



# ANTERO RESOURCES CORPORATION



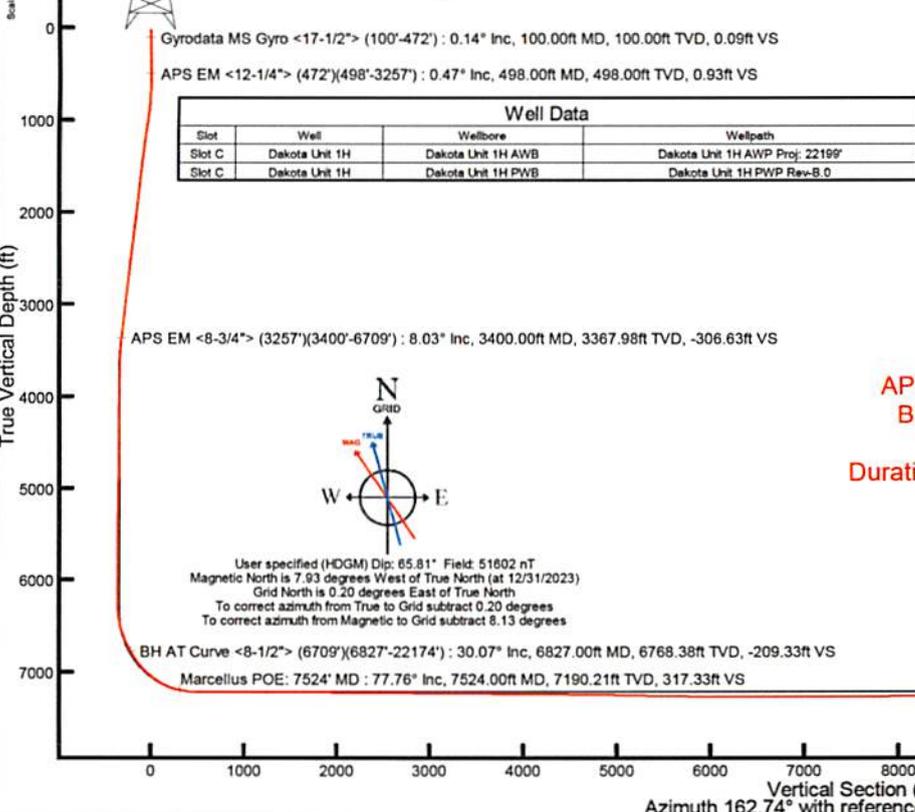
Location: Doddridge Co., WV  
Field: Doddridge  
Facility: Haight Pad

Slot: Slot C  
Well: Dakota Unit 1H  
Wellbore: Dakota Unit 1H PWB

Plot reference wellpath is Dakota Unit 1H PWP Rev 8.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 317 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 317 (RKB)	Scale: True distance
H&P 317 (RKB) to Mean Sea Level: 1219.5 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot C): -1194 feet	Depths are in feet
Other wellpath MDs are referenced to each path's default MD datum	Created by edibayan on 2024-02-26; Database: WA MFL - EASTERNUS - Deth

Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Haight Pad	1730640.660	14230353.820	39°11'14.8900"N	80°40'53.6900"W	
Slot	Local E (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude
Slot C	7.67	28.50	1730669.150	14230361.490	39°11'14.9648"N
Slot C					80°40'53.3277"W
Comment: Dakota Unit 1H					
H&P 317 (RKB) to Ground level (At Slot: Slot C)	25.5ft				
Mean Sea Level to Ground level (At Slot: Slot C)	-1194ft				
H&P 317 (RKB) to Mean Sea Level	1219.5ft				

Well Profile Data								
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS ("/100ft)	VS (ft)
Tie On	3257.00	8.290	17.180	3226.43	354.68	165.60	0.56	-289.58
Proj. to Bottom	3327.00	8.290	17.180	3295.70	364.33	168.58	0.00	-297.90
Drill Out	3407.00	8.290	17.180	3374.86	375.35	171.99	0.00	-307.41
End of Drop	3821.50	0.000	166.037	3767.91	403.95	180.83	2.00	-332.10
Curve KOP	6359.59	0.000	166.037	6326.00	403.95	180.83	0.00	-332.10
End of Build	6868.48	30.514	166.037	6811.18	275.52	212.76	6.00	-199.98
POE	7498.01	74.514	162.741	7185.00	-192.57	348.06	7.00	287.17
Landing Pt.	7691.58	90.000	162.741	7211.00	-375.18	404.79	8.00	478.39
BHL	22187.93	90.000	162.741	7211.00	-14218.82	4705.68	0.00	14974.74

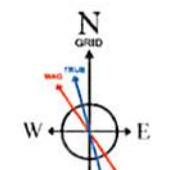


Gyrodata MS Gyro <17-1/2"> (100°-472°) : 0.14° Inc, 100.00ft MD, 100.00ft TVD, 0.09ft VS

APS EM <12-1/4"> (472°\498°-3257°) : 0.47° Inc, 498.00ft MD, 498.00ft TVD, 0.93ft VS

Well Data			
Slot	Well	Wellbore	Wellpath
Slot C	Dakota Unit 1H	Dakota Unit 1H AWB	Dakota Unit 1H AWP Proj: 22199'
Slot C	Dakota Unit 1H	Dakota Unit 1H PWB	Dakota Unit 1H PWP Rev: 8.0

APS EM <8-3/4"> (3257°\3400°-6709°) : 8.03° Inc, 3400.00ft MD, 3367.98ft TVD, -306.63ft VS



BH AT Curve <8-1/2"> (6709°\6827°-22174°) : 30.07° Inc, 6827.00ft MD, 6768.38ft TVD, -209.33ft VS

Marcellus POE: 7524' MD : 77.76° Inc, 7524.00ft MD, 7190.21ft TVD, 317.33ft VS

Projected MD at TD: 22199' : 90.65° Inc, 22199.00ft MD, 7148.30ft TVD, 14987.62ft VS

BH AT Curve <8-1/2"> (6709°\6827°-22174°) : 6768.38ft TVD, 283.15ft N, 205.82ft E  
 APS EM <8-3/4"> (3257°\3400°-6709°) : 3367.98ft TVD, 374.23ft N, 171.04ft E  
 APS EM <12-1/4"> (472°\498°-3257°) : 498.00ft TVD, 0.96ft S, 0.06ft E  
 Gyrodata MS Gyro <17-1/2"> (100°-472°) : 100.00ft TVD, 0.08ft S, 0.05ft E

API: 47-017-06967-0000  
 BH Job #: 112081139  
 Rig: H&P 317  
 Duration: 1/23/2024-1/28/2024

Projected MD at TD: 22199' : 7148.30ft TVD, 14235.42ft S, 4695.78ft E

BHL: 70'



# Actual Wellpath Report

Dakota Unit 1H AWP Proj: 22199'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Dakota Unit 1H
Field	Doddridge	API	47-017-06967-0000
Facility	Haught Pad	Wellbore	Dakota Unit 1H AWB
Slot	Slot C		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999609	Report Generated	2/26/2024 at 4:24:06 PM
Convergence at slot	0.20° 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	7.67	28.50	1730669.15	14230361.49	39°11'14.9648"N	80°40'53.3277"W
Facility Reference Pt			1730640.66	14230353.82	39°11'14.8900"N	80°40'53.6900"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.3013"W

WELLPATH DATUM			
Calculation method	Minimum curvature	H&P 317 (RKB) to Facility Vertical Datum	1219.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level	1219.50ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot C)	25.50ft
MD Reference Pt	H&P 317 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	162.74°



# Actual Wellpath Report

Dakota Unit 1H AWP Proj: 22199'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Dakota Unit 1H
Field	Doddridge	API	47-017-06967-0000
Facility	Haught Pad	Wellbore	Dakota Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (244 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	145.570	0.00	0.00	0.00	0.00	1730669.15	14230361.49	39°11'14.9648"N	80°40'53.3277"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	145.570	25.50	0.00	0.00	0.00	1730669.15	14230361.49	39°11'14.9648"N	80°40'53.3277"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.140	145.570	100.00	0.09	-0.08	0.05	1730669.20	14230361.41	39°11'14.9641"N	80°40'53.3270"W	0.09	145.570	0.19	0.19	0.00	Gyrodata MS Gyro <17-1/2"> (100'-472')
200.00	0.070	160.170	200.00	0.26	-0.23	0.14	1730669.29	14230361.26	39°11'14.9625"N	80°40'53.3259"W	0.27	148.806	0.07	-0.07	14.60	
300.00	0.130	142.190	300.00	0.43	-0.38	0.23	1730669.38	14230361.11	39°11'14.9610"N	80°40'53.3247"W	0.45	148.673	0.07	0.06	-17.98	
400.00	0.190	239.520	400.00	0.58	-0.55	0.16	1730669.31	14230360.94	39°11'14.9593"N	80°40'53.3257"W	0.58	164.068	0.24	0.06	97.33	
472.00	0.280	182.840	472.00	0.77	-0.79	0.05	1730669.20	14230360.70	39°11'14.9570"N	80°40'53.3271"W	0.79	176.627	0.33	0.13	-78.72	
498.00	0.470	173.310	498.00	0.93	-0.96	0.06	1730669.21	14230360.53	39°11'14.9553"N	80°40'53.3270"W	0.96	176.669	0.77	0.73	-36.65	APS EM <12-1/4"> (472')(498'-325')
589.00	0.600	37.720	589.00	1.03	-0.95	0.39	1730669.54	14230360.54	39°11'14.9554"N	80°40'53.3227"W	1.03	157.712	1.09	0.14	-149.00	
679.00	2.150	32.140	678.97	-0.34	0.85	1.58	1730670.73	14230362.34	39°11'14.9731"N	80°40'53.3076"W	1.79	61.715	1.73	1.72	-6.20	
769.00	3.910	30.290	768.84	-3.51	4.93	4.02	1730673.17	14230366.42	39°11'15.0134"N	80°40'53.2764"W	6.36	39.228	1.96	1.96	-2.06	
860.00	6.260	23.500	859.47	-9.37	12.16	7.57	1730676.71	14230373.64	39°11'15.0847"N	80°40'53.2310"W	14.32	31.898	2.66	2.58	-7.46	
950.00	8.580	22.910	948.72	-18.21	22.84	12.14	1730681.28	14230384.32	39°11'15.1902"N	80°40'53.1725"W	25.87	27.984	2.58	2.58	-0.66	
1041.00	9.500	22.310	1038.58	-29.19	36.04	17.63	1730686.77	14230397.52	39°11'15.3205"N	80°40'53.1021"W	40.13	26.066	1.02	1.01	-0.66	
1136.00	9.350	19.420	1132.30	-41.42	50.58	23.17	1730692.31	14230412.05	39°11'15.4639"N	80°40'53.0311"W	55.63	24.617	0.52	-0.16	-3.04	
1231.00	9.290	24.990	1226.05	-53.29	64.80	28.98	1730698.12	14230426.27	39°11'15.6043"N	80°40'52.9567"W	70.99	24.093	0.95	-0.06	5.86	
1325.00	9.080	24.790	1318.84	-64.41	78.41	35.29	1730704.43	14230439.87	39°11'15.7386"N	80°40'52.8759"W	85.99	24.232	0.23	-0.22	-0.21	
1420.00	8.990	22.550	1412.67	-75.68	92.07	41.28	1730710.42	14230453.53	39°11'15.8734"N	80°40'52.7993"W	100.91	24.150	0.38	-0.09	-2.36	
1514.00	9.280	27.980	1505.48	-86.66	105.55	47.66	1730716.79	14230467.00	39°11'16.0064"N	80°40'52.7177"W	115.81	24.299	0.97	0.31	5.78	
1609.00	9.040	29.560	1599.26	-97.16	118.81	54.93	1730724.06	14230480.25	39°11'16.1372"N	80°40'52.6247"W	130.89	24.814	0.37	-0.25	1.66	
1703.00	8.770	26.930	1692.13	-107.35	131.62	61.82	1730730.95	14230493.06	39°11'16.2636"N	80°40'52.5367"W	145.42	25.159	0.52	-0.29	-2.80	
1798.00	8.820	26.010	1786.01	-117.85	144.62	68.29	1730737.42	14230506.06	39°11'16.3919"N	80°40'52.4539"W	159.94	25.278	0.16	0.05	-0.97	
1892.00	9.890	29.100	1878.76	-128.67	158.15	75.38	1730744.50	14230519.58	39°11'16.5254"N	80°40'52.3633"W	175.20	25.484	1.26	1.14	3.29	
1986.00	10.060	29.630	1971.34	-139.85	172.34	83.37	1730752.48	14230533.77	39°11'16.6653"N	80°40'52.2612"W	191.45	25.814	0.21	0.18	0.56	
2080.00	9.780	28.520	2063.94	-151.03	186.49	91.24	1730760.35	14230547.91	39°11'16.8049"N	80°40'52.1606"W	207.62	26.069	0.36	-0.30	-1.18	
2175.00	9.530	26.190	2157.59	-162.36	200.64	98.56	1730767.67	14230562.05	39°11'16.9445"N	80°40'52.0670"W	223.54	26.161	0.49	-0.26	-2.45	
2269.00	9.260	25.170	2250.33	-173.59	214.47	105.21	1730774.32	14230575.87	39°11'17.0809"N	80°40'51.9819"W	238.89	26.131	0.34	-0.29	-1.09	
2364.00	9.310	23.180	2344.09	-185.08	228.45	111.49	1730780.59	14230589.85	39°11'17.2189"N	80°40'51.9016"W	254.20	26.013	0.34	0.05	-2.09	
2458.00	9.280	22.870	2436.85	-196.67	242.42	117.43	1730786.53	14230603.82	39°11'17.3568"N	80°40'51.8255"W	269.37	25.845	0.06	-0.03	-0.33	
2553.00	9.140	20.380	2530.63	-208.50	256.55	123.03	1730792.13	14230617.94	39°11'17.4963"N	80°40'51.7537"W	284.53	25.620	0.44	-0.15	-2.62	



# Actual Wellpath Report

Dakota Unit 1H AWP Proj: 22199'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Dakota Unit 1H
Field	Doddridge	API	47-017-06967-0000
Facility	Haught Pad	Wellbore	Dakota Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (244 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
2648.00	9.190	26.320	2624.42	-219.97	270.43	129.02	1730798.12	14230631.81	39°11'17.6332"N	80°40'51.6770"W	299.63	25.506	1.00	0.05	6.25	
2742.00	8.950	24.390	2717.24	-230.87	283.81	135.37	1730804.47	14230645.19	39°11'17.7653"N	80°40'51.5958"W	314.44	25.499	0.41	-0.26	-2.05	
2837.00	8.950	26.960	2811.09	-241.69	297.13	141.77	1730810.86	14230658.50	39°11'17.8967"N	80°40'51.5139"W	329.22	25.507	0.42	0.00	2.71	
2931.00	8.820	24.860	2903.96	-252.27	310.19	148.12	1730817.21	14230671.56	39°11'18.0255"N	80°40'51.4327"W	343.74	25.525	0.37	-0.14	-2.23	
3025.00	8.520	23.040	2996.88	-262.93	323.13	153.87	1730822.96	14230684.50	39°11'18.1533"N	80°40'51.3591"W	357.90	25.463	0.43	-0.32	-1.94	
3120.00	8.400	20.990	3090.85	-273.74	336.09	159.11	1730828.20	14230697.45	39°11'18.2811"N	80°40'51.2920"W	371.85	25.334	0.34	-0.13	-2.16	
3214.00	8.170	18.650	3183.87	-284.55	348.83	163.71	1730832.79	14230710.18	39°11'18.4069"N	80°40'51.2330"W	385.33	25.141	0.43	-0.24	-2.49	
3257.00	8.290	17.180	3226.43	-289.58	354.68	165.60	1730834.68	14230716.03	39°11'18.4647"N	80°40'51.2087"W	391.44	25.027	0.56	0.28	-3.42	
3400.00	8.030	13.900	3367.98	-306.63	374.23	171.04	1730840.13	14230735.57	39°11'18.6577"N	80°40'51.1387"W	411.46	24.563	0.37	-0.18	-2.29	APS EM <8-3/4"> (3257')(3400'-6709')
3495.00	4.690	0.530	3462.39	-316.01	384.56	172.67	1730841.75	14230745.90	39°11'18.7597"N	80°40'51.1175"W	421.54	24.181	3.82	-3.52	-14.07	
3590.00	1.790	326.410	3557.23	-321.13	389.68	171.89	1730840.97	14230751.02	39°11'18.8104"N	80°40'51.1273"W	425.90	23.802	3.54	-3.05	-35.92	
3684.00	2.020	321.340	3651.18	-324.08	392.19	170.04	1730839.12	14230753.53	39°11'18.8353"N	80°40'51.1506"W	427.47	23.440	0.30	0.24	-5.39	
3778.00	1.570	38.040	3745.14	-326.36	394.50	169.80	1730838.88	14230755.84	39°11'18.8581"N	80°40'51.1536"W	429.49	23.288	2.40	-0.48	81.60	
3873.00	1.630	39.820	3840.11	-327.83	396.57	171.47	1730840.55	14230757.90	39°11'18.8784"N	80°40'51.1323"W	432.05	23.383	0.08	0.06	1.87	
3967.00	1.940	23.990	3934.06	-329.75	399.05	172.97	1730842.05	14230760.38	39°11'18.9029"N	80°40'51.1131"W	434.92	23.435	0.62	0.33	-16.84	
4061.00	1.950	15.170	4028.01	-332.30	402.04	174.03	1730843.12	14230763.38	39°11'18.9325"N	80°40'51.0995"W	438.09	23.407	0.32	0.01	-9.38	
4156.00	0.470	279.560	4122.99	-333.84	403.67	174.07	1730843.16	14230765.00	39°11'18.9486"N	80°40'51.0989"W	439.60	23.327	2.16	-1.56	-100.64	
4250.00	0.610	261.050	4216.99	-334.09	403.65	173.20	1730842.28	14230764.99	39°11'18.9484"N	80°40'51.1100"W	439.24	23.223	0.24	0.15	-19.69	
4345.00	0.470	278.490	4311.98	-334.33	403.63	172.31	1730841.40	14230764.96	39°11'18.9483"N	80°40'51.1212"W	438.88	23.118	0.23	-0.15	18.36	
4439.00	0.370	289.760	4405.98	-334.68	403.79	171.65	1730840.73	14230765.12	39°11'18.9499"N	80°40'51.1297"W	438.76	23.030	0.14	-0.11	11.99	
4534.00	0.530	307.040	4500.98	-335.22	404.16	171.01	1730840.09	14230765.49	39°11'18.9535"N	80°40'51.1378"W	438.85	22.934	0.22	0.17	18.19	
4628.00	0.770	341.550	4594.97	-336.21	405.02	170.46	1730839.54	14230766.35	39°11'18.9621"N	80°40'51.1447"W	439.43	22.825	0.48	0.26	36.71	
4723.00	0.730	11.220	4689.96	-337.38	406.22	170.38	1730839.46	14230767.55	39°11'18.9739"N	80°40'51.1457"W	440.50	22.754	0.41	-0.04	31.23	
4817.00	0.970	328.920	4783.95	-338.68	407.49	170.08	1730839.17	14230768.82	39°11'18.9865"N	80°40'51.1494"W	441.56	22.655	0.69	0.26	-45.00	
4911.00	0.850	332.260	4877.94	-340.13	408.79	169.35	1730838.43	14230770.12	39°11'18.9993"N	80°40'51.1587"W	442.48	22.503	0.14	-0.13	3.55	
5006.00	1.140	340.820	4972.93	-341.77	410.30	168.71	1730837.79	14230771.63	39°11'19.0143"N	80°40'51.1667"W	443.64	22.351	0.34	0.31	9.01	
5100.00	1.100	322.570	5066.91	-343.55	411.90	167.85	1730836.94	14230773.23	39°11'19.0302"N	80°40'51.1775"W	444.79	22.171	0.38	-0.04	-19.41	
5194.00	1.070	336.260	5160.89	-345.27	413.42	166.95	1730836.04	14230774.75	39°11'19.0452"N	80°40'51.1889"W	445.86	21.990	0.28	-0.03	14.56	
5288.00	0.990	331.740	5254.88	-346.94	414.94	166.21	1730835.30	14230776.27	39°11'19.0603"N	80°40'51.1982"W	447.00	21.830	0.12	-0.09	-4.81	
5383.00	1.170	321.410	5349.86	-348.65	416.42	165.22	1730834.30	14230777.75	39°11'19.0749"N	80°40'51.2108"W	448.00	21.641	0.28	0.19	-10.87	



# Actual Wellpath Report

Dakota Unit 1H AWP Proj: 22199'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Dakota Unit 1H
Field	Doddridge	API	47-017-06967-0000
Facility	Haught Pad	Wellbore	Dakota Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (244 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
5480.00	1.110	337.260	5446.84	-350.51	418.06	164.24	1730833.32	14230779.39	39°11'19.0912"N	80°40'51.2231"W	449.17	21.448	0.33	-0.06	16.34	
5575.00	1.100	341.580	5541.82	-352.34	419.78	163.60	1730832.68	14230781.10	39°11'19.1081"N	80°40'51.2312"W	450.53	21.292	0.09	-0.01	4.55	
5669.00	0.870	213.790	5635.82	-352.79	420.04	162.91	1730832.00	14230781.37	39°11'19.1108"N	80°40'51.2399"W	450.53	21.199	1.89	-0.24	-135.95	
5763.00	1.170	212.270	5729.80	-351.72	418.64	162.00	1730831.09	14230779.96	39°11'19.0969"N	80°40'51.2515"W	448.89	21.155	0.32	0.32	-1.62	
5858.00	1.110	214.150	5824.78	-350.51	417.06	160.97	1730830.06	14230778.38	39°11'19.0813"N	80°40'51.2647"W	447.04	21.105	0.07	-0.06	1.98	
5952.00	0.750	233.240	5918.77	-349.74	415.93	159.97	1730829.05	14230777.26	39°11'19.0703"N	80°40'51.2775"W	445.63	21.036	0.50	-0.38	20.31	
6047.00	0.820	230.120	6013.76	-349.27	415.13	158.95	1730828.03	14230776.45	39°11'19.0623"N	80°40'51.2905"W	444.51	20.951	0.09	0.07	-3.28	
6142.00	0.890	244.580	6108.75	-348.91	414.37	157.76	1730826.85	14230775.70	39°11'19.0549"N	80°40'51.3056"W	443.39	20.843	0.24	0.07	15.22	
6236.00	1.270	256.030	6202.73	-348.86	413.81	156.09	1730825.18	14230775.14	39°11'19.0494"N	80°40'51.3269"W	442.27	20.666	0.46	0.40	12.18	
6330.00	0.770	235.990	6296.72	-348.74	413.20	154.55	1730823.64	14230774.53	39°11'19.0435"N	80°40'51.3464"W	441.16	20.508	0.65	-0.53	-21.32	
6425.00	8.720	149.200	6391.35	-341.54	406.65	157.72	1730826.81	14230767.98	39°11'18.9786"N	80°40'51.3065"W	436.16	21.199	9.17	8.37	-91.36	
6519.00	14.590	148.850	6483.37	-323.10	390.38	167.50	1730836.58	14230751.72	39°11'18.8175"N	80°40'51.1830"W	424.80	23.222	6.25	6.24	-0.37	
6614.00	18.930	155.560	6574.32	-296.18	366.10	180.07	1730849.15	14230727.44	39°11'18.5770"N	80°40'51.0244"W	407.99	26.191	4.99	4.57	7.06	
6709.00	23.220	162.560	6662.96	-262.15	334.18	192.07	1730861.14	14230695.54	39°11'18.2611"N	80°40'50.8735"W	385.44	29.887	5.23	4.52	7.37	
6813.00†	29.251	166.375	6756.21	-216.24	289.89	204.21	1730873.28	14230651.26	39°11'17.8229"N	80°40'50.7213"W	354.59	35.163	6.02	5.80	3.67	Sycamore: 6813' MD
6827.00	30.070	166.780	6768.38	-209.33	283.15	205.82	1730874.89	14230644.53	39°11'17.7562"N	80°40'50.7011"W	350.05	36.013	6.02	5.85	2.89	BH AT Curve <8-1/2"> (6709')(6827'-22174')
6922.00	32.740	166.470	6849.45	-159.94	234.99	217.27	1730886.34	14230596.39	39°11'17.2799"N	80°40'50.5578"W	320.04	42.756	2.82	2.81	-0.33	
7007.00†	37.668	166.507	6918.88	-111.06	187.36	228.72	1730897.78	14230548.78	39°11'16.8087"N	80°40'50.4146"W	295.66	50.676	5.80	5.80	0.04	Middlesex: 7007' MD
7016.00	38.190	166.510	6925.98	-105.54	181.98	230.01	1730899.07	14230543.40	39°11'16.7555"N	80°40'50.3984"W	293.29	51.649	5.80	5.80	0.04	
7111.00	46.780	165.370	6995.98	-41.54	119.81	245.63	1730914.68	14230481.26	39°11'16.1405"N	80°40'50.2028"W	273.29	63.998	9.08	9.04	-1.20	
7206.00	54.160	162.610	7056.41	31.66	49.47	265.91	1730934.96	14230410.94	39°11'15.4445"N	80°40'49.9484"W	270.47	79.461	8.08	7.77	-2.91	
7210.00†	54.350	162.559	7058.74	34.90	46.37	266.88	1730935.93	14230407.84	39°11'15.4139"N	80°40'49.9362"W	270.88	80.143	4.85	4.74	-1.26	Burkett: 7210' MD
7275.00†	57.433	161.769	7095.19	88.71	-4.85	283.37	1730952.41	14230356.64	39°11'14.9070"N	80°40'49.7291"W	283.41	90.981	4.85	4.74	-1.22	Tully: 7275' MD
7300.00	58.620	161.480	7108.43	109.91	-24.98	290.06	1730959.09	14230336.52	39°11'14.7079"N	80°40'49.6451"W	291.13	94.921	4.85	4.75	-1.16	
7394.00	67.350	161.300	7151.08	193.55	-104.26	316.76	1730985.79	14230257.27	39°11'13.9233"N	80°40'49.3095"W	333.48	108.219	9.29	9.29	-0.19	
7489.00	74.770	163.810	7181.90	283.34	-189.93	343.64	1731012.65	14230171.63	39°11'13.0756"N	80°40'48.9720"W	392.63	118.930	8.20	7.81	2.64	
7524.00†	77.760	163.726	7190.21	317.33	-222.57	353.14	1731022.15	14230139.01	39°11'12.7527"N	80°40'48.8528"W	417.43	122.222	8.55	8.54	-0.24	Marcellus POE: 7524' MD
7535.00	78.700	163.700	7192.45	328.09	-232.91	356.16	1731025.17	14230128.67	39°11'12.6504"N	80°40'48.8149"W	425.55	123.182	8.55	8.54	-0.24	
7583.00	80.200	163.130	7201.24	375.28	-278.13	369.63	1731038.63	14230083.47	39°11'12.2029"N	80°40'48.6459"W	462.58	126.960	3.34	3.13	-1.19	
7677.00	85.530	163.350	7212.91	468.51	-367.41	396.51	1731065.51	14229994.23	39°11'11.3196"N	80°40'48.3084"W	540.57	132.818	5.67	5.67	0.23	



# Actual Wellpath Report

Dakota Unit 1H AWP Proj: 22199'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Dakota Unit 1H
Field	Doddridge	API	47-017-06967-0000
Facility	Haught Pad	Wellbore	Dakota Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (244 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
7772.00	89.820	162.780	7216.77	563.41	-458.19	424.16	1731093.14	14229903.48	39°11'10.4213"N	80°40'47.9614"W	624.38	137.209	4.56	4.52	-0.60	
7866.00	90.340	163.120	7216.64	657.41	-548.06	451.72	1731120.69	14229813.64	39°11'9.5321"N	80°40'47.6154"W	710.23	140.504	0.66	0.55	0.36	
7961.00	89.080	163.330	7217.12	752.40	-639.02	479.14	1731148.10	14229722.73	39°11'8.6322"N	80°40'47.2713"W	798.69	143.137	1.34	-1.33	0.22	
8054.00	90.370	164.460	7217.56	845.38	-728.36	504.93	1731173.88	14229633.41	39°11'7.7482"N	80°40'46.9477"W	886.27	145.269	1.84	1.39	1.22	
8149.00	88.980	162.810	7218.10	940.36	-819.51	531.70	1731200.84	14229542.31	39°11'6.8464"N	80°40'46.6119"W	976.88	147.024	2.27	-1.46	-1.74	
8243.00	89.660	163.510	7219.22	1034.35	-909.47	558.93	1731227.86	14229452.38	39°11'5.9563"N	80°40'46.2701"W	1067.49	148.427	1.04	0.72	0.74	
8338.00	89.780	163.920	7219.68	1129.34	-1000.65	585.57	1731254.49	14229361.23	39°11'5.0541"N	80°40'45.9359"W	1159.39	149.665	0.45	0.13	0.43	
8432.00	89.080	163.370	7220.62	1223.32	-1090.85	612.03	1731280.94	14229271.07	39°11'4.1617"N	80°40'45.6038"W	1250.81	150.705	0.95	-0.74	-0.59	
8527.00	92.220	165.870	7219.54	1318.24	-1182.42	637.22	1731306.12	14229179.54	39°11'3.2558"N	80°40'45.2881"W	1343.19	151.679	4.22	3.31	2.63	
8621.00	91.140	162.770	7216.78	1412.15	-1272.87	662.61	1731331.50	14229089.12	39°11'2.3609"N	80°40'44.9697"W	1435.01	152.500	3.49	-1.15	-3.30	
8716.00	89.380	163.360	7216.35	1507.15	-1363.74	690.28	1731359.16	14228998.28	39°11'1.4617"N	80°40'44.6224"W	1528.49	153.153	1.95	-1.85	0.62	
8810.00	89.170	163.050	7217.54	1601.13	-1453.73	717.44	1731386.31	14228908.33	39°11'0.5714"N	80°40'44.2815"W	1621.13	153.733	0.40	-0.22	-0.33	
8904.00	89.140	162.890	7218.93	1695.12	-1543.60	744.97	1731413.83	14228818.50	39°11'0.596822"N	80°40'43.9360"W	1713.96	154.237	0.17	-0.03	-0.17	
8999.00	90.370	162.300	7219.33	1790.12	-1634.24	773.39	1731442.23	14228727.89	39°10'58.7852"N	80°40'43.5792"W	1808.00	154.675	1.44	1.29	-0.62	
9093.00	89.200	163.800	7219.69	1884.11	-1724.16	800.79	1731469.63	14228638.01	39°10'57.8956"N	80°40'43.2352"W	1901.05	155.087	2.02	-1.24	1.60	
9187.00	88.770	162.630	7221.35	1978.09	-1814.13	827.93	1731496.75	14228548.07	39°10'57.0053"N	80°40'42.8946"W	1994.13	155.469	1.33	-0.46	-1.24	
9281.00	88.830	162.670	7223.32	2072.07	-1903.84	855.96	1731524.77	14228458.40	39°10'56.1177"N	80°40'42.5428"W	2087.40	155.792	0.08	0.06	0.04	
9376.00	89.110	162.490	7225.03	2167.06	-1994.47	884.39	1731553.19	14228367.81	39°10'55.2210"N	80°40'42.1857"W	2181.75	156.086	0.35	0.29	-0.19	
9471.00	89.820	163.900	7225.91	2262.05	-2085.40	911.86	1731580.65	14228276.91	39°10'54.3212"N	80°40'41.8411"W	2276.05	156.382	1.66	0.75	1.48	
9566.00	89.630	161.540	7226.37	2357.04	-2176.11	940.07	1731608.85	14228186.24	39°10'53.4237"N	80°40'41.4868"W	2370.48	156.636	2.49	-0.20	-2.48	
9660.00	90.250	162.890	7226.47	2451.03	-2265.61	968.78	1731637.55	14228096.77	39°10'52.5381"N	80°40'41.1263"W	2464.05	156.848	1.58	0.66	1.44	
9755.00	90.740	163.490	7225.65	2546.03	-2356.55	996.26	1731665.01	14228005.87	39°10'51.6383"N	80°40'40.7815"W	2558.48	157.083	0.82	0.52	0.63	
9850.00	89.510	163.850	7225.44	2641.01	-2447.71	1022.97	1731691.71	14227914.74	39°10'50.7363"N	80°40'40.4464"W	2652.88	157.319	1.35	-1.29	0.38	
10039.00	89.290	163.450	7227.42	2829.98	-2629.06	1076.17	1731744.89	14227733.46	39°10'48.9420"N	80°40'39.7790"W	2840.79	157.739	0.24	-0.12	-0.21	
10133.00	89.380	163.120	7228.51	2923.97	-2719.08	1103.20	1731771.92	14227643.48	39°10'48.0513"N	80°40'39.4398"W	2934.36	157.916	0.36	0.10	-0.35	
10228.00	89.600	163.950	7229.36	3018.95	-2810.18	1130.13	1731798.83	14227552.41	39°10'47.1499"N	80°40'39.1020"W	3028.91	158.092	0.90	0.23	0.87	
10322.00	89.540	162.580	7230.06	3112.94	-2900.20	1157.19	1731825.89	14227462.43	39°10'46.2593"N	80°40'38.7624"W	3122.54	158.248	1.46	-0.06	-1.46	
10417.00	90.550	161.820	7229.99	3207.94	-2990.65	1186.23	1731854.92	14227372.02	39°10'45.3643"N	80°40'38.3977"W	3217.31	158.364	1.33	1.06	-0.80	
10511.00	89.450	161.720	7229.99	3301.92	-3079.93	1215.64	1731884.31	14227282.77	39°10'44.4808"N	80°40'38.0283"W	3311.15	158.461	1.18	-1.17	-0.11	
10606.00	89.050	161.340	7231.23	3396.89	-3170.03	1245.73	1731914.39	14227192.71	39°10'43.5892"N	80°40'37.6502"W	3406.01	158.547	0.58	-0.42	-0.40	



# Actual Wellpath Report

Dakota Unit 1H AWP Proj: 22199'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Dakota Unit 1H
Field	Doddridge	API	47-017-06967-0000
Facility	Haught Pad	Wellbore	Dakota Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (244 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
10700.00	89.260	161.480	7232.62	3490.86	-3259.11	1275.69	1731944.34	14227103.66	39°10'42.7077"N	80°40'37.2738"W	3499.89	158.623	0.27	0.22	0.15	
10795.00	89.660	161.030	7233.51	3585.82	-3349.07	1306.22	1731974.86	14227013.74	39°10'41.8175"N	80°40'36.8902"W	3594.78	158.693	0.63	0.42	-0.47	
10890.00	89.540	162.130	7234.18	3680.80	-3439.20	1336.24	1732004.86	14226923.64	39°10'40.9256"N	80°40'36.5131"W	3689.66	158.767	1.16	-0.13	1.16	
10984.00	89.660	162.040	7234.83	3774.79	-3528.64	1365.15	1732033.77	14226834.24	39°10'40.0406"N	80°40'36.1500"W	3783.51	158.850	0.16	0.13	-0.10	
11079.00	89.450	162.660	7235.57	3869.78	-3619.16	1393.96	1732062.56	14226743.75	39°10'39.1448"N	80°40'35.7884"W	3878.33	158.935	0.69	-0.22	0.65	
11173.00	89.290	161.940	7236.60	3963.77	-3708.71	1422.53	1732091.12	14226654.24	39°10'38.2588"N	80°40'35.4295"W	3972.17	159.015	0.78	-0.17	-0.77	
11268.00	89.540	161.900	7237.57	4058.76	-3799.01	1452.01	1732120.59	14226563.97	39°10'37.3652"N	80°40'35.0593"W	4067.04	159.083	0.27	0.26	-0.04	
11362.00	89.600	162.550	7238.28	4152.75	-3888.52	1480.71	1732149.28	14226474.50	39°10'36.4795"N	80°40'34.6989"W	4160.90	159.154	0.69	0.06	0.69	
11456.00	89.510	162.390	7239.01	4246.75	-3978.15	1509.02	1732177.58	14226384.90	39°10'35.5926"N	80°40'34.3435"W	4254.74	159.227	0.20	-0.10	-0.17	
11551.00	89.540	162.140	7239.80	4341.74	-4068.63	1537.96	1732206.51	14226294.45	39°10'34.6972"N	80°40'33.9802"W	4349.61	159.293	0.27	0.03	-0.26	
11645.00	89.630	161.370	7240.48	4435.72	-4157.91	1567.39	1732235.92	14226205.22	39°10'33.8138"N	80°40'33.6105"W	4443.52	159.345	0.82	0.10	-0.82	
11739.00	89.630	162.120	7241.08	4529.71	-4247.17	1596.83	1732265.36	14226115.99	39°10'32.9305"N	80°40'33.2407"W	4537.44	159.395	0.80	0.00	0.80	
11834.00	89.080	161.380	7242.15	4624.69	-4337.39	1626.58	1732295.09	14226025.81	39°10'32.0378"N	80°40'32.8670"W	4632.35	159.443	0.97	-0.58	-0.78	
11928.00	89.290	161.280	7243.49	4718.65	-4426.43	1656.67	1732325.17	14225936.80	39°10'31.1566"N	80°40'32.4890"W	4726.29	159.481	0.25	0.22	-0.11	
12023.00	89.290	161.820	7244.67	4813.62	-4516.54	1686.73	1732355.22	14225846.72	39°10'30.2649"N	80°40'32.1114"W	4821.22	159.522	0.57	0.00	0.57	
12118.00	88.800	161.200	7246.25	4908.58	-4606.62	1716.86	1732385.33	14225756.68	39°10'29.3735"N	80°40'31.7330"W	4916.15	159.560	0.83	-0.52	-0.65	
12212.00	89.420	161.230	7247.71	5002.54	-4695.61	1747.12	1732415.59	14225667.73	39°10'28.4929"N	80°40'31.3527"W	5010.10	159.591	0.66	0.66	0.03	
12307.00	89.140	161.430	7248.91	5097.50	-4785.60	1777.53	1732445.98	14225577.77	39°10'27.6024"N	80°40'30.9707"W	5105.05	159.623	0.36	-0.29	0.21	
12401.00	88.210	161.390	7251.08	5191.45	-4874.67	1807.49	1732475.93	14225488.73	39°10'26.7210"N	80°40'30.5943"W	5198.98	159.656	0.99	-0.99	-0.04	
12496.00	88.830	161.250	7253.53	5286.39	-4964.64	1837.90	1732506.33	14225398.80	39°10'25.8307"N	80°40'30.2122"W	5293.91	159.685	0.67	0.65	-0.15	
12591.00	88.830	161.610	7255.47	5381.35	-5054.67	1868.15	1732536.57	14225308.80	39°10'24.9397"N	80°40'29.8322"W	5388.85	159.716	0.38	0.00	0.38	
12685.00	88.980	161.160	7257.27	5475.30	-5143.74	1898.15	1732566.56	14225219.77	39°10'24.0583"N	80°40'29.4554"W	5482.79	159.745	0.50	0.16	-0.48	
12780.00	88.950	160.640	7258.99	5570.24	-5233.49	1929.23	1732597.63	14225130.05	39°10'23.1701"N	80°40'29.0648"W	5577.76	159.764	0.55	-0.03	-0.55	
12874.00	89.750	162.020	7260.05	5664.20	-5322.54	1959.32	1732627.70	14225041.04	39°10'22.2889"N	80°40'28.6868"W	5671.71	159.790	1.70	0.85	1.47	
12968.00	89.350	161.690	7260.79	5758.18	-5411.86	1988.59	1732656.96	14224951.76	39°10'21.4050"N	80°40'28.3192"W	5765.65	159.824	0.55	-0.43	-0.35	
13062.00	89.820	162.270	7261.47	5852.17	-5501.24	2017.67	1732686.03	14224862.41	39°10'20.5205"N	80°40'27.9541"W	5859.58	159.859	0.79	0.50	0.62	
13157.00	89.780	162.380	7261.80	5947.17	-5591.76	2046.52	1732714.86	14224771.93	39°10'19.6249"N	80°40'27.5920"W	5954.49	159.898	0.12	-0.04	0.12	
13251.00	89.750	162.120	7262.19	6041.17	-5681.28	2075.17	1732743.51	14224682.44	39°10'18.7390"N	80°40'27.2322"W	6048.42	159.935	0.28	-0.03	-0.28	
13346.00	89.880	162.800	7262.49	6136.16	-5771.87	2103.80	1732772.13	14224591.89	39°10'17.8427"N	80°40'26.8728"W	6143.32	159.974	0.73	0.14	0.72	
13440.00	89.780	162.630	7262.77	6230.16	-5861.62	2131.73	1732800.04	14224502.17	39°10'16.9546"N	80°40'26.5223"W	6237.22	160.015	0.21	-0.11	-0.18	



# Actual Wellpath Report

Dakota Unit 1H AWP Proj: 22199'  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Dakota Unit 1H
Field	Doddridge	API	47-017-06967-0000
Facility	Haught Pad	Wellbore	Dakota Unit 1H AWB
Slot	Slot C		

## WELLPATH DATA (244 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
13534.00	89.780	162.460	7263.13	6324.16	-5951.29	2159.93	1732828.23	14224412.54	39°10'16.0673"N	80°40'26.1684"W	6331.13	160.052	0.18	0.00	-0.18	
13629.00	89.690	162.080	7263.57	6419.16	-6041.78	2188.86	1732857.15	14224322.08	39°10'15.1719"N	80°40'25.8052"W	6426.05	160.085	0.41	-0.09	-0.40	
13723.00	89.750	162.480	7264.03	6513.15	-6131.32	2217.47	1732885.75	14224232.58	39°10'14.2859"N	80°40'25.4460"W	6519.99	160.117	0.43	0.06	0.43	
13818.00	89.570	162.560	7264.60	6608.15	-6221.93	2246.00	1732914.27	14224142.01	39°10'13.3893"N	80°40'25.0878"W	6614.90	160.151	0.21	-0.19	0.08	
13912.00	90.090	162.290	7264.88	6702.15	-6311.54	2274.39	1732942.64	14224052.43	39°10'12.5026"N	80°40'24.7315"W	6708.83	160.183	0.62	0.55	-0.29	
14007.00	90.030	162.570	7264.78	6797.15	-6402.11	2303.06	1732971.31	14223961.90	39°10'11.6064"N	80°40'24.3716"W	6803.76	160.215	0.30	-0.06	0.29	
14101.00	90.060	162.350	7264.70	6891.15	-6491.74	2331.39	1732999.63	14223872.30	39°10'10.7195"N	80°40'24.0160"W	6897.68	160.245	0.24	0.03	-0.23	
14195.00	89.820	162.530	7264.80	6985.14	-6581.36	2359.75	1733027.98	14223782.72	39°10'9.8327"N	80°40'23.6600"W	6991.62	160.275	0.32	-0.26	0.19	
14290.00	91.020	163.290	7264.10	7080.14	-6672.16	2387.67	1733055.88	14223691.95	39°10'8.9342"N	80°40'23.3097"W	7086.51	160.310	1.50	1.26	0.80	
14384.00	90.060	162.360	7263.22	7174.13	-6761.96	2415.42	1733083.63	14223602.19	39°10'8.0457"N	80°40'22.9614"W	7180.42	160.343	1.42	-1.02	-0.99	
14479.00	89.850	162.380	7263.29	7269.13	-6852.50	2444.20	1733112.39	14223511.68	39°10'7.1498"N	80°40'22.6002"W	7275.36	160.369	0.22	-0.22	0.02	
14573.00	90.280	161.780	7263.19	7363.12	-6941.94	2473.12	1733141.30	14223422.28	39°10'6.2647"N	80°40'22.2371"W	7369.32	160.391	0.79	0.46	-0.64	
14668.00	90.060	162.970	7262.90	7458.12	-7032.48	2501.88	1733170.05	14223331.78	39°10'5.3688"N	80°40'21.8761"W	7464.26	160.416	1.27	-0.23	1.25	
14762.00	90.060	161.830	7262.81	7552.12	-7122.07	2530.31	1733198.46	14223242.21	39°10'4.4823"N	80°40'21.5193"W	7558.20	160.441	1.21	0.00	-1.21	
14857.00	90.250	163.070	7262.55	7647.11	-7212.65	2558.95	1733227.10	14223151.67	39°10'3.5860"N	80°40'21.1598"W	7653.14	160.466	1.32	0.20	1.31	
14952.00	90.180	163.100	7262.19	7742.11	-7303.54	2586.59	1733254.73	14223060.82	39°10'2.6867"N	80°40'20.8130"W	7748.04	160.498	0.08	-0.07	0.03	
15046.00	90.520	162.930	7261.62	7836.11	-7393.44	2614.05	1733282.17	14222970.96	39°10'1.7971"N	80°40'20.4685"W	7841.95	160.528	0.40	0.36	-0.18	
15141.00	90.430	163.280	7260.83	7931.10	-7484.33	2641.66	1733309.77	14222880.10	39°10'0.8978"N	80°40'20.1221"W	7936.85	160.559	0.38	-0.09	0.37	
15235.00	90.120	162.920	7260.38	8025.10	-7574.27	2668.98	1733337.09	14222790.19	39°10'0.0078"N	80°40'19.7793"W	8030.76	160.589	0.51	-0.33	-0.38	
15330.00	90.620	163.570	7259.77	8120.09	-7665.24	2696.37	1733364.46	14222699.26	39°09'59.1078"N	80°40'19.4358"W	8125.65	160.620	0.86	0.53	0.68	
15424.00	90.220	163.470	7259.08	8214.08	-7755.37	2723.03	1733391.12	14222609.16	39°09'58.2159"N	80°40'19.1014"W	8219.53	160.653	0.44	-0.43	-0.11	
15519.00	90.370	163.350	7258.59	8309.07	-7846.42	2750.16	1733418.23	14222518.15	39°09'57.3151"N	80°40'18.7612"W	8314.42	160.685	0.20	0.16	-0.13	
15614.00	90.580	163.420	7257.80	8404.06	-7937.45	2777.32	1733445.38	14222427.16	39°09'56.4144"N	80°40'18.4205"W	8409.32	160.715	0.23	0.22	0.07	
15708.00	90.280	162.890	7257.10	8498.06	-8027.41	2804.56	1733472.61	14222337.23	39°09'55.5242"N	80°40'18.0788"W	8503.23	160.742	0.65	-0.32	-0.56	
15802.00	91.140	163.240	7255.93	8592.05	-8117.33	2831.94	1733499.98	14222247.35	39°09'54.6345"N	80°40'17.7354"W	8597.14	160.767	0.99	0.91	0.37	
15896.00	91.450	164.830	7253.81	8686.00	-8207.67	2857.79	1733525.81	14222157.04	39°09'53.7406"N	80°40'17.4114"W	8690.96	160.803	1.72	0.33	1.69	
15991.00	90.740	163.610	7251.99	8780.95	-8299.08	2883.62	1733551.63	14222065.67	39°09'52.8363"N	80°40'17.0876"W	8785.78	160.840	1.49	-0.75	-1.28	
16085.00	90.770	163.280	7250.75	8874.93	-8389.17	2910.40	1733578.41	14221975.61	39°09'51.9448"N	80°40'16.7518"W	8879.67	160.867	0.35	0.03	-0.35	
16180.00	90.860	163.090	7249.40	8969.92	-8480.10	2937.88	1733605.87	14221884.72	39°09'51.0451"N	80°40'16.4071"W	8974.59	160.892	0.22	0.09	-0.20	
16275.00	90.620	163.260	7248.17	9064.91	-8571.03	2965.37	1733633.36	14221793.83	39°09'50.1455"N	80°40'16.0622"W	9069.50	160.916	0.31	-0.25	0.18	



# Actual Wellpath Report

Dakota Unit 1H AWP Proj: 22199'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Dakota Unit 1H
Field	Doddridge	API	47-017-06967-0000
Facility	Haught Pad	Wellbore	Dakota Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (244 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
16369.00	90.770	163.280	7247.03	9158.90	-8661.04	2992.43	1733660.40	14221703.85	39°09'49.2548"N	80°40'15.7228"W	9163.42	160.940	0.16	0.16	0.02	
16463.00	90.950	163.240	7245.62	9252.88	-8751.05	3019.50	1733687.47	14221613.88	39°09'48.3642"N	80°40'15.3833"W	9257.33	160.963	0.20	0.19	-0.04	
16558.00	90.580	162.750	7244.35	9347.87	-8841.88	3047.28	1733715.24	14221523.08	39°09'47.4654"N	80°40'15.0348"W	9352.26	160.984	0.65	-0.39	-0.52	
16653.00	90.740	163.360	7243.26	9442.86	-8932.75	3074.97	1733742.91	14221432.24	39°09'46.5663"N	80°40'14.6875"W	9447.20	161.005	0.66	0.17	0.64	
16747.00	90.950	163.810	7241.87	9536.84	-9022.91	3101.53	1733769.46	14221342.12	39°09'45.6742"N	80°40'14.3544"W	9541.09	161.030	0.53	0.22	0.48	
16841.00	90.370	163.060	7240.79	9630.83	-9113.00	3128.33	1733796.25	14221252.06	39°09'44.7828"N	80°40'14.0184"W	9635.00	161.054	1.01	-0.62	-0.80	
16936.00	90.920	163.300	7239.72	9725.82	-9203.93	3155.81	1733823.72	14221161.17	39°09'43.8830"N	80°40'13.6736"W	9729.93	161.074	0.63	0.58	0.25	
17031.00	90.860	163.360	7238.25	9820.80	-9294.93	3183.06	1733850.96	14221070.21	39°09'42.9827"N	80°40'13.3318"W	9824.85	161.096	0.09	-0.06	0.06	
17125.00	90.830	163.330	7236.86	9914.79	-9384.98	3210.00	1733877.89	14220980.20	39°09'42.0917"N	80°40'12.9940"W	9918.76	161.117	0.05	-0.03	-0.03	
17219.00	90.740	163.390	7235.57	10008.77	-9475.03	3236.92	1733904.79	14220890.18	39°09'41.2006"N	80°40'12.6565"W	10012.68	161.139	0.12	-0.10	0.06	
17314.00	90.740	163.020	7234.34	10103.76	-9565.97	3264.36	1733932.23	14220799.27	39°09'40.3008"N	80°40'12.3122"W	10107.61	161.158	0.39	0.00	-0.39	
17408.00	90.890	163.370	7233.01	10197.75	-9655.95	3291.54	1733959.40	14220709.33	39°09'39.4105"N	80°40'11.9714"W	10201.55	161.177	0.41	0.16	0.37	
17503.00	90.950	163.380	7231.48	10292.73	-9746.96	3318.71	1733986.56	14220618.35	39°09'38.5099"N	80°40'11.6306"W	10296.46	161.197	0.06	0.06	0.01	
17597.00	90.680	163.300	7230.15	10386.72	-9837.01	3345.66	1734013.50	14220528.34	39°09'37.6190"N	80°40'11.2926"W	10390.39	161.216	0.30	-0.29	-0.09	
17692.00	91.970	163.500	7227.95	10481.68	-9928.02	3372.79	1734040.62	14220437.36	39°09'36.7184"N	80°40'10.9524"W	10485.29	161.236	1.37	1.36	0.21	
17787.00	91.480	163.360	7225.09	10576.63	-10019.04	3399.87	1734067.69	14220346.39	39°09'35.8179"N	80°40'10.6128"W	10580.18	161.256	0.54	-0.52	-0.15	
17881.00	91.380	163.160	7222.74	10670.60	-10109.03	3426.94	1734094.74	14220256.43	39°09'34.9275"N	80°40'10.2734"W	10674.10	161.273	0.24	-0.11	-0.21	
17975.00	91.290	163.270	7220.55	10764.57	-10199.00	3454.08	1734121.87	14220166.50	39°09'34.0372"N	80°40'9.9330"W	10768.02	161.290	0.15	-0.10	0.12	
18070.00	91.260	163.140	7218.44	10859.54	-10289.92	3481.52	1734149.30	14220075.61	39°09'33.1376"N	80°40'9.5888"W	10862.94	161.307	0.14	-0.03	-0.14	
18164.00	91.480	163.500	7216.19	10953.51	-10379.94	3508.49	1734176.27	14219985.63	39°09'32.2469"N	80°40'9.2506"W	10956.86	161.324	0.45	0.23	0.38	
18258.00	91.480	163.390	7213.76	11047.47	-10470.01	3535.27	1734203.03	14219895.59	39°09'31.3556"N	80°40'8.9149"W	11050.76	161.342	0.12	0.00	-0.12	
18353.00	91.260	163.340	7211.49	11142.44	-10561.01	3562.46	1734230.21	14219804.63	39°09'30.4552"N	80°40'8.5739"W	11145.67	161.360	0.24	-0.23	-0.05	
18447.00	91.290	163.270	7209.40	11236.41	-10651.03	3589.45	1734257.19	14219714.65	39°09'29.5645"N	80°40'8.2354"W	11239.60	161.376	0.08	0.03	-0.07	
18541.00	91.570	163.400	7207.06	11330.38	-10741.05	3616.40	1734284.13	14219624.66	39°09'28.6738"N	80°40'7.8974"W	11333.51	161.392	0.33	0.30	0.14	
18635.00	91.510	163.860	7204.53	11424.33	-10831.21	3642.89	1734310.61	14219534.54	39°09'27.7817"N	80°40'7.5654"W	11427.41	161.411	0.49	-0.06	0.49	
18729.00	91.450	163.630	7202.10	11518.29	-10921.42	3669.19	1734336.90	14219444.36	39°09'26.8891"N	80°40'7.2357"W	11521.30	161.430	0.25	-0.06	-0.24	
18824.00	91.380	163.320	7199.76	11613.25	-11012.47	3696.20	1734363.90	14219353.35	39°09'25.9883"N	80°40'6.8970"W	11616.21	161.446	0.33	-0.07	-0.33	
18918.00	91.380	163.400	7197.49	11707.22	-11102.51	3723.11	1734390.80	14219263.34	39°09'25.0974"N	80°40'6.5596"W	11710.13	161.462	0.09	0.00	0.09	
19012.00	91.420	163.360	7195.19	11801.18	-11192.55	3749.99	1734417.67	14219173.33	39°09'24.2064"N	80°40'6.2225"W	11804.05	161.477	0.06	0.04	-0.04	
19106.00	91.540	163.580	7192.77	11895.14	-11282.64	3776.73	1734444.39	14219083.28	39°09'23.3150"N	80°40'5.8873"W	11897.96	161.493	0.27	0.13	0.23	



# Actual Wellpath Report

Dakota Unit 1H AWP Proj: 22199'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Dakota Unit 1H
Field	Doddridge	API	47-017-06967-0000
Facility	Haught Pad	Wellbore	Dakota Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (244 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
19201.00	91.200	163.220	7190.50	11990.11	-11373.65	3803.86	1734471.51	14218992.31	39°09'22.4145"N	80°40'5.5471"W	11992.88	161.508	0.52	-0.36	-0.38	
19295.00	91.450	163.490	7188.32	12084.08	-11463.69	3830.78	1734498.42	14218902.30	39°09'21.5236"N	80°40'5.2096"W	12086.81	161.522	0.39	0.27	0.29	
19389.00	91.510	163.430	7185.89	12178.04	-11553.77	3857.53	1734525.16	14218812.26	39°09'20.6323"N	80°40'4.8742"W	12180.73	161.537	0.09	0.06	-0.06	
19484.00	91.510	163.490	7183.39	12273.00	-11644.81	3884.56	1734552.19	14218721.26	39°09'19.7315"N	80°40'4.5352"W	12275.64	161.552	0.06	0.00	0.06	
19578.00	91.480	163.500	7180.94	12366.96	-11734.90	3911.26	1734578.87	14218631.20	39°09'18.8400"N	80°40'4.2005"W	12369.55	161.567	0.03	-0.03	0.01	
19673.00	91.050	163.080	7178.84	12461.93	-11825.87	3938.57	1734606.17	14218540.27	39°09'17.9400"N	80°40'3.8581"W	12464.49	161.580	0.63	-0.45	-0.44	
19767.00	91.510	163.510	7176.74	12555.90	-11915.88	3965.58	1734633.17	14218450.29	39°09'17.0493"N	80°40'3.5194"W	12558.42	161.593	0.67	0.49	0.46	
19862.00	91.260	163.290	7174.44	12650.87	-12006.89	3992.71	1734660.30	14218359.31	39°09'16.1488"N	80°40'3.1792"W	12653.35	161.606	0.35	-0.26	-0.23	
19956.00	91.540	163.250	7172.15	12744.84	-12096.89	4019.76	1734687.34	14218269.36	39°09'15.2583"N	80°40'2.8400"W	12747.28	161.618	0.30	0.30	-0.04	
20051.00	91.320	162.200	7169.78	12839.81	-12187.57	4047.97	1734715.53	14218178.71	39°09'14.3610"N	80°40'2.4862"W	12842.23	161.627	1.13	-0.23	-1.11	
20145.00	91.630	163.550	7167.36	12933.77	-12277.37	4075.64	1734743.18	14218088.94	39°09'13.4724"N	80°40'2.1391"W	12936.18	161.636	1.47	0.33	1.44	
20240.00	90.550	162.540	7165.55	13028.75	-12368.22	4103.33	1734770.87	14217998.12	39°09'12.5734"N	80°40'1.7918"W	13031.13	161.646	1.56	-1.14	-1.06	
20334.00	89.940	162.650	7165.15	13122.75	-12457.92	4131.45	1734798.98	14217908.46	39°09'11.6859"N	80°40'1.4390"W	13125.11	161.653	0.66	-0.65	0.12	
20429.00	90.000	161.730	7165.20	13217.74	-12548.36	4160.51	1734828.02	14217818.05	39°09'10.7909"N	80°40'1.0744"W	13220.11	161.657	0.97	0.06	-0.97	
20523.00	90.800	162.880	7164.54	13311.74	-12637.91	4189.08	1734856.58	14217728.54	39°09'9.9047"N	80°40'0.7159"W	13314.10	161.661	1.49	0.85	1.22	
20618.00	90.520	162.630	7163.45	13406.73	-12728.63	4217.24	1734884.73	14217637.85	39°09'9.0070"N	80°40'0.3627"W	13409.07	161.669	0.40	-0.29	-0.26	
20712.00	90.370	162.080	7162.72	13500.73	-12818.21	4245.73	1734913.21	14217548.31	39°09'8.1206"N	80°40'0.0052"W	13503.06	161.674	0.61	-0.16	-0.59	
20807.00	90.580	162.300	7161.93	13595.72	-12908.65	4274.79	1734942.26	14217457.91	39°09'7.2256"N	80°39'59.6406"W	13598.06	161.677	0.32	0.22	0.23	
20901.00	90.680	162.370	7160.90	13689.71	-12998.22	4303.31	1734970.77	14217368.38	39°09'6.3394"N	80°39'59.2827"W	13692.04	161.682	0.13	0.11	0.07	
20996.00	90.620	162.450	7159.82	13784.70	-13088.77	4332.02	1734999.47	14217277.86	39°09'5.4433"N	80°39'58.9225"W	13787.03	161.687	0.11	-0.06	0.08	
21090.00	90.520	162.370	7158.88	13878.70	-13178.37	4360.42	1735027.86	14217188.30	39°09'4.5567"N	80°39'58.5661"W	13881.02	161.692	0.14	-0.11	-0.09	
21185.00	90.310	162.190	7158.20	13973.69	-13268.86	4389.34	1735056.76	14217097.84	39°09'3.6613"N	80°39'58.2034"W	13976.01	161.696	0.29	-0.22	-0.19	
21280.00	90.710	162.480	7157.35	14068.68	-13359.38	4418.16	1735085.58	14217007.36	39°09'2.7655"N	80°39'57.8417"W	14071.00	161.700	0.52	0.42	0.31	
21374.00	90.740	162.730	7156.16	14162.68	-13449.07	4446.26	1735113.67	14216917.70	39°09'1.8780"N	80°39'57.4892"W	14164.98	161.706	0.27	0.03	0.27	
21469.00	90.620	162.440	7155.03	14257.67	-13539.71	4474.69	1735142.09	14216827.10	39°09'0.9811"N	80°39'57.1325"W	14259.96	161.712	0.33	-0.13	-0.31	
21563.00	90.550	162.300	7154.07	14351.66	-13629.29	4503.16	1735170.54	14216737.55	39°09'0.0947"N	80°39'56.7754"W	14353.95	161.716	0.17	-0.07	-0.15	
21658.00	90.460	162.200	7153.24	14446.65	-13719.76	4532.12	1735199.49	14216647.12	39°08'59.1994"N	80°39'56.4120"W	14448.95	161.720	0.14	-0.09	-0.11	
21752.00	90.460	162.510	7152.48	14540.65	-13809.34	4560.62	1735227.97	14216557.58	39°08'58.3130"N	80°39'56.0545"W	14542.94	161.724	0.33	0.00	0.33	
21847.00	90.490	162.350	7151.69	14635.64	-13899.90	4589.29	1735256.64	14216467.05	39°08'57.4168"N	80°39'55.6948"W	14637.93	161.728	0.17	0.03	-0.17	
21941.00	90.620	162.520	7150.78	14729.64	-13989.51	4617.66	1735285.00	14216377.47	39°08'56.5301"N	80°39'55.3389"W	14731.91	161.733	0.23	0.14	0.18	



# Actual Wellpath Report

Dakota Unit 1H AWP Proj: 22199'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Dakota Unit 1H
Field	Doddridge	API	47-017-06967-0000
Facility	Haught Pad	Wellbore	Dakota Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (244 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
22036.00	90.490	162.320	7149.86	14824.63	-14080.07	4646.35	1735313.68	14216286.95	39°08'55.6339"N	80°39'54.9789"W	14826.90	161.737	0.25	-0.14	-0.21	
22130.00	90.520	162.460	7149.03	14918.63	-14169.67	4674.79	1735342.10	14216197.39	39°08'54.7474"N	80°39'54.6222"W	14920.89	161.741	0.15	0.03	0.15	
22174.00	90.650	162.310	7148.59	14962.62	-14211.60	4688.10	1735355.41	14216155.47	39°08'54.3324"N	80°39'54.4552"W	14964.89	161.743	0.45	0.30	-0.34	
22199.00‡	90.650	162.310	7148.30	14987.62	-14235.42	4695.70	1735363.00	14216131.66	39°08'54.0967"N	80°39'54.3599"W	14989.89	161.744	0.00	0.00	0.00	Projected MD at TD: 22199'

HOLE & CASING SECTIONS - Ref Wellbore: Dakota Unit 1H AWB Ref Wellpath: Dakota Unit 1H AWP Proj: 22199'									
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
20in Conductor	25.50	125.50	100.00	25.50	125.50	0.00	0.00	-0.12	0.08
17.5in Open Hole	125.50	380.00	254.50	125.50	380.00	-0.12	0.08	-0.52	0.21
13.375in Casing Surface	25.50	360.00	334.50	25.50	360.00	0.00	0.00	-0.49	0.24
12.25in Open Hole	380.00	3327.00	2947.00	380.00	3295.71	-0.52	0.21	364.29	168.42
9.625in Casing Intermediate	25.50	3297.00	3271.50	25.50	3266.01	0.00	0.00	360.18	167.25
8.75in Open Hole	3327.00	6778.00	3451.00	3295.71	6725.38	364.29	168.42	305.94	200.16
8.5in Open Hole	6778.00	22199.00	15421.00	6725.38	7148.30	305.94	200.16	-14235.42	4695.70
5.5in Casing Production	25.50	22179.00	22153.50	25.50	7148.53	0.00	0.00	-14216.36	4689.62



# Actual Wellpath Report

Dakota Unit 1H AWP Proj: 22199'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Dakota Unit 1H
Field	Doddridge	API	47-017-06967-0000
Facility	Haught Pad	Wellbore	Dakota Unit 1H AWB
Slot	Slot C		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Dakota Unit 1H POE Rev-3	7185.00	-192.57	348.06	1731017.07	14230169.00	39°11'13.0494"N	80°40'48.9160"W	point
Dakota Unit 1H BHL Rev-3	7211.00	-14218.82	4705.68	1735372.98	14216148.25	39°08'54.2604"N	80°39'54.2324"W	point
Dakota Unit 1H LP Rev-3	7211.00	-375.18	404.79	1731073.78	14229986.46	39°11'11.2425"N	80°40'48.2037"W	point
Dakota Unit 1H 50' L/R Hard Line	7500.00	-7205.70	2526.87	1733195.03	14223158.62	39°10'3.6559"N	80°40'21.5668"W	rectangle
2D Rectangle 14687.6 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Dakota Unit 1H AWB Ref Wellpath: Dakota Unit 1H AWP Proj: 22199'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	472.00	Gyodata 2015 - GC+WIR+DPIPE	01 Gyodata MS Gyro <17-1/2"> (100'-472')	Dakota Unit 1H AWB	12/27/2023
472.00	3257.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-1/4"> (472')(498'-3257')	Dakota Unit 1H AWB	12/27/2023
3257.00	6709.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (3257')(3400'-6709')	Dakota Unit 1H AWB	1/19/2024
6709.00	22199.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (6709')(6827'-22174')	Dakota Unit 1H AWB	1/19/2024



# Actual Wellpath Report

Dakota Unit 1H AWP Proj: 22199'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Dakota Unit 1H
Field	Doddridge	API	47-017-06967-0000
Facility	Haught Pad	Wellbore	Dakota Unit 1H AWB
Slot	Slot C		

## COMMENTS

### Wellpath general comments

API: 47-017-06967-0000

BH Job #: 112081139

Rig: H&P 317

Duration: 1/23/2024-1/28/2024

Gyrodata MS Gyro <17-1/2"> (100'-472')

APS EM <12-1/4"> (472')(498'-3257')

APS EM <8-3/4"> (3257')(3400'-6709')

BH AT Curve <8-1/2"> (6709')(6827'-22174')

Sycamore: 6813' MD

Middlesex: 7007' MD

Burkett: 7210' MD

Tully: 7275' MD

Marcellus POE: 7524' MD

Projected MD at TD: 22199'