



ANTERO RESOURCES CORPORATION



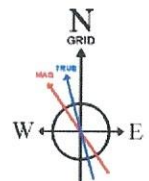
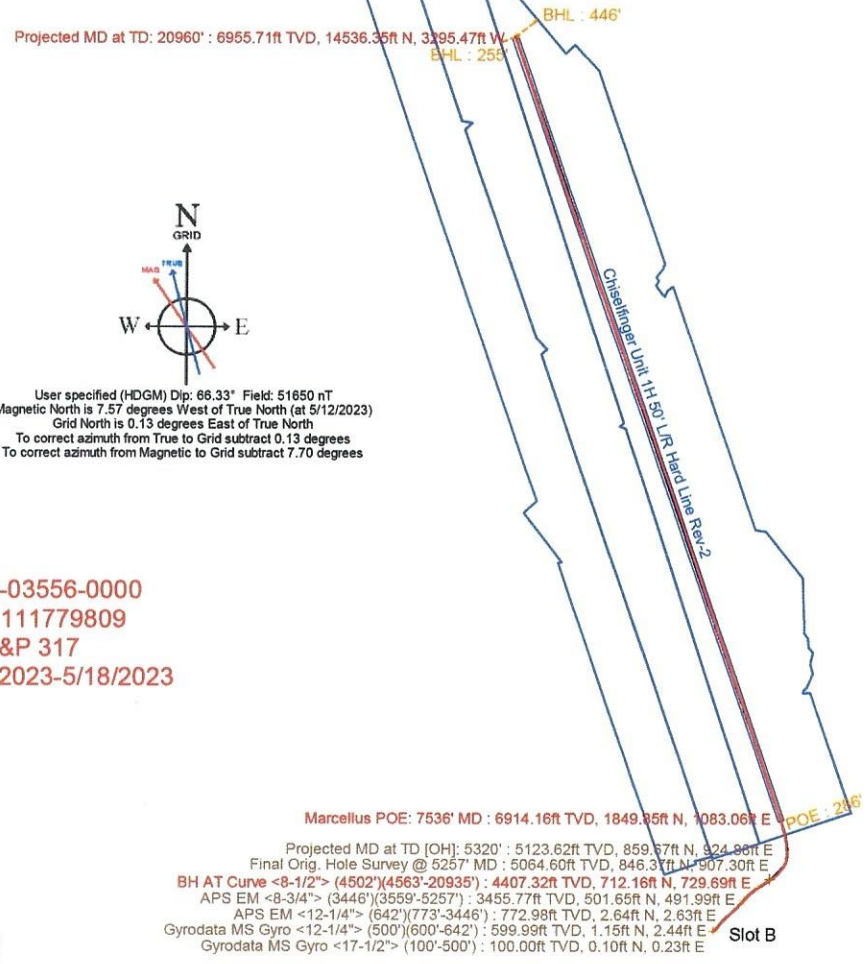
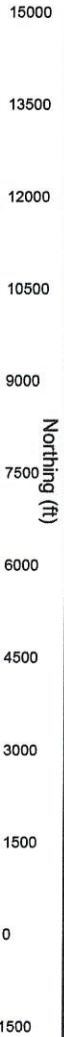
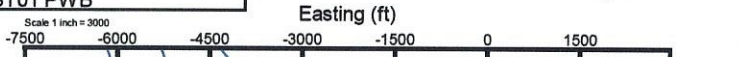
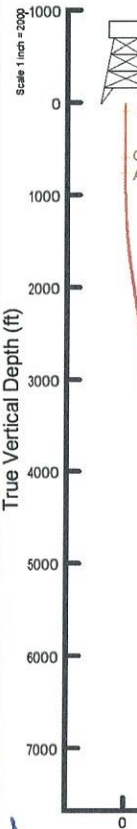
Location: Wetzel County, WV
 Field: Wetzel
 Facility: Ingold Pad

Slot: Slot B
 Well: Chiselfinger Unit 1H ST01
 Wellbore: Chiselfinger Unit 1H ST01 PWB

Plot reference wellpath is Chiselfinger Unit 1H ST01 PWP Rev-C.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: 1280.5 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot B): -1255 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edsaryar on 2023-05-30; Database: WA_MPL_EASTERNUS_Deth

Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Ingold Pad	1698814.580	14363571.790	39°33'12.9920"N	80°47'34.1600"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Longitude
Slot B	-14.36	2.38	1698816.960	14363557.440	39°33'12.8500"N
Comment	Chiselfinger Ridge Unit 1H				
H&P 317 (RKB) to Ground level (At Slot: Slot B)					25.5ft
Mean Sea Level to Ground level (At Slot: Slot B)					-1255ft
H&P 317 (RKB) to Mean Sea Level					1280.5ft

Well Profile Data								
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS ("/100ft)	VS (ft)
Tie On	4502.00	16.020	56.790	4348.18	703.35	717.86	1.67	430.74
Next Svy	4597.00	18.040	57.040	4439.01	718.53	740.98	2.13	437.49
Sidetrack Pt.	4600.00	18.008	56.891	4441.86	719.04	741.76	1.87	437.72
End of Drop	4695.00	15.158	56.891	4532.90	733.84	784.46	3.00	444.31
Hold Past Fish	5300.00	15.158	56.891	5116.85	820.26	896.97	0.00	482.76
Build	5516.63	20.456	44.426	5323.11	862.81	947.25	3.00	506.58
Curve KOP	6294.70	20.456	44.426	6052.11	1057.00	1137.60	0.00	628.06
Build/Turn	7278.30	57.631	345.436	6824.19	1616.57	1154.51	5.00	1151.50
POE	7491.75	74.217	340.984	6911.00	1802.28	1097.92	8.00	1345.51
Landing Pt.	7689.03	90.000	340.984	6938.00	1986.42	1034.39	8.00	1540.30
BHL	20968.18	80.000	340.984	6938.00	14539.38	-3296.74	0.00	14819.43



User specified (HDGM) Dip: 66.33° Field: 51650 nT
 Magnetic North is 7.57 degrees West of True North (at 5/12/2023)
 Grid North is 0.13 degrees East of True North
 To correct azimuth from True to Grid subtract 0.13 degrees
 To correct azimuth from Magnetic to Grid subtract 7.70 degrees

Gyrodatta MS Gyro <17-1/2"> (100'-500') : 0.39° Inc, 100.00ft MD, 100.00ft TVD, 0.02ft VS
 Gyrodatta MS Gyro <12-1/4"> (500')(600'-642') : 0.29° Inc, 600.00ft MD, 599.99ft TVD, 0.30ft VS
 APS EM <12-1/4"> (642')(773'-3446') : 0.87° Inc, 773.00ft MD, 772.98ft TVD, 1.63ft VS

APS EM <8-3/4"> (3446')(3559'-5257') : 15.4° Inc, 3559.00ft MD, 3455.77ft TVD, 313.70ft VS

BH AT Curve <8-1/2"> (4502')(4563'-20935') : 12.33° Inc, 4563.00ft MD, 4407.32ft TVD, 435.16ft VS

Final Orig. Hole Survey @ 5257' MD : 20.48° Inc, 5257.00ft MD, 5064.60ft TVD, 504.08ft VS
 Projected MD at TD (OH): 5320' : 20.48° Inc, 5320.00ft MD, 5123.62ft TVD, 510.91ft VS

Well Data			
Slot	Well	Wellbore	Wellpath
Slot B	Chiselfinger Unit 1H	Chiselfinger Unit 1H AWB	Chiselfinger Unit 1H AWP Proj: 5320'
Slot B	Chiselfinger Unit 1H ST01	Chiselfinger Unit 1H ST01 AWB	Chiselfinger Unit 1H ST01 AWP Proj: 20960'
Slot B	Chiselfinger Unit 1H ST01	Chiselfinger Unit 1H ST01 PWB	Chiselfinger Unit 1H ST01 PWP Rev-C.0

Marcellus POE: 7536' MD : 78.26° Inc, 7536.00ft MD, 6914.16ft TVD, 1395.32ft VS

Projected MD at TD: 20960' : 89.54° Inc, 20960.00ft MD, 6955.71ft TVD, 14816.16ft VS

Vertical Section (ft)
 Azimuth 340.96° with reference 0.00 N, 0.00 E

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API: 47-103-03556-0000
 BH Job #: 111779809
 Rig: H&P 317
 Duration: 5/14/2023-5/18/2023

Handwritten initials/signature



Actual Wellpath Report

Chiselfinger Unit 1H ST01 AWP Proj: 20960'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Chiselfinger Unit 1H ST01
Field	Wetzel	API	47-103-03556-0000
Facility	Ingold Pad	Wellbore	Chiselfinger Unit 1H ST01 AWB
Slot	Slot B	Sidetrack from	Chiselfinger Unit 1H AWP Proj: 5320' at 4502.00 MD

REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999604	Report Generated	5/30/2023 at 7:00:48 PM
Convergence at slot	0.13° East	Database	WA_MPL_EASTERNUS_Defn

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-14.36	2.38	1698816.96	14363557.44	39°33'12.8500"N	80°47'34.1300"W
Facility Reference Pt			1698814.58	14363571.79	39°33'12.9920"N	80°47'34.1600"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	1280.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level	1280.50ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot B)	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	340.96°

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Actual Wellpath Report

Chiselfinger Unit 1H ST01 AWP Proj: 20960'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Chiselfinger Unit 1H ST01
Field	Wetzel	API	47-103-03556-0000
Facility	Ingold Pad	Wellbore	Chiselfinger Unit 1H ST01 AWB
Slot	Slot B	Sidetrack from	Chiselfinger Unit 1H AWP Proj: 5320' at 4502.00 MD

WELLPATH DATA (231 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	67.500	0.00	0.00	0.00	0.00	1698816.96	14363557.44	39°33'12.8500"N	80°47'34.1300"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	67.500	25.50	0.00	0.00	0.00	1698816.96	14363557.44	39°33'12.8500"N	80°47'34.1300"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.390	67.500	100.00	0.02	0.10	0.23	1698817.19	14363557.54	39°33'12.8510"N	80°47'34.1270"W	0.25	67.500	0.52	0.52	0.00	Gyrodata MS Gyro <17-1/2"> (100'-500')
200.00	0.400	73.040	200.00	0.02	0.33	0.88	1698817.84	14363557.77	39°33'12.8533"N	80°47'34.1187"W	0.94	69.550	0.04	0.01	5.54	
300.00	0.490	76.350	299.99	-0.03	0.53	1.63	1698818.59	14363557.97	39°33'12.8553"N	80°47'34.1092"W	1.72	71.950	0.09	0.09	3.31	
400.00	0.260	82.850	399.99	-0.12	0.66	2.27	1698819.23	14363558.10	39°33'12.8565"N	80°47'34.1010"W	2.37	73.783	0.23	-0.23	6.50	
500.00	0.130	5.900	499.99	-0.06	0.80	2.51	1698819.47	14363558.24	39°33'12.8579"N	80°47'34.0979"W	2.63	72.275	0.26	-0.13	-76.95	
600.00	0.290	340.320	599.99	0.30	1.15	2.44	1698819.39	14363558.59	39°33'12.8614"N	80°47'34.0989"W	2.70	64.666	0.18	0.16	-25.58	Gyrodata MS Gyro <12-1/4"> (500')(600'-642')
642.00	0.420	330.260	641.99	0.55	1.39	2.32	1698819.28	14363558.83	39°33'12.8637"N	80°47'34.1003"W	2.71	59.168	0.34	0.31	-23.95	
773.00	0.870	33.200	772.98	1.63	2.64	2.63	1698819.59	14363560.07	39°33'12.8760"N	80°47'34.0963"W	3.72	44.935	0.59	0.34	48.05	APS EM <12-1/4"> (642')(773'-3446')
863.00	2.320	47.910	862.95	2.77	4.43	4.36	1698821.31	14363561.87	39°33'12.8937"N	80°47'34.0743"W	6.21	44.525	1.66	1.61	16.34	
954.00	3.850	52.730	953.81	4.44	7.51	8.15	1698825.11	14363564.95	39°33'12.9241"N	80°47'34.0257"W	11.09	47.341	1.70	1.68	5.30	
1044.00	5.320	51.070	1043.52	6.81	11.97	13.80	1698830.76	14363569.40	39°33'12.9680"N	80°47'33.9534"W	18.27	49.083	1.64	1.63	-1.84	
1138.00	6.960	49.360	1136.98	10.39	18.41	21.52	1698838.47	14363575.85	39°33'13.0315"N	80°47'33.8548"W	28.32	49.444	1.76	1.74	-1.82	
1233.00	8.280	51.310	1231.14	14.81	26.44	31.22	1698848.17	14363583.87	39°33'13.1106"N	80°47'33.7306"W	40.91	49.744	1.42	1.39	2.05	
1327.00	8.980	44.570	1324.08	20.34	35.90	41.66	1698858.60	14363593.32	39°33'13.2039"N	80°47'33.5971"W	54.99	49.248	1.31	0.74	-7.17	
1422.00	9.940	41.530	1417.78	27.67	47.32	52.30	1698869.24	14363604.74	39°33'13.3165"N	80°47'33.4610"W	70.52	47.862	1.14	1.01	-3.20	
1516.00	10.880	41.330	1510.23	36.04	60.05	63.53	1698880.47	14363617.47	39°33'13.4421"N	80°47'33.3171"W	87.42	46.614	1.00	1.00	-0.21	
1611.00	11.750	40.620	1603.39	45.36	74.13	75.75	1698892.68	14363631.54	39°33'13.5809"N	80°47'33.1607"W	105.99	45.621	0.93	0.92	-0.75	
1705.00	12.870	39.530	1695.22	55.65	89.47	88.65	1698905.57	14363646.87	39°33'13.7322"N	80°47'32.9956"W	125.95	44.736	1.22	1.19	-1.16	
1800.00	14.190	38.680	1787.59	67.39	106.72	102.66	1698919.58	14363664.12	39°33'13.9024"N	80°47'32.8163"W	148.08	43.889	1.41	1.39	-0.89	
1894.00	15.360	36.890	1878.48	80.52	125.67	117.33	1698934.25	14363683.06	39°33'14.0894"N	80°47'32.6284"W	171.93	43.035	1.34	1.24	-1.90	
1989.00	16.660	39.190	1969.79	94.74	146.29	133.49	1698950.40	14363703.67	39°33'14.2928"N	80°47'32.4215"W	198.04	42.381	1.52	1.37	2.42	
2083.00	17.760	43.470	2059.58	108.45	167.14	151.87	1698968.77	14363724.51	39°33'14.4984"N	80°47'32.1862"W	225.83	42.260	1.78	1.17	4.55	
2178.00	19.020	46.570	2149.73	121.53	188.30	173.08	1698989.97	14363745.66	39°33'14.7071"N	80°47'31.9148"W	255.76	42.589	1.68	1.33	3.26	
2272.00	19.630	47.300	2238.44	134.19	209.53	195.81	1699012.69	14363766.89	39°33'14.9165"N	80°47'31.6240"W	286.79	43.061	0.70	0.65	0.78	
2367.00	19.870	47.140	2327.85	147.12	231.34	219.37	1699036.24	14363788.69	39°33'15.1314"N	80°47'31.3226"W	318.81	43.479	0.26	0.25	-0.17	
2461.00	19.900	46.700	2416.24	160.14	253.18	242.72	1699059.59	14363810.52	39°33'15.3467"N	80°47'31.0238"W	350.73	43.793	0.16	0.03	-0.47	
2556.00	19.780	45.370	2505.61	173.73	275.56	265.93	1699082.78	14363832.89	39°33'15.5674"N	80°47'30.7269"W	382.95	43.982	0.49	-0.13	-1.40	
2650.00	20.010	45.830	2594.00	187.43	297.94	288.79	1699105.63	14363855.26	39°33'15.7880"N	80°47'30.4344"W	414.93	44.106	0.30	0.24	0.49	

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Actual Wellpath Report

Chiselfinger Unit 1H ST01 AWP Proj: 20960'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Chiselfinger Unit 1H ST01
Field	Wetzel	API	47-103-03556-0000
Facility	Ingold Pad	Wellbore	Chiselfinger Unit 1H ST01 AWB
Slot	Slot B	Sidetrack from	Chiselfinger Unit 1H AWP Proj: 5320' at 4502.00 MD

WELLPATH DATA (231 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
2745.00	20.440	49.300	2683.14	200.45	320.08	313.02	1699129.86	14363877.39	39°33'16.0063"N	80°47'30.1244"W	447.70	44.361	1.34	0.45	3.65	
2839.00	20.330	49.230	2771.25	212.56	341.45	337.83	1699154.66	14363898.75	39°33'16.2169"N	80°47'29.8070"W	480.33	44.695	0.12	-0.12	-0.07	
2934.00	19.700	46.430	2860.52	225.32	363.26	361.93	1699178.75	14363920.56	39°33'16.4320"N	80°47'29.4986"W	512.79	44.895	1.21	-0.66	-2.95	
3029.00	19.280	45.100	2950.07	238.80	385.37	384.64	1699201.45	14363942.65	39°33'16.6499"N	80°47'29.2081"W	544.48	44.946	0.64	-0.44	-1.40	
3123.00	18.470	43.300	3039.02	252.49	407.16	405.85	1699222.65	14363964.44	39°33'16.8648"N	80°47'28.9367"W	574.88	44.908	1.06	-0.86	-1.91	
3217.00	17.920	44.540	3128.32	265.83	428.30	426.20	1699242.99	14363985.57	39°33'17.0733"N	80°47'28.6762"W	604.23	44.859	0.72	-0.59	1.32	
3312.00	17.390	43.810	3218.85	278.81	448.97	446.28	1699263.06	14364006.23	39°33'17.2771"N	80°47'28.4192"W	633.04	44.828	0.60	-0.56	-0.77	
3406.00	16.590	41.600	3308.74	291.80	469.14	464.92	1699281.69	14364026.39	39°33'17.4760"N	80°47'28.1807"W	660.48	44.741	1.09	-0.85	-2.35	
3446.00	16.350	40.450	3347.10	297.46	477.69	472.36	1699289.13	14364034.94	39°33'17.5604"N	80°47'28.0854"W	671.80	44.678	1.01	-0.60	-2.87	
3559.00	15.470	38.150	3455.77	313.70	501.65	491.99	1699308.75	14364058.89	39°33'17.7967"N	80°47'27.8341"W	702.64	44.443	0.96	-0.78	-2.04	APS EM <8-3/4"> (3446')(3559'-5257')
3654.00	17.730	41.380	3546.81	327.71	522.47	509.38	1699326.14	14364079.70	39°33'18.0021"N	80°47'27.6115"W	729.69	44.273	2.57	2.38	3.40	
3748.00	19.960	46.660	3635.77	341.38	544.22	530.52	1699347.26	14364101.45	39°33'18.2166"N	80°47'27.3410"W	760.02	44.269	2.98	2.37	5.62	
3842.00	20.450	43.640	3723.99	355.52	567.12	553.52	1699370.26	14364124.33	39°33'18.4424"N	80°47'27.0467"W	792.47	44.305	1.23	0.52	-3.21	
3937.00	20.800	45.870	3812.90	370.29	590.88	577.08	1699393.81	14364148.08	39°33'18.6766"N	80°47'26.7452"W	825.93	44.323	0.91	0.37	2.35	
4031.00	20.570	47.880	3900.84	383.84	613.57	601.31	1699418.03	14364170.77	39°33'18.9004"N	80°47'26.4352"W	859.09	44.422	0.79	-0.24	2.14	
4126.00	19.400	53.370	3990.13	395.15	634.18	626.35	1699443.06	14364191.37	39°33'19.1035"N	80°47'26.1148"W	891.35	44.644	2.33	-1.23	5.78	
4220.00	18.790	50.650	4078.96	405.13	653.10	650.59	1699467.29	14364210.28	39°33'19.2899"N	80°47'25.8049"W	921.84	44.890	1.15	-0.65	-2.89	
4314.00	17.710	53.990	4168.23	414.55	671.10	673.86	1699490.55	14364228.27	39°33'19.4673"N	80°47'25.5072"W	951.03	45.117	1.60	-1.15	3.55	
4408.00	16.790	51.960	4258.00	423.15	687.87	696.12	1699512.80	14364245.04	39°33'19.6325"N	80°47'25.2225"W	978.65	45.341	1.17	-0.98	-2.16	
4502.00	16.020	56.790	4348.18	430.74	703.35	717.66	1699534.34	14364260.51	39°33'19.7849"N	80°47'24.9470"W	1004.86	45.577	1.67	-0.82	5.14	
4563.00	12.330	49.800	4407.32	435.16	712.16	729.69	1699546.36	14364269.32	39°33'19.8718"N	80°47'24.7932"W	1019.62	45.696	6.66	-6.05	-11.46	BH AT Curve <8-1/2"> (4502')(4563'-20935')
4657.00	13.300	50.130	4498.97	442.63	725.57	745.65	1699562.31	14364282.72	39°33'20.0040"N	80°47'24.5890"W	1040.41	45.782	1.03	1.03	0.35	
4752.00	14.760	50.000	4591.14	450.84	740.36	763.31	1699579.97	14364297.50	39°33'20.1497"N	80°47'24.3631"W	1063.38	45.874	1.54	1.54	-0.14	
4847.00	14.830	56.850	4683.00	458.13	754.79	782.76	1699599.41	14364311.93	39°33'20.2918"N	80°47'24.1144"W	1087.39	46.042	1.84	0.07	7.21	
4941.00	14.730	57.660	4773.89	463.82	767.76	802.93	1699619.57	14364324.89	39°33'20.4196"N	80°47'23.8565"W	1110.92	46.283	0.24	-0.11	0.86	
5035.00	15.420	57.740	4864.65	469.42	780.82	823.59	1699640.23	14364337.95	39°33'20.5482"N	80°47'23.5923"W	1134.89	46.527	0.73	0.73	0.09	
5130.00	15.860	58.120	4956.13	475.20	794.42	845.30	1699661.92	14364351.54	39°33'20.6821"N	80°47'23.3148"W	1160.01	46.777	0.48	0.46	0.40	
5224.00	16.270	59.200	5046.46	480.73	807.94	867.51	1699684.13	14364365.06	39°33'20.8152"N	80°47'23.0308"W	1185.48	47.036	0.54	0.44	1.15	
5319.00	16.130	58.060	5137.69	486.39	821.74	890.14	1699706.75	14364378.85	39°33'20.9511"N	80°47'22.7414"W	1211.45	47.288	0.37	-0.15	-1.20	
5413.00	16.090	58.260	5228.00	492.17	835.50	912.30	1699728.90	14364392.61	39°33'21.0866"N	80°47'22.4581"W	1237.08	47.516	0.07	-0.04	0.21	

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Actual Wellpath Report

Chiselfinger Unit 1H ST01 AWP Proj: 20960'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Chiselfinger Unit 1H ST01
Field	Wetzel	API	47-103-03556-0000
Facility	Ingold Pad	Wellbore	Chiselfinger Unit 1H ST01 AWB
Slot	Slot B	Sidetrack from	Chiselfinger Unit 1H AWP Proj: 5320' at 4502.00 MD

WELLPATH DATA (231 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
5507.00	16.170	58.240	5318.30	497.92	849.24	934.51	1699751.10	14364406.34	39°33'21.2219"N	80°47'22.1742"W	1262.74	47.737	0.09	0.09	-0.02	
5602.00	17.550	58.490	5409.21	503.92	863.69	957.97	1699774.55	14364420.79	39°33'21.3641"N	80°47'21.8743"W	1289.83	47.963	1.45	1.45	0.26	
5696.00	20.010	51.500	5498.21	512.34	881.11	982.64	1699799.21	14364438.20	39°33'21.5357"N	80°47'21.5587"W	1319.83	48.118	3.54	2.62	-7.44	
5790.00	20.070	54.340	5586.52	522.31	900.53	1008.34	1699824.90	14364457.61	39°33'21.7270"N	80°47'21.2301"W	1351.92	48.232	1.04	0.06	3.02	
5884.00	23.200	44.950	5673.92	535.05	923.05	1034.54	1699851.08	14364480.12	39°33'21.9490"N	80°47'20.8950"W	1386.46	48.260	4.96	3.33	-9.99	
5978.00	21.240	40.010	5760.94	551.93	949.20	1058.57	1699875.11	14364506.26	39°33'22.2069"N	80°47'20.5874"W	1421.81	48.118	2.88	-2.09	-5.26	
6073.00	22.260	40.360	5849.17	569.94	976.09	1081.29	1699897.81	14364533.14	39°33'22.4721"N	80°47'20.2965"W	1456.68	47.927	1.08	1.07	0.37	
6167.00	22.230	40.150	5936.18	588.11	1003.25	1104.28	1699920.80	14364560.29	39°33'22.7400"N	80°47'20.0021"W	1491.96	47.745	0.09	-0.03	-0.22	
6261.00	22.230	40.690	6023.19	606.18	1030.32	1127.34	1699943.85	14364587.35	39°33'23.0070"N	80°47'19.7069"W	1527.24	47.574	0.22	0.00	0.57	
6356.00	24.420	31.280	6110.45	627.79	1060.75	1149.26	1699965.76	14364617.76	39°33'23.3072"N	80°47'19.4261"W	1563.96	47.294	4.54	2.31	-9.91	
6450.00	26.780	23.280	6195.25	655.87	1096.82	1167.73	1699984.22	14364653.82	39°33'23.6633"N	80°47'19.1893"W	1602.06	46.793	4.45	2.51	-8.51	
6544.00	30.000	10.760	6278.00	691.96	1139.41	1180.50	1699996.99	14364696.40	39°33'24.0839"N	80°47'19.0250"W	1640.68	46.015	7.18	3.43	-13.32	
6639.00	30.700	6.560	6359.99	734.45	1186.84	1187.70	1700004.19	14364743.81	39°33'24.5525"N	80°47'18.9315"W	1679.06	45.021	2.35	0.74	-4.42	
6733.00	34.760	2.210	6439.06	781.09	1237.48	1191.48	1700007.97	14364794.43	39°33'25.0530"N	80°47'18.8818"W	1717.84	43.915	4.99	4.32	-4.63	
6828.00	38.500	357.850	6515.30	834.65	1294.12	1191.42	1700007.90	14364851.05	39°33'25.6128"N	80°47'18.8809"W	1759.04	42.634	4.79	3.94	-4.59	
6922.00	41.650	355.420	6587.22	892.91	1354.51	1187.82	1700004.31	14364911.42	39°33'26.2097"N	80°47'18.9250"W	1801.56	41.249	3.74	3.35	-2.59	
6950.00†	42.814	355.426	6607.96	911.13	1373.27	1186.32	1700002.81	14364930.17	39°33'26.3952"N	80°47'18.9436"W	1814.73	40.823	4.16	4.16	0.02	
7017.00	45.600	355.440	6655.98	956.36	1419.84	1182.60	1699999.09	14364976.71	39°33'26.8554"N	80°47'18.9897"W	1847.83	39.791	4.16	4.16	0.02	
7110.00	50.540	350.460	6718.13	1024.00	1488.43	1174.00	1699990.50	14365045.27	39°33'27.5335"N	80°47'19.0974"W	1895.70	38.265	6.64	5.31	-5.35	
7115.00†	50.718	350.255	6721.30	1027.82	1492.24	1173.36	1699989.85	14365049.08	39°33'27.5712"N	80°47'19.1056"W	1898.30	38.178	4.76	3.55	-4.09	
7205.00	53.970	346.740	6776.28	1098.43	1562.02	1159.11	1699975.60	14365118.84	39°33'28.2612"N	80°47'19.2854"W	1945.10	36.577	4.76	3.61	-3.91	
7282.00†	58.025	346.748	6819.34	1161.93	1624.14	1144.47	1699960.98	14365180.93	39°33'28.8755"N	80°47'19.4704"W	1986.87	35.171	5.27	5.27	0.01	
7299.00	58.920	346.750	6828.23	1176.34	1638.24	1141.15	1699957.66	14365195.03	39°33'29.0150"N	80°47'19.5124"W	1996.51	34.860	5.27	5.27	0.01	
7328.00†	61.053	346.283	6842.73	1201.33	1662.66	1135.29	1699951.80	14365219.44	39°33'29.2564"N	80°47'19.5864"W	2013.29	34.326	7.49	7.36	-1.61	
7393.00	65.840	345.300	6871.78	1259.25	1719.01	1121.02	1699937.53	14365275.76	39°33'29.8136"N	80°47'19.7670"W	2052.23	33.110	7.49	7.36	-1.51	
7487.00	75.350	343.700	6902.98	1347.64	1804.33	1097.32	1699913.84	14365361.05	39°33'30.6575"N	80°47'20.0670"W	2111.80	31.306	10.24	10.12	-1.70	
7536.00†	78.260	341.524	6914.16	1395.32	1849.85	1083.06	1699899.59	14365406.55	39°33'31.1076"N	80°47'20.2477"W	2143.58	30.348	7.35	5.94	-4.44	
7537.00	78.320	341.480	6914.36	1396.30	1850.78	1082.75	1699899.28	14365407.48	39°33'31.1168"N	80°47'20.2517"W	2144.23	30.329	7.35	5.96	-4.39	
7582.00	78.000	340.910	6923.60	1440.34	1892.47	1068.55	1699885.08	14365449.15	39°33'31.5292"N	80°47'20.4317"W	2173.30	29.451	1.43	-0.71	-1.27	
7676.00	84.450	342.000	6937.93	1533.19	1980.50	1039.03	1699855.57	14365537.15	39°33'32.3999"N	80°47'20.8060"W	2236.50	27.683	6.96	6.86	1.16	



Actual Wellpath Report

Chiselfinger Unit 1H ST01 AWP Proj: 20960'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Chiselfinger Unit 1H ST01
Field	Wetzel	API	47-103-03556-0000
Facility	Ingold Pad	Wellbore	Chiselfinger Unit 1H ST01 AWB
Slot	Slot B	Sidetrack from	Chiselfinger Unit 1H AWP Proj: 5320' at 4502.00 MD

WELLPATH DATA (231 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
7771.00	91.690	341.370	6941.13	1628.06	2070.57	1009.21	1699825.77	14365627.19	39°33'33.2908"N	80°47'21.1840"W	2303.43	25.985	7.65	7.62	-0.66	
7865.00	89.630	341.550	6940.04	1722.05	2159.69	979.32	1699795.89	14365716.27	39°33'34.1722"N	80°47'21.5629"W	2371.35	24.392	2.20	-2.19	0.19	
7960.00	90.310	340.920	6940.09	1817.05	2249.63	948.76	1699765.35	14365806.18	39°33'35.0619"N	80°47'21.9504"W	2441.52	22.867	0.98	0.72	-0.66	
8054.00	90.620	340.720	6939.33	1911.04	2338.41	917.88	1699734.48	14365894.92	39°33'35.9401"N	80°47'22.3420"W	2512.11	21.431	0.39	0.33	-0.21	
8148.00	90.860	342.450	6938.12	2005.03	2427.59	888.19	1699704.80	14365984.06	39°33'36.8221"N	80°47'22.7184"W	2584.97	20.096	1.86	0.26	1.84	
8242.00	90.220	339.480	6937.23	2099.01	2516.44	857.54	1699674.16	14366072.87	39°33'37.7009"N	80°47'23.1071"W	2658.54	18.818	3.23	-0.68	-3.16	
8336.00	90.400	341.450	6936.72	2193.00	2605.02	826.11	1699642.74	14366161.42	39°33'38.5771"N	80°47'23.5058"W	2732.87	17.595	2.10	0.19	2.10	
8431.00	90.370	341.950	6936.08	2287.99	2695.21	796.28	1699612.92	14366251.58	39°33'39.4692"N	80°47'23.8839"W	2810.38	16.459	0.53	-0.03	0.53	
8525.00	89.480	340.180	6936.21	2381.99	2784.12	765.78	1699582.44	14366340.45	39°33'40.3486"N	80°47'24.2707"W	2887.52	15.379	2.11	-0.95	-1.88	
8620.00	90.250	341.600	6936.43	2476.98	2873.88	734.68	1699551.35	14366430.18	39°33'41.2365"N	80°47'24.6651"W	2966.30	14.340	1.70	0.81	1.49	
8714.00	90.340	341.770	6935.95	2570.97	2963.12	705.14	1699521.82	14366519.38	39°33'42.1191"N	80°47'25.0396"W	3045.87	13.386	0.20	0.10	0.18	
8809.00	89.480	340.530	6936.10	2665.97	3053.02	674.45	1699491.14	14366609.25	39°33'43.0083"N	80°47'25.4288"W	3126.63	12.457	1.59	-0.91	-1.31	
8904.00	90.090	341.050	6936.45	2760.97	3142.73	643.19	1699459.90	14366698.92	39°33'43.8957"N	80°47'25.8253"W	3207.87	11.566	0.84	0.64	0.55	
8998.00	90.120	341.040	6936.28	2854.97	3231.63	612.66	1699429.37	14366787.79	39°33'44.7750"N	80°47'26.2125"W	3289.19	10.735	0.03	0.03	-0.01	
9093.00	89.910	341.210	6936.26	2949.97	3321.52	581.92	1699398.65	14366877.64	39°33'45.6641"N	80°47'26.6022"W	3372.12	9.937	0.28	-0.22	0.18	
9187.00	90.090	341.030	6936.26	3043.97	3410.47	551.51	1699368.25	14366966.55	39°33'46.5439"N	80°47'26.9879"W	3454.77	9.186	0.27	0.19	-0.19	
9282.00	90.920	341.670	6935.42	3138.96	3500.47	521.13	1699337.88	14367056.52	39°33'47.4341"N	80°47'27.3731"W	3539.05	8.468	1.10	0.87	0.67	
9376.00	90.490	341.070	6934.26	3232.95	3589.54	491.10	1699307.87	14367145.55	39°33'48.3151"N	80°47'27.7539"W	3622.98	7.791	0.79	-0.46	-0.64	
9471.00	89.910	340.270	6933.93	3327.95	3679.18	459.66	1699276.44	14367235.16	39°33'49.2018"N	80°47'28.1527"W	3707.79	7.121	1.04	-0.61	-0.84	
9560.00	90.310	340.660	6933.57	3516.94	3857.30	396.46	1699213.26	14367413.21	39°33'50.9636"N	80°47'28.9544"W	3877.62	5.868	0.30	0.21	0.21	
9754.00	89.540	340.610	6933.69	3610.94	3945.98	365.29	1699182.11	14367501.85	39°33'51.8408"N	80°47'29.3497"W	3962.86	5.289	0.82	-0.82	-0.05	
9849.00	90.490	341.230	6933.67	3705.93	4035.76	334.24	1699151.06	14367591.60	39°33'52.7288"N	80°47'29.7436"W	4049.58	4.734	1.19	1.00	0.65	
9943.00	90.620	341.770	6932.76	3799.93	4124.90	304.41	1699121.25	14367680.70	39°33'53.6105"N	80°47'30.1218"W	4136.12	4.221	0.59	0.14	0.57	
10038.00	89.820	341.220	6932.39	3894.92	4214.99	274.26	1699091.11	14367770.75	39°33'54.5015"N	80°47'30.5041"W	4223.90	3.723	1.02	-0.84	-0.58	
10133.00	90.030	340.800	6932.51	3989.92	4304.82	243.35	1699060.21	14367860.54	39°33'55.3900"N	80°47'30.8962"W	4311.69	3.235	0.49	0.22	-0.44	
10227.00	90.460	341.660	6932.11	4083.92	4393.82	213.10	1699029.98	14367949.51	39°33'56.2703"N	80°47'31.2797"W	4398.98	2.777	1.02	0.46	0.91	
10322.00	90.340	341.020	6931.45	4178.91	4483.82	182.71	1698999.59	14368039.48	39°33'57.1605"N	80°47'31.6652"W	4487.54	2.333	0.69	-0.13	-0.67	
10417.00	90.180	341.150	6931.02	4273.91	4573.69	151.91	1698968.81	14368129.31	39°33'58.0494"N	80°47'32.0558"W	4576.21	1.902	0.22	-0.17	0.14	
10511.00	90.220	340.950	6930.69	4367.91	4662.59	121.39	1698938.30	14368218.18	39°33'58.9288"N	80°47'32.4429"W	4664.17	1.491	0.22	0.04	-0.21	
10605.00	90.800	341.000	6929.85	4461.90	4751.46	90.75	1698907.67	14368307.00	39°33'59.8077"N	80°47'32.8315"W	4752.32	1.094	0.62	0.62	0.05	



Actual Wellpath Report

Chiselfinger Unit 1H ST01 AWP Proj: 20960'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Chiselfinger Unit 1H ST01
Field	Wetzel	API	47-103-03556-0000
Facility	Ingold Pad	Wellbore	Chiselfinger Unit 1H ST01 AWB
Slot	Slot B	Sidetrack from	Chiselfinger Unit 1H AWP Proj: 5320' at 4502.00 MD

WELLPATH DATA (231 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	90.030	340.290	6929.17	4556.90	4841.08	59.26	1698876.20	14368396.60	39°34'0.6942"N	80°47'33.2309"W	4841.45	0.701	1.10	-0.81	-0.75	
10794.00	90.340	342.040	6928.86	4650.89	4930.05	28.92	1698845.86	14368485.52	39°34'1.5742"N	80°47'33.6158"W	4930.13	0.336	1.89	0.33	1.86	
10889.00	90.520	341.710	6928.15	4745.88	5020.33	-0.64	1698816.32	14368575.77	39°34'2.4671"N	80°47'33.9905"W	5020.33	359.993	0.40	0.19	-0.35	
10983.00	89.630	341.600	6928.03	4839.87	5109.55	-30.22	1698786.75	14368664.96	39°34'3.3496"N	80°47'34.3656"W	5109.64	359.661	0.95	-0.95	-0.12	
11078.00	90.650	340.920	6927.79	4934.87	5199.51	-60.74	1698756.24	14368754.88	39°34'4.2394"N	80°47'34.7527"W	5199.87	359.331	1.29	1.07	-0.72	
11172.00	90.830	341.600	6926.58	5028.86	5288.52	-90.94	1698726.06	14368843.86	39°34'5.1198"N	80°47'35.1357"W	5289.30	359.015	0.75	0.19	0.72	
11266.00	90.520	341.610	6925.47	5122.85	5377.71	-120.60	1698696.41	14368933.01	39°34'6.0019"N	80°47'35.5118"W	5379.06	358.715	0.33	-0.33	0.01	
11361.00	90.150	341.240	6924.92	5217.84	5467.76	-150.86	1698666.16	14369023.02	39°34'6.8926"N	80°47'35.8956"W	5469.84	358.420	0.55	-0.39	-0.39	
11455.00	89.600	341.040	6925.12	5311.84	5556.71	-181.25	1698635.78	14369111.94	39°34'7.7724"N	80°47'36.2810"W	5559.67	358.132	0.62	-0.59	-0.21	
11549.00	89.750	341.470	6925.66	5405.84	5645.73	-211.45	1698605.59	14369200.92	39°34'8.6528"N	80°47'36.6641"W	5649.68	357.855	0.48	0.16	0.46	
11644.00	89.910	341.360	6925.94	5500.83	5735.77	-241.73	1698575.32	14369290.93	39°34'9.5435"N	80°47'37.0481"W	5740.86	357.587	0.20	0.17	-0.12	
11738.00	90.220	341.860	6925.83	5594.83	5824.97	-271.39	1698545.68	14369380.09	39°34'10.4257"N	80°47'37.4242"W	5831.29	357.333	0.63	0.33	0.53	
11832.00	90.090	341.710	6925.58	5688.82	5914.26	-300.77	1698516.31	14369469.35	39°34'11.3088"N	80°47'37.7967"W	5921.90	357.089	0.21	-0.14	-0.16	
11927.00	89.780	341.410	6925.68	5783.81	6004.38	-330.82	1698486.27	14369559.43	39°34'12.2002"N	80°47'38.1778"W	6013.49	356.846	0.45	-0.33	-0.32	
12021.00	90.090	341.690	6925.79	5877.81	6093.55	-360.57	1698456.54	14369648.56	39°34'13.0822"N	80°47'38.5551"W	6104.21	356.614	0.44	0.33	0.30	
12116.00	90.490	341.260	6925.31	5972.80	6183.63	-390.75	1698426.36	14369738.60	39°34'13.9731"N	80°47'38.9379"W	6195.96	356.384	0.62	0.42	-0.45	
12210.00	89.820	341.130	6925.06	6066.80	6272.61	-421.05	1698396.08	14369827.55	39°34'14.8532"N	80°47'39.3222"W	6286.72	356.160	0.73	-0.71	-0.14	
12305.00	89.970	341.610	6925.23	6161.80	6362.63	-451.40	1698365.74	14369917.54	39°34'15.7436"N	80°47'39.7071"W	6378.62	355.942	0.53	0.16	0.51	
12399.00	90.120	341.420	6925.16	6255.79	6451.78	-481.20	1698335.95	14370006.65	39°34'16.6254"N	80°47'40.0851"W	6469.70	355.735	0.26	0.16	-0.20	
12493.00	89.820	341.670	6925.21	6349.79	6540.95	-510.96	1698306.20	14370095.78	39°34'17.5073"N	80°47'40.4625"W	6560.87	355.533	0.42	-0.32	0.27	
12588.00	89.720	341.660	6925.59	6444.78	6631.12	-540.84	1698276.33	14370185.92	39°34'18.3992"N	80°47'40.8415"W	6653.14	355.337	0.11	-0.11	-0.01	
12682.00	90.000	340.310	6925.82	6538.78	6719.99	-571.47	1698245.72	14370274.75	39°34'19.2782"N	80°47'41.2300"W	6744.25	355.139	1.47	0.30	-1.44	
12777.00	90.430	340.660	6925.46	6633.77	6809.53	-603.20	1698214.00	14370364.26	39°34'20.1638"N	80°47'41.6326"W	6836.20	354.938	0.58	0.45	0.37	
12871.00	90.030	340.370	6925.08	6727.77	6898.15	-634.56	1698182.65	14370452.84	39°34'21.0404"N	80°47'42.0304"W	6927.27	354.744	0.53	-0.43	-0.31	
12966.00	89.910	341.170	6925.13	6822.77	6987.85	-665.85	1698151.38	14370542.50	39°34'21.9276"N	80°47'42.4274"W	7019.50	354.557	0.85	-0.13	0.84	
13060.00	90.120	340.870	6925.11	6916.77	7076.73	-696.42	1698120.82	14370631.36	39°34'22.8068"N	80°47'42.8152"W	7110.92	354.380	0.39	0.22	-0.32	
13155.00	90.060	340.620	6924.96	7011.77	7166.42	-727.75	1698089.50	14370721.01	39°34'23.6939"N	80°47'43.2127"W	7203.28	354.202	0.27	-0.06	-0.26	
13250.00	89.750	340.520	6925.12	7106.76	7256.01	-759.35	1698057.91	14370810.56	39°34'24.5800"N	80°47'43.6136"W	7295.64	354.026	0.34	-0.33	-0.11	
13344.00	89.940	340.610	6925.37	7200.76	7344.65	-790.63	1698026.65	14370899.17	39°34'25.4568"N	80°47'44.0105"W	7387.08	353.856	0.22	0.20	0.10	
13439.00	89.970	340.470	6925.44	7295.76	7434.23	-822.28	1697995.01	14370988.71	39°34'26.3428"N	80°47'44.4120"W	7479.56	353.688	0.15	0.03	-0.15	



Actual Wellpath Report

Chiselfinger Unit 1H ST01 AWP Proj: 20960'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Chiselfinger Unit 1H ST01
Field	Wetzel	API	47-103-03556-0000
Facility	Ingold Pad	Wellbore	Chiselfinger Unit 1H ST01 AWB
Slot	Slot B	Sidetrack from	Chiselfinger Unit 1H AWP Proj: 5320' at 4502.00 MD

WELLPATH DATA (231 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
13533.00	90.030	340.600	6925.44	7389.75	7522.85	-853.60	1697963.70	14371077.30	39°34'27.2194"N	80°47'44.8095"W	7571.13	353.526	0.15	0.06	0.14	
13628.00	90.180	340.690	6925.27	7484.75	7612.48	-885.08	1697932.23	14371166.89	39°34'28.1059"N	80°47'45.2089"W	7663.77	353.368	0.18	0.16	0.09	
13722.00	89.540	340.910	6925.50	7578.75	7701.26	-916.00	1697901.33	14371255.63	39°34'28.9840"N	80°47'45.6011"W	7755.54	353.217	0.72	-0.68	0.23	
13816.00	90.090	339.960	6925.80	7672.75	7789.83	-947.48	1697869.86	14371344.16	39°34'29.8600"N	80°47'46.0006"W	7847.24	353.065	1.17	0.59	-1.01	
13911.00	90.220	340.850	6925.55	7767.74	7879.32	-979.34	1697838.01	14371433.63	39°34'30.7453"N	80°47'46.4048"W	7939.95	352.915	0.95	0.14	0.94	
14005.00	90.370	341.350	6925.06	7861.74	7968.25	-1009.78	1697807.58	14371522.52	39°34'31.6249"N	80°47'46.7911"W	8031.98	352.778	0.56	0.16	0.53	
14100.00	90.490	339.740	6924.35	7956.73	8057.82	-1041.42	1697775.95	14371612.06	39°34'32.5108"N	80°47'47.1926"W	8124.84	352.636	1.70	0.13	-1.69	
14195.00	89.480	340.710	6924.37	8051.72	8147.22	-1073.56	1697743.82	14371701.42	39°34'33.3950"N	80°47'47.6004"W	8217.65	352.493	1.47	-1.06	1.02	
14289.00	90.280	340.640	6924.57	8145.72	8235.92	-1104.67	1697712.73	14371790.08	39°34'34.2724"N	80°47'47.9951"W	8309.68	352.361	0.85	0.85	-0.07	
14383.00	90.250	340.920	6924.14	8239.72	8324.68	-1135.61	1697681.80	14371878.81	39°34'35.1503"N	80°47'48.3877"W	8401.78	352.232	0.30	-0.03	0.30	
14478.00	89.820	340.410	6924.08	8334.71	8414.32	-1167.07	1697650.36	14371968.41	39°34'36.0370"N	80°47'48.7868"W	8494.87	352.103	0.70	-0.45	-0.54	
14572.00	90.280	340.180	6924.00	8428.71	8502.82	-1198.76	1697618.68	14372056.87	39°34'36.9123"N	80°47'49.1890"W	8586.91	351.975	0.55	0.49	-0.24	
14667.00	90.370	340.840	6923.46	8523.70	8592.37	-1230.46	1697586.99	14372146.39	39°34'37.7981"N	80°47'49.5912"W	8680.03	351.850	0.70	0.09	0.69	
14762.00	89.850	339.940	6923.28	8618.70	8681.86	-1262.34	1697555.12	14372235.84	39°34'38.6832"N	80°47'49.9958"W	8773.15	351.727	1.09	-0.55	-0.95	
14855.00	90.000	340.380	6923.40	8711.69	8769.34	-1293.90	1697523.57	14372323.29	39°34'39.5485"N	80°47'50.3964"W	8864.28	351.607	0.50	0.16	0.47	
14950.00	90.280	340.400	6923.17	8806.68	8858.83	-1325.79	1697491.70	14372412.74	39°34'40.4337"N	80°47'50.8010"W	8957.49	351.488	0.30	0.29	0.02	
15044.00	90.280	340.900	6922.71	8900.68	8947.52	-1356.93	1697460.57	14372501.40	39°34'41.3109"N	80°47'51.1962"W	9049.83	351.377	0.53	0.00	0.53	
15139.00	89.910	340.020	6922.55	8995.67	9037.05	-1388.71	1697428.81	14372590.89	39°34'42.1964"N	80°47'51.5994"W	9143.12	351.264	1.00	-0.39	-0.93	
15233.00	89.630	340.180	6922.93	9089.66	9125.43	-1420.70	1697396.82	14372679.24	39°34'43.0707"N	80°47'52.0055"W	9235.36	351.151	0.34	-0.30	0.17	
15327.00	91.050	341.160	6922.37	9183.66	9214.13	-1451.81	1697365.72	14372767.90	39°34'43.9480"N	80°47'52.4003"W	9327.80	351.046	1.84	1.51	1.04	
15422.00	89.350	340.430	6922.04	9278.65	9303.84	-1483.06	1697334.49	14372857.57	39°34'44.8353"N	80°47'52.7968"W	9421.30	350.943	1.95	-1.79	-0.77	
15516.00	90.650	340.610	6922.04	9372.65	9392.45	-1514.41	1697303.15	14372946.16	39°34'45.7118"N	80°47'53.1946"W	9513.76	350.841	1.40	1.38	0.19	
15611.00	90.520	340.840	6921.07	9467.64	9482.12	-1545.77	1697271.81	14373035.79	39°34'46.5987"N	80°47'53.5925"W	9607.29	350.741	0.28	-0.14	0.24	
15705.00	89.570	340.650	6920.99	9561.64	9570.87	-1576.77	1697240.82	14373124.50	39°34'47.4764"N	80°47'53.9859"W	9699.88	350.645	1.03	-1.01	-0.20	
15800.00	89.540	340.690	6921.73	9656.63	9660.51	-1608.21	1697209.39	14373214.10	39°34'48.3631"N	80°47'54.3849"W	9793.45	350.548	0.05	-0.03	0.04	
15894.00	89.510	340.090	6922.51	9750.63	9749.05	-1639.76	1697177.86	14373302.61	39°34'49.2389"N	80°47'54.7853"W	9885.99	350.452	0.64	-0.03	-0.64	
15989.00	89.570	340.630	6923.27	9845.62	9838.52	-1671.69	1697145.94	14373392.05	39°34'50.1238"N	80°47'55.1905"W	9979.53	350.357	0.57	0.06	0.57	
16083.00	90.180	340.950	6923.48	9939.62	9927.29	-1702.62	1697115.02	14373480.78	39°34'51.0018"N	80°47'55.5829"W	10072.24	350.268	0.73	0.65	0.34	
16178.00	89.690	340.870	6923.59	10034.62	10017.06	-1733.69	1697083.97	14373570.51	39°34'51.8898"N	80°47'55.9772"W	10165.98	350.181	0.52	-0.52	-0.08	
16273.00	90.520	339.590	6923.41	10129.61	10106.46	-1765.82	1697051.85	14373659.88	39°34'52.7740"N	80°47'56.3850"W	10259.56	350.089	1.61	0.87	-1.35	



Actual Wellpath Report

Chiselfinger Unit 1H ST01 AWP Proj: 20960'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Chiselfinger Unit 1H ST01
Field	Wetzel	API	47-103-03556-0000
Facility	Ingold Pad	Wellbore	Chiselfinger Unit 1H ST01 AWB
Slot	Slot B	Sidetrack from	Chiselfinger Unit 1H AWP Proj: 5320' at 4502.00 MD

WELLPATH DATA (231 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
16367.00	88.370	339.840	6924.32	10223.57	10194.62	-1798.40	1697019.27	14373748.00	39°34'53.6460"N	80°47'56.7987"W	10352.03	349.996	2.30	-2.29	0.27	
16462.00	89.940	340.320	6925.72	10318.55	10283.92	-1830.77	1696986.92	14373837.27	39°34'54.5294"N	80°47'57.2095"W	10445.61	349.906	1.73	1.65	0.51	
16556.00	88.550	340.080	6926.96	10412.53	10372.36	-1862.60	1696955.10	14373925.67	39°34'55.4041"N	80°47'57.6136"W	10538.27	349.820	1.50	-1.48	-0.26	
16650.00	90.120	340.680	6928.05	10506.52	10460.89	-1894.16	1696923.55	14374014.17	39°34'56.2797"N	80°47'58.0141"W	10631.00	349.737	1.79	1.67	0.64	
16744.00	89.660	340.610	6928.23	10600.51	10549.58	-1925.32	1696892.41	14374102.82	39°34'57.1569"N	80°47'58.4095"W	10723.83	349.657	0.49	-0.49	-0.07	
16838.00	89.600	340.450	6928.84	10694.51	10638.20	-1956.65	1696861.09	14374191.41	39°34'58.0335"N	80°47'58.8071"W	10816.64	349.578	0.18	-0.06	-0.17	
16932.00	89.850	340.930	6929.29	10788.51	10726.91	-1987.73	1696830.02	14374280.08	39°34'58.9109"N	80°47'59.2016"W	10909.52	349.502	0.58	0.27	0.51	
17027.00	89.420	340.340	6929.90	10883.50	10816.53	-2019.23	1696798.53	14374369.67	39°34'59.7974"N	80°47'59.6013"W	11003.39	349.426	0.77	-0.45	-0.62	
17121.00	90.120	340.670	6930.27	10977.50	10905.14	-2050.60	1696767.18	14374458.24	39°35'0.6738"N	80°47'59.9995"W	11096.27	349.350	0.82	0.74	0.35	
17216.00	89.820	340.520	6930.32	11072.50	10994.75	-2082.16	1696735.63	14374547.81	39°35'1.5601"N	80°48'0.4000"W	11190.17	349.276	0.35	-0.32	-0.16	
17310.00	89.780	340.540	6930.65	11166.49	11083.37	-2113.49	1696704.31	14374636.40	39°35'2.4367"N	80°48'0.7977"W	11283.08	349.204	0.05	-0.04	0.02	
17404.00	89.380	340.710	6931.34	11260.49	11172.04	-2144.68	1696673.14	14374725.04	39°35'3.3137"N	80°48'1.1935"W	11376.04	349.133	0.46	-0.43	0.18	
17499.00	89.570	340.270	6932.21	11355.48	11261.59	-2176.40	1696641.42	14374814.54	39°35'4.1994"N	80°48'1.5961"W	11469.96	349.062	0.50	0.20	-0.46	
17593.00	89.910	340.760	6932.64	11449.48	11350.20	-2207.76	1696610.08	14374903.12	39°35'5.0759"N	80°48'1.9941"W	11562.93	348.993	0.63	0.36	0.52	
17688.00	89.540	340.150	6933.09	11544.47	11439.73	-2239.54	1696578.31	14374992.61	39°35'5.9614"N	80°48'2.3975"W	11656.88	348.923	0.75	-0.39	-0.64	
17782.00	90.150	340.650	6933.35	11638.47	11528.28	-2271.07	1696546.79	14375081.13	39°35'6.8372"N	80°48'2.7977"W	11749.85	348.855	0.84	0.65	0.53	
17876.00	89.320	339.890	6933.78	11732.46	11616.76	-2302.80	1696515.07	14375169.57	39°35'7.7124"N	80°48'3.2005"W	11842.80	348.788	1.20	-0.88	-0.81	
17971.00	89.750	340.410	6934.55	11827.44	11706.11	-2335.06	1696482.83	14375258.89	39°35'8.5962"N	80°48'3.6100"W	11936.73	348.719	0.71	0.45	0.55	
18065.00	89.690	340.200	6935.01	11921.44	11794.61	-2366.74	1696451.16	14375347.35	39°35'9.4715"N	80°48'4.0121"W	12029.72	348.654	0.23	-0.06	-0.22	
18160.00	89.750	340.290	6935.48	12016.43	11884.02	-2398.85	1696419.07	14375436.73	39°35'10.3559"N	80°48'4.4197"W	12123.71	348.588	0.11	0.06	0.09	
18254.00	89.750	339.720	6935.89	12110.41	11972.35	-2430.99	1696386.94	14375525.02	39°35'11.2296"N	80°48'4.8277"W	12216.66	348.522	0.61	0.00	-0.61	
18348.00	89.970	340.400	6936.12	12204.40	12060.71	-2463.05	1696354.89	14375613.35	39°35'12.1036"N	80°48'5.2347"W	12309.65	348.458	0.76	0.23	0.72	
18443.00	90.120	341.000	6936.04	12299.40	12150.37	-2494.45	1696323.51	14375702.98	39°35'12.9904"N	80°48'5.6332"W	12403.78	348.398	0.65	0.16	0.63	
18537.00	90.000	341.250	6935.94	12393.40	12239.32	-2524.86	1696293.11	14375791.89	39°35'13.8701"N	80°48'6.0191"W	12497.03	348.344	0.30	-0.13	0.27	
18632.00	89.140	339.830	6936.66	12488.39	12328.89	-2556.50	1696261.47	14375881.42	39°35'14.7560"N	80°48'6.4208"W	12591.15	348.285	1.75	-0.91	-1.49	
18726.00	89.750	340.580	6937.57	12582.38	12417.33	-2588.33	1696229.66	14375969.82	39°35'15.6308"N	80°48'6.8249"W	12684.22	348.226	1.03	0.65	0.80	
18820.00	90.250	341.750	6937.57	12676.37	12506.29	-2618.68	1696199.32	14376058.75	39°35'16.5107"N	80°48'7.2100"W	12777.51	348.174	1.35	0.53	1.24	
18914.00	89.660	341.900	6937.64	12770.36	12595.60	-2648.00	1696170.01	14376148.03	39°35'17.3940"N	80°48'7.5820"W	12870.94	348.127	0.65	-0.63	0.16	
19009.00	89.450	341.910	6938.38	12865.35	12685.90	-2677.51	1696140.52	14376238.29	39°35'18.2871"N	80°48'7.9563"W	12965.38	348.082	0.22	-0.22	0.01	
19104.00	89.540	341.620	6939.22	12960.33	12776.13	-2707.23	1696110.80	14376328.48	39°35'19.1795"N	80°48'8.3335"W	13059.81	348.036	0.32	0.09	-0.31	



Actual Wellpath Report

Chiselfinger Unit 1H ST01 AWP Proj: 20960'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Chiselfinger Unit 1H ST01
Field	Wetzel	API	47-103-03556-0000
Facility	Ingold Pad	Wellbore	Chiselfinger Unit 1H ST01 AWB
Slot	Slot B	Sidetrack from	Chiselfinger Unit 1H AWP Proj: 5320' at 4502.00 MD

WELLPATH DATA (231 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
19198.00	89.630	341.600	6939.90	13054.32	12865.32	-2736.89	1696081.16	14376417.64	39°35'20.0617"N	80°48'8.7097"W	13153.22	347.990	0.10	0.10	-0.02	
19292.00	89.230	341.060	6940.83	13148.32	12954.37	-2766.98	1696051.08	14376506.65	39°35'20.9424"N	80°48'9.0916"W	13246.58	347.943	0.71	-0.43	-0.57	
19387.00	89.420	341.980	6941.95	13243.31	13044.47	-2797.09	1696020.99	14376596.71	39°35'21.8335"N	80°48'9.4736"W	13340.98	347.897	0.99	0.20	0.97	
19481.00	89.690	341.790	6942.68	13337.29	13133.80	-2826.31	1695991.77	14376686.02	39°35'22.7170"N	80°48'9.8444"W	13434.47	347.856	0.35	0.29	-0.20	
19576.00	88.950	341.590	6943.81	13432.28	13223.99	-2856.16	1695961.94	14376776.16	39°35'23.6090"N	80°48'10.2231"W	13528.91	347.812	0.81	-0.78	-0.21	
19671.00	89.380	341.110	6945.19	13527.26	13313.99	-2886.53	1695931.58	14376866.13	39°35'24.4991"N	80°48'10.6086"W	13623.30	347.767	0.68	0.45	-0.51	
19765.00	89.540	341.480	6946.08	13621.26	13403.02	-2916.68	1695901.45	14376955.12	39°35'25.3797"N	80°48'10.9911"W	13716.70	347.723	0.43	0.17	0.39	
19860.00	89.600	341.680	6946.79	13716.25	13493.15	-2946.69	1695871.44	14377045.22	39°35'26.2711"N	80°48'11.3720"W	13811.16	347.681	0.22	0.06	0.21	
19954.00	89.420	341.600	6947.60	13810.24	13582.36	-2976.30	1695841.84	14377134.39	39°35'27.1535"N	80°48'11.7477"W	13904.64	347.640	0.21	-0.19	-0.09	
20049.00	89.420	341.660	6948.56	13905.23	13672.52	-3006.24	1695811.92	14377224.51	39°35'28.0451"N	80°48'12.1276"W	13999.11	347.599	0.06	0.00	0.06	
20143.00	89.820	341.640	6949.18	13999.22	13761.73	-3035.83	1695782.34	14377313.70	39°35'28.9275"N	80°48'12.5031"W	14092.61	347.560	0.43	0.43	-0.02	
20237.00	89.380	341.200	6949.84	14093.21	13850.83	-3065.78	1695752.40	14377402.76	39°35'29.8087"N	80°48'12.8832"W	14186.07	347.519	0.66	-0.47	-0.47	
20332.00	89.540	341.250	6950.73	14188.21	13940.77	-3096.36	1695721.84	14377492.66	39°35'30.6983"N	80°48'13.2712"W	14280.50	347.477	0.18	0.17	0.05	
20426.00	89.660	341.430	6951.39	14282.20	14029.83	-3126.43	1695691.77	14377581.68	39°35'31.5791"N	80°48'13.6529"W	14373.96	347.437	0.23	0.13	0.19	
20521.00	89.320	341.430	6952.23	14377.20	14119.88	-3156.68	1695661.53	14377671.70	39°35'32.4698"N	80°48'14.0368"W	14468.44	347.398	0.36	-0.36	0.00	
20615.00	89.660	341.520	6953.07	14471.19	14209.01	-3186.55	1695631.68	14377760.79	39°35'33.3512"N	80°48'14.4158"W	14561.93	347.360	0.37	0.36	0.10	
20709.00	89.540	341.680	6953.73	14565.18	14298.20	-3216.22	1695602.02	14377849.95	39°35'34.2334"N	80°48'14.7923"W	14655.46	347.323	0.21	-0.13	0.17	
20803.00	89.540	341.570	6954.48	14659.17	14387.40	-3245.85	1695572.40	14377939.11	39°35'35.1156"N	80°48'15.1684"W	14749.00	347.287	0.12	0.00	-0.12	
20898.00	89.570	341.600	6955.22	14754.16	14477.53	-3275.86	1695542.41	14378029.21	39°35'36.0071"N	80°48'15.5492"W	14843.53	347.250	0.04	0.03	0.03	
20935.00	89.540	341.540	6955.51	14791.16	14512.64	-3287.56	1695530.71	14378064.30	39°35'36.3542"N	80°48'15.6976"W	14880.34	347.236	0.18	-0.08	-0.16	
20960.00	89.540	341.540	6955.71	14816.16	14536.35	-3295.47	1695522.80	14378088.00	39°35'36.5888"N	80°48'15.7981"W	14905.22	347.227	0.00	0.00	0.00	Projected MD at TD: 20960'



Actual Wellpath Report

Chiselfinger Unit 1H ST01 AWP Proj: 20960'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Chiselfinger Unit 1H ST01
Field	Wetzel	API	47-103-03556-0000
Facility	Ingold Pad	Wellbore	Chiselfinger Unit 1H ST01 AWB
Slot	Slot B	Sidetrack from	Chiselfinger Unit 1H AWP Proj: 5320' at 4502.00 MD

HOLE & CASING SECTIONS - Ref Wellbore: Chiselfinger Unit 1H ST01 AWB Ref Wellpath: Chiselfinger Unit 1H ST01 AWP Proj: 20960'									
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	0.16	0.40
17.5in Open Hole	125.50	579.00	453.50	125.50	578.99	0.16	0.40	1.06	2.47
13.375in Casing Surface	25.50	559.00	533.50	25.50	558.99	0.00	0.00	0.98	2.49
12.25in Open Hole	579.00	3522.00	2943.00	578.99	3420.14	1.06	2.47	493.86	485.78
9.625in Casing Intermediate	25.50	3492.00	3466.50	25.50	3391.28	0.00	0.00	487.51	480.59
8.75in Open Hole	3522.00	4502.00	980.00	3420.14	4348.18	493.86	485.78	703.35	717.66
8.5in Open Hole	4502.00	20960.00	16458.00	4348.18	6955.71	703.35	717.66	14536.35	-3295.47
5.5in Casing Production	25.50	20940.00	20914.50	25.50	6955.55	0.00	0.00	14517.38	-3289.14

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Chiselfinger Unit 1H POE Rev-4	6911.00	1802.28	1097.92	1699914.45	14365359.00	39°33'30.6372"N	80°47'20.0594"W	point
Chiselfinger Unit 1H BHL Rev-4	6938.00	14539.38	-3296.74	1695521.53	14378091.03	39°35'36.6188"N	80°48'15.8142"W	point
Chiselfinger Unit 1H LP Rev-4	6938.00	1986.42	1034.39	1699850.94	14365543.07	39°33'32.4586"N	80°47'20.8650"W	point
Chiselfinger Unit 1H 50' L/R Hard Line Rev-2	7250.00	8170.83	-1099.41	1697717.99	14371725.02	39°34'33.6290"N	80°47'47.9298"W	rectangle
2D Rectangle 13473.9 x 100.								

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Actual Wellpath Report
 Chiselfinger Unit 1H ST01 AWP Proj: 20960'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Chiselfinger Unit 1H ST01
Field	Wetzel	API	47-103-03556-0000
Facility	Ingold Pad	Wellbore	Chiselfinger Unit 1H ST01 AWB
Slot	Slot B	Sidetrack from	Chiselfinger Unit 1H AWP Proj: 5320' at 4502.00 MD

WELLPATH COMPOSITION - Ref Wellbore: Chiselfinger Unit 1H ST01 AWB Ref Wellpath: Chiselfinger Unit 1H ST01 AWP Proj: 20960'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	500.00	Gyrodatta 2015 - GC+WIR+DPIPE	01 Gyrodatta MS Gyro <17-1/2"> (100'-500')	Chiselfinger Unit 1H AWB	4/26/2023
500.00	642.00	Gyrodatta 2015 - GC+WIR+DPIPE	02 Gyrodatta MS Gyro <12-1/4"> (500')(600'-642')	Chiselfinger Unit 1H AWB	4/29/2023
642.00	3446.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <12-1/4"> (642')(773'-3446')	Chiselfinger Unit 1H AWB	4/26/2023
3446.00	4502.00	BH NaviTrak (2019) (Axial Corr+HRGM)	04 APS EM <8-3/4"> (3446')(3559'-5257')	Chiselfinger Unit 1H AWB	5/8/2023
4502.00	20960.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	05 BH AT Curve <8-1/2"> (4502')(4563'-20935')	Chiselfinger Unit 1H ST01 AWB	5/12/2023

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Actual Wellpath Report

Chiselfinger Unit 1H ST01 AWP Proj: 20960'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Chiselfinger Unit 1H ST01
Field	Wetzel	API	47-103-03556-0000
Facility	Ingold Pad	Wellbore	Chiselfinger Unit 1H ST01 AWB
Slot	Slot B	Sidetrack from	Chiselfinger Unit 1H AWP Proj: 5320' at 4502.00 MD

COMMENTS

Wellpath general comments

API: 47-103-03556-0000
BH Job #: 111779809
Rig: H&P 317
Duration: 5/14/2023-5/18/2023
Gyrodatta MS Gyro <17-1/2"> (100'-500')
Gyrodatta MS Gyro <12-1/4"> (500')(600'-642')
APS EM <12-1/4"> (642')(773'-3446')
APS EM <8-3/4"> (3446')(3559'-4502')
BH AT Curve <8-1/2"> (4502')(4563'-20935')
Projected MD at TD: 20960'

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