



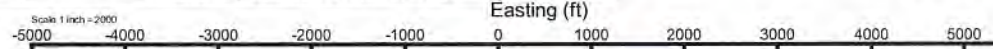
ANTERO RESOURCES CORPORATION



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

Slot: Slot E
 Well: Calhoun Unit 2H
 Wellbore: Calhoun Unit 2H PWB

Plot reference wellpath is Calhoun Unit 2H PWB Rev-B.0	Grid System: NAD2011 UTM Zone 17 North, US Feet
True vertical depths are referenced to H&P 531 (R&B)	North Reference: Grid North
Reference wellpath (Marcellus) depths are referenced to H&P 531 (R&B)	Scale: True distance
H&P 531 (R&B) to Mean Sea Level: 1216 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot Slot E): +116 feet	Depth units in feet
Other wellpath MDs are referenced to well path's debut MD datum	Created by: morgan on 2022-05-12 (Drawn by: VIA, MFC, @ANTEROUS, DHP)



BH AT Curve <8-1/2"> (6230')(6296'-16253') : 6281.81ft TVD, 210.28ft N, 119.57ft E
 APS EM <8-3/4"> (2501')(2562'-6230') : 2561.95ft TVD, 4.40ft N, 9.67ft E
 APS EM <12-1/4"> (383')(414'-2501') : 414.00ft TVD, 0.30ft S, 0.21ft W
 Gyrodatta MS Gyro <17-1/2"> (100'-383') : 100.00ft TVD, 0.11ft S, 0.07ft W

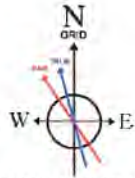
Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Gaspar Pad	1707468.590	14279538.450	39°18'52.2500"N	80°45'46.5558"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot E	35.63	48.08	1707516.650	14279574.270
Comment	Calhoun Unit 2H			
H&P 531 (R&B) to Ground level (At Slot Slot E)	30ft			
Mean Sea Level to Ground level (At Slot Slot E)	-1166ft			
H&P 531 (R&B) to Mean Sea Level	1216ft			

Gyrodatta MS Gyro <17-1/2"> (100'-383') : 0.21° Inc, 100.00ft MD, 100.00ft TVD, 0.08ft VS

APS EM <12-1/4"> (383')(414'-2501') : 0.04° Inc, 414.00ft MD, 414.00ft TVD, 0.21ft VS

Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	2501.00	0.480	39.590	2500.96	3.86	9.19	0.11	-0.75
Proj. to Bottom	2676.00	0.480	39.590	2575.96	4.34	9.59	0.00	-1.08
Drill Out	2656.00	0.480	39.590	2655.95	4.86	10.02	0.00	-1.44
End of Drop	2704.00	0.000	22.367	2703.95	5.01	10.15	1.00	-1.54
KOP 1	4308.77	0.000	22.367	4308.72	5.01	10.15	0.00	-1.54
End of Build	4708.77	8.000	22.367	4707.42	30.80	20.78	2.00	-22.63
Curve KOP	6311.15	8.000	22.367	6294.21	237.03	105.62	0.00	-191.36
POE	7054.99	87.681	168.741	6890.00	-101.42	207.16	10.00	161.82
Landing Pt.	7278.38	90.000	168.741	6933.00	-315.00	249.88	10.00	377.87
On AZI	7638.98	90.000	161.529	6933.00	-463.28	342.12	2.00	737.50
BHL	16250.98	80.000	161.529	6933.00	-8831.64	3070.58	0.00	9549.60

APS EM <8-3/4"> (2501')(2562'-6230') : 0.88° Inc, 2562.00ft MD, 2561.95ft TVD, -1.11ft VS



User specified (HDGM) Dip: 66.18° Field: 51810 nT
 Magnetic North is 7.53 degrees West of True North (at 5/4/2022)
 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

Well Data			
Slot	Well	Wellbore	Wellpath
Slot E	Calhoun Unit 2H	Calhoun Unit 2H AWB	Calhoun Unit 2H AWP Proj: 16278'
Slot E	Calhoun Unit 2H	Calhoun Unit 2H PWB	Calhoun Unit 2H PWP Rev-B.0

BH AT Curve <8-1/2"> (6230')(6296'-16253') : 5.37° Inc, 6296.00ft MD, 6281.81ft TVD, -161.57ft VS

Marcellus POE: 7051' MD : 68.70° Inc, 7051.00ft MD, 6887.94ft TVD, 190.17ft VS

API: 47-017-06912-0000
 BH Job #: 111277235
 Rig: H&P 531
 Duration: 5/7/2022-5/10/2022

Projected MD at TD: 16278' : 6870.61ft TVD, 8883.07ft S, 3097.22ft E
 BHL : 241'

Projected MD at TD: 16278' : 90.40° Inc, 16278.00ft MD, 6870.61ft TVD, 9406.73ft VS

Scale 1 inch = 1500'

True Vertical Depth (ft)

6750

Vertical Section (ft)

Azimuth 161.53° with reference 0.00 N, 0.00 E

Scale 1 inch = 1500'

Northing (ft)

0

-1000

-2000

-3000

-4000

-5000

-6000

-7000

-8000

-9000

-10000

-11000

Easting (ft)

Scale 1 inch = 2000'

-5000

-4000

-3000

-2000

-1000

0

1000

2000

3000

4000

5000

Slot E

POE 177'

Marcellus POE: 7051' MD : 6887.94ft TVD, 137.50ft S, 188.59ft E

Calhoun Unit 2H PWB Head Line



Actual Wellpath Report

Calhoun Unit 2H AWP Proj: 16278'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Calhoun Unit 2H
Field	Doddridge	API	47-017-06912-0000
Facility	Gaspar Pad	Wellbore	Calhoun Unit 2H AWB
Slot	Slot E		

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	6/12/2022 at 10:46:23 AM
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	35.83	48.08	1707516.65	14276574.27	39°18'52.6030"N	80°45'45.9429"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 E)	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	161.53°



Actual Wellpath Report

Calhoun Unit 2H AWP Proj: 16278'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Calhoun Unit 2H
Field	Doddridge	API	47-017-06912-0000
Facility	Gaspar Pad	Wellbore	Calhoun Unit 2H AWB
Slot	Slot E		

WELLPATH DATA (182 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	211.110	0.00	0.00	0.00	0.00	1707516.65	14276574.27	39°18'52.6030"N	80°45'45.9429"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	211.110	30.00	0.00	0.00	0.00	1707516.65	14276574.27	39°18'52.6030"N	80°45'45.9429"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.210	211.110	100.00	0.08	-0.11	-0.07	1707516.58	14276574.16	39°18'52.6019"N	80°45'45.9438"W	0.13	211.110	0.30	0.30	0.00	Gyrodata MS Gyro <17-1/2"> (100'-383')
200.00	0.190	250.600	200.00	0.20	-0.32	-0.32	1707516.33	14276573.95	39°18'52.5998"N	80°45'45.9470"W	0.45	224.601	0.14	-0.02	39.49	
300.00	0.090	113.520	300.00	0.26	-0.41	-0.40	1707516.25	14276573.86	39°18'52.5989"N	80°45'45.9481"W	0.57	224.541	0.26	-0.10	-137.08	
383.00	0.180	42.390	383.00	0.24	-0.34	-0.25	1707516.40	14276573.93	39°18'52.5996"N	80°45'45.9462"W	0.42	216.936	0.21	0.11	-85.70	
414.00	0.040	56.410	414.00	0.21	-0.30	-0.21	1707516.44	14276573.97	39°18'52.6000"N	80°45'45.9457"W	0.36	215.640	0.46	-0.45	45.23	APS EM <12-1/4"> (383')(414'-2501')
504.00	0.070	40.220	504.00	0.18	-0.24	-0.15	1707516.50	14276574.03	39°18'52.6006"N	80°45'45.9449"W	0.28	212.466	0.04	0.03	-17.99	
595.00	0.140	20.120	595.00	0.06	-0.09	-0.08	1707516.57	14276574.18	39°18'52.6021"N	80°45'45.9439"W	0.12	220.397	0.09	0.08	-22.09	
685.00	0.190	37.880	685.00	-0.11	0.13	0.05	1707516.70	14276574.40	39°18'52.6043"N	80°45'45.9423"W	0.14	22.004	0.08	0.06	19.73	
775.00	0.060	30.460	775.00	-0.22	0.29	0.17	1707516.82	14276574.56	39°18'52.6058"N	80°45'45.9408"W	0.34	30.196	0.15	-0.14	-8.24	
865.00	0.100	7.790	865.00	-0.32	0.41	0.20	1707516.85	14276574.68	39°18'52.6070"N	80°45'45.9403"W	0.46	26.458	0.06	0.04	-25.19	
955.00	0.120	72.020	955.00	-0.39	0.51	0.30	1707516.95	14276574.78	39°18'52.6080"N	80°45'45.9391"W	0.60	30.502	0.13	0.02	71.37	
1046.00	0.160	47.760	1046.00	-0.44	0.63	0.49	1707517.14	14276574.90	39°18'52.6092"N	80°45'45.9367"W	0.80	37.774	0.08	0.04	-26.66	
1141.00	0.210	104.650	1141.00	-0.40	0.67	0.75	1707517.40	14276574.94	39°18'52.6096"N	80°45'45.9333"W	1.01	48.194	0.19	0.05	59.88	
1235.00	0.330	97.530	1235.00	-0.19	0.60	1.19	1707517.84	14276574.87	39°18'52.6088"N	80°45'45.9278"W	1.33	63.395	0.13	0.13	-7.57	
1330.00	0.330	95.930	1329.99	0.04	0.53	1.73	1707518.38	14276574.80	39°18'52.6082"N	80°45'45.9209"W	1.81	72.942	0.01	0.00	-1.68	
1425.00	0.390	110.580	1424.99	0.36	0.39	2.31	1707518.96	14276574.66	39°18'52.6068"N	80°45'45.9136"W	2.34	80.412	0.12	0.06	15.42	
1519.00	0.380	108.320	1518.99	0.75	0.18	2.90	1707519.55	14276574.45	39°18'52.6047"N	80°45'45.9060"W	2.91	86.463	0.02	-0.01	-2.40	
1614.00	0.330	98.310	1613.99	1.06	0.04	3.47	1707520.12	14276574.31	39°18'52.6033"N	80°45'45.8988"W	3.47	89.326	0.08	-0.05	-10.54	
1709.00	0.290	74.010	1708.99	1.20	0.07	3.97	1707520.62	14276574.34	39°18'52.6035"N	80°45'45.8924"W	3.98	89.026	0.14	-0.04	-25.58	
1803.00	0.330	59.090	1802.99	1.15	0.27	4.44	1707521.08	14276574.54	39°18'52.6055"N	80°45'45.8865"W	4.44	86.489	0.10	0.04	-15.87	
1898.00	0.400	67.290	1897.98	1.06	0.54	4.98	1707521.62	14276574.81	39°18'52.6082"N	80°45'45.8796"W	5.01	83.799	0.09	0.07	8.63	
1992.00	0.550	71.590	1991.98	1.04	0.81	5.71	1707522.35	14276575.08	39°18'52.6108"N	80°45'45.8703"W	5.76	81.923	0.16	0.16	4.57	
2087.00	0.600	50.620	2086.98	0.86	1.27	6.52	1707523.17	14276575.54	39°18'52.6153"N	80°45'45.8599"W	6.65	78.989	0.23	0.05	-22.07	
2182.00	0.590	48.910	2181.97	0.50	1.91	7.28	1707523.92	14276576.18	39°18'52.6216"N	80°45'45.8503"W	7.52	75.320	0.02	-0.01	-1.80	
2276.00	0.480	42.090	2275.97	0.12	2.52	7.91	1707524.55	14276576.79	39°18'52.6276"N	80°45'45.8423"W	8.30	72.342	0.14	-0.12	-7.26	
2371.00	0.440	48.840	2370.96	-0.22	3.05	8.45	1707525.09	14276577.32	39°18'52.6329"N	80°45'45.8354"W	8.98	70.135	0.07	-0.04	7.11	
2466.00	0.520	39.680	2465.96	-0.59	3.62	9.00	1707525.64	14276577.89	39°18'52.6386"N	80°45'45.8283"W	9.70	68.061	0.12	0.08	-9.64	
2501.00	0.480	39.590	2500.96	-0.75	3.86	9.19	1707525.84	14276578.13	39°18'52.6409"N	80°45'45.8259"W	9.97	67.225	0.11	-0.11	-0.26	



Actual Wellpath Report

Calhoun Unit 2H AWP Proj: 16278'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Calhoun Unit 2H
Field	Doddridge	API	47-017-06912-0000
Facility	Gaspar Pad	Wellbore	Calhoun Unit 2H AWB
Slot	Slot E		

WELLPATH DATA (182 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
2562.00	0.880	41.930	2561.95	-1.11	4.40	9.67	1707526.31	14276578.67	39°18'52.6462"N	80°45'45.8198"W	10.62	65.507	0.66	0.66	3.84	APS EM <8-3/4"> (2501')(2562'-6230')
2657.00	0.340	25.100	2656.95	-1.68	5.20	10.28	1707526.92	14276579.47	39°18'52.6541"N	80°45'45.8120"W	11.52	63.145	0.59	-0.57	-17.72	
2752.00	0.410	17.320	2751.95	-2.16	5.78	10.50	1707527.14	14276580.05	39°18'52.6598"N	80°45'45.8092"W	11.98	61.149	0.09	0.07	-8.19	
2846.00	0.450	351.870	2845.94	-2.80	6.47	10.54	1707527.19	14276580.74	39°18'52.6666"N	80°45'45.8086"W	12.37	58.470	0.21	0.04	-27.07	
2940.00	0.720	4.280	2939.94	-3.70	7.42	10.54	1707527.18	14276581.69	39°18'52.6761"N	80°45'45.8086"W	12.89	54.832	0.32	0.29	13.20	
3035.00	0.550	13.070	3034.93	-4.64	8.46	10.68	1707527.33	14276582.73	39°18'52.6863"N	80°45'45.8067"W	13.63	51.616	0.21	-0.18	9.25	
3131.00	0.500	34.900	3130.93	-5.28	9.25	11.03	1707527.67	14276583.52	39°18'52.6942"N	80°45'45.8023"W	14.40	49.994	0.21	-0.05	22.74	
3226.00	0.530	27.530	3225.93	-5.84	9.98	11.47	1707528.11	14276584.25	39°18'52.7014"N	80°45'45.7967"W	15.21	48.954	0.08	0.03	-7.76	
3320.00	0.390	48.310	3319.92	-6.27	10.58	11.91	1707528.55	14276584.85	39°18'52.7073"N	80°45'45.7911"W	15.93	48.370	0.23	-0.15	22.11	
3415.00	0.350	61.950	3414.92	-6.44	10.93	12.40	1707529.05	14276585.20	39°18'52.7107"N	80°45'45.7848"W	16.54	48.605	0.10	-0.04	14.36	
3509.00	0.400	60.280	3508.92	-6.55	11.23	12.94	1707529.59	14276585.50	39°18'52.7136"N	80°45'45.7779"W	17.14	49.048	0.05	0.05	-1.78	
3604.00	0.310	54.080	3603.92	-6.69	11.55	13.44	1707530.08	14276585.81	39°18'52.7167"N	80°45'45.7716"W	17.72	49.330	0.10	-0.09	-6.53	
3698.00	0.440	80.140	3697.92	-6.72	11.76	14.00	1707530.65	14276586.02	39°18'52.7188"N	80°45'45.7644"W	18.28	49.976	0.22	0.14	27.72	
3793.00	0.360	76.980	3792.91	-6.63	11.89	14.65	1707531.30	14276586.15	39°18'52.7201"N	80°45'45.7561"W	18.87	50.944	0.09	-0.08	-3.33	
3887.00	0.370	23.090	3886.91	-6.83	12.23	15.06	1707531.70	14276586.50	39°18'52.7235"N	80°45'45.7510"W	19.40	50.908	0.35	0.01	-57.33	
3982.00	0.190	36.210	3981.91	-7.15	12.64	15.27	1707531.91	14276586.91	39°18'52.7275"N	80°45'45.7482"W	19.83	50.379	0.20	-0.19	13.81	
4077.00	0.130	180.040	4076.91	-7.14	12.66	15.36	1707532.01	14276586.93	39°18'52.7277"N	80°45'45.7470"W	19.91	50.506	0.32	-0.06	151.40	
4172.00	0.360	134.900	4171.91	-6.77	12.34	15.58	1707532.22	14276586.61	39°18'52.7246"N	80°45'45.7444"W	19.87	51.602	0.30	0.24	-47.52	
4266.00	0.560	192.030	4265.91	-6.11	11.69	15.69	1707532.33	14276585.95	39°18'52.7181"N	80°45'45.7429"W	19.56	53.319	0.50	0.21	60.78	
4361.00	1.420	27.710	4360.90	-6.53	12.27	16.14	1707532.78	14276586.54	39°18'52.7239"N	80°45'45.7372"W	20.28	52.747	2.07	0.91	-172.97	
4455.00	3.870	21.010	4454.79	-9.78	16.27	17.82	1707534.46	14276590.53	39°18'52.7633"N	80°45'45.7157"W	24.13	47.606	2.62	2.61	-7.13	
4550.00	6.040	14.990	4549.43	-16.43	24.09	20.26	1707536.90	14276598.35	39°18'52.8405"N	80°45'45.6844"W	31.48	40.067	2.35	2.28	-6.34	
4642.00	5.410	7.490	4640.97	-24.37	33.06	22.08	1707538.72	14276607.32	39°18'52.9292"N	80°45'45.6609"W	39.76	33.732	1.06	-0.68	-8.15	
4739.00	5.900	7.300	4737.50	-32.97	42.54	23.31	1707539.95	14276616.80	39°18'53.0228"N	80°45'45.6450"W	48.51	28.717	0.51	0.51	-0.20	
4833.00	6.370	13.780	4830.96	-41.73	52.40	25.16	1707541.80	14276626.65	39°18'53.1202"N	80°45'45.6210"W	58.13	25.651	0.89	0.50	6.89	
4927.00	7.160	24.830	4924.31	-50.40	62.78	28.87	1707545.50	14276637.03	39°18'53.2227"N	80°45'45.5736"W	69.10	24.692	1.62	0.84	11.76	
5022.00	7.570	32.680	5018.53	-58.64	73.42	34.73	1707551.37	14276647.66	39°18'53.3277"N	80°45'45.4986"W	81.22	25.316	1.14	0.43	8.26	
5116.00	6.270	26.230	5111.85	-66.17	83.24	40.34	1707556.98	14276657.48	39°18'53.4246"N	80°45'45.4269"W	92.50	25.858	1.61	-1.38	-6.86	
5211.00	7.270	29.330	5206.18	-73.90	93.13	45.58	1707562.21	14276667.37	39°18'53.5223"N	80°45'45.3599"W	103.69	26.078	1.12	1.05	3.26	
5305.00	9.600	35.290	5299.16	-82.53	104.72	53.02	1707569.65	14276678.95	39°18'53.6366"N	80°45'45.2648"W	117.38	26.855	2.64	2.48	6.34	



Actual Wellpath Report

Calhoun Unit 2H AWP Proj: 16278'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Calhoun Unit 2H
Field	Doddridge	API	47-017-06912-0000
Facility	Gaspar Pad	Wellbore	Calhoun Unit 2H AWB
Slot	Slot E		

WELLPATH DATA (182 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
5399.00	8.300	27.650	5392.02	-91.86	117.13	60.70	1707577.33	14276691.35	39°18'53.7590"N	80°45'45.1667"W	131.92	27.395	1.87	-1.38	-8.13	
5494.00	7.530	19.950	5486.11	-101.49	129.05	66.01	1707582.63	14276703.27	39°18'53.8768"N	80°45'45.0988"W	144.95	27.089	1.38	-0.81	-8.11	
5588.00	7.740	24.830	5579.28	-110.93	140.59	70.77	1707587.39	14276714.80	39°18'53.9906"N	80°45'45.0379"W	157.39	26.719	0.72	0.22	5.19	
5683.00	8.910	32.020	5673.28	-120.26	152.63	77.35	1707593.97	14276726.84	39°18'54.1095"N	80°45'44.9537"W	171.11	26.876	1.65	1.23	7.57	
5777.00	7.010	26.620	5766.37	-128.94	163.93	83.78	1707600.40	14276738.14	39°18'54.2210"N	80°45'44.8715"W	184.10	27.071	2.17	-2.02	-5.74	
5871.00	5.330	16.980	5859.83	-136.55	173.24	87.63	1707604.25	14276747.44	39°18'54.3129"N	80°45'44.8222"W	194.14	26.832	2.09	-1.79	-10.26	
5966.00	5.840	28.460	5954.38	-143.45	181.71	91.22	1707607.84	14276755.90	39°18'54.3965"N	80°45'44.7763"W	203.32	26.658	1.29	0.54	12.08	
6061.00	9.570	49.400	6048.52	-149.72	191.10	99.53	1707616.14	14276765.29	39°18'54.4891"N	80°45'44.6703"W	215.46	27.511	4.85	3.93	22.04	
6155.00	6.940	45.930	6141.54	-155.12	200.14	109.54	1707626.15	14276774.33	39°18'54.5782"N	80°45'44.5426"W	228.15	28.693	2.85	-2.80	-3.69	
6230.00	5.410	43.240	6216.10	-158.76	205.86	115.22	1707631.82	14276780.05	39°18'54.6347"N	80°45'44.4701"W	235.91	29.235	2.08	-2.04	-3.59	
6296.00	5.370	45.940	6281.81	-161.57	210.28	119.57	1707636.17	14276784.46	39°18'54.6782"N	80°45'44.4146"W	241.90	29.624	0.39	-0.06	4.09	BH AT Curve <8-1/2"> (6230')(6296'-16253')
6375.00	5.800	85.870	6360.47	-162.17	213.14	126.21	1707642.81	14276787.32	39°18'54.7063"N	80°45'44.3300"W	247.70	30.632	4.85	0.54	50.54	
6469.00	12.730	132.980	6453.29	-151.88	206.40	138.55	1707655.15	14276780.59	39°18'54.6394"N	80°45'44.1732"W	248.59	33.873	10.36	7.37	50.12	
6482.00†	13.608	137.786	6465.95	-149.22	204.29	140.63	1707657.22	14276778.48	39°18'54.6185"N	80°45'44.1469"W	248.02	34.542	10.79	6.75	36.97	Sycamore: 6482' MD
6564.00	20.510	157.120	6544.36	-126.02	183.87	152.72	1707669.31	14276758.07	39°18'54.4163"N	80°45'43.9937"W	239.02	39.712	10.79	8.42	23.58	
6658.00	27.950	171.650	6630.09	-87.83	146.82	162.34	1707678.93	14276721.03	39°18'54.0499"N	80°45'43.8725"W	218.89	47.874	10.09	7.91	15.46	
6706.00†	32.672	174.918	6671.52	-64.13	122.77	165.13	1707681.71	14276696.99	39°18'53.8121"N	80°45'43.8379"W	205.77	53.369	10.42	9.84	6.81	Middlesex: 6706' MD
6753.00	37.360	177.390	6710.01	-38.06	95.87	166.90	1707683.48	14276670.10	39°18'53.5462"N	80°45'43.8163"W	192.48	60.126	10.42	9.97	5.26	
6847.00	47.120	176.250	6779.51	22.83	32.86	170.46	1707687.04	14276607.12	39°18'52.9233"N	80°45'43.7731"W	173.60	79.088	10.41	10.38	-1.21	
6888.00†	51.246	175.303	6806.31	52.90	1.92	172.75	1707689.33	14276576.19	39°18'52.6175"N	80°45'43.7449"W	172.76	89.362	10.21	10.06	-2.31	Burkett: 6888' MD
6936.00†	56.085	174.324	6834.74	90.53	-36.57	176.26	1707692.84	14276537.71	39°18'52.2369"N	80°45'43.7016"W	180.01	101.722	10.21	10.08	-2.04	Tully: 6936' MD
6942.00	56.690	174.210	6838.06	95.40	-41.54	176.76	1707693.34	14276532.74	39°18'52.1878"N	80°45'43.6955"W	181.57	103.226	10.21	10.09	-1.90	
7036.00	67.090	172.110	6882.29	176.51	-123.74	186.69	1707703.27	14276450.58	39°18'51.3752"N	80°45'43.5718"W	223.97	123.536	11.24	11.06	-2.23	
7051.00†	68.699	172.176	6887.94	190.17	-137.50	188.59	1707705.16	14276436.82	39°18'51.2390"N	80°45'43.5481"W	233.39	126.096	10.73	10.73	0.44	Marcellus POE: 7051' MD
7131.00	77.280	172.510	6911.32	265.24	-213.25	198.77	1707715.34	14276361.10	39°18'50.4901"N	80°45'43.4212"W	291.52	137.013	10.73	10.73	0.42	
7226.00	83.710	170.220	6927.00	357.50	-305.83	212.84	1707729.41	14276268.56	39°18'49.5748"N	80°45'43.2452"W	372.60	145.163	7.17	6.77	-2.41	
7320.00	91.720	169.740	6930.75	450.33	-398.24	229.17	1707745.73	14276176.18	39°18'48.6609"N	80°45'43.0405"W	459.48	150.081	8.54	8.52	-0.51	
7415.00	90.490	164.650	6928.91	544.82	-490.83	250.22	1707766.77	14276083.63	39°18'47.7453"N	80°45'42.7759"W	550.93	152.988	5.51	-1.29	-5.36	
7509.00	92.030	165.040	6926.85	638.64	-581.54	274.79	1707791.33	14275992.96	39°18'46.8481"N	80°45'42.4663"W	643.19	154.708	1.69	1.64	0.41	
7604.00	90.060	160.380	6925.11	733.57	-672.20	303.01	1707819.54	14275902.34	39°18'45.9513"N	80°45'42.1103"W	737.34	155.735	5.32	-2.07	-4.91	



Actual Wellpath Report

Calhoun Unit 2H AWP Proj: 16278'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Calhoun Unit 2H
Field	Doddridge	API	47-017-06912-0000
Facility	Gaspar Pad	Wellbore	Calhoun Unit 2H AWB
Slot	Slot E		

WELLPATH DATA (182 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
7698.00	90.220	160.630	6924.88	827.55	-760.81	334.38	1707850.90	14275813.76	39°18'45.0747"N	80°45'41.7142"W	831.05	156.274	0.32	0.17	0.27	
7793.00	91.910	159.920	6923.12	922.51	-850.22	366.44	1707882.94	14275724.39	39°18'44.1902"N	80°45'41.3093"W	925.82	156.684	1.93	1.78	-0.75	
7888.00	89.940	161.300	6921.58	1017.48	-939.81	397.97	1707914.46	14275634.83	39°18'43.3039"N	80°45'40.9112"W	1020.60	157.049	2.53	-2.07	1.45	
7982.00	90.490	158.360	6921.23	1111.43	-1028.03	430.38	1707946.86	14275546.64	39°18'42.4310"N	80°45'40.5018"W	1114.49	157.284	3.18	0.59	-3.13	
8077.00	89.820	160.590	6920.98	1206.36	-1117.00	463.68	1707980.15	14275457.72	39°18'41.5509"N	80°45'40.0811"W	1209.42	157.456	2.45	-0.71	2.35	
8172.00	92.430	160.560	6919.11	1301.32	-1206.57	495.27	1708011.72	14275368.18	39°18'40.6648"N	80°45'39.6822"W	1304.26	157.683	2.75	2.75	-0.03	
8266.00	90.000	159.810	6917.12	1395.26	-1294.97	527.12	1708043.56	14275279.81	39°18'39.7902"N	80°45'39.2799"W	1398.15	157.851	2.71	-2.59	-0.80	
8361.00	90.370	159.350	6916.81	1490.21	-1384.00	560.27	1708076.70	14275190.82	39°18'38.9094"N	80°45'38.8612"W	1493.10	157.961	0.62	0.39	-0.48	
8456.00	91.350	161.240	6915.38	1585.17	-1473.42	592.29	1708108.71	14275101.43	39°18'38.0247"N	80°45'38.4568"W	1588.01	158.101	2.24	1.03	1.99	
8550.00	90.220	161.660	6914.10	1679.16	-1562.53	622.20	1708138.60	14275012.36	39°18'37.1433"N	80°45'38.0794"W	1681.85	158.288	1.28	-1.20	0.45	
8645.00	90.060	160.660	6913.86	1774.16	-1652.44	652.87	1708169.26	14274922.49	39°18'36.2538"N	80°45'37.6921"W	1776.74	158.441	1.07	-0.17	-1.05	
8740.00	89.690	160.470	6914.07	1869.14	-1742.02	684.48	1708200.86	14274832.94	39°18'35.3676"N	80°45'37.2930"W	1871.68	158.549	0.44	-0.39	-0.20	
8834.00	90.310	162.140	6914.07	1963.14	-1831.06	714.61	1708230.98	14274743.93	39°18'34.4868"N	80°45'36.9127"W	1965.57	158.681	1.90	0.66	1.78	
8929.00	90.120	161.610	6913.72	2058.14	-1921.35	744.16	1708260.52	14274653.69	39°18'33.5936"N	80°45'36.5398"W	2060.43	158.828	0.59	-0.20	-0.56	
9024.00	89.850	160.890	6913.74	2153.13	-2011.30	774.70	1708291.04	14274563.76	39°18'32.7037"N	80°45'36.1543"W	2155.34	158.935	0.81	-0.28	-0.76	
9118.00	90.490	160.840	6913.46	2247.13	-2100.11	805.51	1708321.84	14274474.99	39°18'31.8252"N	80°45'35.7653"W	2249.29	159.015	0.68	0.68	-0.05	
9213.00	90.550	162.150	6912.60	2342.12	-2190.19	835.66	1708351.98	14274384.95	39°18'30.9341"N	80°45'35.3848"W	2344.20	159.116	1.38	0.06	1.38	
9308.00	89.940	161.600	6912.19	2437.12	-2280.48	865.22	1708381.52	14274294.70	39°18'30.0410"N	80°45'35.0119"W	2439.09	159.223	0.86	-0.64	-0.58	
9402.00	89.970	160.660	6912.27	2531.11	-2369.42	895.62	1708411.91	14274205.79	39°18'29.1610"N	80°45'34.6281"W	2533.04	159.294	1.00	0.03	-1.00	
9497.00	90.150	161.080	6912.17	2626.11	-2459.18	926.75	1708443.03	14274116.07	39°18'28.2731"N	80°45'34.2351"W	2628.01	159.351	0.48	0.19	0.44	
9591.00	90.150	161.460	6911.92	2720.11	-2548.20	956.93	1708473.20	14274027.08	39°18'27.3925"N	80°45'33.8541"W	2721.96	159.417	0.40	0.00	0.40	
9686.00	89.690	160.060	6912.05	2815.09	-2637.89	988.24	1708504.50	14273937.43	39°18'26.5052"N	80°45'33.4589"W	2816.93	159.462	1.55	-0.48	-1.47	
9780.00	90.060	161.330	6912.26	2909.08	-2726.60	1019.31	1708535.56	14273848.75	39°18'25.6275"N	80°45'33.0666"W	2910.90	159.502	1.41	0.39	1.35	
9875.00	89.880	161.390	6912.31	3004.08	-2816.62	1049.68	1708565.91	14273758.77	39°18'24.7371"N	80°45'32.6834"W	3005.86	159.561	0.20	-0.19	0.06	
9969.00	89.970	161.500	6912.43	3098.08	-2905.73	1079.59	1708595.81	14273669.69	39°18'23.8555"N	80°45'32.3059"W	3099.81	159.618	0.15	0.10	0.12	
10064.00	89.630	160.710	6912.76	3193.08	-2995.61	1110.35	1708626.56	14273579.85	39°18'22.9664"N	80°45'31.9176"W	3194.77	159.662	0.91	-0.36	-0.83	
10159.00	89.750	160.830	6913.28	3288.07	-3085.31	1141.64	1708657.84	14273490.18	39°18'22.0790"N	80°45'31.5226"W	3289.76	159.694	0.18	0.13	0.13	
10253.00	89.820	161.280	6913.63	3382.06	-3174.22	1172.16	1708688.35	14273401.31	39°18'21.1994"N	80°45'31.1373"W	3383.73	159.732	0.48	0.07	0.48	
10348.00	89.820	160.760	6913.93	3477.06	-3264.05	1203.06	1708719.23	14273311.51	39°18'20.3107"N	80°45'30.7473"W	3478.70	159.767	0.55	0.00	-0.55	
10443.00	89.630	161.060	6914.38	3572.05	-3353.83	1234.13	1708750.29	14273221.77	39°18'19.4226"N	80°45'30.3551"W	3573.68	159.798	0.37	-0.20	0.32	



Actual Wellpath Report

Calhoun Unit 2H AWP Proj: 16278'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Calhoun Unit 2H
Field	Doddridge	API	47-017-06912-0000
Facility	Gaspar Pad	Wellbore	Calhoun Unit 2H AWP
Slot	Slot E		

WELLPATH DATA (182 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
10537.00	89.820	161.000	6914.84	3666.05	-3442.72	1264.68	1708780.83	14273132.92	39°18'18.5432"N	80°45'29.9694"W	3667.66	159.829	0.21	0.20	-0.06	
10631.00	90.180	161.200	6914.84	3760.04	-3531.65	1295.13	1708811.27	14273044.02	39°18'17.6634"N	80°45'29.5851"W	3761.64	159.861	0.44	0.38	0.21	
10726.00	90.150	161.350	6914.56	3855.04	-3621.62	1325.63	1708841.75	14272954.08	39°18'16.7734"N	80°45'29.2002"W	3856.61	159.896	0.16	-0.03	0.16	
10821.00	90.340	161.020	6914.16	3950.04	-3711.55	1356.27	1708872.38	14272864.20	39°18'15.8838"N	80°45'28.8135"W	3951.59	159.927	0.40	0.20	-0.35	
10915.00	90.430	161.550	6913.52	4044.04	-3800.57	1386.43	1708902.53	14272775.20	39°18'15.0031"N	80°45'28.4329"W	4045.56	159.958	0.57	0.10	0.56	
11010.00	90.430	161.950	6912.81	4139.03	-3890.79	1416.18	1708932.27	14272685.02	39°18'14.1106"N	80°45'28.0575"W	4140.51	159.999	0.42	0.00	0.42	
11105.00	90.650	161.580	6911.92	4234.03	-3981.02	1445.90	1708961.98	14272594.83	39°18'13.2181"N	80°45'27.6825"W	4235.46	160.039	0.45	0.23	-0.39	
11199.00	90.490	161.820	6910.98	4328.02	-4070.26	1475.42	1708991.48	14272505.63	39°18'12.3353"N	80°45'27.3101"W	4329.42	160.075	0.31	-0.17	0.26	
11294.00	90.310	161.750	6910.32	4423.02	-4160.50	1505.11	1709021.16	14272415.42	39°18'11.4426"N	80°45'26.9354"W	4424.37	160.112	0.20	-0.19	-0.07	
11389.00	90.370	161.720	6909.75	4518.02	-4250.71	1534.89	1709050.93	14272325.25	39°18'10.5502"N	80°45'26.5597"W	4519.34	160.146	0.07	0.06	-0.03	
11483.00	89.820	160.920	6909.60	4612.01	-4339.76	1564.99	1709081.02	14272236.24	39°18'9.6693"N	80°45'26.1798"W	4613.31	160.170	1.03	-0.59	-0.85	
11577.00	90.250	161.620	6909.54	4706.01	-4428.78	1595.18	1709111.19	14272147.25	39°18'8.7886"N	80°45'25.7989"W	4707.30	160.192	0.87	0.46	0.74	
11672.00	91.140	161.630	6908.39	4801.01	-4518.93	1625.12	1709141.13	14272057.14	39°18'7.8968"N	80°45'25.4210"W	4802.26	160.220	0.94	0.94	0.01	
11766.00	91.020	161.530	6906.62	4894.99	-4608.09	1654.82	1709170.81	14271968.01	39°18'7.0147"N	80°45'25.0463"W	4896.22	160.246	0.17	-0.13	-0.11	
11861.00	90.520	161.400	6905.34	4989.98	-4698.16	1685.01	1709200.99	14271877.98	39°18'6.1238"N	80°45'24.6653"W	4991.19	160.269	0.54	-0.53	-0.14	
11956.00	89.510	160.320	6905.31	5084.97	-4787.90	1716.16	1709232.13	14271788.27	39°18'5.2359"N	80°45'24.2721"W	5086.18	160.280	1.56	-1.06	-1.14	
12051.00	90.520	161.630	6905.29	5179.96	-4877.71	1747.13	1709263.08	14271698.49	39°18'4.3475"N	80°45'23.8813"W	5181.17	160.293	1.74	1.06	1.38	
12145.00	90.060	161.410	6904.81	5273.96	-4966.86	1776.92	1709292.87	14271609.38	39°18'3.4655"N	80°45'23.5053"W	5275.15	160.315	0.54	-0.49	-0.23	
12240.00	90.030	161.400	6904.74	5368.96	-5056.90	1807.22	1709323.15	14271519.37	39°18'2.5748"N	80°45'23.1231"W	5370.13	160.334	0.03	-0.03	-0.01	
12335.00	90.180	161.180	6904.57	5463.96	-5146.88	1837.69	1709353.61	14271429.43	39°18'1.6847"N	80°45'22.7385"W	5465.12	160.351	0.28	0.16	-0.23	
12429.00	90.280	161.630	6904.19	5557.96	-5235.97	1867.66	1709383.57	14271340.37	39°18'0.8033"N	80°45'22.3603"W	5559.10	160.369	0.49	0.11	0.48	
12524.00	89.970	161.270	6903.98	5652.96	-5326.04	1897.89	1709413.78	14271250.35	39°17'59.9123"N	80°45'21.9789"W	5654.08	160.387	0.50	-0.33	-0.38	
12713.00	90.220	161.550	6903.67	5841.96	-5505.18	1958.14	1709474.01	14271071.28	39°17'58.1402"N	80°45'21.2186"W	5843.05	160.420	0.20	0.13	0.15	
12808.00	90.550	162.000	6903.03	5936.95	-5595.41	1987.85	1709503.71	14270981.08	39°17'57.2476"N	80°45'20.8438"W	5938.02	160.442	0.59	0.35	0.47	
12902.00	90.650	162.590	6902.04	6030.94	-5684.95	2016.43	1709532.28	14270891.58	39°17'56.3618"N	80°45'20.4833"W	6031.97	160.471	0.64	0.11	0.63	
12997.00	90.650	161.540	6900.97	6125.93	-5775.33	2045.69	1709561.52	14270801.23	39°17'55.4678"N	80°45'20.1143"W	6126.93	160.495	1.11	0.00	-1.11	
13092.00	90.740	161.420	6899.81	6220.92	-5865.40	2075.86	1709591.69	14270711.20	39°17'54.5767"N	80°45'19.7336"W	6221.91	160.510	0.16	0.09	-0.13	
13186.00	90.490	161.400	6898.81	6314.92	-5954.49	2105.82	1709621.64	14270622.14	39°17'53.6954"N	80°45'19.3555"W	6315.89	160.524	0.27	-0.27	-0.02	
13281.00	90.220	160.980	6898.22	6409.91	-6044.42	2136.45	1709652.26	14270532.25	39°17'52.8058"N	80°45'18.9690"W	6410.88	160.534	0.53	-0.28	-0.44	
13375.00	90.740	161.680	6897.43	6503.91	-6133.46	2166.54	1709682.33	14270443.24	39°17'51.9248"N	80°45'18.5893"W	6504.87	160.545	0.93	0.55	0.74	



Actual Wellpath Report

Calhoun Unit 2H AWP Proj: 16278'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Calhoun Unit 2H
Field	Doddridge	API	47-017-06912-0000
Facility	Gaspar Pad	Wellbore	Calhoun Unit 2H AWB
Slot	Slot E		

WELLPATH DATA (182 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
13470.00	90.520	161.230	6896.38	6598.90	-6223.53	2196.76	1709712.54	14270353.21	39°17'51.0339"N	80°45'18.2081"W	6599.85	160.558	0.53	-0.23	-0.47	
13565.00	90.490	161.670	6895.55	6693.90	-6313.59	2226.98	1709742.74	14270263.19	39°17'50.1430"N	80°45'17.8268"W	6694.83	160.571	0.46	-0.03	0.46	
13659.00	90.340	160.960	6894.87	6787.89	-6402.63	2257.09	1709772.85	14270174.18	39°17'49.2621"N	80°45'17.4468"W	6788.82	160.581	0.77	-0.16	-0.76	
13754.00	90.430	161.170	6894.23	6882.89	-6492.49	2287.92	1709803.66	14270084.36	39°17'48.3731"N	80°45'17.0578"W	6883.82	160.588	0.24	0.09	0.22	
13849.00	90.650	161.290	6893.33	6977.88	-6582.43	2318.48	1709834.21	14269994.45	39°17'47.4833"N	80°45'16.6721"W	6978.81	160.597	0.26	0.23	0.13	
13943.00	90.370	161.420	6892.50	7071.88	-6671.49	2348.54	1709864.25	14269905.42	39°17'46.6023"N	80°45'16.2930"W	7072.80	160.607	0.33	-0.30	0.14	
14038.00	90.520	161.110	6891.76	7166.87	-6761.46	2379.05	1709894.75	14269815.50	39°17'45.7123"N	80°45'15.9080"W	7167.79	160.615	0.36	0.16	-0.33	
14133.00	90.280	161.070	6891.10	7261.87	-6851.33	2409.83	1709925.53	14269725.66	39°17'44.8232"N	80°45'15.5195"W	7262.78	160.622	0.26	-0.25	-0.04	
14227.00	90.520	161.490	6890.44	7355.86	-6940.35	2440.00	1709955.68	14269636.67	39°17'43.9425"N	80°45'15.1388"W	7356.77	160.630	0.51	0.26	0.45	
14321.00	90.680	161.710	6889.45	7449.86	-7029.54	2469.67	1709985.34	14269547.52	39°17'43.0602"N	80°45'14.7645"W	7450.75	160.642	0.29	0.17	0.23	
14416.00	90.490	161.150	6888.48	7544.85	-7119.59	2499.92	1710015.58	14269457.51	39°17'42.1694"N	80°45'14.3828"W	7545.74	160.652	0.62	-0.20	-0.59	
14511.00	90.650	161.700	6887.54	7639.85	-7209.64	2530.18	1710045.83	14269367.49	39°17'41.2786"N	80°45'14.0011"W	7640.73	160.662	0.60	0.17	0.58	
14606.00	90.590	161.420	6886.51	7734.84	-7299.75	2560.23	1710075.87	14269277.41	39°17'40.3871"N	80°45'13.6220"W	7735.71	160.673	0.30	-0.06	-0.29	
14700.00	90.830	161.470	6885.35	7828.84	-7388.86	2590.14	1710105.76	14269188.34	39°17'39.5056"N	80°45'13.2447"W	7829.69	160.682	0.26	0.26	0.05	
14795.00	90.860	161.350	6883.95	7923.83	-7478.89	2620.42	1710136.03	14269098.34	39°17'38.6149"N	80°45'12.8626"W	7924.68	160.691	0.13	0.03	-0.13	
14890.00	90.770	161.580	6882.59	8018.82	-7568.96	2650.62	1710166.22	14269008.32	39°17'37.7239"N	80°45'12.4817"W	8019.66	160.700	0.26	-0.09	0.24	
14984.00	90.250	161.050	6881.76	8112.81	-7658.00	2680.73	1710196.32	14268919.31	39°17'36.8430"N	80°45'12.1017"W	8113.65	160.707	0.79	-0.55	-0.56	
15079.00	90.620	161.170	6881.04	8207.80	-7747.88	2711.49	1710227.06	14268829.47	39°17'35.9539"N	80°45'11.7137"W	8208.64	160.712	0.41	0.39	0.13	
15173.00	90.280	161.050	6880.30	8301.80	-7836.81	2741.92	1710257.48	14268740.57	39°17'35.0740"N	80°45'11.3297"W	8302.64	160.716	0.38	-0.36	-0.13	
15268.00	90.430	161.330	6879.71	8396.80	-7926.74	2772.55	1710288.10	14268650.68	39°17'34.1844"N	80°45'10.9432"W	8397.63	160.722	0.33	0.16	0.29	
15363.00	90.710	161.050	6878.76	8491.79	-8016.66	2803.18	1710318.72	14268560.79	39°17'33.2948"N	80°45'10.5568"W	8492.62	160.727	0.42	0.29	-0.29	
15457.00	90.370	161.380	6877.88	8585.78	-8105.65	2833.45	1710348.97	14268471.84	39°17'32.4145"N	80°45'10.1749"W	8586.62	160.732	0.50	-0.36	0.35	
15552.00	90.680	161.410	6877.01	8680.78	-8195.68	2863.76	1710379.27	14268381.84	39°17'31.5238"N	80°45'9.7925"W	8681.61	160.739	0.33	0.33	0.03	
15647.00	90.710	161.650	6875.86	8775.77	-8285.78	2893.85	1710409.35	14268291.78	39°17'30.6325"N	80°45'9.4129"W	8776.59	160.748	0.25	0.03	0.25	
15741.00	90.250	160.760	6875.07	8869.77	-8374.76	2924.13	1710439.62	14268202.83	39°17'29.7522"N	80°45'9.0308"W	8870.58	160.753	1.07	-0.49	-0.95	
15836.00	90.370	160.640	6874.55	8964.75	-8464.42	2955.53	1710471.01	14268113.21	39°17'28.8652"N	80°45'8.6346"W	8965.58	160.752	0.18	0.13	-0.13	
15931.00	90.430	161.440	6873.89	9059.75	-8554.27	2986.40	1710501.86	14268023.40	39°17'27.9764"N	80°45'8.2451"W	9060.58	160.755	0.84	0.06	0.84	
16025.00	90.550	161.630	6873.09	9153.74	-8643.42	3016.17	1710531.62	14267934.28	39°17'27.0944"N	80°45'7.8696"W	9154.56	160.763	0.24	0.13	0.20	
16120.00	90.580	161.360	6872.15	9248.74	-8733.51	3046.32	1710561.76	14267844.23	39°17'26.2032"N	80°45'7.4893"W	9249.55	160.771	0.29	0.03	-0.28	
16215.00	90.650	161.190	6871.13	9343.73	-8823.47	3076.82	1710592.24	14267754.30	39°17'25.3132"N	80°45'7.1045"W	9344.54	160.776	0.19	0.07	-0.18	



Actual Wellpath Report

Calhoun Unit 2H AWP Proj: 16278'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Calhoun Unit 2H
Field	Doddridge	API	47-017-06912-0000
Facility	Gaspar Pad	Wellbore	Calhoun Unit 2H AWB
Slot	Slot E		

WELLPATH DATA (182 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
16253.00	90.400	161.060	6870.78	9381.73	-8859.43	3089.11	1710604.53	14267718.36	39°17'24.9575"N	80°45'6.9495"W	9382.54	160.777	0.74	-0.66	-0.34	
16278.00‡	90.400	161.060	6870.61	9406.73	-8883.07	3097.22	1710612.64	14267694.72	39°17'24.7235"N	80°45'6.8471"W	9407.54	160.778	0.00	0.00	0.00	Projected MD at TD: 16278'

HOLE & CASING SECTIONS - Ref Wellbore: Calhoun Unit 2H AWB Ref Wellpath: Calhoun Unit 2H AWP Proj: 16278'									
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	-0.19	-0.13
17.5in Open Hole	130.00	350.00	220.00	130.00	350.00	-0.19	-0.13	-0.40	-0.32
13.375in Casing Surface	30.00	330.00	300.00	30.00	330.00	0.00	0.00	-0.41	-0.35
12.25in Open Hole	350.00	2576.00	2226.00	350.00	2575.95	-0.40	-0.32	4.56	9.80
9.625in Casing Intermediate	30.00	2556.00	2526.00	30.00	2555.96	0.00	0.00	4.34	9.61
8.75in Open Hole	2576.00	6311.00	3735.00	2575.95	6296.75	4.56	9.80	211.17	120.63
8.5in Open Hole	6311.00	16278.00	9967.00	6296.75	6870.61	211.17	120.63	-8883.07	3097.22
5.5in Casing Production	30.00	16258.00	16228.00	30.00	6870.75	0.00	0.00	-8864.16	3090.73



Actual Wellpath Report

Calhoun Unit 2H AWP Proj: 16278'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Calhoun Unit 2H
Field	Doddridge	API	47-017-06912-0000
Facility	Gaspar Pad	Wellbore	Calhoun Unit 2H AWB
Slot	Slot E		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Calhoun Unit 2H POE Rev-2	6890.00	-22.41	128.05	1707644.65	14276551.87	39°18'52.3782"N	80°45'44.3145"W	point
Calhoun Unit 2H POE Rev-3	6890.00	-101.41	207.16	1707723.73	14276472.90	39°18'51.5952"N	80°45'43.3106"W	point
Calhoun Unit 2H AZI Rev-1	6933.00	-663.28	342.12	1707858.64	14275911.25	39°18'46.0384"N	80°45'41.6124"W	point
Calhoun Unit 2H BHL Rev-2	6933.00	-8831.64	3070.56	1710585.99	14267746.13	39°17'25.2326"N	80°45'7.1844"W	point
Calhoun Unit 2H LP Rev-3	6933.00	-315.00	249.68	1707766.23	14276259.40	39°18'49.4832"N	80°45'42.7768"W	point
Calhoun Unit 2H 50' L/R Hard Line	7250.00	-4427.03	1599.30	1709115.32	14272149.00	39°18'8.8058"N	80°45'25.7463"W	rectangle
2D Rectangle 9287.68 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Calhoun Unit 2H AWB Ref Wellpath: Calhoun Unit 2H AWP Proj: 16278'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	383.00	Gyrodata 2015 - GC+WIR+DPIPE	01 Gyrodata MS Gyro <17-1/2"> (100'-383')	Calhoun Unit 2H AWB	4/9/2022
383.00	2501.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-1/4"> (383')(414'-2501')	Calhoun Unit 2H AWB	4/9/2022
2501.00	6230.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (2501')(2562'-6230')	Calhoun Unit 2H AWB	5/4/2022
6230.00	16278.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (6230')(6296'-16253')	Calhoun Unit 2H AWB	5/4/2022



Actual Wellpath Report

Calhoun Unit 2H AWP Proj: 16278'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Calhoun Unit 2H
Field	Doddridge	API	47-017-06912-0000
Facility	Gaspar Pad	Wellbore	Calhoun Unit 2H AWB
Slot	Slot E		

COMMENTS
<p>Wellpath general comments API: 47-017-06912-0000 BH Job #: 111277235 Rig: H&P 531 Duration: 5/7/2022-5/10/2022 Gyrodatta MS Gyro <17-1/2"> (100'-383') APS EM <12-1/4"> (383')(414'-2501') APS EM <8-3/4"> (2501')(2562'-6230') BH AT Curve <8-1/2"> (6230')(6296'-16253') Sycamore: 6482' MD Middlesex: 6706' MD Burkett: 6888' MD Tully: 6936' MD Marcellus POE: 7051' MD Projected MD at TD: 16278'</p>