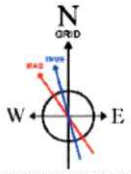
ANTERO RESOURCES CORPORATION

Location: Ritchie County, WV
Field: Ritchie
Facility: Minear Pad
Slot: Slot C
Well: Sail Unit 1H ST01
Wellbore: Sail Unit 1H ST01 PWB

Plot reference wellpath is Sail 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: 1122.5 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot C): -1097 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edsaryar on 2025-08-06; Database: WA_MPL_EASTERNUS_Defn

Location Information

Facility Name			Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Minear Pad			1652230.170	14234535.980	39°11'57.7821"N	80°57'29.8821"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Slot C	-29.42	-5.87	1652224.300	14234506.570	39°11'57.4913"N	80°57'29.9568"W
Comment	Sail Unit 1H					
H&P 317 (RKB) to Ground level (At Slot: Slot C)				25.5ft		
Mean Sea Level to Ground level (At Slot: Slot C)				-1097ft		
H&P 317 (RKB) to Mean Sea Level				1122.5ft		



User specified (HDGM) Dip: 65.56° Field: 50914 nT
Magnetic North is 7.65 degrees West of True North (at 7/1/2025)
Grid North is 0.03 degrees East of True North
To correct azimuth from True to Grid subtract 0.03 degrees
To correct azimuth from Magnetic to Grid subtract 7.68 degrees

Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	3149.00	6.650	169.170	3135.69	-218.46	66.52	1.87	-228.30
Next Survey	3227.00	6.780	164.700	3213.16	-227.34	68.58	0.69	-237.38
Sidetrack Point	3298.00	4.973	158.872	3283.78	-234.25	70.80	2.68	-244.64
Sidetrack / Drop	3467.72	1.000	250.000	3453.28	-241.62	72.06	3.00	-252.04
KOP 1	3767.72	1.000	250.000	3753.24	-243.41	67.14	0.00	-252.20
End of 3D Arc	4297.01	15.980	332.452	4275.61	-179.99	28.86	3.00	-180.00
Curve KOP	5907.50	15.980	332.452	5823.86	213.12	-176.20	0.00	257.49
POE	6657.40	75.762	341.293	6323.00	693.59	-357.36	8.00	770.51
Landing Pt.	6835.37	90.000	341.293	6345.00	860.43	-413.86	8.00	946.65
IP	10035.34	90.000	341.293	6345.00	3891.35	-1440.18	0.00	4146.50
Turn	10086.16	90.000	341.801	6345.00	3939.55	-1456.26	1.00	4197.31
BHL	21317.62	90.000	341.801	6345.00	14609.20	-4964.01	0.00	15428.77

Well Data

Slot	Well	Wellbore	Wellpath
Slot C	Sail Unit 1H	Sail Unit 1H AWB	Sail Unit 1H AWP Proj: 10468'
Slot C	Sail Unit 1H ST01	Sail Unit 1H ST01 AWB	Sail Unit 1H ST01 AWP Proj: 21330'
Slot C	Sail Unit 1H ST01	Sail Unit 1H ST01 PWB	Sail Unit 1H ST01 PWP Rev-C.0

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API: 47-085-10554-0000
BH Job #: 112660886
Rig: H&P 317
Duration: 7/4/2025-7/9/2025

Gyrodata MS Gyro <17-1/2"> (100'-800') : 0.32° Inc, 100.00ft MD, 100.00ft TVD, 0.00ft VS
Gyrodata MS Gyro <12-1/4"> (800')(900'-926') : 0.22° Inc, 900.00ft MD, 900.00ft TVD, -0.74ft VS
APS EM <12-1/4"> (926')(960'-3149') : 0.37° Inc, 960.00ft MD, 960.00ft TVD, -0.91ft VS
APS EM [OH] <8-3/4"> (3149')(3227'-5559') : 6.78° Inc, 3227.00ft MD, 3213.16ft TVD, -237.38ft VS
APS EM [ST01] <8-3/4"> (3227')(3291'-5751') : 6.69° Inc, 3291.00ft MD, 3276.72ft TVD, -244.87ft VS
BH Lucida [OH] <8-1/2"> (5559')(5619'-10350') : 0.69° Inc, 5619.00ft MD, 5604.17ft TVD, -254.43ft VS
BH Lucida [ST01] <8-1/2"> (5751')(5802'-21305') : 12.71° Inc, 5802.00ft MD, 5723.40ft TVD, 219.44ft VS
Marcellus POE: 6636' MD : 73.67° Inc, 6636.00ft MD, 6316.55ft TVD, 743.46ft VS
Projected MD at TD [OH]: 10468' : 90.28° Inc, 10468.00ft MD, 6322.38ft TVD, 4161.58ft VS
Projected MD at TD: 21330' : 89.60° Inc, 21330.00ft MD, 6376.16ft TVD, 15434.02ft VS

Projected MD at TD [OH]: 10468' : 6322.38ft TVD, 3934.69ft N, 1356.67ft W
Marcellus POE: 6636' MD : 6316.55ft TVD, 666.36ft N, 353.59ft W
BH Lucida [ST01] <8-1/2"> (5751')(5802'-21305') : 5723.40ft TVD, 183.24ft N, 145.24ft W
BH Lucida [OH] <8-1/2"> (5559')(5619'-10350') : 5604.17ft TVD, 242.30ft S, 77.64ft E
APS EM [ST01] <8-3/4"> (3227')(3291'-5751') : 3276.72ft TVD, 234.42ft S, 71.01ft E
APS EM [OH] <8-3/4"> (3149')(3227'-5559') : 3213.16ft TVD, 227.34ft S, 68.58ft E
APS EM <12-1/4"> (926')(960'-3149') : 960.00ft TVD, 1.14ft S, 0.63ft W
Gyrodata MS Gyro <12-1/4"> (800')(900'-926') : 900.00ft TVD, 0.90ft S, 0.35ft W
Gyrodata MS Gyro <17-1/2"> (100'-800') : 100.00ft TVD, 0.06ft N, 0.20ft E
POE : 29°
POE : 84°
91°
Slot C
BHL : 201°
Projected MD at TD: 21330' : 6376.16ft TVD, 14611.53ft N, 4973.74ft W
Sail Unit 1H 50' LR Hard Line R-3

Easting (ft)
Scale 1 inch = 3000
-7500 -6000 -4500 -3000 -1500 0 1500 3000
15000 13500 12000 10500 9000 7500 6000 4500 3000 1500 0 -1500 -3000
Northing (ft)

True Vertical Depth (ft)
Scale 1 inch = 2000
-1000 0 1000 2000 3000 4000 5000 6000 7000

Vertical Section (ft)
-1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 11000 12000 13000 14000 15000 16000 17000
Scale 1 inch = 2000
Azimuth 341.80° with reference 0.00 N, 0.00 E

Actual Wellpath Report

Sail Unit 1H ST01 AWP Proj: 21330'

REFERENCE WELLPATH IDENTIFICATION			
Operator	**ANTERO RESOURCES CORPORATION**	Well	**Sail Unit 1H ST01**
Field	**Ritchie**	API	**47-085-10554-0000**
Facility	**Minear Pad**	Wellbore	**Sail Unit 1H ST01 AWB**
Slot	**Slot C**	Sidetrack from	**Sail Unit 1H AWP Proj: 10468'** at **3227.00 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	**8/6/2025** at **11:06:49 AM**
Convergence at slot	**0.03° 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	-29.42	-5.87	**1652224.30**	**14234506.57**	39°11'57.4913"N	80°57'29.9568"W
Facility Reference Pt			**1652230.17**	**14234535.98**	39°11'57.7821"N	80°57'29.8821"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	**1122.50ft**
Horizontal Reference Pt	**Slot**	H&P 317 (RKB) to Mean Sea Level	**1122.50ft**
Vertical Reference Pt	**H&P 317 (RKB)**	H&P 317 (RKB) to Ground Level at Slot (Slot C)	**25.50ft**
MD Reference Pt	**H&P 317 (RKB)**	Section Origin	**N 0.00, E 0.00 ft**
Field Vertical Reference	**Mean Sea Level**	Section Azimuth	**341.80°**

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Actual Wellpath Report

Sail Unit 1H ST01 AWP Proj: 21330'

REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Sail Unit 1H ST01
Field	Ritchie	API	47-085-10554-0000
Facility	Minear Pad	Wellbore	Sail Unit 1H ST01 AWB
Slot	Slot C	Sidetrack from	Sail Unit 1H AWP Proj: 10468' at 3227.00 MD

WELLPATH DATA (234 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	72.780	0.00	0.00	0.00	0.00	1652224.30	14234506.57	39°11'57.4913"N	80°57'29.9568"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	72.780	25.50	0.00	0.00	0.00	1652224.30	14234506.57	39°11'57.4913"N	80°57'29.9568"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.320	72.780	100.00	0.00	0.06	0.20	1652224.50	14234506.63	39°11'57.4919"N	80°57'29.9543"W	0.21	72.780	0.43	0.43	0.00	Gyrodata MS Gyro <17-1/2"> (100'-800')
200.00	0.140	63.370	200.00	0.01	0.20	0.57	1652224.87	14234506.77	39°11'57.4933"N	80°57'29.9495"W	0.61	70.898	0.18	-0.18	-9.41	
300.00	0.080	236.430	300.00	0.01	0.22	0.63	1652224.93	14234506.79	39°11'57.4934"N	80°57'29.9489"W	0.66	71.022	0.22	-0.06	173.06	
400.00	0.070	206.410	400.00	-0.05	0.12	0.54	1652224.84	14234506.69	39°11'57.4925"N	80°57'29.9500"W	0.55	77.291	0.04	-0.01	-30.02	
500.00	0.130	217.650	500.00	-0.16	-0.02	0.44	1652224.74	14234506.55	39°11'57.4911"N	80°57'29.9512"W	0.44	92.923	0.06	0.06	11.24	
600.00	0.120	229.500	600.00	-0.26	-0.18	0.29	1652224.59	14234506.39	39°11'57.4895"N	80°57'29.9531"W	0.35	121.463	0.03	-0.01	11.85	
700.00	0.170	203.730	700.00	-0.41	-0.38	0.16	1652224.46	14234506.19	39°11'57.4875"N	80°57'29.9549"W	0.41	157.953	0.08	0.05	-25.77	
800.00	0.230	235.610	800.00	-0.58	-0.63	-0.07	1652224.23	14234505.94	39°11'57.4851"N	80°57'29.9577"W	0.64	186.278	0.12	0.06	31.88	
900.00	0.220	217.880	900.00	-0.74	-0.90	-0.35	1652223.95	14234505.67	39°11'57.4824"N	80°57'29.9613"W	0.97	201.462	0.07	-0.01	-17.73	Gyrodata MS Gyro <12-1/4"> (800')(900'-926')
926.00	0.260	221.280	926.00	-0.80	-0.98	-0.42	1652223.88	14234505.59	39°11'57.4816"N	80°57'29.9622"W	1.07	203.290	0.16	0.15	13.08	
960.00	0.370	209.210	960.00	-0.91	-1.14	-0.53	1652223.77	14234505.43	39°11'57.4801"N	80°57'29.9635"W	1.25	204.898	0.38	0.32	-35.50	APS EM <12-1/4"> (926')(960'-3149')
1050.00	0.270	216.730	1049.99	-1.23	-1.56	-0.80	1652223.50	14234505.01	39°11'57.4759"N	80°57'29.9670"W	1.75	207.037	0.12	-0.11	8.36	
1145.00	1.520	184.980	1144.98	-2.52	-2.99	-1.04	1652223.26	14234503.58	39°11'57.4617"N	80°57'29.9701"W	3.17	199.139	1.37	1.32	-33.42	
1239.00	3.430	169.890	1238.89	-6.45	-7.00	-0.65	1652223.65	14234499.57	39°11'57.4221"N	80°57'29.9652"W	7.04	185.331	2.13	2.03	-16.05	
1334.00	5.050	164.880	1333.63	-13.44	-13.84	0.94	1652225.24	14234492.74	39°11'57.3545"N	80°57'29.9450"W	13.87	176.131	1.75	1.71	-5.27	
1429.00	6.830	168.120	1428.11	-23.23	-23.40	3.19	1652227.49	14234483.17	39°11'57.2600"N	80°57'29.9165"W	23.62	172.240	1.91	1.87	3.41	
1523.00	7.400	165.590	1521.39	-34.83	-34.74	5.85	1652230.14	14234471.85	39°11'57.1480"N	80°57'29.8828"W	35.23	170.446	0.69	0.61	-2.69	
1618.00	7.340	164.520	1615.60	-46.99	-46.51	8.99	1652233.29	14234460.08	39°11'57.0316"N	80°57'29.8429"W	47.37	169.062	0.16	-0.06	-1.13	
1712.00	7.000	162.260	1708.87	-58.72	-57.75	12.34	1652236.63	14234448.84	39°11'56.9204"N	80°57'29.8005"W	59.06	167.942	0.47	-0.36	-2.40	
1807.00	6.970	162.090	1803.16	-70.27	-68.75	15.87	1652240.17	14234437.85	39°11'56.8117"N	80°57'29.7556"W	70.56	166.999	0.04	-0.03	-0.18	
1901.00	6.680	160.930	1896.50	-81.44	-79.35	19.41	1652243.71	14234427.26	39°11'56.7070"N	80°57'29.7107"W	81.69	166.252	0.34	-0.31	-1.23	
1996.00	6.880	160.240	1990.83	-92.65	-89.92	23.14	1652247.43	14234416.68	39°11'56.6024"N	80°57'29.6634"W	92.85	165.568	0.23	0.21	-0.73	
2091.00	6.670	156.880	2085.17	-103.84	-100.35	27.23	1652251.52	14234406.26	39°11'56.4993"N	80°57'29.6115"W	103.98	164.817	0.47	-0.22	-3.54	
2185.00	6.920	159.730	2178.51	-114.94	-110.69	31.34	1652255.63	14234395.93	39°11'56.3972"N	80°57'29.5594"W	115.04	164.192	0.45	0.27	3.03	
2280.00	6.770	159.510	2272.83	-126.25	-121.30	35.28	1652259.57	14234385.32	39°11'56.2923"N	80°57'29.5094"W	126.33	163.783	0.16	-0.16	-0.23	
2375.00	6.690	156.800	2367.18	-137.36	-131.63	39.42	1652263.70	14234374.99	39°11'56.1901"N	80°57'29.4569"W	137.41	163.328	0.34	-0.08	-2.85	
2470.00	6.590	155.670	2461.54	-148.29	-141.68	43.85	1652268.13	14234364.94	39°11'56.0907"N	80°57'29.4007"W	148.31	162.804	0.17	-0.11	-1.19	
2564.00	6.610	152.190	2554.92	-158.99	-151.38	48.59	1652272.87	14234355.25	39°11'55.9948"N	80°57'29.3405"W	158.99	162.204	0.43	0.02	-3.70	

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Actual Wellpath Report

Sail Unit 1H ST01 AWP Proj: 21330'

REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Sail Unit 1H ST01
Field	Ritchie	API	47-085-10554-0000
Facility	Minear Pad	Wellbore	Sail Unit 1H ST01 AWB
Slot	Slot C	Sidetrack from	Sail Unit 1H AWP Proj: 10468' at 3227.00 MD

WELLPATH DATA (234 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
2659.00	6.610	153.230	2649.29	-169.79	-161.10	53.61	1652277.88	14234345.53	39°11'55.8988"N	80°57'29.2769"W	169.79	161.595	0.13	0.00	1.09	
2753.00	6.870	156.600	2742.64	-180.73	-171.09	58.28	1652282.55	14234335.55	39°11'55.8000"N	80°57'29.2176"W	180.74	161.190	0.50	0.28	3.59	
2848.00	7.220	172.200	2836.93	-192.27	-182.22	61.34	1652285.62	14234324.42	39°11'55.6900"N	80°57'29.1787"W	192.27	161.395	2.04	0.37	16.42	
2943.00	7.090	173.350	2931.19	-203.88	-193.96	62.83	1652287.11	14234312.69	39°11'55.5740"N	80°57'29.1599"W	203.88	162.051	0.20	-0.14	1.21	
3037.00	6.960	170.440	3024.49	-215.20	-205.34	64.45	1652288.72	14234301.31	39°11'55.4615"N	80°57'29.1394"W	215.22	162.574	0.40	-0.14	-3.10	
3132.00	6.710	171.860	3118.81	-226.35	-216.51	66.19	1652290.47	14234290.15	39°11'55.3511"N	80°57'29.1173"W	226.40	163.000	0.32	-0.26	1.49	
3149.00	6.650	169.170	3135.69	-228.30	-218.46	66.52	1652290.79	14234288.20	39°11'55.3318"N	80°57'29.1132"W	228.36	163.065	1.87	-0.35	-15.82	
3227.00	6.780	164.700	3213.16	-237.38	-227.34	68.58	1652292.85	14234279.33	39°11'55.2441"N	80°57'29.0871"W	237.45	163.213	0.69	0.17	-5.73	APS EM [OH] <8-3/4"> (3149')(3227'-5559')
3291.00	6.690	157.480	3276.72	-244.87	-234.42	71.01	1652295.28	14234272.24	39°11'55.1740"N	80°57'29.0563"W	244.94	163.149	1.33	-0.14	-11.28	APS EM [ST01] <8-3/4"> (3227')(3291'-5751')
3385.00	8.040	198.430	3370.00	-255.62	-245.73	71.02	1652295.30	14234260.94	39°11'55.0623"N	80°57'29.0561"W	255.78	163.879	5.63	1.44	43.56	
3480.00	8.270	206.590	3464.05	-265.80	-258.14	65.87	1652290.14	14234248.54	39°11'54.9396"N	80°57'29.1217"W	266.41	165.686	1.24	0.24	8.59	
3575.00	5.290	240.730	3558.41	-271.49	-266.39	58.98	1652283.26	14234240.28	39°11'54.8580"N	80°57'29.2092"W	272.85	167.515	5.15	-3.14	35.94	
3669.00	4.940	288.720	3652.07	-269.89	-267.21	51.37	1652275.65	14234239.46	39°11'54.8500"N	80°57'29.3059"W	272.11	169.119	4.43	-0.37	51.05	
3764.00	7.860	324.790	3746.51	-261.22	-260.59	43.74	1652268.03	14234246.08	39°11'54.9155"N	80°57'29.4027"W	264.24	170.471	5.09	3.07	37.97	
3859.00	9.000	328.080	3840.48	-247.78	-248.98	36.07	1652260.35	14234257.69	39°11'55.0303"N	80°57'29.5002"W	251.57	171.757	1.30	1.20	3.46	
3953.00	7.810	340.820	3933.48	-234.25	-236.70	30.08	1652254.37	14234269.96	39°11'55.1517"N	80°57'29.5761"W	238.60	172.757	2.34	-1.27	13.55	
4048.00	7.640	342.380	4027.61	-221.49	-224.59	26.05	1652250.34	14234282.07	39°11'55.2714"N	80°57'29.6273"W	226.09	173.384	0.28	-0.18	1.64	
4143.00	9.440	341.600	4121.56	-207.38	-211.17	21.68	1652245.97	14234295.48	39°11'55.4040"N	80°57'29.6827"W	212.28	174.139	1.90	1.89	-0.82	
4237.00	11.990	343.690	4213.91	-189.91	-194.49	16.50	1652240.80	14234312.16	39°11'55.5690"N	80°57'29.7484"W	195.18	175.150	2.74	2.71	2.22	
4332.00	14.550	341.920	4306.37	-168.11	-173.67	10.03	1652234.32	14234332.97	39°11'55.7748"N	80°57'29.8305"W	173.96	176.696	2.73	2.69	-1.86	
4427.00	15.190	337.990	4398.19	-143.76	-150.78	1.66	1652225.96	14234355.85	39°11'56.0010"N	80°57'29.9367"W	150.79	179.370	1.26	0.67	-4.14	
4521.00	16.750	337.260	4488.56	-117.97	-126.87	-8.19	1652216.11	14234379.75	39°11'56.2374"N	80°57'30.0617"W	127.14	183.695	1.67	1.66	-0.78	
4616.00	16.490	333.770	4579.59	-90.97	-102.15	-19.44	1652204.86	14234404.46	39°11'56.4818"N	80°57'30.2044"W	103.99	190.777	1.09	-0.27	-3.67	
4710.00	15.370	329.260	4669.98	-65.60	-79.48	-31.71	1652192.60	14234427.13	39°11'56.7059"N	80°57'30.3601"W	85.57	201.751	1.78	-1.19	-4.80	
4805.00	13.290	334.290	4762.03	-42.48	-58.81	-42.88	1652181.43	14234447.78	39°11'56.9102"N	80°57'30.5019"W	72.79	216.097	2.55	-2.19	5.29	
4899.00	12.970	341.530	4853.57	-21.22	-39.07	-50.91	1652173.41	14234467.51	39°11'57.1054"N	80°57'30.6038"W	64.18	232.496	1.78	-0.34	7.70	
4994.00	14.590	342.420	4945.84	1.41	-17.55	-57.90	1652166.42	14234489.02	39°11'57.3181"N	80°57'30.6925"W	60.51	253.136	1.72	1.71	0.94	
5089.00	16.420	337.960	5037.38	26.78	6.30	-66.56	1652157.77	14234512.87	39°11'57.5539"N	80°57'30.8022"W	66.86	275.410	2.30	1.93	-4.69	
5183.00	16.230	335.340	5127.59	53.09	30.56	-77.02	1652147.31	14234537.11	39°11'57.7937"N	80°57'30.9350"W	82.86	291.639	0.81	-0.20	-2.79	
5278.00	17.370	339.580	5218.54	80.45	55.91	-87.51	1652136.82	14234562.46	39°11'58.0444"N	80°57'31.0681"W	103.85	302.575	1.76	1.20	4.46	

Actual Wellpath Report

Sail Unit 1H ST01 AWP Proj: 21330'

REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Sail Unit 1H ST01
Field	Ritchie	API	47-085-10554-0000
Facility	Minear Pad	Wellbore	Sail Unit 1H ST01 AWB
Slot	Slot C	Sidetrack from	Sail Unit 1H AWP Proj: 10468' at 3227.00 MD

WELLPATH DATA (234 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
5373.00	17.070	337.600	5309.28	108.52	82.09	-97.77	1652126.57	14234588.63	39°11'58.3032"N	80°57'31.1983"W	127.67	310.018	0.69	-0.32	-2.08	
5467.00	15.450	332.060	5399.52	134.63	105.91	-108.90	1652115.45	14234612.44	39°11'58.5386"N	80°57'31.3395"W	151.91	314.204	2.38	-1.72	-5.89	
5562.00	14.920	336.090	5491.21	159.27	128.27	-119.78	1652104.56	14234634.79	39°11'58.7597"N	80°57'31.4776"W	175.51	316.960	1.24	-0.56	4.24	
5657.00	15.670	336.870	5582.84	184.22	151.25	-129.78	1652094.57	14234657.76	39°11'58.9869"N	80°57'31.6045"W	199.30	319.369	0.82	0.79	0.82	
5751.00	13.760	333.110	5673.76	207.92	172.90	-139.82	1652084.53	14234679.40	39°11'59.2009"N	80°57'31.7319"W	222.36	321.037	2.27	-2.03	-4.00	
5802.00	12.710	331.600	5723.40	219.44	183.24	-145.24	1652079.12	14234689.74	39°11'59.3031"N	80°57'31.8006"W	233.82	321.600	2.17	-2.06	-2.96	BH Lucida [ST01] <8-1/2"> (5751')(5802'-21305')
5897.00	17.590	331.720	5815.07	243.87	205.09	-157.02	1652067.35	14234711.58	39°11'59.5191"N	80°57'31.9501"W	258.30	322.563	5.14	5.14	0.13	
5992.00	24.110	336.110	5903.81	277.35	235.51	-171.69	1652052.68	14234741.98	39°11'59.8198"N	80°57'32.1363"W	291.45	323.907	7.05	6.86	4.62	
6086.00	30.550	336.790	5987.27	320.30	275.06	-188.90	1652035.48	14234781.52	39°12'0.2108"N	80°57'32.3547"W	333.68	325.520	6.86	6.85	0.72	
6120.00†	33.288	336.754	6016.13	338.21	291.58	-195.99	1652028.39	14234798.03	39°12'0.3741"N	80°57'32.4447"W	351.33	326.092	8.05	8.05	-0.11	Sycamore: 6120' MD
6181.00	38.200	336.700	6065.62	373.69	324.30	-210.06	1652014.32	14234830.74	39°12'0.6976"N	80°57'32.6233"W	386.39	327.067	8.05	8.05	-0.09	
6275.00	45.270	336.140	6135.73	435.95	381.61	-235.10	1651989.29	14234888.02	39°12'1.2641"N	80°57'32.9409"W	448.21	328.364	7.53	7.52	-0.60	
6313.00†	48.490	336.226	6161.70	463.55	406.98	-246.30	1651978.10	14234913.39	39°12'1.5150"N	80°57'33.0830"W	475.70	328.818	8.48	8.47	0.23	Middlesex: 6313' MD
6370.00	53.320	336.340	6197.63	507.57	447.47	-264.09	1651960.32	14234953.86	39°12'1.9152"N	80°57'33.3087"W	519.59	329.452	8.48	8.47	0.20	
6465.00	60.860	337.570	6249.21	586.98	520.82	-295.25	1651929.17	14235027.18	39°12'2.6404"N	80°57'33.7042"W	598.68	330.451	8.01	7.94	1.29	
6502.00†	63.233	337.769	6266.55	619.58	551.05	-307.67	1651916.76	14235057.40	39°12'2.9392"N	80°57'33.8617"W	631.12	330.824	6.43	6.41	0.54	Burkett: 6502' MD
6559.00	66.890	338.060	6290.58	671.13	598.93	-327.09	1651897.34	14235105.26	39°12'3.4126"N	80°57'34.1082"W	682.43	331.360	6.43	6.42	0.51	
6570.00†	67.859	338.201	6294.81	681.27	608.36	-330.88	1651893.56	14235114.68	39°12'3.5057"N	80°57'34.1562"W	692.51	331.459	8.89	8.81	1.28	Tully: 6570' MD
6636.00†	73.674	339.009	6316.55	743.46	666.36	-353.59	1651870.85	14235172.66	39°12'4.0791"N	80°57'34.4444"W	754.36	332.048	8.89	8.81	1.22	Marcellus POE: 6636' MD
6654.00	75.260	339.220	6321.37	760.78	682.56	-359.77	1651864.67	14235188.85	39°12'4.2393"N	80°57'34.5229"W	771.57	332.207	8.89	8.81	1.17	
6749.00	85.070	341.090	6337.58	854.23	770.50	-391.49	1651832.97	14235276.76	39°12'5.1086"N	80°57'34.9252"W	864.25	333.065	10.51	10.33	1.97	
6843.00	90.430	341.220	6341.26	948.12	859.36	-421.82	1651802.65	14235365.58	39°12'5.9870"N	80°57'35.3100"W	957.30	333.856	5.70	5.70	0.14	
6938.00	90.430	341.670	6340.55	1043.11	949.42	-452.05	1651772.44	14235455.61	39°12'6.8773"N	80°57'35.6935"W	1051.54	334.540	0.47	0.00	0.47	
7032.00	90.680	341.270	6339.64	1137.10	1038.54	-481.92	1651742.58	14235544.69	39°12'7.7583"N	80°57'36.0724"W	1144.91	335.107	0.50	0.27	-0.43	
7127.00	90.740	341.670	6338.46	1232.10	1128.61	-512.11	1651712.40	14235634.73	39°12'8.6486"N	80°57'36.4554"W	1239.36	335.594	0.43	0.06	0.42	
7222.00	90.650	341.460	6337.31	1327.09	1218.73	-542.15	1651682.37	14235724.81	39°12'9.5395"N	80°57'36.8365"W	1333.87	336.018	0.24	-0.09	-0.22	
7316.00	91.230	342.230	6335.77	1421.07	1308.03	-571.43	1651653.10	14235814.08	39°12'10.4223"N	80°57'37.2080"W	1427.41	336.401	1.03	0.62	0.82	
7411.00	91.080	340.430	6333.85	1516.05	1398.01	-601.83	1651622.71	14235904.02	39°12'11.3118"N	80°57'37.5937"W	1522.05	336.708	1.90	-0.16	-1.89	
7506.00	91.020	340.710	6332.11	1611.01	1487.59	-633.43	1651591.12	14235993.56	39°12'12.1973"N	80°57'37.9946"W	1616.83	336.935	0.30	-0.06	0.29	
7600.00	91.020	340.520	6330.44	1704.97	1576.24	-664.63	1651559.94	14236082.18	39°12'13.0737"N	80°57'38.3904"W	1710.64	337.137	0.20	0.00	-0.20	

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Actual Wellpath Report

Sail Unit 1H ST01 AWP Proj: 21330'

REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Sail Unit 1H ST01
Field	Ritchie	API	47-085-10554-0000
Facility	Minear Pad	Wellbore	Sail Unit 1H ST01 AWB
Slot	Slot C	Sidetrack from	Sail Unit 1H AWP Proj: 10468' at 3227.00 MD

WELLPATH DATA (234 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
7695.00	91.080	340.760	6328.70	1799.94	1665.86	-696.11	1651528.47	14236171.76	39°12'13.9595"N	80°57'38.7899"W	1805.45	337.321	0.26	0.06	0.25	
7789.00	90.490	340.670	6327.41	1893.91	1754.57	-727.16	1651497.44	14236260.44	39°12'14.8365"N	80°57'39.1837"W	1899.29	337.489	0.63	-0.63	-0.10	
7884.00	90.550	340.640	6326.55	1988.89	1844.21	-758.62	1651465.98	14236350.04	39°12'15.7226"N	80°57'39.5829"W	1994.14	337.640	0.07	0.06	-0.03	
7979.00	90.490	340.570	6325.69	2083.87	1933.81	-790.17	1651434.45	14236439.61	39°12'16.6083"N	80°57'39.9832"W	2089.02	337.775	0.10	-0.06	-0.07	
8073.00	90.520	340.590	6324.86	2177.84	2022.46	-821.42	1651403.21	14236528.22	39°12'17.4847"N	80°57'40.3797"W	2182.91	337.895	0.04	0.03	0.02	
8168.00	90.430	340.590	6324.07	2272.82	2112.06	-852.99	1651371.65	14236617.78	39°12'18.3704"N	80°57'40.7803"W	2277.80	338.008	0.09	-0.09	0.00	
8262.00	90.340	340.910	6323.44	2366.80	2200.80	-883.98	1651340.67	14236706.49	39°12'19.2476"N	80°57'41.1735"W	2371.70	338.116	0.35	-0.10	0.34	
8357.00	90.430	340.660	6322.80	2461.78	2290.51	-915.25	1651309.42	14236796.16	39°12'20.1344"N	80°57'41.5702"W	2466.60	338.219	0.28	0.09	-0.26	
8451.00	90.460	340.910	6322.07	2555.76	2379.27	-946.18	1651278.50	14236884.88	39°12'21.0118"N	80°57'41.9627"W	2560.50	338.313	0.27	0.03	0.27	
8546.00	90.370	340.650	6321.38	2650.75	2468.97	-977.46	1651247.24	14236974.55	39°12'21.8986"N	80°57'42.3595"W	2655.42	338.402	0.29	-0.09	-0.27	
8640.00	90.460	340.780	6320.70	2744.73	2557.69	-1008.50	1651216.20	14237063.23	39°12'22.7756"N	80°57'42.7534"W	2749.34	338.481	0.17	0.10	0.14	
8735.00	90.430	340.610	6319.96	2839.71	2647.35	-1039.91	1651184.81	14237152.85	39°12'23.6619"N	80°57'43.1518"W	2844.27	338.555	0.18	-0.03	-0.18	
8830.00	90.370	340.800	6319.30	2934.69	2737.01	-1071.30	1651153.43	14237242.48	39°12'24.5482"N	80°57'43.5501"W	2939.20	338.624	0.21	-0.06	0.20	
8924.00	90.340	340.820	6318.72	3028.67	2825.78	-1102.19	1651122.55	14237331.22	39°12'25.4258"N	80°57'43.9422"W	3033.13	338.692	0.04	-0.03	0.02	
9018.00	90.340	340.720	6318.16	3122.65	2914.54	-1133.15	1651091.60	14237419.94	39°12'26.3031"N	80°57'44.3350"W	3127.07	338.754	0.11	0.00	-0.11	
9113.00	90.430	340.660	6317.52	3217.63	3004.19	-1164.57	1651060.20	14237509.55	39°12'27.1894"N	80°57'44.7336"W	3222.02	338.811	0.11	0.09	-0.06	
9207.00	90.400	341.780	6316.84	3311.62	3093.18	-1194.83	1651029.95	14237598.51	39°12'28.0691"N	80°57'45.1175"W	3315.93	338.880	1.19	-0.03	1.19	
9302.00	90.400	341.770	6316.18	3406.62	3183.42	-1224.54	1651000.25	14237688.71	39°12'28.9611"N	80°57'45.4945"W	3410.81	338.960	0.01	0.00	-0.01	
9397.00	89.970	341.530	6315.87	3501.62	3273.58	-1254.45	1650970.36	14237778.84	39°12'29.8524"N	80°57'45.8740"W	3505.71	339.033	0.52	-0.45	-0.25	
9492.00	89.910	341.180	6315.97	3596.62	3363.60	-1284.82	1650940.00	14237868.82	39°12'30.7422"N	80°57'46.2593"W	3600.63	339.094	0.37	-0.06	-0.37	
9586.00	90.610	343.410	6315.54	3690.61	3453.14	-1313.40	1650911.43	14237958.32	39°12'31.6273"N	80°57'46.6220"W	3694.48	339.176	2.49	0.74	2.37	
9681.00	89.940	341.720	6315.09	3785.59	3543.77	-1341.87	1650882.97	14238048.92	39°12'32.5232"N	80°57'46.9831"W	3789.31	339.261	1.91	-0.71	-1.78	
9775.00	90.060	341.650	6315.09	3879.59	3633.01	-1371.40	1650853.45	14238138.12	39°12'33.4054"N	80°57'47.3579"W	3883.23	339.319	0.15	0.13	-0.07	
9870.00	90.000	341.600	6315.04	3974.59	3723.16	-1401.35	1650823.51	14238228.24	39°12'34.2966"N	80°57'47.7379"W	3978.16	339.374	0.08	-0.06	-0.05	
9965.00	90.000	341.960	6315.04	4069.59	3813.40	-1431.05	1650793.82	14238318.44	39°12'35.1886"N	80°57'48.1148"W	4073.08	339.430	0.38	0.00	0.38	
10059.00	89.750	341.470	6315.24	4163.59	3902.65	-1460.55	1650764.34	14238407.66	39°12'36.0709"N	80°57'48.4890"W	4167.00	339.482	0.59	-0.27	-0.52	
10154.00	89.970	341.750	6315.48	4258.59	3992.80	-1490.52	1650734.38	14238497.77	39°12'36.9620"N	80°57'48.8693"W	4261.94	339.529	0.37	0.23	0.29	
10249.00	90.000	341.790	6315.50	4353.59	4083.03	-1520.24	1650704.67	14238587.96	39°12'37.8540"N	80°57'49.2464"W	4356.87	339.578	0.05	0.03	0.04	
10344.00	90.030	341.860	6315.48	4448.59	4173.29	-1549.87	1650675.05	14238678.19	39°12'38.7462"N	80°57'49.6224"W	4451.79	339.626	0.08	0.03	0.07	
10438.00	90.000	341.840	6315.45	4542.59	4262.62	-1579.15	1650645.78	14238767.47	39°12'39.6292"N	80°57'49.9939"W	4545.73	339.672	0.04	-0.03	-0.02	

Actual Wellpath Report

Sail Unit 1H ST01 AWP Proj: 21330'

REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Sail Unit 1H ST01
Field	Ritchie	API	47-085-10554-0000
Facility	Minear Pad	Wellbore	Sail Unit 1H ST01 AWB
Slot	Slot C	Sidetrack from	Sail Unit 1H AWP Proj: 10468' at 3227.00 MD

WELLPATH DATA (234 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
10533.00	90.000	341.870	6315.45	4637.59	4352.89	-1608.74	1650616.21	14238857.71	39°12'40.5216"N	80°57'50.3693"W	4640.66	339.717	0.03	0.00	0.03	
10628.00	89.970	341.730	6315.48	4732.59	4443.14	-1638.41	1650586.55	14238947.92	39°12'41.4137"N	80°57'50.7459"W	4735.60	339.759	0.15	-0.03	-0.15	
10722.00	90.030	341.890	6315.48	4826.59	4532.44	-1667.75	1650557.22	14239037.19	39°12'42.2964"N	80°57'51.1182"W	4829.54	339.798	0.18	0.06	0.17	
10817.00	90.060	341.750	6315.40	4921.59	4622.70	-1697.39	1650527.59	14239127.41	39°12'43.1886"N	80°57'51.4943"W	4924.48	339.837	0.15	0.03	-0.15	
10912.00	90.030	341.900	6315.33	5016.59	4712.96	-1727.02	1650497.97	14239217.64	39°12'44.0809"N	80°57'51.8703"W	5019.42	339.875	0.16	-0.03	0.16	
11006.00	89.940	341.630	6315.35	5110.59	4802.24	-1756.44	1650468.57	14239306.88	39°12'44.9634"N	80°57'52.2436"W	5113.37	339.910	0.30	-0.10	-0.29	
11101.00	90.090	341.710	6315.33	5205.59	4892.42	-1786.31	1650438.70	14239397.02	39°12'45.8548"N	80°57'52.6227"W	5208.33	339.942	0.18	0.16	0.08	
11196.00	90.060	341.880	6315.20	5300.59	4982.66	-1815.99	1650409.04	14239487.23	39°12'46.7469"N	80°57'52.9993"W	5303.28	339.975	0.18	-0.03	0.18	
11290.00	89.970	341.750	6315.18	5394.59	5071.97	-1845.33	1650379.71	14239576.50	39°12'47.6297"N	80°57'53.3716"W	5397.23	340.007	0.17	-0.10	-0.14	
11385.00	89.970	341.750	6315.23	5489.59	5162.19	-1875.08	1650349.97	14239666.69	39°12'48.5216"N	80°57'53.7491"W	5492.19	340.037	0.00	0.00	0.00	
11480.00	90.120	341.580	6315.15	5584.59	5252.37	-1904.96	1650320.10	14239756.83	39°12'49.4130"N	80°57'54.1283"W	5587.15	340.065	0.24	0.16	-0.18	
11574.00	90.030	341.610	6315.03	5678.59	5341.56	-1934.64	1650290.43	14239845.98	39°12'50.2946"N	80°57'54.5050"W	5681.12	340.090	0.10	-0.10	0.03	
11669.00	89.970	341.630	6315.03	5773.59	5431.71	-1964.60	1650260.49	14239936.10	39°12'51.1858"N	80°57'54.8851"W	5776.09	340.115	0.07	-0.06	0.02	
11764.00	89.750	341.900	6315.26	5868.59	5521.94	-1994.33	1650230.78	14240026.29	39°12'52.0777"N	80°57'55.2623"W	5871.05	340.142	0.37	-0.23	0.28	
11858.00	90.620	343.200	6314.96	5962.58	5611.61	-2022.51	1650202.60	14240115.93	39°12'52.9641"N	80°57'55.6200"W	5964.96	340.180	1.66	0.93	1.38	
11953.00	89.820	342.170	6314.59	6057.56	5702.31	-2050.79	1650174.34	14240206.58	39°12'53.8606"N	80°57'55.9788"W	6059.87	340.219	1.37	-0.84	-1.08	
12048.00	91.320	343.530	6313.65	6152.54	5793.07	-2078.80	1650146.34	14240297.31	39°12'54.7579"N	80°57'56.3342"W	6154.76	340.260	2.13	1.58	1.43	
12142.00	89.290	341.680	6313.15	6246.52	5882.76	-2106.90	1650118.25	14240386.97	39°12'55.6445"N	80°57'56.6908"W	6248.67	340.295	2.92	-2.16	-1.97	
12237.00	89.110	341.700	6314.47	6341.51	5972.94	-2136.74	1650088.42	14240477.11	39°12'56.5359"N	80°57'57.0695"W	6343.64	340.316	0.19	-0.19	0.02	
12331.00	89.350	341.690	6315.74	6435.50	6062.18	-2166.26	1650058.91	14240566.31	39°12'57.4180"N	80°57'57.4442"W	6437.60	340.336	0.26	0.26	-0.01	
12426.00	89.750	341.830	6316.48	6530.50	6152.40	-2195.99	1650029.19	14240656.50	39°12'58.3099"N	80°57'57.8215"W	6532.57	340.357	0.45	0.42	0.15	
12521.00	89.600	341.970	6317.02	6625.49	6242.70	-2225.51	1649999.69	14240746.76	39°12'59.2025"N	80°57'58.1960"W	6627.53	340.379	0.22	-0.16	0.15	
12615.00	90.030	341.620	6317.33	6719.49	6331.99	-2254.87	1649970.33	14240836.02	39°13'0.0852"N	80°57'58.5687"W	6721.50	340.399	0.59	0.46	-0.37	
12710.00	90.000	341.760	6317.30	6814.49	6422.18	-2284.72	1649940.50	14240926.17	39°13'0.9767"N	80°57'58.9475"W	6816.48	340.417	0.15	-0.03	0.15	
12804.00	90.030	341.400	6317.28	6908.49	6511.37	-2314.42	1649910.81	14241015.32	39°13'1.8583"N	80°57'59.3245"W	6910.46	340.433	0.38	0.03	-0.38	
12994.00	90.030	341.820	6317.18	7098.49	6691.67	-2374.36	1649850.89	14241195.55	39°13'3.6405"N	80°58'0.0852"W	7100.42	340.464	0.22	0.00	0.22	
13088.00	90.000	341.780	6317.15	7192.49	6780.96	-2403.72	1649821.54	14241284.81	39°13'4.5232"N	80°58'0.4578"W	7194.40	340.482	0.05	-0.03	-0.04	
13183.00	90.090	341.650	6317.08	7287.49	6871.17	-2433.53	1649791.75	14241374.97	39°13'5.4149"N	80°58'0.8361"W	7289.37	340.498	0.17	0.09	-0.14	
13277.00	89.850	341.660	6317.13	7381.49	6960.39	-2463.11	1649762.18	14241464.16	39°13'6.2969"N	80°58'1.2116"W	7383.35	340.512	0.26	-0.26	0.01	
13372.00	89.970	341.940	6317.28	7476.49	7050.64	-2492.78	1649732.52	14241554.37	39°13'7.1890"N	80°58'1.5882"W	7478.33	340.529	0.32	0.13	0.29	

Actual Wellpath Report

Sail Unit 1H ST01 AWP Proj: 21330'

REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Sail Unit 1H ST01
Field	Ritchie	API	47-085-10554-0000
Facility	Minear Pad	Wellbore	Sail Unit 1H ST01 AWB
Slot	Slot C	Sidetrack from	Sail Unit 1H AWP Proj: 10468' at 3227.00 MD

WELLPATH DATA (234 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
13467.00	89.570	341.010	6317.66	7571.49	7140.71	-2522.97	1649702.35	14241644.41	39°13'8.0794"N	80°58'1.9712"W	7573.32	340.541	1.07	-0.42	-0.98	
13561.00	89.600	341.440	6318.34	7665.48	7229.71	-2553.22	1649672.11	14241733.37	39°13'8.9591"N	80°58'2.3552"W	7667.31	340.549	0.46	0.03	0.46	
13656.00	88.990	340.460	6319.51	7760.46	7319.50	-2584.22	1649641.11	14241823.12	39°13'9.8467"N	80°58'2.7487"W	7762.30	340.554	1.22	-0.64	-1.03	
13750.00	89.570	341.980	6320.69	7854.44	7408.48	-2614.48	1649610.87	14241912.07	39°13'10.7263"N	80°58'3.1328"W	7856.28	340.562	1.73	0.62	1.62	
13845.00	89.780	341.640	6321.23	7949.44	7498.73	-2644.14	1649581.22	14242002.29	39°13'11.6184"N	80°58'3.5092"W	7951.25	340.577	0.42	0.22	-0.36	
13939.00	89.570	341.740	6321.76	8043.44	7587.97	-2673.67	1649551.71	14242091.49	39°13'12.5005"N	80°58'3.8840"W	8045.24	340.590	0.25	-0.22	0.11	
14034.00	89.540	341.750	6322.50	8138.44	7678.19	-2703.43	1649521.96	14242181.67	39°13'13.3923"N	80°58'4.2617"W	8140.21	340.603	0.03	-0.03	0.01	
14129.00	89.480	341.780	6323.31	8233.43	7768.41	-2733.15	1649492.25	14242271.86	39°13'14.2842"N	80°58'4.6390"W	8235.19	340.617	0.07	-0.06	0.03	
14223.00	89.630	342.110	6324.04	8327.43	7857.78	-2762.28	1649463.13	14242361.19	39°13'15.1676"N	80°58'5.0087"W	8329.16	340.632	0.39	0.16	0.35	
14318.00	89.540	341.700	6324.73	8422.43	7948.08	-2791.79	1649433.63	14242451.46	39°13'16.0602"N	80°58'5.3832"W	8424.14	340.646	0.44	-0.09	-0.43	
14412.00	89.510	342.170	6325.51	8516.42	8037.44	-2820.94	1649404.50	14242540.78	39°13'16.9436"N	80°58'5.7532"W	8518.11	340.660	0.50	-0.03	0.50	
14507.00	89.510	341.850	6326.32	8611.42	8127.80	-2850.28	1649375.17	14242631.10	39°13'17.8367"N	80°58'6.1256"W	8613.08	340.675	0.34	0.00	-0.34	
14602.00	90.000	341.850	6326.73	8706.42	8218.07	-2879.87	1649345.59	14242721.34	39°13'18.7290"N	80°58'6.5012"W	8708.06	340.688	0.52	0.52	0.00	
14791.00	90.710	342.070	6325.56	8895.41	8397.77	-2938.40	1649287.08	14242900.97	39°13'20.5054"N	80°58'7.2441"W	8897.01	340.715	0.39	0.38	0.12	
14886.00	90.460	341.940	6324.59	8990.41	8488.12	-2967.75	1649257.75	14242991.28	39°13'21.3985"N	80°58'7.6166"W	8991.98	340.729	0.30	-0.26	-0.14	
14980.00	90.520	341.730	6323.78	9084.40	8577.43	-2997.05	1649228.45	14243080.56	39°13'22.2813"N	80°58'7.9885"W	9085.96	340.740	0.23	0.06	-0.22	
15075.00	90.060	341.770	6323.30	9179.40	8667.65	-3026.80	1649198.72	14243170.74	39°13'23.1732"N	80°58'8.3662"W	9180.94	340.750	0.49	-0.48	0.04	
15170.00	90.000	341.860	6323.25	9274.40	8757.91	-3056.45	1649169.08	14243260.96	39°13'24.0653"N	80°58'8.7425"W	9275.93	340.761	0.11	-0.06	0.09	
15264.00	89.970	341.930	6323.28	9368.40	8847.25	-3085.66	1649139.88	14243350.27	39°13'24.9485"N	80°58'9.1133"W	9369.91	340.773	0.08	-0.03	0.07	
15359.00	90.150	341.870	6323.18	9463.40	8937.55	-3115.17	1649110.38	14243440.53	39°13'25.8411"N	80°58'9.4879"W	9464.89	340.784	0.20	0.19	-0.06	
15454.00	90.090	341.820	6322.98	9558.40	9027.82	-3144.77	1649080.79	14243530.77	39°13'26.7334"N	80°58'9.8637"W	9559.87	340.795	0.08	-0.06	-0.05	
15549.00	90.000	341.950	6322.90	9653.40	9118.11	-3174.31	1649051.26	14243621.02	39°13'27.6259"N	80°58'10.2386"W	9654.86	340.805	0.17	-0.09	0.14	
15643.00	89.290	341.650	6323.49	9747.40	9207.41	-3203.67	1649021.92	14243710.28	39°13'28.5086"N	80°58'10.6113"W	9748.84	340.815	0.82	-0.76	-0.32	
15738.00	89.290	341.850	6324.66	9842.39	9297.62	-3233.42	1648992.18	14243800.46	39°13'29.4004"N	80°58'10.9889"W	9843.82	340.824	0.21	0.00	0.21	
15832.00	89.200	341.740	6325.90	9936.38	9386.91	-3262.78	1648962.83	14243889.71	39°13'30.2830"N	80°58'11.3617"W	9937.80	340.833	0.15	-0.10	-0.12	
15927.00	89.350	341.820	6327.10	10031.38	9477.14	-3292.48	1648933.14	14243979.90	39°13'31.1749"N	80°58'11.7387"W	10032.78	340.842	0.18	0.16	0.08	
16021.00	89.290	341.820	6328.22	10125.37	9566.44	-3321.81	1648903.82	14244069.17	39°13'32.0576"N	80°58'12.1109"W	10126.76	340.851	0.06	-0.06	0.00	
16116.00	89.290	341.600	6329.40	10220.36	9656.64	-3351.62	1648874.02	14244159.32	39°13'32.9492"N	80°58'12.4894"W	10221.74	340.859	0.23	0.00	-0.23	
16211.00	89.230	341.790	6330.62	10315.35	9746.82	-3381.46	1648844.20	14244249.47	39°13'33.8407"N	80°58'12.8681"W	10316.72	340.867	0.21	-0.06	0.20	
16305.00	89.200	341.800	6331.91	10409.35	9836.11	-3410.82	1648814.85	14244338.72	39°13'34.7232"N	80°58'13.2409"W	10410.70	340.875	0.03	-0.03	0.01	

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Actual Wellpath Report

Sail Unit 1H ST01 AWP Proj: 21330'

REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Sail Unit 1H ST01
Field	Ritchie	API	47-085-10554-0000
Facility	Minear Pad	Wellbore	Sail Unit 1H ST01 AWB
Slot	Slot C	Sidetrack from	Sail Unit 1H AWP Proj: 10468' at 3227.00 MD

WELLPATH DATA (234 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
16400.00	89.390	341.710	6333.08	10504.34	9926.32	-3440.56	1648785.12	14244428.91	39°13'35.6150"N	80°58'13.6184"W	10505.68	340.883	0.22	0.20	-0.09	
16494.00	89.020	341.750	6334.38	10598.33	10015.58	-3470.03	1648755.67	14244518.12	39°13'36.4973"N	80°58'13.9925"W	10599.66	340.891	0.40	-0.39	0.04	
16589.00	88.950	341.710	6336.07	10693.31	10105.77	-3499.80	1648725.90	14244608.28	39°13'37.3889"N	80°58'14.3705"W	10694.64	340.898	0.08	-0.07	-0.04	
16684.00	89.020	341.650	6337.75	10788.30	10195.94	-3529.66	1648696.06	14244698.42	39°13'38.2802"N	80°58'14.7495"W	10789.61	340.905	0.10	0.07	-0.06	
16778.00	88.950	341.550	6339.42	10882.28	10285.12	-3559.33	1648666.40	14244787.56	39°13'39.1617"N	80°58'15.1261"W	10883.59	340.911	0.13	-0.07	-0.11	
16873.00	89.020	341.750	6341.10	10977.27	10375.28	-3589.23	1648636.51	14244877.68	39°13'40.0529"N	80°58'15.5057"W	10978.57	340.917	0.22	0.07	0.21	
16968.00	88.920	341.700	6342.81	11072.25	10465.47	-3619.02	1648606.74	14244967.84	39°13'40.9445"N	80°58'15.8839"W	11073.55	340.924	0.12	-0.11	-0.05	
17062.00	89.050	341.730	6344.47	11166.24	10554.71	-3648.50	1648577.26	14245057.04	39°13'41.8266"N	80°58'16.2582"W	11167.52	340.931	0.14	0.14	0.03	
17157.00	88.990	341.890	6346.10	11261.22	10644.95	-3678.15	1648547.62	14245147.25	39°13'42.7186"N	80°58'16.6346"W	11262.50	340.938	0.18	-0.06	0.17	
17251.00	89.630	341.700	6347.23	11355.22	10734.24	-3707.52	1648518.27	14245236.50	39°13'43.6012"N	80°58'17.0074"W	11356.48	340.946	0.71	0.68	-0.20	
17346.00	89.660	341.630	6347.82	11450.21	10824.42	-3737.40	1648488.40	14245326.64	39°13'44.4926"N	80°58'17.3868"W	11451.47	340.951	0.08	0.03	-0.07	
17440.00	89.630	341.580	6348.40	11544.21	10913.61	-3767.07	1648458.75	14245415.80	39°13'45.3742"N	80°58'17.7634"W	11545.46	340.957	0.06	-0.03	-0.05	
17534.00	89.510	341.820	6349.10	11638.21	11002.85	-3796.58	1648429.25	14245505.00	39°13'46.2564"N	80°58'18.1381"W	11639.45	340.963	0.29	-0.13	0.26	
17629.00	89.630	341.740	6349.82	11733.21	11093.09	-3826.28	1648399.55	14245595.20	39°13'47.1484"N	80°58'18.5152"W	11734.44	340.969	0.15	0.13	-0.08	
17724.00	89.660	341.650	6350.41	11828.20	11183.28	-3856.12	1648369.73	14245685.36	39°13'48.0399"N	80°58'18.8940"W	11829.43	340.975	0.10	0.03	-0.09	
17818.00	89.720	341.540	6350.91	11922.20	11272.47	-3885.80	1648340.06	14245774.51	39°13'48.9215"N	80°58'19.2708"W	11923.42	340.980	0.13	0.06	-0.12	
17913.00	89.510	341.790	6351.55	12017.20	11362.65	-3915.68	1648310.19	14245864.65	39°13'49.8129"N	80°58'19.6502"W	12018.41	340.986	0.34	-0.22	0.26	
18007.00	89.660	341.940	6352.23	12111.20	11451.97	-3944.94	1648280.95	14245953.94	39°13'50.6959"N	80°58'20.0216"W	12112.40	340.992	0.23	0.16	0.16	
18102.00	89.570	341.860	6352.87	12206.20	11542.27	-3974.45	1648251.44	14246044.20	39°13'51.5884"N	80°58'20.3963"W	12207.39	340.999	0.13	-0.09	-0.08	
18197.00	89.540	341.730	6353.61	12301.19	11632.51	-4004.13	1648221.78	14246134.41	39°13'52.4805"N	80°58'20.7732"W	12302.37	341.006	0.14	-0.03	-0.14	
18292.00	89.630	341.850	6354.30	12396.19	11722.75	-4033.82	1648192.10	14246224.61	39°13'53.3725"N	80°58'21.1501"W	12397.36	341.012	0.16	0.09	0.13	
18386.00	89.600	341.900	6354.93	12490.19	11812.09	-4063.06	1648162.87	14246313.91	39°13'54.2555"N	80°58'21.5213"W	12491.35	341.018	0.06	-0.03	0.05	
18481.00	89.570	341.730	6355.62	12585.18	11902.34	-4092.71	1648133.24	14246404.13	39°13'55.1476"N	80°58'21.8977"W	12586.34	341.024	0.18	-0.03	-0.18	
18576.00	89.540	341.790	6356.36	12680.18	11992.56	-4122.44	1648103.52	14246494.31	39°13'56.0395"N	80°58'22.2753"W	12681.33	341.030	0.07	-0.03	0.06	
18670.00	89.540	341.610	6357.11	12774.18	12081.81	-4151.96	1648074.01	14246583.52	39°13'56.9216"N	80°58'22.6500"W	12775.32	341.035	0.19	0.00	-0.19	
18765.00	89.630	341.700	6357.80	12869.18	12171.98	-4181.85	1648044.13	14246673.65	39°13'57.8129"N	80°58'23.0296"W	12870.31	341.039	0.13	0.09	0.09	
18860.00	89.660	342.050	6358.39	12964.17	12262.26	-4211.41	1648014.58	14246763.90	39°13'58.7054"N	80°58'23.4048"W	12965.30	341.045	0.37	0.03	0.37	
18954.00	89.600	341.910	6358.99	13058.17	12351.65	-4240.49	1647985.52	14246853.25	39°13'59.5890"N	80°58'23.7740"W	13059.28	341.052	0.16	-0.06	-0.15	
19049.00	89.630	341.920	6359.63	13153.17	12441.95	-4269.98	1647956.04	14246943.52	39°14'0.4816"N	80°58'24.1485"W	13154.27	341.058	0.03	0.03	0.01	
19144.00	89.750	341.690	6360.15	13248.17	12532.20	-4299.64	1647926.39	14247033.73	39°14'1.3737"N	80°58'24.5251"W	13249.26	341.064	0.27	0.13	-0.24	

Actual Wellpath Report

Sail Unit 1H ST01 AWP Proj: 21330'

REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Sail Unit 1H ST01
Field	Ritchie	API	47-085-10554-0000
Facility	Minear Pad	Wellbore	Sail Unit 1H ST01 AWB
Slot	Slot C	Sidetrack from	Sail Unit 1H AWP Proj: 10468' at 3227.00 MD

WELLPATH DATA (234 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
19238.00	89.630	341.640	6360.65	13342.17	12621.43	-4329.21	1647896.83	14247122.93	39°14'2.2557"N	80°58'24.9006"W	13343.26	341.068	0.14	-0.13	-0.05	
19333.00	89.600	341.610	6361.29	13437.16	12711.58	-4359.16	1647866.90	14247213.04	39°14'3.1468"N	80°58'25.2808"W	13438.25	341.072	0.04	-0.03	-0.03	
19428.00	89.570	341.570	6361.98	13532.16	12801.72	-4389.16	1647836.91	14247303.14	39°14'4.0378"N	80°58'25.6617"W	13533.24	341.075	0.05	-0.03	-0.04	
19522.00	89.600	341.680	6362.66	13626.16	12890.92	-4418.79	1647807.29	14247392.31	39°14'4.9196"N	80°58'26.0380"W	13627.24	341.079	0.12	0.03	0.12	
19617.00	89.540	341.530	6363.38	13721.15	12981.07	-4448.77	1647777.32	14247482.42	39°14'5.8106"N	80°58'26.4186"W	13722.23	341.083	0.17	-0.06	-0.16	
19712.00	89.510	341.820	6364.16	13816.15	13071.24	-4478.63	1647747.47	14247572.56	39°14'6.7020"N	80°58'26.7979"W	13817.22	341.087	0.31	-0.03	0.31	
19806.00	89.480	342.820	6364.99	13910.14	13160.80	-4507.18	1647718.93	14247662.08	39°14'7.5872"N	80°58'27.1603"W	13911.19	341.095	1.06	-0.03	1.06	
19901.00	89.660	342.710	6365.70	14005.13	13251.53	-4535.33	1647690.80	14247752.78	39°14'8.4841"N	80°58'27.5177"W	14006.15	341.107	0.22	0.19	-0.12	
19995.00	89.170	342.620	6366.66	14099.11	13341.26	-4563.33	1647662.80	14247842.47	39°14'9.3710"N	80°58'27.8733"W	14100.11	341.117	0.53	-0.52	-0.10	
20090.00	89.720	342.830	6367.58	14194.09	13431.97	-4591.54	1647634.60	14247933.14	39°14'10.2676"N	80°58'28.2315"W	14195.07	341.128	0.62	0.58	0.22	
20184.00	89.660	342.770	6368.09	14288.08	13521.76	-4619.34	1647606.82	14248022.90	39°14'11.1552"N	80°58'28.5845"W	14289.03	341.139	0.09	-0.06	-0.06	
20279.00	89.510	342.680	6368.78	14383.06	13612.47	-4647.55	1647578.62	14248113.57	39°14'12.0519"N	80°58'28.9427"W	14383.99	341.149	0.18	-0.16	-0.09	
20374.00	89.630	342.710	6369.49	14478.05	13703.17	-4675.81	1647550.37	14248204.23	39°14'12.9484"N	80°58'29.3015"W	14478.95	341.159	0.13	0.13	0.03	
20468.00	89.570	341.710	6370.15	14572.04	13792.67	-4704.53	1647521.66	14248293.70	39°14'13.8331"N	80°58'29.6661"W	14572.93	341.166	1.07	-0.06	-1.06	
20563.00	89.540	341.750	6370.89	14667.04	13882.88	-4734.31	1647491.90	14248383.87	39°14'14.7248"N	80°58'30.0443"W	14667.93	341.170	0.05	-0.03	0.04	
20658.00	89.630	341.800	6371.58	14762.04	13973.11	-4764.02	1647462.20	14248474.07	39°14'15.6167"N	80°58'30.4216"W	14762.92	341.174	0.11	0.09	0.05	
20752.00	89.600	341.750	6372.21	14856.03	14062.40	-4793.42	1647432.81	14248563.32	39°14'16.4992"N	80°58'30.7949"W	14856.91	341.177	0.06	-0.03	-0.05	
20847.00	89.630	341.710	6372.85	14951.03	14152.60	-4823.20	1647403.04	14248653.49	39°14'17.3909"N	80°58'31.1731"W	14951.90	341.181	0.05	0.03	-0.04	
20942.00	89.570	341.930	6373.51	15046.03	14242.86	-4852.84	1647373.41	14248743.71	39°14'18.2831"N	80°58'31.5495"W	15046.90	341.185	0.24	-0.06	0.23	
21036.00	89.600	341.900	6374.19	15140.03	14332.21	-4882.02	1647344.25	14248833.02	39°14'19.1663"N	80°58'31.9200"W	15140.89	341.189	0.05	0.03	-0.03	
21131.00	89.570	341.750	6374.88	15235.02	14422.47	-4911.65	1647314.63	14248923.25	39°14'20.0585"N	80°58'32.2963"W	15235.88	341.193	0.16	-0.03	-0.16	
21226.00	89.690	341.800	6375.49	15330.02	14512.70	-4941.36	1647284.93	14249013.44	39°14'20.9504"N	80°58'32.6736"W	15330.87	341.197	0.14	0.13	0.05	
21305.00	89.600	341.890	6375.98	15409.02	14587.77	-4965.97	1647260.32	14249088.48	39°14'21.6924"N	80°58'32.9862"W	15409.86	341.200	0.16	-0.11	0.11	
21330.00‡	89.600	341.890	6376.16	15434.02	14611.53	-4973.74	1647252.55	14249112.23	39°14'21.9273"N	80°58'33.0849"W	15434.86	341.201	0.00	0.00	0.00	Projected MD at TD: 21330'

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Actual Wellpath Report

Sail Unit 1H ST01 AWP Proj: 21330'

REFERENCE WELLPATH IDENTIFICATION			
Operator	**ANTERO RESOURCES CORPORATION**	Well	**Sail Unit 1H ST01**
Field	**Ritchie**	API	**47-085-10554-0000**
Facility	**Minear Pad**	Wellbore	**Sail Unit 1H ST01 AWB**
Slot	**Slot C**	Sidetrack from	**Sail Unit 1H AWP Proj: 10468' at 3227.00 MD**

DIRECTIONAL DIFFICULTY INDEX

Directional Difficulty Index @ TD = **7.03**

Reference: IADC/SPE 59196

Values	Wellpath characterized as:	Values	Wellpath characterized as:
< 6.0	Relatively short or simple profiles with low tortuosity	6.4-6.8	Longer with relatively tortuous well paths
< 6.0-6.4	Shorter with high tortuosity or longer with lower tortuosity	> 6.8	Long tortuous profiles, high degree of difficulty

HOLE & CASING SECTIONS - Ref Wellbore: Sail Unit 1H ST01 AWB Ref Wellpath: Sail Unit 1H ST01 AWP Proj: 21330'

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	0.10	0.32
17.5in Open Hole	125.50	865.00	739.50	125.50	865.00	0.10	0.32	-0.80	-0.26
13.375in Casing Surface	25.50	845.00	819.50	25.50	845.00	0.00	0.00	-0.74	-0.21
12.25in Open Hole	865.00	3227.00	2362.00	865.00	3213.16	-0.80	-0.26	-227.34	68.58
9.625in Casing Intermediate	25.50	3198.00	3172.50	25.50	3184.36	0.00	0.00	-224.03	67.73
8.75in Open Hole	3227.00	5826.00	2599.00	3213.16	5746.76	-227.34	68.58	188.11	-147.87
8.5in Open Hole	5826.00	21330.00	15504.00	5746.76	6376.16	188.11	-147.87	14611.53	-4973.74
5.5in Casing Production	25.50	21310.00	21284.50	25.50	6376.02	0.00	0.00	14592.52	-4967.53

Actual Wellpath Report

Sail Unit 1H ST01 AWP Proj: 21330'

REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Sail Unit 1H ST01
Field	Ritchie	API	47-085-10554-0000
Facility	Minear Pad	Wellbore	Sail Unit 1H ST01 AWB
Slot	Slot C	Sidetrack from	Sail Unit 1H AWP Proj: 10468' at 3227.00 MD

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Sail Unit 1H POE Rev-4	6323.00	693.59	-357.36	**1651867.08**	**14235199.88**	39°12'4.3483"N	80°57'34.4922"W	point
Sail Unit 1H BHL Rev-5	6345.00	14609.20	-4964.01	**1647262.28**	**14249109.90**	39°14'21.9042"N	80°58'32.9612"W	point
Sail Unit 1H IP Rev-1	6345.00	3891.35	-1440.18	**1650784.70**	**14238396.36**	39°12'35.9591"N	80°57'48.2303"W	point
Sail Unit 1H 50' L/R Hard Line R-3	7000.00	9274.38	-3210.13	1649015.45	14243777.22	39°13'29.1705"N	80°58'10.6931"W	point

WELLPATH COMPOSITION - Ref Wellbore: Sail Unit 1H ST01 AWB Ref Wellpath: Sail Unit 1H ST01 AWP Proj: 21330'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	800.00	Gyrodata 2015 - GC+WIR+DPIPE	01_Gyrodata MS Gyro <17-1/2"> (100'-800')	Sail Unit 1H AWB	5/14/2025
800.00	926.00	Gyrodata 2015 - GC+WIR+DPIPE	02_Gyrodata MS Gyro <12-1/4"> (800')(900'-926')	Sail Unit 1H AWB	5/15/2025
926.00	3149.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03_APS EM <12-1/4"> (926')(960'-3149')	Sail Unit 1H AWB	5/14/2025
3149.00	3227.00	BH NaviTrak (2019) (Axial Corr+HRGM)	04_APS EM <8-3/4"> (3149')(3227'-5559')	Sail Unit 1H AWB	6/4/2025
3227.00	5751.00	BH NaviTrak (2019) (Axial Corr+HRGM)	06_APS EM <8-3/4"> (3227')(3291'-5751')	Sail Unit 1H ST01 AWB	7/1/2025
5751.00	21330.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	07_BH Lucida <8-1/2"> (5751')(5802'-21305')	Sail Unit 1H ST01 AWB	7/1/2025

REFERENCE WELLPATH IDENTIFICATION			
Operator	**ANTERO RESOURCES CORPORATION**	Well	**Sail Unit 1H ST01**
Field	**Ritchie**	API	**47-085-10554-0000**
Facility	**Minear Pad**	Wellbore	**Sail Unit 1H ST01 AWB**
Slot	**Slot C**	Sidetrack from	**Sail Unit 1H AWP Proj: 10468'** at **3227.00 MD**

COMMENTS

Wellpath general comments

API: 47-085-10554-0000
BH Job #: 112660886
Rig: H&P 317
Duration: 7/4/2025-7/9/2025
Gyrodata MS Gyro <17-1/2"> (100'-800')
Gyrodata MS Gyro <12-1/4"> (800')(900'-926')
APS EM <12-1/4"> (926')(960'-3149')
APS EM [OH] <8-3/4"> (3149')(3227')
APS EM [ST01] <8-3/4"> (3227')(3291'-5751')
BH Lucida [ST01] <8-1/2"> (5751')(5802'-21305')
Sycamore: 6120' MD
Middlesex: 6313' MD
Burkett: 6502' MD
Tully: 6570' MD
Marcellus POE: 6636' MD
Projected MD at TD: 21330'