



ANTERO RESOURCES CORPORATION

Location: Ritchie County, WV
Field: Ritchie
Facility: Pinewood Pad

Slot: Slot D
Well: Cokeley Unit 1H ST01
Wellbore: Cokeley Unit 1H ST01 PWB



PK1 reference wellpath is Cokeley Unit 1H ST01 PWP Rev-C.1	Grid System: NAD27 / UTM Zone 17 North, US foot
True vertical depths are referenced to H&P 519 (RKB)	North Reference: Grid north
Reference wellpaths measured depths are referenced to H&P 519 (RKB)	Scale: True distance
H&P 519 (RKB) to Mean Sea Level: 1096 feet	Coordinates are in feet referenced to S&S
Mean Sea Level to Ground level (At Slot: Slot D): -1096 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edward on 2024-05-31, Database: WA_MPS_EASTERNUS_Own

Location Information

Facility Name			Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Pinewood Pad			1631724.300	14274277.960	39°18'30.7535"N	81°01'50.8280"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Slot D	0.94	29.99	1631754.280	14274278.900	39°18'30.7629"N	81°01'50.2465"W
Comment Cokeley Unit 1H						
H&P 519 (RKB) to Ground level (At Slot: Slot D)					30ft	
Mean Sea Level to Ground level (At Slot: Slot D)					-1096ft	
H&P 519 (RKB) to Mean Sea Level					1096ft	

Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	3183.00	12.560	67.030	3132.02	175.92	389.49	1.02	40.42
End of 3D Arc	3277.00	13.850	72.310	3223.53	163.32	409.62	1.66	40.91
End of 3D Arc	3372.00	15.520	77.620	3315.43	189.50	432.87	2.25	39.24
End of 3D Arc	3466.00	15.520	73.500	3406.01	195.77	457.21	1.17	37.29
Sidetrack Point	3560.00	15.310	76.750	3496.63	202.19	481.35	0.95	35.55
Sidetrack - Low	3725.50	12.000	76.750	3657.43	211.14	519.37	2.00	31.72
Hold / Gain Separation	3925.50	12.000	76.750	3853.06	220.57	559.85	0.00	27.64
Build	4868.81	34.187	337.763	4736.73	498.58	554.82	4.00	292.22
Curve KOP	6284.26	34.187	337.763	5907.60	1234.78	253.84	0.00	1086.20
POE	6804.12	70.488	341.129	6220.00	1614.66	114.81	7.00	1490.70
Landing PL	7062.85	90.000	341.129	6267.00	1873.34	26.19	7.00	1764.07
BHL	22109.81	90.000	341.129	6267.00	18092.43	-4833.94	0.00	16790.83

Well Data

Slot	Well	Wellbore	Wellpath
Slot D	Cokeley Unit 1H	Cokeley Unit 1H AWP	Cokeley Unit 1H AWP Proj: 21947
Slot D	Cokeley Unit 1H ST01	Cokeley Unit 1H ST01 AWP	Cokeley Unit 1H ST01 AWP Proj: 22107
Slot D	Cokeley Unit 1H ST01	Cokeley Unit 1H ST01 PWB	Cokeley Unit 1H ST01 PWP Rev-C.1

APS EM <12-3/8"> (877°)(1038°-3093°) : 0.30° Inc, 1039.00ft MD, 1037.99ft TVD, -4.86ft VS

API: 47-085-10511-0000

BH Job #: 112220036

Rig: H&P 519

Duration: 5/23/2024-5/28/2024

BH AT Curve [OH] <8-1/2"> (5638°)(5718°-21922°) : 14.64° Inc, 5718.00ft MD, 5590.92ft TVD, 6.48ft VS
BH AT Curve [ST01] <8-1/2"> (6107°)(6164°-22082°) : 30.74° Inc, 6164.00ft MD, 5796.61ft TVD, 1029.92ft VS
Marcellus POE: 6804' MD : 68.14° Inc, 6804.00ft MD, 6210.45ft TVD, 1503.97ft VS



User specified (HDGM) Dip: 65.81° Field: 51035 nT
Magnetic North is 7.91 degrees West of True North (at 5/21/2024)
Grid North is 0.02 degrees West of True North
To correct azimuth from True to Grid add 0.02 degrees
To correct azimuth from Magnetic to Grid subtract 7.89 degrees

Marcellus POE: 6804' MD : 6210.45ft TVD, 1626.98ft N, 109.62ft E
BH AT Curve [ST01] <8-1/2"> (6107°)(6164°-22082°) : 5796.61ft TVD, 1182.42ft N, 274.67ft E

BH AT Curve [OH] <8-1/2"> (5638°)(5718°-21922°) : 5590.92ft TVD, 341.31ft N, 978.04ft E
APS EM [ST01] <8-3/4"> (3163°)(3275°-6107°) : 3222.23ft TVD, 182.60ft N, 406.24ft E
APS EM [OH] <6-3/4"> (3063°)(3183°-5638°) : 3132.02ft TVD, 175.92ft N, 389.49ft E
APS EM <12-3/8"> (877°)(1038°-3093°) : 1037.99ft TVD, 4.20ft S, 1.74ft E
Gyrodata MS Gyro <17-1/2"> (100°-877°) : 100.00ft TVD, 0.15ft S, 0.12ft E

Projected MD at TD [OH] : 21947' : 89.91° Inc, 21947.00ft MD, 6206.59ft TVD, 15865.44ft VS

Projected MD at TD : 22107' : 90.22° Inc, 22107.00ft MD, 6178.40ft TVD, 16797.91ft VS

Vertical Section (ft)
Azimuth 341.12° with reference 0.00 N, 0.00 E



Actual Wellpath Report

Cokeley Unit 1H ST01 AWP Proj: 22107'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Cokeley Unit 1H ST01
Field	Ritchie	API	47-085-10511-0000
Facility	Pinewood Pad	Wellbore	Cokeley Unit 1H ST01 AWB
Slot	Slot D	Sidetrack from	Cokeley Unit 1H AWP Proj: 21947' at 3183.00 MD

REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999600	Report Generated	5/30/2024 at 10:29:13 PM
Convergence at slot	0.02° West	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	0.94	29.99	1631754.28	14274278.90	39°18'30.7629"N	81°01'50.2465"W
Facility Reference Pt			1631724.30	14274277.96	39°18'30.7535"N	81°01'50.6280"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.3013"W

WELLPATH DATUM

Calculation method	Minimum curvature	H&P 519 (RKB) to Facility Vertical Datum	1096.00ft
Horizontal Reference Pt	Slot	H&P 519 (RKB) to Mean Sea Level	1096.00ft
Vertical Reference Pt	H&P 519 (RKB)	H&P 519 (RKB) to Ground Level at Slot (Slot D)	30.00ft
MD Reference Pt	H&P 519 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	341.12°



Actual Wellpath Report

Cokeley Unit 1H ST01 AWP Proj: 22107'

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Field	Ritchie	API	47-085-10511-0000
Facility	Pinewood Pad	Wellbore	Cokeley Unit 1H ST01 AWP
Slot	Slot D	Sidetrack from	Cokeley Unit 1H AWP Proj: 21947' at 3183.00 MD

WELLPATH DATA (241 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	139.750	0.00	0.00	0.00	0.00	1631754.28	14274278.90	39°18'30.7629"N	81°01'50.2465"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	139.750	30.00	0.00	0.00	0.00	1631754.28	14274278.90	39°18'30.7629"N	81°01'50.2465"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.320	139.750	100.00	-0.18	-0.15	0.13	1631754.41	14274278.75	39°18'30.7614"N	81°01'50.2449"W	0.20	139.750	0.46	0.46	0.00	Gyrodata MS Gyro <17-1/2"> (100'-877')
200.00	0.370	140.250	200.00	-0.74	-0.61	0.51	1631754.79	14274278.29	39°18'30.7569"N	81°01'50.2400"W	0.80	139.952	0.05	0.05	0.50	
300.00	0.330	148.370	300.00	-1.33	-1.10	0.87	1631755.15	14274277.80	39°18'30.7520"N	81°01'50.2354"W	1.41	141.739	0.06	-0.04	8.12	
400.00	0.360	156.940	399.99	-1.92	-1.64	1.14	1631755.42	14274277.26	39°18'30.7467"N	81°01'50.2319"W	2.00	145.056	0.06	0.03	8.57	
500.00	0.240	145.490	499.99	-2.44	-2.10	1.39	1631755.67	14274276.80	39°18'30.7421"N	81°01'50.2288"W	2.52	146.565	0.13	-0.12	-11.45	
600.00	0.140	136.230	599.99	-2.75	-2.36	1.59	1631755.87	14274276.54	39°18'30.7396"N	81°01'50.2263"W	2.85	146.045	0.10	-0.10	-9.26	
700.00	0.180	140.070	699.99	-3.01	-2.57	1.77	1631756.05	14274276.33	39°18'30.7375"N	81°01'50.2239"W	3.12	145.363	0.04	0.04	3.84	
800.00	0.350	137.990	799.99	-3.43	-2.92	2.08	1631756.36	14274275.98	39°18'30.7341"N	81°01'50.2200"W	3.58	144.504	0.17	0.17	-2.08	
877.00	0.420	168.670	876.99	-3.93	-3.37	2.29	1631756.57	14274275.53	39°18'30.7296"N	81°01'50.2173"W	4.07	145.754	0.28	0.09	39.84	
1038.00	0.300	127.350	1037.99	-4.86	-4.20	2.74	1631757.02	14274274.70	39°18'30.7214"N	81°01'50.2116"W	5.02	146.858	0.17	-0.07	-25.66	APS EM <12-3/8"> (877')(1038'-3063')
1132.00	1.120	66.730	1131.98	-5.00	-3.99	3.78	1631758.06	14274274.91	39°18'30.7235"N	81°01'50.1983"W	5.50	136.513	1.07	0.87	-64.49	
1227.00	2.870	62.740	1226.92	-4.58	-2.53	6.75	1631761.03	14274276.37	39°18'30.7379"N	81°01'50.1606"W	7.21	110.564	1.85	1.84	-4.20	
1321.00	4.690	55.710	1320.71	-3.22	0.71	12.02	1631766.29	14274279.61	39°18'30.7700"N	81°01'50.0936"W	12.04	86.617	1.99	1.94	-7.48	
1416.00	6.850	48.650	1415.22	-0.02	6.64	19.48	1631773.75	14274285.54	39°18'30.8286"N	81°01'49.9987"W	20.58	71.173	2.39	2.27	-7.43	
1510.00	8.520	43.640	1508.38	5.34	15.39	28.50	1631782.76	14274294.28	39°18'30.9151"N	81°01'49.8840"W	32.38	61.634	1.91	1.78	-5.33	
1604.00	10.320	42.680	1601.11	12.56	26.62	39.01	1631793.27	14274305.51	39°18'31.0261"N	81°01'49.7503"W	47.22	55.695	1.92	1.91	-1.02	
1698.00	11.520	47.960	1693.40	20.26	39.09	51.69	1631805.95	14274317.98	39°18'31.1494"N	81°01'49.5891"W	64.81	52.900	1.66	1.28	5.62	
1793.00	12.750	55.020	1786.29	26.90	51.46	67.33	1631821.58	14274330.33	39°18'31.2717"N	81°01'49.3902"W	84.74	52.610	2.03	1.29	7.43	
1887.00	14.430	58.040	1877.65	32.43	63.60	85.76	1631840.01	14274342.48	39°18'31.3918"N	81°01'49.1557"W	106.77	53.439	1.94	1.79	3.21	
1981.00	14.800	58.780	1968.61	37.65	76.03	105.97	1631860.20	14274354.89	39°18'31.5147"N	81°01'48.8987"W	130.42	54.343	0.44	0.39	0.79	
2076.00	14.720	58.960	2060.47	42.78	88.54	126.68	1631880.91	14274367.40	39°18'31.6384"N	81°01'48.6352"W	154.56	55.051	0.10	-0.08	0.19	
2170.00	14.960	64.470	2151.34	46.70	99.93	147.87	1631902.09	14274378.79	39°18'31.7510"N	81°01'48.3658"W	178.46	55.950	1.52	0.26	5.86	
2264.00	14.850	72.320	2242.19	47.85	108.81	170.29	1631924.51	14274387.67	39°18'31.8389"N	81°01'48.0805"W	202.09	57.422	2.15	-0.12	8.35	
2359.00	14.340	74.860	2334.13	46.83	115.58	193.25	1631947.45	14274394.44	39°18'31.9059"N	81°01'47.7885"W	225.18	59.116	0.86	-0.54	2.67	
2453.00	13.920	73.670	2425.28	45.57	121.80	215.34	1631969.53	14274400.65	39°18'31.9675"N	81°01'47.5075"W	247.40	60.506	0.54	-0.45	-1.27	
2548.00	15.060	74.240	2517.26	44.39	128.37	238.18	1631992.37	14274407.22	39°18'32.0324"N	81°01'47.2169"W	270.57	61.677	1.21	1.20	0.60	
2642.00	15.670	75.630	2607.90	42.73	134.84	262.23	1632016.41	14274413.68	39°18'32.0964"N	81°01'46.9110"W	294.87	62.788	0.76	0.65	1.48	
2736.00	15.360	73.860	2698.47	41.13	141.45	286.50	1632040.67	14274420.29	39°18'32.1619"N	81°01'46.6022"W	319.52	63.724	0.59	-0.31	-1.88	



Actual Wellpath Report

Cokeley Unit 1H ST01 AWP Proj: 22107'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Cokeley Unit 1H ST01
Field	Ritchie	API	47-085-10511-0000
Facility	Pinewood Pad	Wellbore	Cokeley Unit 1H ST01 AWB
Slot	Slot D	Sidetrack from	Cokeley Unit 1H AWP Proj: 21947' at 3183.00 MD

WELLPATH DATA (241 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
2830.00	14.910	72.650	2789.20	40.21	148.52	310.02	1632064.18	14274427.36	39°18'32.2319"N	81°01'46.3031"W	343.76	64.402	0.60	-0.50	-1.29	
2924.00	14.270	72.740	2880.17	39.56	155.57	332.63	1632086.77	14274434.40	39°18'32.3016"N	81°01'46.0155"W	367.21	64.935	0.68	-0.68	0.10	
3019.00	13.730	71.070	2972.35	39.24	162.70	354.47	1632108.61	14274441.53	39°18'32.3721"N	81°01'45.7376"W	390.03	65.345	0.71	-0.57	-1.76	
3063.00	13.520	70.400	3015.11	39.31	166.12	364.26	1632118.39	14274444.95	39°18'32.4059"N	81°01'45.6131"W	400.35	65.485	0.60	-0.48	-1.52	
3183.00	12.560	67.030	3132.02	40.42	175.92	389.49	1632143.61	14274454.74	39°18'32.5029"N	81°01'45.2922"W	427.37	65.693	1.02	-0.80	-2.81	APS EM [OH] <8-3/4"> (3063')(3183'-5638')
3275.00	10.060	69.780	3222.23	41.32	182.60	406.24	1632160.36	14274461.42	39°18'32.5690"N	81°01'45.0791"W	445.39	65.797	2.78	-2.72	2.99	APS EM [ST01] <8-3/4"> (3183')(3275'-6107')
3309.00	7.920	74.770	3255.81	41.24	184.24	411.29	1632165.40	14274463.07	39°18'32.5852"N	81°01'45.0149"W	450.67	65.870	6.69	-6.29	14.68	
3370.00	6.620	79.780	3316.32	40.44	185.97	418.80	1632172.91	14274464.79	39°18'32.6023"N	81°01'44.9193"W	458.23	66.057	2.37	-2.13	8.21	
3464.00	10.390	92.140	3409.27	36.59	186.61	432.61	1632186.72	14274465.44	39°18'32.6087"N	81°01'44.7436"W	471.14	66.666	4.43	4.01	13.15	
3558.00	12.290	90.980	3501.43	30.15	186.12	451.09	1632205.18	14274464.95	39°18'32.6040"N	81°01'44.5086"W	487.98	67.578	2.04	2.02	-1.23	
3653.00	14.130	80.300	3593.93	24.86	187.91	472.63	1632226.72	14274466.73	39°18'32.6216"N	81°01'44.2345"W	508.61	68.318	3.21	1.94	-11.24	
3747.00	14.770	79.620	3684.96	21.26	192.00	495.73	1632249.81	14274470.82	39°18'32.6622"N	81°01'43.9407"W	531.61	68.828	0.70	0.68	-0.72	
3841.00	14.350	77.620	3775.94	18.17	196.65	518.89	1632272.96	14274475.48	39°18'32.7082"N	81°01'43.6460"W	554.91	69.244	0.70	-0.45	-2.13	
3936.00	15.610	67.230	3867.72	17.70	204.13	542.18	1632296.24	14274482.95	39°18'32.7822"N	81°01'43.3497"W	579.33	69.369	3.12	1.33	-10.94	
4030.00	16.210	54.830	3958.15	22.24	216.58	564.57	1632318.63	14274495.40	39°18'32.9054"N	81°01'43.0649"W	604.69	69.012	3.67	0.64	-13.19	
4124.00	16.320	41.860	4048.42	32.38	233.98	584.12	1632338.16	14274512.79	39°18'33.0774"N	81°01'42.8163"W	629.24	68.170	3.86	0.12	-13.80	
4219.00	16.840	27.110	4139.51	48.47	256.18	599.30	1632353.34	14274534.98	39°18'33.2969"N	81°01'42.6232"W	651.76	66.855	4.45	0.55	-15.53	
4313.00	17.630	13.980	4229.32	69.90	282.13	608.95	1632362.99	14274560.91	39°18'33.5533"N	81°01'42.5006"W	671.13	65.142	4.21	0.84	-13.97	
4407.00	18.700	3.590	4318.66	95.79	310.99	613.33	1632367.37	14274589.76	39°18'33.8386"N	81°01'42.4449"W	687.67	63.113	3.62	1.14	-11.05	
4501.00	20.800	353.250	4407.15	126.04	342.61	612.32	1632366.35	14274621.38	39°18'34.1512"N	81°01'42.4580"W	701.65	60.771	4.33	2.23	-11.00	
4595.00	23.610	344.890	4494.19	161.16	377.38	605.44	1632359.48	14274656.13	39°18'34.4947"N	81°01'42.5456"W	713.43	58.064	4.49	2.99	-8.89	
4690.00	27.080	340.150	4580.04	201.78	416.10	593.14	1632347.18	14274694.83	39°18'34.8774"N	81°01'42.7023"W	724.53	54.950	4.23	3.65	-4.99	
4784.00	31.170	338.450	4662.14	247.49	458.87	576.93	1632330.98	14274737.58	39°18'35.3001"N	81°01'42.9087"W	737.16	51.503	4.44	4.35	-1.81	
4881.00	35.690	340.180	4743.08	300.89	508.86	558.11	1632312.16	14274787.56	39°18'35.7941"N	81°01'43.1484"W	755.26	47.642	4.76	4.66	1.78	
4976.00	37.680	338.640	4819.26	357.61	561.98	538.13	1632292.20	14274840.65	39°18'36.3190"N	81°01'43.4027"W	778.08	43.758	2.31	2.09	-1.62	
5070.00	37.040	337.470	4893.97	414.57	614.89	516.82	1632270.89	14274893.54	39°18'36.8419"N	81°01'43.6741"W	803.23	40.047	1.02	-0.68	-1.24	
5164.00	37.200	335.700	4968.93	471.11	666.94	494.28	1632248.36	14274945.57	39°18'37.3563"N	81°01'43.9611"W	830.13	36.543	1.15	0.17	-1.88	
5259.00	34.430	338.550	5045.96	526.55	718.12	472.63	1632226.72	14274996.73	39°18'37.8621"N	81°01'44.2366"W	859.70	33.351	3.40	-2.92	3.00	
5353.00	32.880	338.500	5124.20	578.59	766.60	453.56	1632207.66	14275045.19	39°18'38.3412"N	81°01'44.4794"W	890.72	30.611	1.65	-1.65	-0.05	
5448.00	35.450	337.440	5202.80	631.85	816.04	433.54	1632187.64	14275094.61	39°18'38.8298"N	81°01'44.7344"W	924.05	27.980	2.78	2.71	-1.12	



Actual Wellpath Report

Cokeley Unit 1H ST01 AWP Proj: 22107'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Cokeley Unit 1H ST01
Field	Ritchie	API	47-085-10511-0000
Facility	Pinewood Pad	Wellbore	Cokeley Unit 1H ST01 AWB
Slot	Slot D	Sidetrack from	Cokeley Unit 1H AWP Proj: 21947' at 3183.00 MD

WELLPATH DATA (241 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
5542.00	36.940	337.350	5278.66	687.24	867.28	412.20	1632166.32	14275145.83	39°18'39.3362"N	81°01'45.0061"W	960.26	25.421	1.59	1.59	-0.10	
5636.00	36.490	334.410	5354.02	743.19	918.56	389.25	1632143.37	14275197.09	39°18'39.8430"N	81°01'45.2983"W	997.63	22.965	1.93	-0.48	-3.13	
5731.00	33.860	336.940	5431.67	797.65	968.40	366.68	1632120.81	14275246.91	39°18'40.3355"N	81°01'45.5857"W	1035.50	20.739	3.16	-2.77	2.66	
5825.00	31.920	336.710	5510.60	848.55	1015.33	346.59	1632100.73	14275293.82	39°18'40.7992"N	81°01'45.8414"W	1072.85	18.848	2.07	-2.06	-0.24	
5920.00	32.840	336.320	5590.83	899.26	1061.99	326.32	1632080.46	14275340.46	39°18'41.2603"N	81°01'46.0995"W	1110.99	17.081	0.99	0.97	-0.41	
6014.00	33.670	337.100	5669.43	950.65	1109.33	305.94	1632060.10	14275387.79	39°18'41.7282"N	81°01'46.3590"W	1150.75	15.418	0.99	0.88	0.83	
6107.00	31.460	336.540	5747.81	1000.56	1155.35	286.24	1632040.41	14275433.78	39°18'42.1829"N	81°01'46.6097"W	1190.28	13.915	2.40	-2.38	-0.60	
6164.00	30.740	337.160	5796.61	1029.92	1182.42	274.67	1632028.84	14275460.84	39°18'42.4505"N	81°01'46.7571"W	1213.90	13.077	1.38	-1.26	1.09	BH AT Curve [ST01] <8-1/2"> (6107')(6164'-22082')
6259.00	35.980	340.710	5875.94	1082.09	1231.17	256.01	1632010.19	14275509.58	39°18'42.9323"N	81°01'46.9947"W	1257.51	11.747	5.88	5.52	3.74	
6353.00	42.000	340.010	5948.97	1141.20	1286.84	236.12	1631990.30	14275565.22	39°18'43.4824"N	81°01'47.2480"W	1308.32	10.397	6.42	6.40	-0.74	
6435.00†	46.144	340.283	6007.87	1198.22	1340.48	216.76	1631970.95	14275618.84	39°18'44.0125"N	81°01'47.4946"W	1357.89	9.185	5.06	5.05	0.33	Sycamore: 6435' MD
6447.00	46.750	340.320	6016.14	1206.91	1348.67	213.83	1631968.02	14275627.02	39°18'44.0934"N	81°01'47.5319"W	1365.51	9.009	5.06	5.05	0.31	
6541.00	52.860	339.870	6076.78	1278.67	1416.14	189.38	1631943.58	14275694.47	39°18'44.7602"N	81°01'47.8432"W	1428.75	7.617	6.51	6.50	-0.48	
6571.00†	53.746	339.461	6094.70	1302.72	1438.70	181.02	1631935.23	14275717.02	39°18'44.9831"N	81°01'47.9496"W	1450.04	7.171	3.15	2.95	-1.36	Middlesex: 6571' MD
6635.00	55.640	338.620	6131.69	1354.91	1487.46	162.34	1631916.55	14275765.77	39°18'45.4651"N	81°01'48.1876"W	1496.30	6.228	3.15	2.96	-1.31	
6729.00	63.140	339.340	6179.52	1435.69	1562.93	133.36	1631887.58	14275841.21	39°18'46.2109"N	81°01'48.5566"W	1568.61	4.877	8.01	7.98	0.77	
6768.00†	65.738	339.674	6196.35	1470.86	1595.89	121.04	1631875.27	14275874.15	39°18'46.5365"N	81°01'48.7134"W	1600.47	4.337	6.71	6.66	0.86	Burkett: 6768' MD
6804.00†	68.137	339.970	6210.45	1503.97	1626.98	109.62	1631863.85	14275905.22	39°18'46.8438"N	81°01'48.8589"W	1630.66	3.854	6.71	6.66	0.82	Marcellus POE: 6804' MD
6824.00	69.470	340.130	6217.68	1522.61	1644.50	103.25	1631857.49	14275922.74	39°18'47.0170"N	81°01'48.9399"W	1647.74	3.593	6.71	6.66	0.80	
6918.00	76.650	341.990	6245.05	1612.47	1729.51	74.11	1631828.37	14276007.71	39°18'47.8570"N	81°01'49.3110"W	1731.09	2.454	7.87	7.64	1.98	
7012.00	83.340	341.710	6261.38	1704.98	1817.42	45.29	1631799.55	14276095.59	39°18'48.7258"N	81°01'49.6781"W	1817.98	1.428	7.12	7.12	-0.30	
7107.00	91.020	341.920	6266.05	1799.79	1907.50	15.70	1631769.98	14276185.63	39°18'49.6160"N	81°01'50.0549"W	1907.56	0.472	8.09	8.08	0.22	
7202.00	90.890	340.610	6264.46	1894.77	1997.45	-14.80	1631739.48	14276275.55	39°18'50.5050"N	81°01'50.4435"W	1997.50	359.575	1.39	-0.14	-1.38	
7296.00	91.170	339.810	6262.77	1988.75	2085.88	-46.63	1631707.67	14276363.94	39°18'51.3789"N	81°01'50.8487"W	2086.40	358.719	0.90	0.30	-0.85	
7390.00	88.920	338.760	6262.70	2082.69	2173.80	-79.87	1631674.44	14276451.83	39°18'52.2478"N	81°01'51.2721"W	2175.27	357.896	2.64	-2.39	-1.12	
7485.00	89.850	340.530	6263.72	2177.65	2262.86	-112.91	1631641.41	14276540.85	39°18'53.1279"N	81°01'51.6928"W	2265.67	357.143	2.10	0.98	1.86	
7580.00	90.460	340.900	6263.46	2272.65	2352.53	-144.29	1631610.05	14276630.48	39°18'54.0140"N	81°01'52.0924"W	2356.95	356.490	0.75	0.64	0.39	
7674.00	90.460	341.180	6262.71	2366.64	2441.42	-174.83	1631579.52	14276719.34	39°18'54.8925"N	81°01'52.4814"W	2447.67	355.904	0.30	0.00	0.30	
7768.00	90.030	341.140	6262.31	2460.64	2530.39	-205.18	1631549.18	14276808.27	39°18'55.7717"N	81°01'52.8680"W	2538.69	355.364	0.46	-0.46	-0.04	
7862.00	90.150	341.230	6262.16	2554.64	2619.36	-235.50	1631518.88	14276897.21	39°18'56.6510"N	81°01'53.2541"W	2629.93	354.863	0.16	0.13	0.10	



Actual Wellpath Report

Cokeley Unit 1H ST01 AWP Proj: 22107'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Cokeley Unit 1H ST01
Field	Ritchie	API	47-085-10511-0000
Facility	Pinewood Pad	Wellbore	Cokeley Unit 1H ST01 AWB
Slot	Slot D	Sidetrack from	Cokeley Unit 1H AWP Proj: 21947' at 3183.00 MD

WELLPATH DATA (241 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
7957.00	90.150	341.160	6261.91	2649.64	2709.29	-266.12	1631488.26	14276987.10	39°18'57.5398"N	81°01'53.6441"W	2722.33	354.390	0.07	0.00	-0.07	
8051.00	90.180	341.140	6261.64	2743.64	2798.25	-296.49	1631457.91	14277076.02	39°18'58.4189"N	81°01'54.0309"W	2813.91	353.952	0.04	0.03	-0.02	
8145.00	90.030	341.230	6261.47	2837.64	2887.23	-326.81	1631427.60	14277164.97	39°18'59.2982"N	81°01'54.4170"W	2905.66	353.542	0.19	-0.16	0.10	
8240.00	90.520	341.550	6261.01	2932.64	2977.26	-357.13	1631397.30	14277254.96	39°19'0.1879"N	81°01'54.8032"W	2998.60	353.160	0.62	0.52	0.34	
8334.00	89.820	340.720	6260.73	3026.64	3066.21	-387.52	1631366.92	14277343.87	39°19'1.0670"N	81°01'55.1903"W	3090.60	352.797	1.16	-0.74	-0.88	
8428.00	90.220	341.550	6260.70	3120.63	3155.16	-417.91	1631336.54	14277432.79	39°19'1.9460"N	81°01'55.5774"W	3182.71	352.455	0.98	0.43	0.88	
8523.00	89.750	340.810	6260.72	3215.63	3245.08	-448.56	1631305.90	14277522.67	39°19'2.8347"N	81°01'55.9677"W	3275.93	352.130	0.92	-0.49	-0.78	
8617.00	90.310	341.630	6260.67	3309.63	3334.07	-478.82	1631275.65	14277611.63	39°19'3.7141"N	81°01'56.3532"W	3368.28	351.827	1.06	0.60	0.87	
8711.00	90.180	341.070	6260.27	3403.63	3423.13	-508.88	1631245.60	14277700.66	39°19'4.5943"N	81°01'56.7360"W	3460.75	351.544	0.61	-0.14	-0.60	
8805.00	89.910	340.410	6260.20	3497.63	3511.87	-539.89	1631214.61	14277789.36	39°19'5.4712"N	81°01'57.1310"W	3553.13	351.260	0.76	-0.29	-0.70	
8900.00	90.770	341.470	6259.63	3592.62	3601.66	-570.91	1631183.60	14277879.11	39°19'6.3586"N	81°01'57.5261"W	3646.63	350.993	1.44	0.91	1.12	
8994.00	90.120	341.920	6258.90	3686.62	3690.90	-600.43	1631154.09	14277968.32	39°19'7.2405"N	81°01'57.9021"W	3739.42	350.760	0.84	-0.69	0.48	
9088.00	90.090	340.940	6258.73	3780.61	3780.00	-630.36	1631124.17	14278057.39	39°19'8.1211"N	81°01'58.2834"W	3832.21	350.532	1.04	-0.03	-1.04	
9183.00	90.650	341.470	6258.12	3875.61	3869.94	-660.97	1631093.57	14278147.28	39°19'9.0098"N	81°01'58.6733"W	3925.98	350.308	0.81	0.59	0.56	
9277.00	89.910	340.530	6257.66	3969.61	3958.81	-691.57	1631062.98	14278236.12	39°19'9.8881"N	81°01'59.0631"W	4018.76	350.091	1.27	-0.79	-1.00	
9372.00	90.340	340.360	6257.45	4064.60	4048.33	-723.37	1631031.20	14278325.61	39°19'10.7728"N	81°01'59.4681"W	4112.45	349.869	0.49	0.45	-0.18	
9466.00	90.120	340.870	6257.08	4158.59	4137.00	-754.57	1631000.01	14278414.24	39°19'11.6491"N	81°01'59.8655"W	4205.25	349.663	0.59	-0.23	0.54	
9560.00	90.430	341.750	6256.62	4252.59	4226.04	-784.69	1630969.90	14278503.25	39°19'12.5290"N	81°02'0.2491"W	4298.28	349.481	0.99	0.33	0.94	
9655.00	90.280	341.040	6256.04	4347.59	4316.08	-815.00	1630939.61	14278593.24	39°19'13.4188"N	81°02'0.6352"W	4392.35	349.307	0.76	-0.16	-0.75	
9749.00	90.340	340.880	6255.63	4441.59	4404.93	-845.67	1630908.95	14278682.06	39°19'14.2969"N	81°02'1.0258"W	4485.37	349.132	0.18	0.06	-0.17	
9843.00	90.030	340.370	6255.22	4535.58	4493.61	-876.85	1630877.78	14278770.70	39°19'15.1732"N	81°02'1.4230"W	4578.36	348.958	0.63	-0.33	-0.54	
9937.00	90.920	341.670	6254.44	4629.58	4582.49	-907.42	1630847.22	14278859.55	39°19'16.0516"N	81°02'1.8124"W	4671.47	348.799	1.68	0.95	1.38	
10031.00	90.250	341.580	6253.48	4723.57	4671.69	-937.05	1630817.61	14278948.72	39°19'16.9331"N	81°02'2.1899"W	4764.74	348.658	0.72	-0.71	-0.10	
10125.00	91.050	340.630	6252.42	4817.56	4760.62	-967.49	1630787.18	14279037.61	39°19'17.8119"N	81°02'2.5776"W	4857.94	348.512	1.32	0.85	-1.01	
10219.00	89.970	340.110	6251.58	4911.55	4849.15	-999.07	1630755.62	14279126.10	39°19'18.6868"N	81°02'2.9798"W	4951.00	348.358	1.28	-1.15	-0.55	
10314.00	90.860	341.020	6250.89	5006.54	4938.74	-1030.67	1630724.02	14279215.65	39°19'19.5721"N	81°02'3.3825"W	5045.14	348.212	1.34	0.94	0.96	
10408.00	90.400	340.620	6249.86	5100.53	5027.51	-1061.55	1630693.15	14279304.39	39°19'20.4494"N	81°02'3.7758"W	5138.36	348.077	0.65	-0.49	-0.43	
10503.00	89.940	339.750	6249.58	5195.51	5116.89	-1093.76	1630660.96	14279393.73	39°19'21.3326"N	81°02'4.1860"W	5232.48	347.934	1.04	-0.48	-0.92	
10597.00	90.830	341.190	6248.95	5289.50	5205.47	-1125.18	1630629.55	14279482.28	39°19'22.2081"N	81°02'4.5863"W	5325.69	347.803	1.80	0.95	1.53	
10692.00	89.450	340.070	6248.71	5384.50	5295.09	-1156.69	1630598.06	14279571.86	39°19'23.0937"N	81°02'4.9876"W	5419.96	347.678	1.87	-1.45	-1.18	



Actual Wellpath Report

Cokeley Unit 1H ST01 AWP Proj: 22107'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Cokeley Unit 1H ST01
Field	Ritchie	API	47-085-10511-0000
Facility	Pinewood Pad	Wellbore	Cokeley Unit 1H ST01 AWB
Slot	Slot D	Sidetrack from	Cokeley Unit 1H AWP Proj: 21947' at 3183.00 MD

WELLPATH DATA (241 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
10786.00	90.650	341.300	6248.63	5478.49	5383.80	-1187.78	1630566.98	14279660.53	39°19'23.9704"N	81°02'5.3837"W	5513.26	347.559	1.83	1.28	1.31	
10880.00	90.030	340.810	6248.07	5572.49	5472.70	-1218.29	1630536.47	14279749.40	39°19'24.8489"N	81°02'5.7724"W	5606.67	347.450	0.84	-0.66	-0.52	
10974.00	89.910	341.310	6248.12	5666.49	5561.61	-1248.80	1630505.98	14279838.28	39°19'25.7276"N	81°02'6.1611"W	5700.09	347.345	0.55	-0.13	0.53	
11069.00	90.740	340.590	6247.58	5761.48	5651.41	-1279.81	1630474.98	14279928.04	39°19'26.6150"N	81°02'6.5561"W	5794.51	347.240	1.16	0.87	-0.76	
11164.00	90.250	340.970	6246.76	5856.48	5741.11	-1311.08	1630443.72	14280017.70	39°19'27.5014"N	81°02'6.9545"W	5888.91	347.136	0.65	-0.52	0.40	
11258.00	90.220	339.830	6246.38	5950.47	5829.66	-1342.62	1630412.20	14280106.22	39°19'28.3765"N	81°02'7.3561"W	5982.27	347.030	1.21	-0.03	-1.21	
11352.00	90.890	341.510	6245.47	6044.46	5918.35	-1373.73	1630381.10	14280194.87	39°19'29.2530"N	81°02'7.7525"W	6075.69	346.932	1.92	0.71	1.79	
11446.00	90.710	340.140	6244.15	6138.44	6007.13	-1404.60	1630350.25	14280283.61	39°19'30.1303"N	81°02'8.1458"W	6169.15	346.839	1.47	-0.19	-1.46	
11540.00	90.030	341.030	6243.55	6232.44	6095.78	-1435.84	1630319.01	14280372.23	39°19'31.0064"N	81°02'8.5438"W	6262.60	346.746	1.19	-0.72	0.95	
11635.00	90.180	339.590	6243.37	6327.42	6185.22	-1467.85	1630287.02	14280461.64	39°19'31.8903"N	81°02'8.9515"W	6357.01	346.650	1.52	0.16	-1.52	
11729.00	89.940	339.110	6243.28	6421.38	6273.18	-1501.00	1630253.88	14280549.56	39°19'32.7595"N	81°02'9.3738"W	6450.26	346.544	0.57	-0.26	-0.51	
11823.00	89.850	340.970	6243.45	6515.36	6361.53	-1533.09	1630221.81	14280637.87	39°19'33.6326"N	81°02'9.7826"W	6543.66	346.450	1.98	-0.10	1.98	
11917.00	91.690	341.290	6242.18	6609.35	6450.47	-1563.49	1630191.42	14280726.77	39°19'34.5115"N	81°02'10.1698"W	6637.24	346.375	1.99	1.96	0.34	
12011.00	90.180	339.820	6240.65	6703.32	6539.09	-1594.77	1630160.15	14280815.36	39°19'35.3873"N	81°02'10.5684"W	6730.75	346.294	2.24	-1.61	-1.56	
12106.00	90.340	341.490	6240.22	6798.32	6628.72	-1626.24	1630128.69	14280904.96	39°19'36.2731"N	81°02'10.9693"W	6825.29	346.216	1.77	0.17	1.76	
12200.00	90.180	342.200	6239.79	6892.31	6718.04	-1655.53	1630099.42	14280994.24	39°19'37.1557"N	81°02'11.3425"W	6919.02	346.156	0.77	-0.17	0.76	
12294.00	90.340	342.240	6239.37	6986.29	6807.55	-1684.23	1630070.72	14281083.71	39°19'38.0403"N	81°02'11.7082"W	7012.80	346.104	0.18	0.17	0.04	
12388.00	90.860	342.530	6238.38	7080.26	6897.14	-1712.68	1630042.29	14281173.26	39°19'38.9256"N	81°02'12.0706"W	7106.60	346.055	0.63	0.55	0.31	
12482.00	89.350	341.330	6238.21	7174.25	6986.50	-1741.83	1630013.15	14281262.59	39°19'39.8087"N	81°02'12.4421"W	7200.35	346.001	2.05	-1.61	-1.28	
12577.00	90.430	342.400	6238.39	7269.23	7076.77	-1771.40	1629983.59	14281352.83	39°19'40.7009"N	81°02'12.8188"W	7295.11	345.947	1.60	1.14	1.13	
12671.00	90.030	341.170	6238.01	7363.23	7166.06	-1800.78	1629954.22	14281442.08	39°19'41.5832"N	81°02'13.1932"W	7388.86	345.894	1.38	-0.43	-1.31	
12766.00	89.850	341.100	6238.11	7458.23	7255.96	-1831.50	1629923.52	14281531.94	39°19'42.4716"N	81°02'13.5846"W	7483.54	345.834	0.20	-0.19	-0.07	
12860.00	89.970	341.870	6238.26	7552.22	7345.09	-1861.35	1629893.68	14281621.04	39°19'43.3525"N	81°02'13.9649"W	7577.27	345.780	0.83	0.13	0.82	
12955.00	90.770	342.240	6237.65	7647.21	7435.47	-1890.62	1629864.42	14281711.38	39°19'44.2456"N	81°02'14.3378"W	7672.07	345.734	0.93	0.84	0.39	
13049.00	89.970	341.400	6237.04	7741.20	7524.77	-1919.95	1629835.11	14281800.65	39°19'45.1281"N	81°02'14.7115"W	7765.85	345.685	1.23	-0.85	-0.89	
13144.00	89.880	342.060	6237.17	7836.19	7614.98	-1949.73	1629805.34	14281890.82	39°19'46.0196"N	81°02'15.0910"W	7860.62	345.639	0.70	-0.09	0.69	
13238.00	90.680	343.050	6236.71	7930.16	7704.66	-1977.91	1629777.17	14281980.46	39°19'46.9058"N	81°02'15.4501"W	7954.49	345.602	1.35	0.85	1.05	
13333.00	89.820	341.700	6236.29	8025.13	7795.19	-2006.67	1629748.42	14282070.96	39°19'47.8005"N	81°02'15.8166"W	8049.33	345.564	1.68	-0.91	-1.42	
13427.00	89.690	342.200	6236.69	8119.12	7884.56	-2035.80	1629719.30	14282160.30	39°19'48.6837"N	81°02'16.1877"W	8143.15	345.522	0.55	-0.14	0.53	
13522.00	90.400	342.230	6236.62	8214.10	7975.02	-2064.81	1629690.30	14282250.72	39°19'49.5777"N	81°02'16.5574"W	8237.99	345.484	0.75	0.75	0.03	



Actual Wellpath Report

Cokeley Unit 1H ST01 AWP Proj: 22107'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Cokeley Unit 1H ST01
Field	Ritchie	API	47-085-10511-0000
Facility	Pinewood Pad	Wellbore	Cokeley Unit 1H ST01 AWB
Slot	Slot D	Sidetrack from	Cokeley Unit 1H AWP Proj: 21947' at 3183.00 MD

WELLPATH DATA (241 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
13616.00	90.150	342.440	6236.17	8308.08	8064.59	-2093.34	1629661.78	14282340.25	39°19'50.4628"N	81°02'16.9209"W	8331.85	345.449	0.35	-0.27	0.22	
13711.00	89.940	342.270	6236.09	8403.06	8155.12	-2122.13	1629633.00	14282430.74	39°19'51.3574"N	81°02'17.2879"W	8426.71	345.414	0.28	-0.22	-0.18	
13805.00	90.280	342.190	6235.91	8497.04	8244.64	-2150.82	1629604.32	14282520.22	39°19'52.2421"N	81°02'17.6534"W	8520.57	345.379	0.37	0.36	-0.09	
13900.00	90.060	342.680	6235.63	8592.01	8335.21	-2179.49	1629575.66	14282610.76	39°19'53.1371"N	81°02'18.0188"W	8615.44	345.346	0.57	-0.23	0.52	
13994.00	90.000	341.890	6235.58	8685.99	8424.75	-2208.09	1629547.07	14282700.26	39°19'54.0220"N	81°02'18.3832"W	8709.31	345.313	0.84	-0.06	-0.84	
14088.00	89.690	341.710	6235.84	8779.99	8514.04	-2237.45	1629517.73	14282789.52	39°19'54.9044"N	81°02'18.7574"W	8803.13	345.276	0.38	-0.33	-0.19	
14183.00	90.280	342.180	6235.86	8874.98	8604.37	-2266.90	1629488.29	14282879.81	39°19'55.7970"N	81°02'19.1325"W	8897.97	345.240	0.79	0.62	0.49	
14277.00	89.750	341.040	6235.84	8968.97	8693.56	-2296.55	1629458.65	14282968.97	39°19'56.6785"N	81°02'19.5104"W	8991.79	345.202	1.34	-0.56	-1.21	
14371.00	90.220	341.540	6235.86	9062.97	8782.60	-2326.70	1629428.51	14283057.97	39°19'57.5583"N	81°02'19.8946"W	9085.57	345.162	0.73	0.50	0.53	
14466.00	90.000	339.760	6235.68	9157.96	8872.23	-2358.18	1629397.05	14283147.56	39°19'58.4441"N	81°02'20.2957"W	9180.27	345.115	1.89	-0.23	-1.87	
14560.00	90.030	339.550	6235.65	9251.93	8960.36	-2390.86	1629364.38	14283235.66	39°19'59.3150"N	81°02'20.7121"W	9273.85	345.060	0.23	0.03	-0.22	
14654.00	89.910	338.750	6235.70	9345.88	9048.21	-2424.32	1629330.94	14283323.47	39°20'0.1831"N	81°02'21.1384"W	9367.35	345.001	0.86	-0.13	-0.85	
14749.00	90.120	340.390	6235.68	9440.84	9137.23	-2457.48	1629297.79	14283412.45	39°20'1.0628"N	81°02'21.5609"W	9461.93	344.946	1.74	0.22	1.73	
14843.00	89.970	339.490	6235.60	9534.82	9225.52	-2489.72	1629265.56	14283500.72	39°20'1.9354"N	81°02'21.9717"W	9555.57	344.897	0.97	-0.16	-0.96	
14937.00	90.400	341.330	6235.30	9628.80	9314.08	-2521.23	1629234.06	14283589.23	39°20'2.8105"N	81°02'22.3733"W	9649.28	344.854	2.01	0.46	1.96	
15031.00	90.400	342.180	6234.64	9722.80	9403.35	-2550.66	1629204.64	14283678.47	39°20'3.6927"N	81°02'22.7483"W	9743.14	344.824	0.90	0.00	0.90	
15126.00	90.030	341.610	6234.29	9817.79	9493.64	-2580.19	1629175.13	14283768.73	39°20'4.5850"N	81°02'23.1245"W	9838.02	344.795	0.72	-0.39	-0.60	
15220.00	90.150	341.780	6234.14	9911.78	9582.89	-2609.71	1629145.62	14283857.94	39°20'5.4669"N	81°02'23.5007"W	9931.88	344.766	0.22	0.13	0.18	
15314.00	90.150	341.900	6233.89	10005.77	9672.20	-2639.01	1629116.34	14283947.22	39°20'6.3496"N	81°02'23.8741"W	10025.76	344.739	0.13	0.00	0.13	
15409.00	90.400	342.500	6233.44	10100.75	9762.66	-2668.05	1629087.31	14284037.63	39°20'7.2434"N	81°02'24.2442"W	10120.67	344.715	0.68	0.26	0.63	
15503.00	90.280	342.300	6232.88	10194.73	9852.25	-2696.47	1629058.90	14284127.19	39°20'8.1288"N	81°02'24.6064"W	10214.59	344.694	0.25	-0.13	-0.21	
15597.00	90.460	342.700	6232.27	10288.70	9941.90	-2724.73	1629030.64	14284216.81	39°20'9.0148"N	81°02'24.9667"W	10308.52	344.674	0.47	0.19	0.43	
15691.00	90.250	342.010	6231.69	10382.68	10031.48	-2753.23	1629002.16	14284306.34	39°20'9.9000"N	81°02'25.3298"W	10402.44	344.653	0.77	-0.22	-0.73	
15786.00	90.280	342.630	6231.25	10477.65	10121.99	-2782.08	1628973.32	14284396.82	39°20'10.7944"N	81°02'25.6975"W	10497.36	344.631	0.65	0.03	0.65	
15880.00	90.520	342.750	6230.60	10571.62	10211.73	-2810.05	1628945.36	14284486.52	39°20'11.6813"N	81°02'26.0540"W	10591.31	344.614	0.29	0.26	0.13	
15974.00	90.250	342.650	6229.96	10665.58	10301.47	-2838.00	1628917.42	14284576.23	39°20'12.5681"N	81°02'26.4102"W	10685.25	344.597	0.31	-0.29	-0.11	
16068.00	90.340	342.220	6229.48	10759.55	10391.09	-2866.37	1628889.07	14284665.81	39°20'13.4538"N	81°02'26.7718"W	10779.18	344.579	0.47	0.10	-0.46	
16163.00	90.520	341.660	6228.77	10854.54	10481.41	-2895.82	1628859.63	14284756.09	39°20'14.3463"N	81°02'27.1471"W	10874.08	344.556	0.62	0.19	-0.59	
16257.00	90.580	340.710	6227.86	10948.53	10570.38	-2926.13	1628829.33	14284845.03	39°20'15.2255"N	81°02'27.5334"W	10967.91	344.527	1.01	0.06	-1.01	
16352.00	90.490	340.550	6226.98	11043.53	10660.00	-2957.64	1628797.83	14284934.61	39°20'16.1111"N	81°02'27.9349"W	11062.69	344.493	0.19	-0.09	-0.17	



Actual Wellpath Report

Cokeley Unit 1H ST01 AWP Proj: 22107'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Cokeley Unit 1H ST01
Field	Ritchie	API	47-085-10511-0000
Facility	Pinewood Pad	Wellbore	Cokeley Unit 1H ST01 AWB
Slot	Slot D	Sidetrack from	Cokeley Unit 1H AWP Proj: 21947' at 3183.00 MD

WELLPATH DATA (241 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
16446.00	90.370	340.560	6226.27	11137.52	10748.63	-2988.93	1628766.55	14285023.21	39°20'16.9870"N	81°02'28.3337"W	11156.47	344.460	0.13	-0.13	0.01	
16540.00	90.310	340.250	6225.71	11231.51	10837.19	-3020.45	1628735.04	14285111.73	39°20'17.8621"N	81°02'28.7355"W	11250.23	344.426	0.34	-0.06	-0.33	
16635.00	90.340	340.240	6225.18	11326.50	10926.59	-3052.56	1628702.94	14285201.10	39°20'18.7457"N	81°02'29.1446"W	11344.98	344.391	0.03	0.03	-0.01	
16729.00	90.460	340.220	6224.52	11420.48	11015.05	-3084.36	1628671.16	14285289.53	39°20'19.6198"N	81°02'29.5498"W	11438.73	344.357	0.13	0.13	-0.02	
16823.00	90.490	340.500	6223.74	11514.47	11103.58	-3115.95	1628639.58	14285378.02	39°20'20.4946"N	81°02'29.9524"W	11532.50	344.325	0.30	0.03	0.30	
16917.00	90.430	340.450	6222.99	11608.46	11192.17	-3147.37	1628608.18	14285466.57	39°20'21.3701"N	81°02'30.3528"W	11626.29	344.293	0.08	-0.06	-0.05	
17012.00	90.340	340.610	6222.35	11703.45	11281.74	-3179.03	1628576.53	14285556.10	39°20'22.2552"N	81°02'30.7563"W	11721.08	344.263	0.19	-0.09	0.17	
17106.00	90.400	340.250	6221.74	11797.45	11370.31	-3210.52	1628545.06	14285644.64	39°20'23.1304"N	81°02'31.1576"W	11814.87	344.232	0.39	0.06	-0.38	
17200.00	90.370	340.570	6221.11	11891.44	11458.86	-3242.03	1628513.55	14285733.16	39°20'24.0055"N	81°02'31.5592"W	11908.66	344.202	0.34	-0.03	0.34	
17295.00	90.340	340.580	6220.52	11986.43	11548.45	-3273.63	1628481.97	14285822.71	39°20'24.8909"N	81°02'31.9619"W	12003.47	344.174	0.03	-0.03	0.01	
17389.00	90.280	340.500	6220.01	12080.42	11637.08	-3304.94	1628450.67	14285911.30	39°20'25.7667"N	81°02'32.3610"W	12097.29	344.145	0.11	-0.06	-0.09	
17483.00	91.260	341.320	6218.75	12174.41	11725.90	-3335.68	1628419.94	14286000.09	39°20'26.6444"N	81°02'32.7527"W	12191.13	344.120	1.36	1.04	0.87	
17577.00	90.920	340.880	6216.96	12268.40	11814.82	-3366.12	1628389.51	14286088.97	39°20'27.5231"N	81°02'33.1407"W	12284.98	344.097	0.59	-0.36	-0.47	
17672.00	90.180	340.000	6216.05	12363.38	11904.33	-3397.93	1628357.72	14286178.45	39°20'28.4076"N	81°02'33.5461"W	12379.78	344.069	1.21	-0.78	-0.93	
17766.00	90.280	340.220	6215.67	12457.37	11992.72	-3429.91	1628325.75	14286266.80	39°20'29.2811"N	81°02'33.9536"W	12473.56	344.040	0.26	0.11	0.23	
17861.00	90.340	340.610	6215.16	12552.36	12082.22	-3461.75	1628293.92	14286356.27	39°20'30.1656"N	81°02'34.3595"W	12568.37	344.012	0.42	0.06	0.41	
17955.00	90.250	340.360	6214.67	12646.35	12170.82	-3493.15	1628262.53	14286444.83	39°20'31.0411"N	81°02'34.7597"W	12662.19	343.986	0.28	-0.10	-0.27	
18049.00	90.430	340.030	6214.11	12740.34	12259.26	-3525.00	1628230.70	14286533.23	39°20'31.9151"N	81°02'35.1656"W	12755.98	343.958	0.40	0.19	-0.35	
18143.00	90.800	340.470	6213.11	12834.32	12347.73	-3556.76	1628198.95	14286621.66	39°20'32.7893"N	81°02'35.5704"W	12849.78	343.931	0.61	0.39	0.47	
18238.00	90.310	340.100	6212.19	12929.31	12437.15	-3588.81	1628166.91	14286711.05	39°20'33.6730"N	81°02'35.9788"W	12944.59	343.904	0.65	-0.52	-0.39	
18332.00	90.550	340.580	6211.48	13023.29	12525.67	-3620.43	1628135.30	14286799.54	39°20'34.5477"N	81°02'36.3819"W	13038.40	343.879	0.57	0.26	0.51	
18426.00	90.550	340.610	6210.58	13117.29	12614.33	-3651.66	1628104.09	14286888.16	39°20'35.4238"N	81°02'36.7799"W	13132.25	343.855	0.03	0.00	0.03	
18521.00	90.520	340.290	6209.69	13212.28	12703.65	-3683.45	1628072.31	14286977.64	39°20'36.3084"N	81°02'37.1851"W	13227.07	343.831	0.34	-0.03	-0.34	
18615.00	90.550	340.650	6208.81	13306.26	12792.43	-3714.87	1628040.90	14287066.19	39°20'37.1838"N	81°02'37.5856"W	13320.91	343.807	0.38	0.03	0.38	
18710.00	90.280	340.460	6208.12	13401.26	12882.02	-3746.48	1628009.30	14287155.74	39°20'38.0691"N	81°02'37.9885"W	13415.76	343.784	0.34	-0.28	-0.18	
18804.00	90.400	340.740	6207.57	13495.25	12970.68	-3777.69	1627978.11	14287244.37	39°20'38.9453"N	81°02'38.3862"W	13509.61	343.762	0.30	0.13	0.28	
18898.00	90.430	340.330	6206.89	13589.24	13059.31	-3809.01	1627946.80	14287332.96	39°20'39.8211"N	81°02'38.7855"W	13603.46	343.740	0.44	0.03	-0.44	
18992.00	90.800	340.320	6205.88	13683.23	13147.82	-3840.66	1627915.17	14287421.43	39°20'40.6957"N	81°02'39.1888"W	13697.29	343.716	0.39	0.39	-0.01	
19086.00	90.220	339.940	6205.04	13777.21	13236.22	-3872.61	1627883.23	14287509.80	39°20'41.5693"N	81°02'39.5960"W	13791.10	343.692	0.74	-0.62	-0.40	
19181.00	90.370	340.100	6204.55	13872.19	13325.50	-3905.07	1627850.78	14287599.04	39°20'42.4515"N	81°02'40.0098"W	13885.91	343.667	0.23	0.16	0.17	



Actual Wellpath Report

Cokeley Unit 1H ST01 AWP Proj: 22107'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Cokeley Unit 1H ST01
Field	Ritchie	API	47-085-10511-0000
Facility	Pinewood Pad	Wellbore	Cokeley Unit 1H ST01 AWB
Slot	Slot D	Sidetrack from	Cokeley Unit 1H AWP Proj: 21947' at 3183.00 MD

WELLPATH DATA (241 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
19275.00	90.550	340.410	6203.80	13966.18	13413.97	-3936.82	1627819.04	14287687.48	39°20'43.3258"N	81°02'40.4145"W	13979.74	343.644	0.38	0.19	0.33	
19369.00	90.280	340.160	6203.12	14060.17	13502.46	-3968.53	1627787.34	14287775.93	39°20'44.2002"N	81°02'40.8187"W	14073.58	343.621	0.39	-0.29	-0.27	
19464.00	90.280	340.570	6202.65	14155.16	13591.93	-4000.45	1627755.44	14287865.37	39°20'45.0844"N	81°02'41.2256"W	14168.42	343.599	0.43	0.00	0.43	
19558.00	90.490	340.500	6202.02	14249.15	13680.56	-4031.78	1627724.12	14287953.96	39°20'45.9602"N	81°02'41.6248"W	14262.29	343.579	0.24	0.22	-0.07	
19652.00	90.280	340.540	6201.39	14343.14	13769.17	-4063.12	1627692.79	14288042.54	39°20'46.8359"N	81°02'42.0244"W	14356.15	343.559	0.23	-0.22	0.04	
19747.00	90.830	340.700	6200.47	14438.13	13858.79	-4094.64	1627661.28	14288132.12	39°20'47.7214"N	81°02'42.4262"W	14451.02	343.540	0.60	0.58	0.17	
19835.00	90.650	340.270	6198.04	14626.11	14035.97	-4157.44	1627598.51	14288309.23	39°20'49.4723"N	81°02'43.2267"W	14638.74	343.501	0.25	-0.10	-0.23	
20030.00	90.370	340.390	6197.19	14721.09	14125.42	-4189.42	1627566.55	14288398.65	39°20'50.3563"N	81°02'43.6343"W	14733.59	343.480	0.32	-0.29	0.13	
20124.00	90.430	340.610	6196.54	14815.09	14214.03	-4220.79	1627535.18	14288487.22	39°20'51.2319"N	81°02'44.0342"W	14827.46	343.461	0.24	0.06	0.23	
20218.00	90.150	340.790	6196.06	14909.08	14302.74	-4251.86	1627504.13	14288575.90	39°20'52.1086"N	81°02'44.4303"W	14921.36	343.444	0.35	-0.30	0.19	
20313.00	90.520	341.410	6195.51	15004.08	14392.62	-4282.63	1627473.37	14288665.74	39°20'52.9967"N	81°02'44.8225"W	15016.27	343.429	0.76	0.39	0.65	
20407.00	91.110	342.540	6194.17	15098.06	14482.00	-4311.72	1627444.30	14288755.08	39°20'53.8799"N	81°02'45.1933"W	15110.23	343.420	1.36	0.63	1.20	
20501.00	90.310	341.540	6193.01	15192.04	14571.41	-4340.70	1627415.33	14288844.45	39°20'54.7635"N	81°02'45.5628"W	15204.20	343.412	1.36	-0.85	-1.06	
20596.00	90.310	341.560	6192.49	15287.03	14661.52	-4370.76	1627385.27	14288934.53	39°20'55.6540"N	81°02'45.9461"W	15299.14	343.400	0.02	0.00	0.02	
20690.00	90.740	341.920	6191.63	15381.02	14750.79	-4400.22	1627355.83	14289023.76	39°20'56.5361"N	81°02'46.3216"W	15393.10	343.390	0.60	0.46	0.38	
20785.00	90.800	341.900	6190.35	15476.00	14841.08	-4429.71	1627326.35	14289114.02	39°20'57.4284"N	81°02'46.6976"W	15488.06	343.381	0.07	0.06	-0.02	
20880.00	90.370	341.470	6189.38	15570.99	14931.26	-4459.56	1627296.51	14289204.16	39°20'58.3196"N	81°02'47.0782"W	15583.01	343.371	0.64	-0.45	-0.45	
20974.00	90.950	341.400	6188.30	15664.99	15020.37	-4489.49	1627266.60	14289293.23	39°20'59.2001"N	81°02'47.4597"W	15676.95	343.359	0.62	0.62	-0.07	
21068.00	90.280	341.480	6187.29	15758.98	15109.47	-4519.41	1627236.69	14289382.30	39°21'0.0806"N	81°02'47.8411"W	15770.90	343.348	0.72	-0.71	0.09	
21163.00	90.740	341.900	6186.45	15853.97	15199.66	-4549.25	1627206.86	14289472.45	39°21'0.9718"N	81°02'48.2216"W	15865.85	343.338	0.66	0.48	0.44	
21257.00	90.400	341.460	6185.51	15947.96	15288.89	-4578.79	1627177.33	14289561.64	39°21'1.8536"N	81°02'48.5983"W	15959.81	343.328	0.59	-0.36	-0.47	
21351.00	90.710	342.060	6184.60	16041.95	15378.16	-4608.22	1627147.92	14289650.88	39°21'2.7358"N	81°02'48.9734"W	16053.77	343.319	0.72	0.33	0.64	
21446.00	90.770	341.080	6183.37	16136.94	15468.28	-4638.25	1627117.90	14289740.96	39°21'3.6263"N	81°02'49.3563"W	16148.72	343.308	1.03	0.06	-1.03	
21540.00	90.340	341.240	6182.46	16230.93	15557.24	-4668.60	1627087.56	14289829.89	39°21'4.5054"N	81°02'49.7433"W	16242.64	343.296	0.49	-0.46	0.17	
21634.00	90.430	341.290	6181.83	16324.93	15646.26	-4698.79	1627057.38	14289918.87	39°21'5.3850"N	81°02'50.1282"W	16336.58	343.284	0.11	0.10	0.05	
21728.00	90.250	341.140	6181.27	16418.93	15735.25	-4729.06	1627027.12	14290007.82	39°21'6.2644"N	81°02'50.5141"W	16430.52	343.272	0.25	-0.19	-0.16	
21823.00	90.830	341.800	6180.38	16513.92	15825.32	-4759.25	1626996.94	14290097.86	39°21'7.1545"N	81°02'50.8990"W	16525.47	343.262	0.92	0.61	0.69	
21917.00	90.220	341.410	6179.52	16607.91	15914.51	-4788.91	1626967.29	14290187.01	39°21'8.0359"N	81°02'51.2772"W	16619.43	343.253	0.77	-0.65	-0.41	
22011.00	90.490	341.460	6178.93	16701.91	16003.62	-4818.84	1626937.38	14290276.09	39°21'8.9164"N	81°02'51.6567"W	16713.38	343.242	0.29	0.29	0.05	
22082.00	90.220	341.360	6178.49	16772.91	16070.91	-4841.47	1626914.75	14290343.35	39°21'9.5814"N	81°02'51.9473"W	16784.34	343.235	0.41	-0.38	-0.14	



Actual Wellpath Report

Cokeley Unit 1H ST01 AWP Proj: 22107'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Cokeley Unit 1H ST01
Field	Ritchie	API	47-085-10511-0000
Facility	Pinewood Pad	Wellbore	Cokeley Unit 1H ST01 AWB
Slot	Slot D	Sidetrack from	Cokeley Unit 1H AWP Proj: 21947' at 3183.00 MD

WELLPATH DATA (241 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
22107.00‡	90.220	341.360	6178.40	16797.91	16094.60	-4849.46	1626906.77	14290367.03	39°21'9.8155"N	81°02'52.0492"W	16809.33	343.232	0.00	0.00	0.00	Projected MD at TD: 22107'

HOLE & CASING SECTIONS - Ref Wellbore: Cokeley Unit 1H ST01 AWB Ref Wellpath: Cokeley Unit 1H ST01 AWP Proj: 22107'

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
20in Conductor	30.00	130.00	100.00	30.00	130.00	0.00	0.00	-0.28	0.24
17.5in Open Hole	130.00	995.00	865.00	130.00	994.99	-0.28	0.24	-4.04	2.58
13.375in Casing Surface	30.00	975.00	945.00	30.00	974.99	0.00	0.00	-3.95	2.52
12.375in Open Hole	995.00	3136.00	2141.00	994.99	3086.18	-4.04	2.58	171.99	379.89
9.625in Casing Intermediate	30.00	3106.00	3076.00	30.00	3056.95	0.00	0.00	169.54	373.57
8.75in Open Hole	3136.00	3183.00	47.00	3086.18	3132.02	171.99	379.89	175.92	389.49
8.75in Open Hole	3183.00	6182.00	2999.00	3132.02	5812.00	175.92	389.49	1191.04	271.10
8.5in Open Hole	6182.00	22107.00	15925.00	5812.00	6178.40	1191.04	271.10	16094.60	-4849.46
5.5in Casing Production	30.00	22087.00	22057.00	30.00	6178.48	0.00	0.00	16075.65	-4843.07



Actual Wellpath Report

Cokeley Unit 1H ST01 AWP Proj: 22107'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Cokeley Unit 1H ST01
Field	Ritchie	API	47-085-10511-0000
Facility	Pinewood Pad	Wellbore	Cokeley Unit 1H ST01 AWB
Slot	Slot D	Sidetrack from	Cokeley Unit 1H AWP Proj: 21947' at 3183.00 MD

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Cokeley Unit 1H POE Rev-3	6220.00	1614.66	114.61	1631868.84	14275892.91	39°18'46.7221"N	81°01'48.7953"W	point
Cokeley Unit 1H BHL Rev-4	6267.00	16092.43	-4833.94	1626922.28	14290364.86	39°21'9.7941"N	81°02'51.8516"W	point
Cokeley Unit 1H LP Rev-3	6267.00	1873.34	26.19	1631780.46	14276151.48	39°18'49.2784"N	81°01'49.9213"W	point
Cokeley Unit 1H ST01 50' L/R Hard Line	6500.00	8853.54	-2359.67	1629395.56	14283128.89	39°19'58.2594"N	81°02'20.3145"W	rectangle
2D Rectangle 15300.1 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Cokeley Unit 1H ST01 AWB Ref Wellpath: Cokeley Unit 1H ST01 AWP Proj: 22107'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	877.00	Gyrodata 2015 - GC+WIR+DPIPE	01 Gyrodata MS Gyro <17-1/2"> (100'-877')	Cokeley Unit 1H AWB	4/28/2024
877.00	3063.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-3/8"> (877')(1038'-3063')	Cokeley Unit 1H AWB	4/28/2024
3063.00	3183.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (3063')(3183'-5638')	Cokeley Unit 1H AWB	4/28/2024
3183.00	6107.00	BH NaviTrak (2019) (Axial Corr+HRGM)	05 APS EM <8-3/4"> (3183')(3275'-6107')	Cokeley Unit 1H ST01 AWB	5/21/2024
6107.00	22107.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	06 BH AT Curve <8-1/2"> (6107')(6164'-22082')	Cokeley Unit 1H ST01 AWB	5/21/2024



Actual Wellpath Report

Cokeley Unit 1H ST01 AWP Proj: 22107'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Cokeley Unit 1H ST01
Field	Ritchie	API	47-085-10511-0000
Facility	Pinewood Pad	Wellbore	Cokeley Unit 1H ST01 AWB
Slot	Slot D	Sidetrack from	Cokeley Unit 1H AWP Proj: 21947' at 3183.00 MD

COMMENTS

Wellpath general comments

API: 47-085-10511-0000

BH Job #: 112220036

Rig: H&P 519

Duration: 5/23/2024-5/28/2024

Gyrodata MS Gyro <17-1/2"> (100'-877')

APS EM <12-3/8"> (877')(1038'-3063')

APS EM [OH] <8-3/4"> (3063')(3183')

APS EM [ST01] <8-3/4"> (3183')(3275'-6107')

BH AT Curve [ST01] <8-1/2"> (6107')(6164'-22082')

Sycamore: 6435' MD

Middlesex: 6571' MD

Burkett: 6768' MD

Marcellus POE: 6804' MD

Projected MD at TD: 22107'