.790	7131.39	14825.38	-13192.59	7229.73	1723334.69	14351752.64	39°31'15.4589"N	80°42'21.4931"W	15043.71	151.277	0.35	-0.22	-0.27	
22547.00	90.250	161.470	7131.30	14920.38	-13282.74	7259.67	1723364.62	14351662.52	39°31'14.5669"N	80°42'21.1149"W	15137.18	151.341	0.54	0.42	-0.34	
22641.00	89.910	161.580	7131.17	15014.37	-13371.90	7289.46	1723394.39	14351573.40	39°31'13.6848"N	80°42'20.7385"W	15229.70	151.404	0.38	-0.36	0.12	
22736.00	89.880	161.510	7131.35	15109.37	-13462.01	7319.53	1723424.46	14351483.32	39°31'12.7932"N	80°42'20.3585"W	15323.23	151.466	0.08	-0.03	-0.07	
22831.00	89.970	161.650	7131.47	15204.37	-13552.15	7349.55	1723454.46	14351393.22	39°31'11.9014"N	80°42'19.9792"W	15416.76	151.528	0.18	0.09	0.15	
22925.00	89.970	161.630	7131.52	15298.36	-13641.36	7379.16	1723484.06	14351304.04	39°31'11.0188"N	80°42'19.6051"W	15509.31	151.589	0.02	0.00	-0.02	
22936.00	89.910	161.670	7131.53	15309.36	-13651.80	7382.62	1723487.52	14351293.61	39°31'10.9155"N	80°42'19.5614"W	15520.14	151.596	0.66	-0.55	0.36	
22961.00‡	89.910	161.670	7131.57	15334.36	-13675.53	7390.48	1723495.38	14351269.88	39°31'10.6807"N	80°42'19.4620"W	15544.76	151.612	0.00	0.00	0.00	Projected MD at TD: 22961'

HOLE & CASING SECTIONS - Ref Wellbore: Eckleberry Unit 1H AWB Ref Wellpath: Eckleberry Unit 1H AWP Proj: 22961'									
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
20in Conductor	30.00	130.00	100.00	30.00	130.00	0.00	0.00	-0.37	0.00
17.5in Open Hole	130.00	673.00	543.00	130.00	672.98	-0.37	0.00	-1.16	2.04
13.375in Casing Surface	30.00	653.00	623.00	30.00	652.99	0.00	0.00	-1.18	1.59
12.25in Open Hole	673.00	3674.00	3001.00	672.98	3477.17	-1.16	2.04	459.35	870.46
9.625in Casing Intermediate	30.00	3644.00	3614.00	30.00	3449.56	0.00	0.00	453.58	860.24
8.75in Open Hole	3674.00	6801.00	3127.00	3477.17	6310.57	459.35	870.46	1060.33	2041.32
8.5in Open Hole	6801.00	22961.00	16160.00	6310.57	7131.57	1060.33	2041.32	-13675.53	7390.48
5.5in Casing Production	30.00	22941.00	22911.00	30.00	7131.54	0.00	0.00	-13656.55	7384.19

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Eckleberry Unit 1H
Field	Wetzel	API	47-103-03492-0000
Facility	Furbee Pad	Wellbore	Eckleberry Unit 1H AWB
Slot	Slot B		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Eckleberry Unit 1H POE Rev-2	7049.00	644.42	2472.23	1718579.07	14365584.18	39°33'32.3626"N	80°43'21.6572"W	point
Eckleberry Unit 1H LP Rev-2	7077.00	460.38	2535.40	1718642.22	14365400.21	39°33'30.5417"N	80°43'20.8579"W	point
Eckleberry Unit 1H BHL Rev-2	7155.26	-13675.76	7387.92	1723492.82	14351269.66	39°31'10.6785"N	80°42'19.4947"W	point
Eckleberry Unit 1H 50' L/R Hard Line	7250.00	-6515.67	4930.08	1721035.95	14358426.92	39°32'21.5218"N	80°42'50.5673"W	rectangle
2D Rectangle 15140.4 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Eckleberry Unit 1H AWB Ref Wellpath: Eckleberry Unit 1H AWP Proj: 22961'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	534.00	Gyodata 2015 - GC+VIR+DPIPE	01 Gyodata MS Gyro <17-1/2"> (100'-534')	Eckleberry Unit 1H AWB	9/8/2022
534.00	3600.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-1/4"> (534')(687'-3600')	Eckleberry Unit 1H AWB	9/8/2022
3600.00	6727.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (3600')(3699'-6727')	Eckleberry Unit 1H AWB	10/24/2022
6727.00	22961.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (6727')(6776'-22936')	Eckleberry Unit 1H AWB	10/24/2022

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Eckleberry Unit 1H AWP Proj: 22961'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Eckleberry Unit 1H
Field	Wetzel	API	47-103-03492-0000
Facility	Furbee Pad	Wellbore	Eckleberry Unit 1H AWB
Slot	Slot B		

COMMENTS
<p>Wellpath general comments API: 47-103-03492-0000 BH Job #: 111490439 Rig: H&P 519 Duration: 10/28/2022-11/1/2022 Gyrodatta MS Gyro <17-1/2"> (100'-534') APS EM <12-1/4"> (534')(687'-3600') APS EM <8-3/4"> (3600')(3699'-6727') BH AT Curve <8-1/2"> (6727')(6776'-22936') Sycamore: 7233' MD Middlesex: 7406' MD Burkett: 7559' MD Tully: 7618' MD Hamilton: 7714' MD Marcellus POE: 7826' MD Projected MD at TD: 22961'</p>

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