



ANTERO RESOURCES CORPORATION

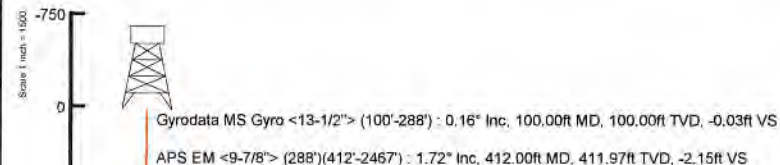


Location: Doddridge Co., WV
 Field: Doddridge
 Facility: Gaspar Pad

Slot: Slot D
 Well: Calhoun Unit 1H
 Wellbore: Calhoun Unit 1H PWB

Plot reference wellpath for Calhoun Unit 1H PWP Rev-B,1	Grid System: NAD27 / UTM Zone 17 North, US foot
True vertical depths are referenced to H&P 531 (RKB)	North Reference: G4d north
Reference wellpath measured depths are referenced to H&P 531 (RKB)	Scale: True distance
H&P 531 (RKB) to Mean Sea Level: 1210 feet	Coordinates are in feet referenced to G4d
Mean Sea Level to Ground level (At Slot: Slot D): -1189 feet	Depths are in feet
Offical wellpath MDs are referenced to each party's default MD datum	Created by: edkayser on 2022-05-14, Database: WA_MPL_EASTERNUS_Data

Well Data			
Slot	Well	Wellbore	Wellpath
Slot D	Calhoun Unit 1H	Calhoun Unit 1H AWB	Calhoun Unit 1H AWP Proj 15132'
Slot D	Calhoun Unit 1H	Calhoun Unit 1H PWB	Calhoun Unit 1H PWP Rev-B,1



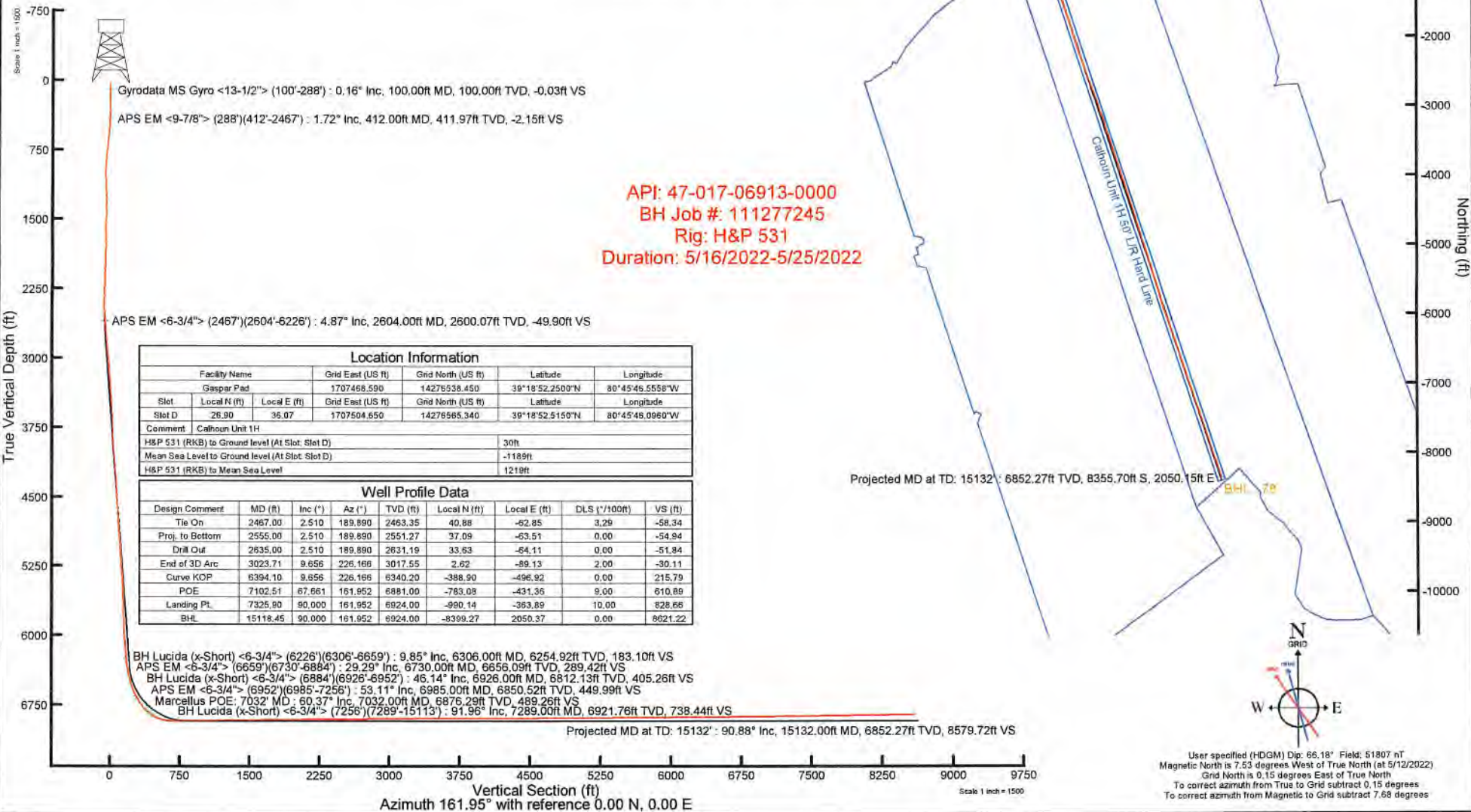
APS EM <6-3/4"> (2467')(2604'-6226') : 4.87° Inc, 2604.00ft MD, 2600.07ft TVD, -49.90ft VS

Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Gaspar Pad	1707466.590	14276538.450	39°18'52.2500"N	80°45'46.5558"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Longitude
Slot D	26.90	36.07	1707504.650	14276565.340	39°18'52.5150"N 80°45'46.0960"W
Comment	Calhoun Unit 1H				
H&P 531 (RKB) to Ground level (At Slot: Slot D)	30ft				
Mean Sea Level to Ground level (At Slot: Slot D)	-1189ft				
H&P 531 (RKB) to Mean Sea Level	1210ft				

Well Profile Data							
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	VS (ft)
Tie On	2467.00	2.510	189.890	2463.35	40.88	-62.85	3.29
Proj. to Bottom	2555.00	2.510	189.890	2551.27	37.09	-63.61	0.00
Drill Out	2635.00	2.510	189.890	2631.19	33.63	-64.11	0.00
End of 3D Arc	3023.71	9.656	226.166	3017.55	2.62	-89.13	2.00
Curve KOP	6394.10	9.656	226.166	6340.20	-388.90	-496.92	0.00
POE	7102.51	67.661	161.952	6881.00	-783.08	-431.36	9.00
Landing Pt.	7325.90	90.000	161.952	6924.00	-990.14	-363.89	10.00
BHL	15118.45	90.000	161.952	6924.00	-8399.27	2050.37	0.00

BH Lucida (x-Short) <6-3/4"> (6226')(6306'-8659') : 9.85° Inc, 6306.00ft MD, 6254.92ft TVD, 183.10ft VS
 APS EM <6-3/4"> (6659')(6730'-8884') : 29.29° Inc, 6730.00ft MD, 6656.09ft TVD, 289.42ft VS
 BH Lucida (x-Short) <6-3/4"> (6884')(6926'-8952') : 46.14° Inc, 6926.00ft MD, 6812.13ft TVD, 405.26ft VS
 APS EM <6-3/4"> (6952')(6985'-7256') : 53.11° Inc, 6985.00ft MD, 6850.52ft TVD, 449.99ft VS
 Marcellus POE: 7032' MD, 60.37° Inc, 7032.00ft MD, 6876.29ft TVD, 489.26ft VS
 BH Lucida (x-Short) <6-3/4"> (7256')(7289'-15113') : 91.96° Inc, 7289.00ft MD, 6921.76ft TVD, 738.44ft VS

Projected MD at TD: 15132' : 90.88° Inc, 15132.00ft MD, 6852.27ft TVD, 8579.72ft VS



API: 47-017-06913-0000
 BH Job #: 111277245
 Rig: H&P 531
 Duration: 5/16/2022-5/25/2022



User specified (HDGM) Dip: 66.18° Field: 51807 nT
 Magnetic North is 7.53 degrees West of True North (at 5/12/2022)
 Grid North is 0.15 degrees East of True North
 To correct azimuth from True to Grid subtract 0.15 degrees
 To correct azimuth from Magnetic to Grid subtract 7.68 degrees



Actual Wellpath Report

Calhoun Unit 1H AWP Proj: 15132'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Calhoun Unit 1H
Field	Doddridge	API	47-017-06913-0000
Facility	Gaspar Pad	Wellbore	Calhoun Unit 1H AWB
Slot	Slot D		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999605	Report Generated	6/14/2022 at 12:19:01 PM
Convergence at slot	0.15° 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	26.90	36.07	1707504.65	14276565.34	39°18'52.5150"N	80°45'46.0960"W
Facility Reference Pt			1707468.59	14276538.45	39°18'52.2500"N	80°45'46.5558"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 531 (RKB) to Facility Vertical Datum	1219.00ft
Horizontal Reference Pt	Slot	H&P 531 (RKB) to Mean Sea Level	1219.00ft
Vertical Reference Pt	H&P 531 (RKB)	H&P 531 (RKB) to Ground Level at Slot (Slot D)	30.00ft
MD Reference Pt	H&P 531 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	161.95°



Actual Wellpath Report

Calhoun Unit 1H AWP Proj: 15132'
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Field	Doddridge	API	47-017-06913-0000
Facility	Gaspar Pad	Wellbore	Calhoun Unit 1H AWB
Slot	Slot D		

WELLPATH DATA (178 stations) † = interpolated, ‡ = extrapolated station																
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS ["/100ft]	Build Rate ["/100ft]	Turn Rate ["/100ft]	Comments
0.00†	0.000	270.100	0.00	0.00	0.00	0.00	1707504.65	14276565.34	39°18'52.5150"N	80°45'46.0960"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	270.100	30.00	0.00	0.00	0.00	1707504.65	14276565.34	39°18'52.5150"N	80°45'46.0960"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.160	270.100	100.00	-0.03	0.00	-0.10	1707504.55	14276565.34	39°18'52.5150"N	80°45'46.0972"W	0.10	270.100	0.23	0.23	0.00	Gyrodata MS Gyro <13-1/2"> (100'-288')
200.00	0.330	273.620	200.00	-0.18	0.02	-0.52	1707504.13	14276565.36	39°18'52.5152"N	80°45'46.1027"W	0.53	272.030	0.17	0.17	3.52	
288.00	0.460	260.080	288.00	-0.32	-0.03	-1.13	1707503.52	14276565.31	39°18'52.5148"N	80°45'46.1103"W	1.13	268.664	0.18	0.15	-15.39	
412.00	1.720	322.300	411.97	-2.15	1.36	-2.75	1707501.90	14276566.70	39°18'52.5285"N	80°45'46.1310"W	3.07	296.289	1.26	1.02	50.18	APS EM <9-7/8"> (288')(412'-2467')
502.00	4.160	328.480	501.85	-6.59	5.21	-5.29	1707499.37	14276570.55	39°18'52.5666"N	80°45'46.1631"W	7.42	314.593	2.73	2.71	6.87	
593.00	5.930	327.440	592.49	-14.36	11.99	-9.54	1707495.11	14276577.32	39°18'52.6337"N	80°45'46.2170"W	15.32	321.481	1.95	1.95	-1.14	
683.00	6.730	322.030	681.94	-23.81	20.06	-15.29	1707489.37	14276585.40	39°18'52.7137"N	80°45'46.2898"W	25.23	322.692	1.11	0.89	-6.01	
773.00	7.110	317.510	771.29	-33.84	28.33	-22.30	1707482.36	14276593.66	39°18'52.7956"N	80°45'46.3787"W	36.05	321.796	0.74	0.42	-5.02	
863.00	5.980	309.760	860.70	-42.88	35.44	-29.66	1707475.00	14276600.76	39°18'52.8660"N	80°45'46.4722"W	46.21	320.067	1.59	-1.26	-8.61	
953.00	3.330	275.810	950.41	-47.91	38.70	-35.87	1707468.79	14276604.02	39°18'52.8984"N	80°45'46.5511"W	52.77	317.173	4.13	-2.94	-37.72	
1048.00	3.110	223.170	1045.28	-47.78	37.10	-40.38	1707464.29	14276602.42	39°18'52.8827"N	80°45'46.6085"W	54.83	312.576	3.01	-0.23	-55.41	
1142.00	2.340	174.680	1139.19	-44.68	33.33	-41.95	1707462.72	14276598.65	39°18'52.8455"N	80°45'46.6285"W	53.57	308.469	2.49	-0.82	-51.59	
1237.00	2.790	117.380	1234.11	-41.14	30.33	-39.71	1707464.95	14276595.66	39°18'52.8158"N	80°45'46.6002"W	49.97	307.373	2.62	0.47	-60.32	
1332.00	1.180	93.090	1329.05	-39.14	29.22	-36.68	1707467.98	14276594.55	39°18'52.8047"N	80°45'46.5617"W	46.90	308.537	1.88	-1.69	-25.57	
1427.00	1.990	292.500	1424.03	-39.86	29.80	-37.23	1707467.44	14276595.12	39°18'52.8104"N	80°45'46.5686"W	47.68	308.671	3.29	0.85	-169.04	
1521.00	3.410	284.950	1517.93	-42.45	31.14	-41.44	1707463.23	14276596.47	39°18'52.8238"N	80°45'46.6222"W	51.84	306.925	1.55	1.51	-8.03	
1616.00	2.550	274.920	1612.80	-44.81	32.05	-46.27	1707458.39	14276597.38	39°18'52.8330"N	80°45'46.6836"W	56.29	304.708	1.06	-0.91	-10.56	
1710.00	2.400	264.850	1706.71	-46.07	32.05	-50.32	1707454.35	14276597.38	39°18'52.8331"N	80°45'46.7351"W	59.66	302.499	0.49	-0.16	-10.71	
1805.00	2.650	262.510	1801.62	-46.91	31.59	-54.48	1707450.20	14276596.92	39°18'52.8286"N	80°45'46.7880"W	62.97	300.109	0.28	0.26	-2.46	
1899.00	2.200	295.400	1895.54	-48.55	32.08	-58.26	1707446.41	14276597.41	39°18'52.8336"N	80°45'46.8362"W	66.51	298.839	1.53	-0.48	34.99	
1994.00	1.470	318.380	1990.49	-50.92	33.77	-60.72	1707443.96	14276599.10	39°18'52.8504"N	80°45'46.8673"W	69.48	299.085	1.08	-0.77	24.19	
2089.00	1.550	354.910	2085.46	-53.29	35.96	-61.64	1707443.03	14276601.29	39°18'52.8720"N	80°45'46.8790"W	71.36	300.261	1.00	0.08	38.45	
2183.00	1.710	359.550	2179.42	-55.87	38.83	-61.76	1707442.91	14276603.96	39°18'52.8984"N	80°45'46.8805"W	72.85	302.026	0.22	0.17	4.94	
2278.00	1.120	6.240	2274.39	-58.07	40.97	-61.67	1707443.00	14276606.30	39°18'52.9215"N	80°45'46.8793"W	74.04	303.598	0.64	-0.62	7.04	
2373.00	0.830	317.820	2369.38	-59.54	42.41	-62.04	1707442.64	14276607.73	39°18'52.9357"N	80°45'46.8838"W	75.14	304.356	0.89	-0.31	-50.97	
2467.00	2.510	189.890	2463.35	-58.34	40.88	-62.85	1707441.83	14276606.21	39°18'52.9207"N	80°45'46.8942"W	74.97	303.045	3.29	1.79	-136.10	
2604.00	4.870	156.220	2600.07	-49.90	32.60	-61.02	1707443.66	14276597.93	39°18'52.8388"N	80°45'46.8712"W	69.18	298.117	2.27	1.72	-24.58	APS EM <6-3/4"> (2467')(2604'-6226')
2699.00	4.700	194.610	2694.77	-42.61	25.15	-60.37	1707444.30	14276590.48	39°18'52.7651"N	80°45'46.8632"W	65.40	292.612	3.31	-0.18	40.41	



Actual Wellpath Report

Calhoun Unit 1H AWP Proj: 15132'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Calhoun Unit 1H
Field	Doddridge	API	47-017-06913-0000
Facility	Gaspar Pad	Wellbore	Calhoun Unit 1H AWB
Slot	Slot D		

WELLPATH DATA (178 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
2793.00	7.850	212.360	2788.20	-35.28	15.99	-64.78	1707439.90	14276581.33	39°18'52.6747"N	80°45'46.9196"W	66.73	283.868	3.90	3.35	18.88	
2887.00	7.290	199.750	2881.39	-26.47	4.96	-70.23	1707434.45	14276570.29	39°18'52.5658"N	80°45'46.9894"W	70.41	274.037	1.86	-0.60	-13.41	
2982.00	9.070	213.900	2975.43	-17.09	-6.93	-76.45	1707428.23	14276558.41	39°18'52.4484"N	80°45'47.0688"W	76.76	264.818	2.82	1.87	14.89	
3076.00	8.810	206.890	3068.29	-7.43	-19.50	-83.83	1707420.85	14276545.84	39°18'52.3244"N	80°45'47.1633"W	86.07	256.904	1.19	-0.28	-7.46	
3171.00	7.140	227.800	3162.38	0.13	-29.96	-91.50	1707413.19	14276535.39	39°18'52.2212"N	80°45'47.2611"W	96.28	251.870	3.49	-1.76	22.01	
3270.00	8.420	230.840	3260.47	5.26	-38.67	-101.68	1707403.01	14276526.68	39°18'52.1354"N	80°45'47.3909"W	108.78	249.177	1.36	1.29	3.07	
3365.00	9.340	229.610	3354.33	10.70	-48.06	-112.94	1707391.75	14276517.30	39°18'52.0429"N	80°45'47.5346"W	122.74	246.950	0.99	0.97	-1.29	
3459.00	10.770	231.760	3446.89	16.63	-58.44	-125.65	1707379.05	14276506.93	39°18'51.9407"N	80°45'47.6966"W	138.58	245.058	1.57	1.52	2.29	
3553.00	9.440	221.390	3539.43	23.58	-69.66	-137.65	1707367.06	14276495.71	39°18'51.8301"N	80°45'47.8496"W	154.27	243.158	2.39	-1.41	-11.03	
3648.00	8.900	238.950	3633.24	29.20	-79.30	-149.10	1707355.61	14276486.08	39°18'51.7351"N	80°45'47.9956"W	168.87	241.994	2.99	-0.57	18.48	
3742.00	10.560	246.260	3725.89	31.69	-86.51	-163.21	1707341.50	14276478.86	39°18'51.6641"N	80°45'48.1754"W	184.73	242.073	2.20	1.77	7.78	
3837.00	10.650	239.680	3819.27	34.41	-94.45	-178.76	1707325.96	14276470.93	39°18'51.5861"N	80°45'48.3735"W	202.18	242.149	1.28	0.09	-6.93	
3932.00	10.480	230.250	3912.66	39.48	-104.41	-192.98	1707311.74	14276460.97	39°18'51.4880"N	80°45'48.5548"W	219.42	241.585	1.83	-0.18	-9.93	
4026.00	10.110	226.740	4005.15	46.15	-115.53	-205.56	1707299.17	14276449.86	39°18'51.3785"N	80°45'48.7152"W	235.80	240.664	0.77	-0.39	-3.73	
4120.00	9.460	217.680	4097.79	54.01	-127.30	-216.29	1707288.44	14276438.09	39°18'51.2624"N	80°45'48.8521"W	250.97	239.522	1.78	-0.69	-9.64	
4215.00	7.820	223.170	4191.71	61.52	-138.19	-225.49	1707279.25	14276427.20	39°18'51.1550"N	80°45'48.9695"W	264.47	238.498	1.93	-1.73	5.78	
4309.00	7.100	215.470	4284.91	68.06	-147.59	-233.24	1707271.51	14276417.81	39°18'51.0623"N	80°45'49.0683"W	276.01	237.675	1.31	-0.77	-8.19	
4404.00	8.380	240.090	4379.07	72.97	-155.82	-242.65	1707262.10	14276409.58	39°18'50.9812"N	80°45'49.1883"W	288.37	237.292	3.71	1.35	25.92	
4498.00	9.040	231.960	4471.99	76.90	-163.79	-254.40	1707250.35	14276401.62	39°18'50.9027"N	80°45'49.3381"W	302.57	237.226	1.48	0.70	-8.65	
4592.00	8.140	222.250	4564.94	82.73	-173.27	-264.69	1707240.06	14276392.14	39°18'50.8093"N	80°45'49.4694"W	316.36	236.791	1.81	-0.96	-10.33	
4687.00	10.150	230.610	4658.73	89.10	-183.56	-275.68	1707229.08	14276381.85	39°18'50.7079"N	80°45'49.6096"W	331.20	236.343	2.53	2.12	8.80	
4781.00	10.640	233.080	4751.19	94.93	-194.03	-289.02	1707215.74	14276371.39	39°18'50.6048"N	80°45'49.7797"W	348.11	236.126	0.70	0.52	2.63	
4875.00	11.190	234.000	4843.49	100.54	-204.60	-303.34	1707201.43	14276360.82	39°18'50.5006"N	80°45'49.9622"W	365.89	236.001	0.61	0.59	0.98	
4970.00	10.280	224.300	4936.83	107.32	-216.09	-316.72	1707188.06	14276349.34	39°18'50.3874"N	80°45'50.1328"W	383.41	235.696	2.13	-0.96	-10.21	
5064.00	8.720	228.810	5029.54	114.01	-226.78	-327.94	1707176.84	14276338.65	39°18'50.2820"N	80°45'50.2759"W	398.72	235.335	1.84	-1.66	4.80	
5164.00	9.360	229.960	5128.30	120.04	-237.01	-339.87	1707164.91	14276328.43	39°18'50.1813"N	80°45'50.4280"W	414.35	235.110	0.66	0.64	1.15	
5258.00	10.900	232.430	5220.83	125.87	-247.34	-352.77	1707152.02	14276318.09	39°18'50.0794"N	80°45'50.5924"W	430.84	234.964	1.70	1.64	2.63	
5353.00	9.710	219.000	5314.31	133.23	-259.05	-364.93	1707139.86	14276306.39	39°18'49.9641"N	80°45'50.7476"W	447.53	234.631	2.81	-1.25	-14.14	
5448.00	7.820	228.340	5408.20	140.17	-269.57	-374.80	1707130.00	14276295.87	39°18'49.8603"N	80°45'50.8735"W	461.68	234.275	2.48	-1.99	9.83	
5543.00	8.390	237.670	5502.26	144.47	-277.58	-385.49	1707119.31	14276287.87	39°18'49.7815"N	80°45'51.0097"W	475.03	234.244	1.51	0.60	9.82	



Actual Wellpath Report

Calhoun Unit 1H AWP Proj: 15132'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Calhoun Unit 1H
Field	Doddridge	API	47-017-06913-0000
Facility	Gaspar Pad	Wellbore	Calhoun Unit 1H AWB
Slot	Slot D		

WELLPATH DATA (178 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
5637.00	10.090	243.280	5595.04	147.41	-284.95	-398.64	1707106.17	14276280.51	39°18'49.7090"N	80°45'51.1773"W	490.01	234.443	2.04	1.81	5.97	
5732.00	9.210	246.400	5688.69	149.40	-291.73	-413.04	1707091.77	14276273.72	39°18'49.6423"N	80°45'51.3607"W	505.68	234.766	1.08	-0.93	3.28	
5826.00	8.180	237.740	5781.61	151.77	-298.31	-425.59	1707079.23	14276267.14	39°18'49.5776"N	80°45'51.5206"W	519.73	234.972	1.77	-1.10	-9.21	
5921.00	10.080	238.500	5875.41	155.36	-306.27	-438.39	1707066.43	14276259.20	39°18'49.4993"N	80°45'51.6838"W	534.78	235.062	2.00	2.00	0.80	
6015.00	10.070	228.090	5967.96	160.60	-316.05	-451.52	1707053.30	14276249.41	39°18'49.4029"N	80°45'51.8512"W	551.15	235.009	1.93	-0.01	-11.07	
6110.00	9.130	217.330	6061.64	168.24	-327.60	-462.28	1707042.56	14276237.87	39°18'49.2891"N	80°45'51.9884"W	566.59	234.676	2.13	-0.99	-11.33	
6204.00	9.440	228.110	6154.42	175.59	-338.67	-472.54	1707032.30	14276226.80	39°18'49.1799"N	80°45'52.1193"W	581.37	234.370	1.88	0.33	11.47	
6226.00	9.870	227.740	6176.10	177.09	-341.15	-475.28	1707029.56	14276224.33	39°18'49.1555"N	80°45'52.1542"W	585.04	234.330	1.97	1.95	-1.68	
6306.00	9.850	224.170	6254.92	183.10	-350.67	-485.12	1707019.72	14276214.81	39°18'49.0617"N	80°45'52.2798"W	598.59	234.139	0.76	-0.03	-4.46	BH Lucida (x-Short) <6-3/4"> (6226')(6306'-6659')
6401.00	12.660	208.930	6348.11	193.99	-365.61	-495.82	1707009.02	14276199.87	39°18'48.9142"N	80°45'52.4164"W	616.05	233.595	4.28	2.96	-16.04	
6495.00	16.420	198.790	6439.10	211.66	-387.22	-505.09	1706999.76	14276178.28	39°18'48.7009"N	80°45'52.5350"W	636.44	232.525	4.82	4.00	-10.79	
6515.00†	17.314	197.157	6458.24	216.35	-392.74	-506.88	1706997.97	14276172.76	39°18'48.6464"N	80°45'52.5580"W	641.22	232.231	5.06	4.47	-8.17	Sycamore: 6515' MD
6590.00	20.760	192.270	6529.13	236.95	-416.40	-513.00	1706991.86	14276149.11	39°18'48.4127"N	80°45'52.6366"W	660.72	230.934	5.06	4.59	-6.52	
6659.00	24.550	189.530	6592.79	260.22	-442.49	-517.97	1706986.88	14276123.02	39°18'48.1549"N	80°45'52.7008"W	681.24	229.493	5.70	5.49	-3.97	
6730.00	29.290	183.930	6656.09	289.42	-474.39	-521.61	1706983.25	14276091.14	39°18'47.8398"N	80°45'52.7481"W	705.07	227.714	7.56	6.68	-7.89	APS EM <6-3/4"> (6659')(6730'-6884')
6736.00†	29.675	182.759	6661.31	292.17	-477.34	-521.78	1706983.08	14276088.19	39°18'47.8106"N	80°45'52.7503"W	707.18	227.547	11.55	6.42	-19.51	Middlesex: 6736' MD
6825.00	36.380	168.360	6736.01	339.12	-525.32	-517.50	1706987.35	14276040.23	39°18'47.3362"N	80°45'52.6975"W	737.41	224.570	11.55	7.53	-16.18	
6884.00	41.640	160.240	6781.87	376.16	-560.96	-507.33	1706997.52	14276004.61	39°18'46.9838"N	80°45'52.5693"W	756.34	222.126	12.42	8.92	-13.76	
6899.00†	43.247	160.454	6792.93	386.27	-570.49	-503.93	1707000.92	14275995.08	39°18'46.8895"N	80°45'52.5263"W	761.18	221.455	10.76	10.71	1.43	Burkett: 6899' MD
6926.00	46.140	160.810	6812.13	405.26	-588.40	-497.63	1707007.22	14275977.17	39°18'46.7123"N	80°45'52.4468"W	770.62	220.222	10.76	10.72	1.32	BH Lucida (x-Short) <6-3/4"> (6884')(6926'-6952')
6940.00†	47.518	160.656	6821.70	415.46	-598.04	-494.26	1707010.58	14275967.54	39°18'46.6169"N	80°45'52.4043"W	775.85	219.573	9.88	9.85	-1.10	Tully: 6940' MD
6952.00	48.700	160.530	6829.72	424.39	-606.47	-491.29	1707013.55	14275959.11	39°18'46.5336"N	80°45'52.3668"W	780.49	219.011	9.88	9.85	-1.05	
6985.00	53.110	160.500	6850.52	449.99	-630.61	-482.75	1707022.09	14275934.98	39°18'46.2948"N	80°45'52.2589"W	794.17	217.435	13.36	13.36	-0.09	APS EM <6-3/4"> (6952')(6985'-7256')
7032.00†	60.369	163.666	6876.29	489.26	-667.98	-470.72	1707034.12	14275897.62	39°18'45.9250"N	80°45'52.1070"W	817.17	215.172	16.44	15.45	6.74	Marcellus POE: 7032' MD
7034.00	60.680	163.790	6877.27	491.00	-669.65	-470.23	1707034.61	14275895.95	39°18'45.9085"N	80°45'52.1009"W	818.26	215.076	16.44	15.53	6.19	
7082.00	69.070	164.230	6897.63	534.39	-711.39	-458.27	1707046.56	14275854.23	39°18'45.4957"N	80°45'51.9501"W	846.22	212.789	17.50	17.48	0.92	
7119.00	75.700	163.960	6908.82	569.61	-745.29	-448.61	1707056.22	14275820.35	39°18'45.1604"N	80°45'51.8284"W	869.89	211.045	17.93	17.92	-0.73	
7176.00	83.750	164.710	6918.98	625.60	-799.25	-433.49	1707071.34	14275766.41	39°18'44.6267"N	80°45'51.6377"W	909.23	208.474	14.18	14.12	1.32	
7192.00	86.180	164.730	6920.39	641.52	-814.62	-429.29	1707075.53	14275751.04	39°18'44.4746"N	80°45'51.5848"W	920.81	207.788	15.19	15.19	0.13	
7207.00	87.120	164.320	6921.26	656.48	-829.05	-425.29	1707079.53	14275736.62	39°18'44.3319"N	80°45'51.5344"W	931.77	207.157	6.83	6.27	-2.73	



Actual Wellpath Report

Calhoun Unit 1H AWP Proj: 15132'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Calhoun Unit 1H
Field	Doddridge	API	47-017-06913-0000
Facility	Gaspar Pad	Wellbore	Calhoun Unit 1H AWB
Slot	Slot D		

WELLPATH DATA (178 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
7222.00	88.120	163.160	6921.89	671.46	-843.44	-421.09	1707083.72	14275722.23	39°18'44.1896"N	80°45'51.4815"W	942.72	206.531	10.21	6.67	-7.73	
7236.00	89.290	162.810	6922.20	685.45	-856.82	-416.97	1707087.84	14275708.86	39°18'44.0573"N	80°45'51.4295"W	952.89	205.950	9.23	8.36	-3.93	
7256.00	90.000	162.850	6922.33	705.45	-875.92	-411.04	1707093.78	14275689.77	39°18'43.8684"N	80°45'51.3546"W	967.56	205.139	3.75	3.55	1.20	
7289.00	91.960	163.160	6921.76	738.44	-907.47	-401.39	1707103.42	14275658.23	39°18'43.5563"N	80°45'51.2330"W	992.28	203.861	6.01	5.94	0.94	BH Lucida (x-Short) <6-3/4"> (7256')(7289'-15113')
7344.00	91.060	161.670	6920.31	793.41	-959.88	-384.78	1707120.02	14275605.84	39°18'43.0378"N	80°45'51.0234"W	1034.13	201.844	3.16	-1.64	-2.71	
7438.00	90.660	161.930	6918.90	887.40	-1049.16	-355.43	1707149.36	14275516.59	39°18'42.1546"N	80°45'50.6529"W	1107.73	198.715	0.51	-0.43	0.28	
7533.00	90.510	161.240	6917.93	982.40	-1139.29	-325.42	1707179.36	14275426.50	39°18'41.2630"N	80°45'50.2741"W	1184.86	195.941	0.74	-0.16	-0.73	
7627.00	90.660	162.280	6916.97	1076.39	-1228.57	-296.00	1707208.77	14275337.26	39°18'40.3799"N	80°45'49.9028"W	1263.72	193.546	1.12	0.16	1.11	
7722.00	90.850	161.220	6915.72	1171.38	-1318.78	-266.25	1707238.50	14275247.09	39°18'39.4875"N	80°45'49.5273"W	1345.39	191.414	1.13	0.20	-1.12	
7816.00	90.720	160.600	6914.43	1265.35	-1407.60	-235.51	1707269.23	14275158.30	39°18'38.6089"N	80°45'49.1392"W	1427.17	189.498	0.67	-0.14	-0.66	
7911.00	90.630	159.420	6913.31	1360.29	-1496.87	-203.04	1707301.69	14275069.07	39°18'37.7257"N	80°45'48.7290"W	1510.58	187.725	1.25	-0.09	-1.24	
8005.00	90.510	162.700	6912.38	1454.26	-1585.76	-172.53	1707332.18	14274980.21	39°18'36.8463"N	80°45'48.3439"W	1595.12	186.209	3.49	-0.13	3.49	
8100.00	90.540	161.980	6911.51	1549.26	-1676.28	-143.71	1707360.99	14274889.72	39°18'35.9509"N	80°45'47.9803"W	1682.43	184.900	0.76	0.03	-0.76	
8194.00	90.600	162.030	6910.57	1643.25	-1765.68	-114.68	1707390.02	14274800.36	39°18'35.0666"N	80°45'47.6138"W	1769.40	183.716	0.08	0.06	0.05	
8289.00	90.570	161.760	6909.60	1738.25	-1855.97	-85.16	1707419.53	14274710.11	39°18'34.1734"N	80°45'47.2413"W	1857.92	182.627	0.29	-0.03	-0.28	
8383.00	90.720	162.700	6908.54	1832.24	-1945.48	-56.47	1707448.20	14274620.63	39°18'33.2880"N	80°45'46.8793"W	1946.30	181.663	1.01	0.16	1.00	
8478.00	90.660	162.540	6907.40	1927.22	-2036.13	-28.09	1707476.57	14274530.01	39°18'32.3913"N	80°45'46.5213"W	2036.33	180.791	0.18	-0.06	-0.17	
8573.00	90.690	161.740	6906.28	2022.22	-2126.55	1.04	1707505.69	14274439.63	39°18'31.4969"N	80°45'46.1537"W	2126.55	179.972	0.84	0.03	-0.84	
8667.00	90.690	162.240	6905.15	2116.21	-2215.94	30.10	1707534.74	14274350.28	39°18'30.6127"N	80°45'45.7870"W	2216.14	179.222	0.53	0.00	0.53	
8762.00	90.050	160.230	6904.53	2211.19	-2305.88	60.66	1707565.28	14274260.37	39°18'29.7229"N	80°45'45.4012"W	2306.68	178.493	2.22	-0.67	-2.12	
8856.00	90.600	160.730	6904.00	2305.16	-2394.48	92.07	1707596.68	14274171.81	39°18'28.8464"N	80°45'45.0046"W	2396.24	177.798	0.79	0.59	0.53	
8951.00	90.600	160.470	6903.01	2400.13	-2484.08	123.62	1707628.22	14274082.25	39°18'27.9600"N	80°45'44.6062"W	2487.15	177.151	0.27	0.00	-0.27	
9046.00	90.170	160.540	6902.37	2495.10	-2573.63	155.32	1707659.91	14273992.73	39°18'27.0741"N	80°45'44.2059"W	2578.31	176.546	0.46	-0.45	0.07	
9140.00	90.170	158.270	6902.09	2589.00	-2661.61	188.39	1707692.96	14273904.78	39°18'26.2036"N	80°45'43.7882"W	2668.27	175.951	2.41	0.00	-2.41	
9234.00	90.380	156.820	6901.64	2682.72	-2748.48	224.29	1707728.85	14273817.95	39°18'25.3441"N	80°45'43.3344"W	2757.62	175.335	1.56	0.22	-1.54	
9329.00	90.780	160.350	6900.68	2777.53	-2836.91	258.97	1707763.51	14273729.56	39°18'24.4693"N	80°45'42.8962"W	2848.70	174.784	3.74	0.42	3.72	
9424.00	90.880	162.800	6899.30	2872.51	-2927.02	288.99	1707793.52	14273639.48	39°18'23.5778"N	80°45'42.5173"W	2941.25	174.361	2.58	0.11	2.58	
9518.00	90.600	162.750	6898.09	2966.50	-3016.80	316.82	1707821.35	14273549.74	39°18'22.6898"N	80°45'42.1662"W	3033.39	174.005	0.30	-0.30	-0.05	
9613.00	90.140	158.200	6897.47	3061.44	-3106.31	348.56	1707853.07	14273460.26	39°18'21.8043"N	80°45'41.7654"W	3125.80	173.598	4.81	-0.48	-4.79	
9708.00	90.850	161.350	6896.65	3156.35	-3195.44	381.40	1707885.90	14273371.17	39°18'20.9225"N	80°45'41.3507"W	3218.12	173.194	3.40	0.75	3.32	



Actual Wellpath Report

Calhoun Unit 1H AWP Proj: 15132'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Calhoun Unit 1H
Field	Doddridge	API	47-017-06913-0000
Facility	Gaspar Pad	Wellbore	Calhoun Unit 1H AWB
Slot	Slot D		

WELLPATH DATA (178 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
9802.00	90.110	162.570	6895.86	3250.35	-3284.81	410.51	1707915.00	14273281.83	39°18'20.0384"N	80°45'40.9834"W	3310.36	172.877	1.52	-0.79	1.30	
9897.00	90.170	162.510	6895.63	3345.34	-3375.43	439.01	1707943.49	14273191.25	39°18'19.1420"N	80°45'40.6238"W	3403.86	172.590	0.09	0.06	-0.06	
9991.00	90.260	162.020	6895.28	3439.34	-3464.96	467.65	1707972.11	14273101.75	39°18'18.2563"N	80°45'40.2625"W	3496.38	172.314	0.53	0.10	-0.52	
10086.00	90.200	162.130	6894.90	3534.34	-3555.35	496.88	1708001.34	14273011.40	39°18'17.3622"N	80°45'39.8936"W	3589.91	172.044	0.13	-0.06	0.12	
10181.00	90.110	162.510	6894.64	3629.34	-3645.86	525.73	1708030.18	14272920.92	39°18'16.4668"N	80°45'39.5297"W	3683.57	171.794	0.41	-0.09	0.40	
10275.00	90.080	161.540	6894.48	3723.33	-3735.27	554.74	1708059.17	14272831.55	39°18'15.5824"N	80°45'39.1636"W	3776.24	171.552	1.03	-0.03	-1.03	
10370.00	90.200	162.180	6894.25	3818.33	-3825.55	584.32	1708088.74	14272741.31	39°18'14.6893"N	80°45'38.7904"W	3869.92	171.316	0.69	0.13	0.67	
10464.00	90.140	162.490	6893.97	3912.33	-3915.12	612.84	1708117.25	14272651.77	39°18'13.8033"N	80°45'38.4306"W	3962.79	171.104	0.34	-0.06	0.33	
10559.00	90.230	162.390	6893.67	4007.33	-4005.69	641.51	1708145.90	14272561.24	39°18'12.9074"N	80°45'38.0690"W	4056.74	170.901	0.14	0.09	-0.11	
10653.00	90.260	162.680	6893.26	4101.32	-4095.36	669.72	1708174.10	14272471.61	39°18'12.0204"N	80°45'37.7132"W	4149.76	170.713	0.31	0.03	0.31	
10747.00	90.290	162.460	6892.81	4195.31	-4185.04	697.87	1708202.25	14272381.96	39°18'11.1333"N	80°45'37.3580"W	4242.83	170.533	0.24	0.03	-0.23	
10842.00	90.230	162.520	6892.38	4290.31	-4275.64	726.46	1708230.82	14272291.40	39°18'10.2371"N	80°45'36.9975"W	4336.91	170.357	0.09	-0.06	0.06	
10936.00	90.320	162.060	6891.93	4384.31	-4365.18	755.05	1708259.40	14272201.89	39°18'9.3513"N	80°45'36.6368"W	4430.00	170.187	0.50	0.10	-0.49	
11031.00	90.380	162.840	6891.35	4479.30	-4455.76	783.70	1708288.04	14272111.35	39°18'8.4554"N	80°45'36.2754"W	4524.15	170.025	0.82	0.06	0.82	
11126.00	90.230	162.740	6890.85	4574.29	-4546.50	811.80	1708316.13	14272020.64	39°18'7.5577"N	80°45'35.9209"W	4618.41	169.876	0.19	-0.16	-0.11	
11220.00	90.230	163.040	6890.47	4668.27	-4636.34	839.46	1708343.78	14271930.84	39°18'6.6691"N	80°45'35.5722"W	4711.73	169.737	0.32	0.00	0.32	
11315.00	90.450	162.730	6889.90	4763.26	-4727.13	867.42	1708371.72	14271840.08	39°18'5.7710"N	80°45'35.2196"W	4806.06	169.602	0.40	0.23	-0.33	
11410.00	90.420	162.870	6889.18	4858.25	-4817.88	895.51	1708399.80	14271749.37	39°18'4.8733"N	80°45'34.8653"W	4900.40	169.471	0.15	-0.03	0.15	
11504.00	90.260	162.700	6888.63	4952.24	-4907.67	923.33	1708427.61	14271659.62	39°18'3.9852"N	80°45'34.5145"W	4993.77	169.345	0.25	-0.17	-0.18	
11599.00	90.320	162.870	6888.14	5047.22	-4998.41	951.44	1708455.72	14271568.91	39°18'3.0876"N	80°45'34.1599"W	5088.16	169.223	0.19	0.06	0.18	
11693.00	90.480	162.950	6887.49	5141.21	-5088.26	979.07	1708483.33	14271479.10	39°18'2.1988"N	80°45'33.8116"W	5181.60	169.108	0.19	0.17	0.09	
11788.00	90.510	162.750	6886.67	5236.19	-5179.03	1007.08	1708511.33	14271388.36	39°18'1.3009"N	80°45'33.4583"W	5276.04	168.996	0.21	0.03	-0.21	
11882.00	90.260	162.920	6886.04	5330.18	-5268.84	1034.82	1708539.06	14271298.59	39°18'0.4125"N	80°45'33.1085"W	5369.50	168.888	0.32	-0.27	0.18	
11977.00	90.260	162.780	6885.60	5425.17	-5359.62	1062.83	1708567.06	14271207.85	39°17'59.5146"N	80°45'32.7552"W	5463.98	168.784	0.15	0.00	-0.15	
12071.00	90.510	162.680	6884.97	5519.16	-5449.38	1090.74	1708594.95	14271118.13	39°17'58.6267"N	80°45'32.4033"W	5557.47	168.681	0.29	0.27	-0.11	
12166.00	90.350	162.580	6884.26	5614.15	-5540.04	1119.10	1708623.30	14271027.50	39°17'57.7299"N	80°45'32.0456"W	5651.94	168.580	0.20	-0.17	-0.11	
12261.00	90.390	162.760	6883.65	5709.14	-5630.73	1147.40	1708651.59	14270936.85	39°17'56.8328"N	80°45'31.6887"W	5746.44	168.482	0.19	0.04	0.19	
12356.00	90.420	163.210	6882.98	5804.12	-5721.57	1175.19	1708679.38	14270846.04	39°17'55.9342"N	80°45'31.3382"W	5841.01	168.393	0.47	0.03	0.47	
12450.00	90.540	163.710	6882.19	5898.08	-5811.67	1201.95	1708706.13	14270755.97	39°17'55.0429"N	80°45'31.0009"W	5934.67	168.315	0.55	0.13	0.53	
12545.00	90.850	161.860	6881.04	5993.06	-5902.41	1230.07	1708734.23	14270665.27	39°17'54.1454"N	80°45'30.6464"W	6029.22	168.228	1.97	0.33	-1.95	



Actual Wellpath Report

Calhoun Unit 1H AWP Proj: 15132'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Calhoun Unit 1H
Field	Doddridge	API	47-017-06913-0000
Facility	Gaspar Pad	Wellbore	Calhoun Unit 1H AWP
Slot	Slot D		

WELLPATH DATA (178 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
12640.00	90.380	161.290	6880.02	6088.05	-5992.53	1260.09	1708764.24	14270575.19	39°17'53.2539"N	80°45'30.2675"W	6123.58	168.125	0.78	-0.49	-0.60	
12735.00	90.720	159.260	6879.10	6183.00	-6081.95	1292.15	1708796.29	14270485.80	39°17'52.3693"N	80°45'29.8628"W	6217.70	168.005	2.17	0.36	-2.14	
12832.00	90.140	160.150	6878.38	6279.92	-6172.92	1325.79	1708829.92	14270394.87	39°17'51.4692"N	80°45'29.4379"W	6313.69	167.878	1.10	-0.60	0.92	
12927.00	90.420	161.790	6877.91	6374.91	-6262.73	1356.77	1708860.88	14270305.10	39°17'50.5808"N	80°45'29.0470"W	6408.01	167.776	1.75	0.29	1.73	
13116.00	90.450	161.700	6876.48	6563.90	-6442.21	1415.97	1708920.06	14270125.69	39°17'48.8053"N	80°45'28.3001"W	6595.99	167.604	0.05	0.02	-0.05	
13210.00	90.630	161.690	6875.59	6657.89	-6531.45	1445.49	1708949.57	14270036.48	39°17'47.9225"N	80°45'27.9276"W	6689.49	167.521	0.19	0.19	-0.01	
13305.00	90.600	161.770	6874.57	6752.89	-6621.65	1475.27	1708979.34	14269946.31	39°17'47.0301"N	80°45'27.5519"W	6784.01	167.440	0.09	-0.03	0.08	
13400.00	90.510	161.740	6873.65	6847.88	-6711.87	1505.01	1709009.07	14269856.13	39°17'46.1377"N	80°45'27.1766"W	6878.54	167.362	0.10	-0.09	-0.03	
13494.00	90.750	161.800	6872.62	6941.88	-6801.15	1534.42	1709038.46	14269766.89	39°17'45.2545"N	80°45'26.8057"W	6972.09	167.286	0.26	0.26	0.06	
13589.00	90.450	161.450	6871.62	7036.87	-6891.30	1564.36	1709068.39	14269676.77	39°17'44.3627"N	80°45'26.4279"W	7066.63	167.210	0.49	-0.32	-0.37	
13683.00	90.600	162.070	6870.76	7130.87	-6980.57	1593.78	1709097.80	14269587.54	39°17'43.4796"N	80°45'26.0567"W	7160.21	167.139	0.68	0.16	0.66	
13778.00	90.720	161.500	6869.67	7225.86	-7070.81	1623.48	1709127.48	14269497.34	39°17'42.5869"N	80°45'25.6821"W	7254.79	167.069	0.61	0.13	-0.60	
13873.00	90.420	161.860	6868.72	7320.85	-7160.99	1653.34	1709157.33	14269407.19	39°17'41.6948"N	80°45'25.3054"W	7349.37	166.999	0.49	-0.32	0.38	
13968.00	90.720	161.640	6867.78	7415.85	-7251.21	1683.09	1709187.07	14269317.01	39°17'40.8024"N	80°45'24.9301"W	7443.97	166.932	0.39	0.32	-0.23	
14062.00	90.660	161.720	6866.64	7509.84	-7340.43	1712.63	1709216.60	14269227.82	39°17'39.9197"N	80°45'24.5573"W	7537.58	166.867	0.11	-0.06	0.09	
14157.00	90.790	161.770	6865.44	7604.83	-7430.65	1742.39	1709246.34	14269137.64	39°17'39.0273"N	80°45'24.1819"W	7632.20	166.803	0.15	0.14	0.05	
14251.00	90.750	161.690	6864.18	7698.82	-7519.90	1771.85	1709275.80	14269048.42	39°17'38.1443"N	80°45'23.8102"W	7725.82	166.742	0.10	-0.04	-0.09	
14346.00	90.880	161.670	6862.83	7793.81	-7610.08	1801.71	1709305.64	14268958.28	39°17'37.2523"N	80°45'23.4335"W	7820.45	166.680	0.14	0.14	-0.02	
14441.00	90.820	161.540	6861.42	7888.80	-7700.21	1831.68	1709335.61	14268868.18	39°17'36.3606"N	80°45'23.0554"W	7915.07	166.619	0.15	-0.06	-0.14	
14535.00	90.720	161.460	6860.16	7982.79	-7789.35	1861.51	1709365.42	14268779.09	39°17'35.4788"N	80°45'22.6791"W	8008.69	166.559	0.14	-0.11	-0.09	
14630.00	90.910	161.750	6858.80	8077.78	-7879.48	1891.48	1709395.38	14268688.98	39°17'34.5871"N	80°45'22.3009"W	8103.33	166.501	0.36	0.20	0.31	
14725.00	90.570	161.490	6857.58	8172.77	-7969.63	1921.44	1709425.32	14268598.87	39°17'33.6954"N	80°45'21.9230"W	8197.98	166.445	0.45	-0.36	-0.27	
14819.00	90.820	161.530	6856.44	8266.76	-8058.77	1951.25	1709455.12	14268509.77	39°17'32.8135"N	80°45'21.5469"W	8291.63	166.389	0.27	0.27	0.04	
14914.00	90.510	161.570	6855.33	8361.75	-8148.88	1981.31	1709485.17	14268419.69	39°17'31.9221"N	80°45'21.1677"W	8386.29	166.334	0.33	-0.33	0.04	
15009.00	90.880	161.600	6854.18	8456.74	-8239.01	2011.32	1709515.17	14268329.60	39°17'31.0305"N	80°45'20.7891"W	8480.96	166.281	0.39	0.39	0.03	
15103.00	90.910	161.560	6852.71	8550.72	-8328.18	2041.02	1709544.86	14268240.46	39°17'30.1483"N	80°45'20.4144"W	8574.63	166.230	0.05	0.03	-0.04	
15113.00	90.880	161.660	6852.56	8560.72	-8337.67	2044.17	1709548.01	14268230.98	39°17'30.0545"N	80°45'20.3746"W	8584.60	166.224	1.04	-0.30	1.00	
15132.00‡	90.880	161.660	6852.27	8579.72	-8355.70	2050.15	1709553.98	14268212.95	39°17'29.8761"N	80°45'20.2992"W	8603.54	166.214	0.00	0.00	0.00	Projected MD at TD: 15132'



Actual Wellpath Report

Calhoun Unit 1H AWP Proj: 15132'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Calhoun Unit 1H
Field	Doddridge	API	47-017-06913-0000
Facility	Gaspar Pad	Wellbore	Calhoun Unit 1H AWB
Slot	Slot D		

HOLE & CASING SECTIONS - Ref Wellbore: Calhoun Unit 1H AWB Ref Wellpath: Calhoun Unit 1H AWP Proj: 15132'										
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]	
16in Conductor	30.00	130.00	100.00	30.00	130.00	0.00	0.00	0.00	0.00	-0.19
13.5in Open Hole	130.00	353.00	223.00	130.00	352.99	0.00	-0.19	0.31	0.31	-1.82
10.75in Casing Surface	30.00	333.00	303.00	30.00	332.99	0.00	0.00	0.12	0.12	-1.57
9.875in Open Hole	353.00	2555.00	2202.00	352.99	2551.22	0.31	-1.82	36.11	36.11	-62.33
7.625in Casing Intermediate	30.00	2535.00	2505.00	30.00	2531.26	0.00	0.00	37.36	37.36	-62.65
6.75in Open Hole	2555.00	15132.00	12577.00	2551.22	6852.27	36.11	-62.33	-8355.70	-8355.70	2050.15
5in Casing Production	30.00	15112.00	15082.00	30.00	6852.57	0.00	0.00	-8336.72	-8336.72	2043.86



Actual Wellpath Report

Calhoun Unit 1H AWP Proj: 15132'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Calhoun Unit 1H
Field	Doddridge	API	47-017-06913-0000
Facility	Gaspar Pad	Wellbore	Calhoun Unit 1H AWB
Slot	Slot D		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Calhoun Unit 1H POE Rev-3	6881.00	-783.08	-431.36	1707073.46	14275782.57	39°18'44.7864"N	80°45'51.6101"W	point
Calhoun Unit 1H AZI Rev-1	6918.00	-1087.65	-332.12	1707172.67	14275478.12	39°18'41.7736"N	80°45'50.3576"W	point
Calhoun Unit 1H BHL Rev-4	6918.00	-8399.27	2050.37	1709554.21	14268169.40	39°17'29.4454"N	80°45'20.2978"W	point
Calhoun Unit 1H LP Rev-4	6918.00	-830.25	-414.96	1707089.86	14275735.42	39°18'44.3198"N	80°45'51.4030"W	point
Calhoun Unit 1H 50' L/R Hard Line	7250.00	-4591.18	809.51	1708313.84	14271975.98	39°18'7.1163"N	80°45'35.9517"W	rectangle
2D Rectangle 8010.33 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Calhoun Unit 1H AWB Ref Wellpath: Calhoun Unit 1H AWP Proj: 15132'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	288.00	Gyrodata 2015 - GC+WR+DPIPE	01 Gyrodata MS Gyro <13-1/2"> (100'-288')	Calhoun Unit 1H AWB	4/7/2022
288.00	2467.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <9-7/8"> (288')(412'-2467')	Calhoun Unit 1H AWB	4/7/2022
2467.00	6226.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <6-3/4"> (2467')(2604'-6226')	Calhoun Unit 1H AWB	5/12/2022
6226.00	6659.00	BH OnTrak (2019) (HRGM, X Short spacing)	04 BH Lucida (x-Short) <6-3/4"> (6226')(6306'-6659')	Calhoun Unit 1H AWB	5/12/2022
6659.00	6884.00	BH NaviTrak (2019) (Axial Corr+HRGM)	05 APS EM <6-3/4"> (6659')(6730'-6884')	Calhoun Unit 1H AWB	5/20/2022
6884.00	6952.00	BH OnTrak (2019) (HRGM, X Short spacing)	06 BH Lucida (x-Short) <6-3/4"> (6884')(6926'-6952')	Calhoun Unit 1H AWB	5/20/2022
6952.00	7256.00	BH NaviTrak (2019) (Axial Corr+HRGM)	07 APS EM <6-3/4"> (6952')(6985'-7256')	Calhoun Unit 1H AWB	5/24/2022
7256.00	15132.00	BH OnTrak (2019) (HRGM, X Short spacing)	08 BH Lucida (x-Short) <6-3/4"> (7256')(7289'-15113')	Calhoun Unit 1H AWB	5/24/2022



Actual Wellpath Report

Calhoun Unit 1H AWP Proj: 15132'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Calhoun Unit 1H
Field	Doddridge	API	47-017-06913-0000
Facility	Gaspar Pad	Wellbore	Calhoun Unit 1H AWB
Slot	Slot D		

COMMENTS
<p>Wellpath general comments API: 47-017-06913-0000 BH Job #: 111277245 Rig: H&P 531 Duration: 5/16/2022-5/25/2022 Gyrodatta MS Gyro <13-1/2"> (100'-288') APS EM <9-7/8"> (288')(412'-2467') APS EM <6-3/4"> (2467')(2604'-6226') BH Lucida (x-Short) <6-3/4"> (6226')(6306'-6659') Sycamore: 6515' MD APS EM <6-3/4"> (6659')(6730'-6884') Middlesex: 6736' MD Burkett: 6899' MD BH Lucida (x-Short) <6-3/4"> (6884')(6926'-6952') Tully: 6940' MD APS EM <6-3/4"> (6952')(6985'-7256') Marcellus POE: 7032' MD BH Lucida (x-Short) <6-3/4"> (7256')(7289'-15113') Projected MD at TD: 15132'</p>