



ANTERO RESOURCES CORPORATION

Location: Wetzell County, WV
Field: Wetzell
Facility: Big Run Pad

Slot: Slot E
Well: Sprouse Unit 1H
Wellbore: Sprouse Unit 1H PWB

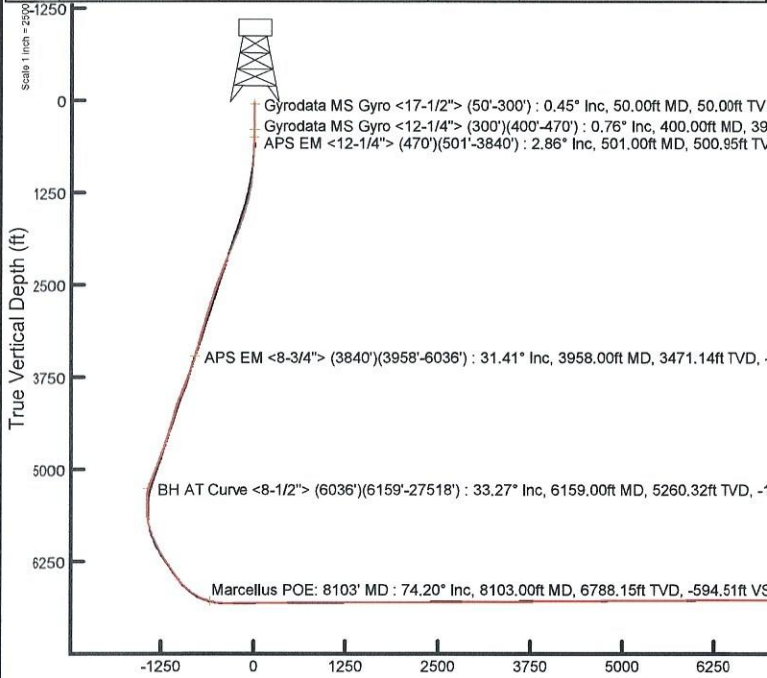


Plot reference wellpath is Sprouse Unit 1H PWP Rev-B.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 531 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 531 (RKB)	Scale: True distance
H&P 531 (RKB) to Mean Sea Level: 1280 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot E): -1250 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edaryar on 2023-11-21; Database: WA_MPL_EASTERNUS_Defn

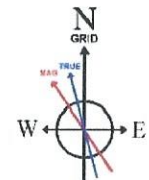
Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Big Run Pad	1691442.110	14364002.040	39°33'17.4032"N	80°49'8.3073"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude
Slot E	28.45	-9.52	1691432.590	14364030.480	39°33'17.6845"N
Comment	Sprouse Unit 1H				
H&P 531 (RKB) to Ground level (At Slot: Slot E)	30ft				
Mean Sea Level to Ground level (At Slot: Slot E)	-1250ft				
H&P 531 (RKB) to Mean Sea Level	1280ft				

Well Profile Data								
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS ("/100ft)	VS (ft)
Tie On	30.00	0.000	222.836	30.00	0.00	0.00	0.00	0.00
KOP 1	410.00	0.000	222.836	410.00	0.00	0.00	0.00	0.00
End of Build	1570.36	34.811	222.836	1500.28	-250.63	-232.38	3.00	-160.43
Curve KOP	6132.61	34.811	222.836	5246.07	-2160.48	-2003.16	0.00	-1382.90
Turn	7236.78	35.500	330.000	6225.82	-2109.98	-2409.69	5.00	-1201.70
Hold / AC	7586.78	35.500	330.000	6510.76	-1933.96	-2511.32	0.00	-1002.07
POE	8078.38	73.921	340.829	6790.00	-1572.98	-2666.38	8.00	-610.19
Landing Pt.	8284.37	90.400	340.829	6818.00	-1380.89	-2733.16	8.00	-406.83
BHL	27544.37	90.400	340.829	6683.54	16810.52	-9057.88	0.00	18852.70

Well Data			
Slot	Well	Wellbore	Wellpath
Slot E	Sprouse Unit 1H	Sprouse Unit 1H AWP	Sprouse Unit 1H AWP Proj: 27543'
Slot E	Sprouse Unit 1H	Sprouse Unit 1H PWB	Sprouse Unit 1H PWP Rev-B.0



User specified (HDGM) Dip: 66.27° Field: 51560 nT
Magnetic North is 7.49 degrees West of True North (at 10/21/2023)
Grid North is 0.12 degrees East of True North
To correct azimuth from True to Grid subtract 0.12 degrees
To correct azimuth from Magnetic to Grid subtract 7.61 degrees



API: 47-103-03601-0000
BH Job #: 111994426
Rig: H&P 531
Duration: 10/22/2023-11/1/2023

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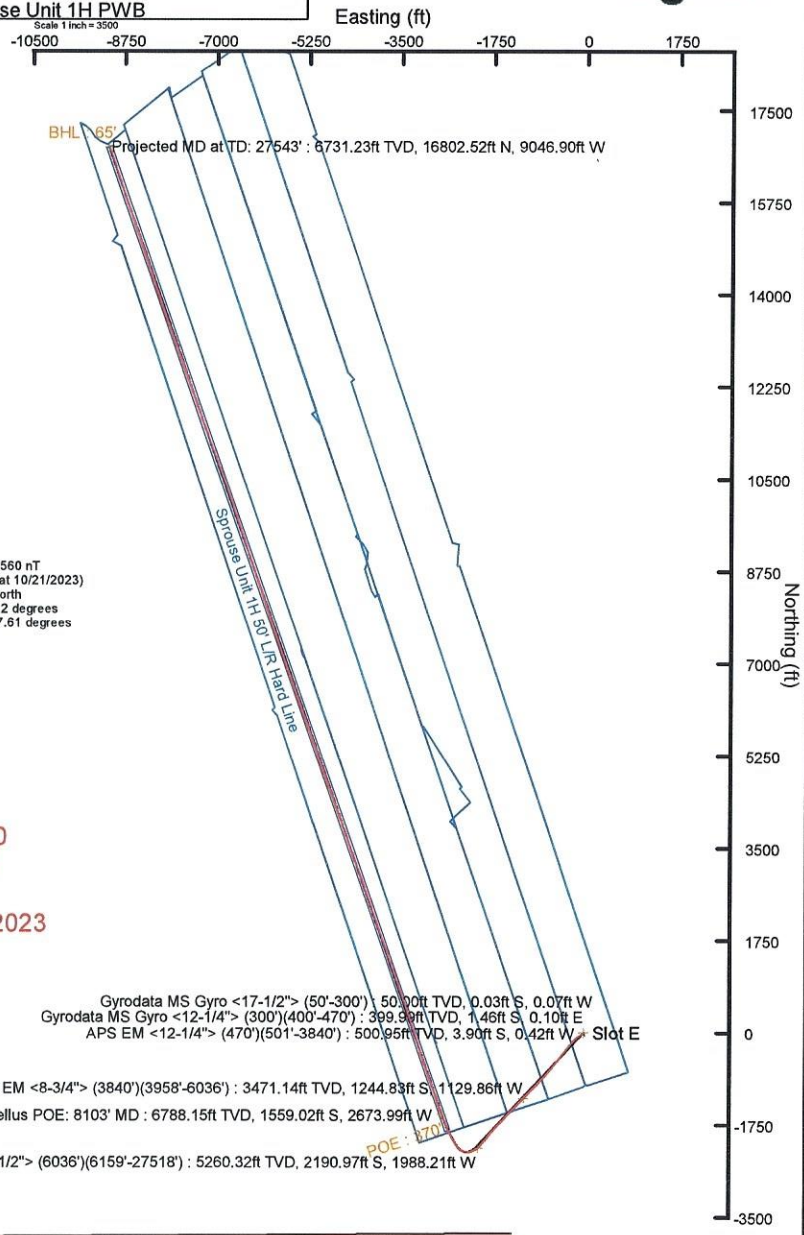
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Gyrodatta MS Gyro <17-1/2"> (50'-300') : 50.00ft TVD, 0.03ft S, 0.07ft W
Gyrodatta MS Gyro <12-1/4"> (300')(400'-470') : 399.99ft TVD, 1.46ft S, 0.10ft E
APS EM <12-1/4"> (470')(501'-3840') : 500.95ft TVD, 3.90ft S, 0.42ft W Slot E
APS EM <8-3/4"> (3840')(3958'-6036') : 3471.14ft TVD, 1244.83ft S, 1129.86ft W
Marcellus POE: 8103' MD : 6788.15ft TVD, 1559.02ft S, 2673.99ft W
BH AT Curve <8-1/2"> (6036')(6159'-27518') : 5260.32ft TVD, 2190.97ft S, 1988.21ft W

Projected MD at TD: 27543' : 90.15° Inc, 27543.00ft MD, 6731.23ft TVD, 18841.55ft VS

Vertical Section (ft)
Azimuth 340.83° with reference 0.00 N, 0.00 E





Actual Wellpath Report

Sprouse Unit 1H AWP Proj: 27543'
Page 1 of 14



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Sprouse Unit 1H
Field	Wetzel	API	47-103-03601-0000
Facility	Big Run Pad	Wellbore	Sprouse Unit 1H AWB
Slot	Slot E		

REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999603	Report Generated	11/21/2023 at 4:53:23 PM
Convergence at slot	0.12° 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	28.45	-9.52	1691432.59	14364030.48	39°33'17.6846"N	80°49'8.4282"W
Facility Reference Pt			1691442.11	14364002.04	39°33'17.4032"N	80°49'8.3073"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.3013"W

WELLPATH DATUM

Calculation method	Minimum curvature	H&P 531 (RKB) to Facility Vertical Datum	1280.00ft
Horizontal Reference Pt	Slot	H&P 531 (RKB) to Mean Sea Level	1280.00ft
Vertical Reference Pt	H&P 531 (RKB)	H&P 531 (RKB) to Ground Level at Slot (Slot E)	30.00ft
MD Reference Pt	H&P 531 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	340.83°

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Actual Wellpath Report

Sprouse Unit 1H AWP Proj: 27543'
Page 2 of 14



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Sprouse Unit 1H
Field	Wetzel	API	47-103-03601-0000
Facility	Big Run Pad	Wellbore	Sprouse Unit 1H AWB
Slot	Slot E		

WELLPATH DATA (288 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	244.180	0.00	0.00	0.00	0.00	1691432.59	14364030.48	39°33'17.6846"N	80°49'8.4282"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	244.180	30.00	0.00	0.00	0.00	1691432.59	14364030.48	39°33'17.6846"N	80°49'8.4282"W	0.00	0.000	0.00	0.00	0.00	
50.00	0.450	244.180	50.00	-0.01	-0.03	-0.07	1691432.52	14364030.45	39°33'17.6842"N	80°49'8.4291"W	0.08	244.180	2.25	2.25	0.00	Gyrodata MS Gyro <17-1/2"> (50'-300')
100.00	0.410	235.090	100.00	-0.08	-0.22	-0.39	1691432.20	14364030.26	39°33'17.6824"N	80°49'8.4332"W	0.45	240.598	0.16	-0.08	-18.18	
200.00	0.240	222.690	200.00	-0.28	-0.58	-0.83	1691431.76	14364029.90	39°33'17.6788"N	80°49'8.4388"W	1.01	235.003	0.18	-0.17	-12.40	
300.00	0.370	114.270	300.00	-0.60	-0.87	-0.68	1691431.91	14364029.61	39°33'17.6760"N	80°49'8.4369"W	1.10	217.978	0.50	0.13	-108.42	
400.00	0.760	133.610	399.99	-1.41	-1.46	0.10	1691432.69	14364029.02	39°33'17.6702"N	80°49'8.4270"W	1.46	176.180	0.43	0.39	19.34	Gyrodata MS Gyro <12-1/4"> (300')(400'-470')
470.00	1.740	196.760	469.98	-2.68	-2.80	0.13	1691432.72	14364027.69	39°33'17.6569"N	80°49'8.4267"W	2.80	177.399	2.22	1.40	90.21	
501.00	2.860	211.910	500.95	-3.55	-3.90	-0.42	1691432.17	14364026.58	39°33'17.6460"N	80°49'8.4336"W	3.93	186.106	4.08	3.61	48.87	APS EM <12-1/4"> (470')(501'-3840')
606.00	5.780	233.440	605.65	-6.78	-9.28	-6.05	1691426.54	14364021.21	39°33'17.5930"N	80°49'8.5057"W	11.08	213.112	3.13	2.78	20.50	
681.00	8.060	232.270	680.10	-9.58	-14.75	-13.24	1691419.35	14364015.74	39°33'17.5391"N	80°49'8.5977"W	19.82	221.929	3.05	3.04	-1.56	
771.00	10.460	233.250	768.92	-14.06	-23.50	-24.78	1691407.82	14364006.99	39°33'17.4529"N	80°49'8.7452"W	34.15	226.526	2.67	2.67	1.09	
860.00	13.080	231.820	856.04	-19.78	-34.56	-39.17	1691393.43	14363995.94	39°33'17.3438"N	80°49'8.9292"W	52.24	228.583	2.96	2.94	-1.61	
950.00	15.980	233.050	943.15	-26.88	-48.30	-57.08	1691375.53	14363982.20	39°33'17.2083"N	80°49'9.1582"W	74.78	229.764	3.24	3.22	1.37	
1039.00	18.580	232.990	1028.13	-34.96	-64.20	-78.20	1691354.42	14363966.30	39°33'17.0516"N	80°49'9.4282"W	101.18	230.613	2.92	2.92	-0.07	
1134.00	21.690	231.430	1117.31	-45.44	-84.26	-104.02	1691328.61	14363946.25	39°33'16.8538"N	80°49'9.7583"W	133.87	230.989	3.32	3.27	-1.64	
1228.00	24.150	228.930	1203.88	-58.38	-107.73	-132.10	1691300.54	14363922.79	39°33'16.6225"N	80°49'10.1175"W	170.46	230.802	2.81	2.62	-2.66	
1322.00	25.930	225.250	1289.05	-74.43	-134.84	-161.20	1691271.46	14363895.70	39°33'16.3551"N	80°49'10.4896"W	210.16	230.088	2.52	1.89	-3.91	
1417.00	28.520	222.650	1373.52	-94.11	-166.15	-191.32	1691241.35	14363864.40	39°33'16.0463"N	80°49'10.8750"W	253.39	229.028	3.00	2.73	-2.74	
1511.00	31.030	223.300	1455.11	-115.91	-200.29	-223.15	1691209.53	14363830.27	39°33'15.7095"N	80°49'11.2822"W	299.85	228.089	2.69	2.67	0.69	
1606.00	31.920	219.670	1536.14	-140.23	-237.45	-255.97	1691176.72	14363793.13	39°33'15.3429"N	80°49'11.7022"W	349.15	227.150	2.20	0.94	-3.82	
1700.00	33.260	218.960	1615.33	-166.69	-276.62	-288.05	1691144.66	14363753.97	39°33'14.9564"N	80°49'12.1127"W	399.36	226.159	1.48	1.43	-0.76	
1795.00	33.680	218.860	1694.58	-194.40	-317.39	-320.95	1691111.76	14363713.22	39°33'14.5541"N	80°49'12.5339"W	451.38	225.320	0.45	0.44	-0.11	
1889.00	35.610	217.940	1771.91	-223.06	-359.27	-354.14	1691078.59	14363671.35	39°33'14.1408"N	80°49'12.9585"W	504.47	224.588	2.13	2.05	-0.98	
1983.00	36.190	217.410	1848.05	-253.21	-402.90	-387.82	1691044.92	14363627.74	39°33'13.7103"N	80°49'13.3897"W	559.23	223.908	0.70	0.62	-0.56	
2078.00	36.950	218.950	1924.35	-283.74	-447.38	-422.81	1691009.95	14363583.28	39°33'13.2713"N	80°49'13.8375"W	615.57	223.383	1.25	0.80	1.62	
2172.00	37.620	220.180	1999.14	-313.28	-491.28	-459.08	1690973.69	14363539.40	39°33'12.8383"N	80°49'14.3017"W	672.39	223.060	1.07	0.71	1.31	
2267.00	36.850	218.620	2074.78	-343.25	-535.69	-495.57	1690937.21	14363495.01	39°33'12.4000"N	80°49'14.7687"W	729.76	222.772	1.28	-0.81	-1.64	
2361.00	36.550	217.990	2150.15	-373.45	-579.77	-530.39	1690902.41	14363450.94	39°33'11.9651"N	80°49'15.2144"W	785.78	222.453	0.51	-0.32	-0.67	
2457.00	36.510	219.910	2227.29	-403.63	-624.20	-566.31	1690866.50	14363406.52	39°33'11.5266"N	80°49'15.6741"W	842.82	222.216	1.19	-0.04	2.00	

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Actual Wellpath Report

Sprouse Unit 1H AWP Proj: 27543'
Page 3 of 14



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Sprouse Unit 1H
Field	Wetzel	API	47-103-03601-0000
Facility	Big Run Pad	Wellbore	Sprouse Unit 1H AWB
Slot	Slot E		

WELLPATH DATA (288 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
2552.00	36.790	219.970	2303.51	-432.74	-667.68	-602.72	1690830.11	14363363.06	39°33'11.0976"N	80°49'16.1399"W	899.48	222.073	0.30	0.29	0.06	
2647.00	37.300	219.940	2379.33	-462.11	-711.55	-639.47	1690793.37	14363319.21	39°33'10.6647"N	80°49'16.6102"W	956.68	221.946	0.54	0.54	-0.03	
2741.00	37.400	219.350	2454.06	-491.64	-755.47	-675.86	1690757.00	14363275.31	39°33'10.2315"N	80°49'17.0759"W	1013.66	221.817	0.40	0.11	-0.63	
2837.00	35.820	221.010	2531.12	-520.84	-799.21	-712.78	1690720.10	14363231.59	39°33'9.7998"N	80°49'17.5483"W	1070.89	221.728	1.94	-1.65	1.73	
2932.00	34.640	223.680	2608.72	-546.99	-839.72	-749.67	1690683.22	14363191.09	39°33'9.4002"N	80°49'18.0203"W	1125.67	221.757	2.04	-1.24	2.81	
3026.00	34.350	221.360	2686.20	-572.22	-878.95	-785.65	1690647.26	14363151.88	39°33'9.0132"N	80°49'18.4806"W	1178.89	221.792	1.43	-0.31	-2.47	
3120.00	33.380	222.850	2764.25	-597.40	-917.81	-820.76	1690612.16	14363113.03	39°33'8.6298"N	80°49'18.9298"W	1231.27	221.805	1.36	-1.03	1.59	
3215.00	32.270	222.650	2844.08	-621.64	-955.63	-855.72	1690577.22	14363075.24	39°33'8.2567"N	80°49'19.3771"W	1282.76	221.843	1.17	-1.17	-0.21	
3309.00	32.180	222.630	2923.60	-645.32	-992.50	-889.67	1690543.28	14363038.38	39°33'7.8930"N	80°49'19.8115"W	1332.88	221.873	0.10	-0.10	-0.02	
3404.00	32.850	224.070	3003.71	-668.88	-1029.63	-924.72	1690508.23	14363001.27	39°33'7.5267"N	80°49'20.2599"W	1383.92	221.928	1.08	0.71	1.52	
3498.00	32.570	223.610	3082.80	-691.93	-1066.26	-959.91	1690473.06	14362964.64	39°33'7.1653"N	80°49'20.7100"W	1434.69	221.995	0.40	-0.30	-0.49	
3593.00	32.520	224.080	3162.88	-715.12	-1103.12	-995.31	1690437.68	14362927.80	39°33'6.8017"N	80°49'21.1629"W	1485.77	222.059	0.27	-0.05	0.49	
3687.00	32.240	225.250	3242.27	-737.32	-1138.92	-1030.69	1690402.31	14362892.01	39°33'6.4486"N	80°49'21.6155"W	1536.06	222.144	0.73	-0.30	1.24	
3782.00	32.570	223.110	3322.48	-760.15	-1175.43	-1066.17	1690366.85	14362855.52	39°33'6.0884"N	80°49'22.0693"W	1586.93	222.209	1.26	0.35	-2.25	
3840.00	32.940	223.500	3371.26	-774.66	-1198.27	-1087.69	1690345.33	14362832.69	39°33'5.8632"N	80°49'22.3446"W	1618.31	222.231	0.73	0.64	0.67	
3958.00	31.410	220.780	3471.14	-804.79	-1244.83	-1129.86	1690303.18	14362786.15	39°33'5.4038"N	80°49'22.8842"W	1681.13	222.228	1.79	-1.30	-2.31	APS EM <8-3/4"> (3840)(3958-6036)
4052.00	36.150	224.430	3549.25	-829.40	-1283.20	-1165.29	1690267.76	14362747.79	39°33'5.0253"N	80°49'23.3375"W	1733.35	222.243	5.48	5.04	3.88	
4147.00	37.160	223.810	3625.47	-854.89	-1323.92	-1204.77	1690228.30	14362707.09	39°33'4.6236"N	80°49'23.8425"W	1790.04	222.302	1.13	1.06	-0.65	
4242.00	36.210	221.990	3701.65	-881.46	-1365.48	-1243.41	1690189.68	14362665.54	39°33'4.2136"N	80°49'24.3368"W	1846.78	222.321	1.52	-1.00	-1.92	
4336.00	37.830	224.850	3776.71	-907.49	-1406.56	-1282.32	1690150.78	14362624.48	39°33'3.8084"N	80°49'24.8345"W	1903.35	222.355	2.51	1.72	3.04	
4431.00	39.500	225.640	3850.88	-933.11	-1448.34	-1324.47	1690108.65	14362582.72	39°33'3.3962"N	80°49'25.3737"W	1962.63	222.442	1.83	1.76	0.83	
4526.00	38.730	223.540	3924.59	-959.60	-1491.01	-1366.55	1690066.59	14362540.06	39°33'2.9753"N	80°49'25.9119"W	2022.51	222.506	1.61	-0.81	-2.21	
4620.00	38.220	221.220	3998.19	-987.45	-1534.20	-1405.97	1690027.18	14362496.89	39°33'2.5492"N	80°49'26.4162"W	2080.99	222.503	1.63	-0.54	-2.47	
4714.00	36.960	220.840	4072.67	-1015.94	-1577.45	-1443.61	1689989.56	14362453.65	39°33'2.1225"N	80°49'26.8978"W	2138.31	222.463	1.36	-1.34	-0.40	
4808.00	35.270	226.470	4148.63	-1041.27	-1617.54	-1481.78	1689951.40	14362413.59	39°33'1.7270"N	80°49'27.3861"W	2193.65	222.492	3.96	-1.80	5.99	
4902.00	33.740	225.000	4226.09	-1063.84	-1654.69	-1519.92	1689913.28	14362376.45	39°33'1.3606"N	80°49'27.8739"W	2246.81	222.569	1.85	-1.63	-1.56	
4996.00	32.040	221.960	4305.02	-1087.26	-1691.70	-1555.05	1689878.16	14362339.46	39°33'0.9955"N	80°49'28.3233"W	2297.83	222.590	2.52	-1.81	-3.23	
5090.00	31.820	222.270	4384.80	-1111.14	-1728.58	-1588.39	1689844.83	14362302.59	39°33'0.6317"N	80°49'28.7499"W	2347.55	222.580	0.29	-0.23	0.33	
5187.00	32.790	223.890	4466.79	-1135.27	-1766.43	-1623.80	1689809.43	14362264.75	39°33'0.2583"N	80°49'29.2029"W	2399.38	222.591	1.34	1.00	1.67	
5281.00	33.750	223.740	4545.38	-1158.69	-1803.64	-1659.50	1689773.75	14362227.56	39°32'59.8912"N	80°49'29.6595"W	2450.93	222.617	1.03	1.02	-0.16	

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JUL 29 2024

Environmental Protection
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Actual Wellpath Report

Sprouse Unit 1H AWP Proj: 27543'
Page 4 of 14



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Sprouse Unit 1H
Field	Wetzel	API	47-103-03601-0000
Facility	Big Run Pad	Wellbore	Sprouse Unit 1H AWB
Slot	Slot E		

WELLPATH DATA (288 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
5376.00	33.930	221.240	4624.29	-1183.80	-1842.65	-1695.23	1689738.04	14362188.57	39°32'59.5064"N	80°49'30.1166"W	2503.83	222.614	1.48	0.19	-2.63	
5470.00	33.750	219.260	4702.37	-1210.43	-1882.59	-1729.05	1689704.23	14362148.64	39°32'59.1122"N	80°49'30.5493"W	2556.12	222.566	1.19	-0.19	-2.11	
5565.00	35.970	221.310	4780.32	-1238.00	-1923.99	-1764.17	1689669.12	14362107.26	39°32'58.7038"N	80°49'30.9987"W	2610.37	222.519	2.64	2.34	2.16	
5659.00	33.400	216.390	4857.62	-1266.24	-1965.57	-1797.76	1689635.55	14362065.70	39°32'58.2935"N	80°49'31.4285"W	2663.72	222.447	4.04	-2.73	-5.23	
5753.00	32.280	214.540	4936.60	-1295.73	-2007.07	-1827.34	1689605.98	14362024.21	39°32'57.8838"N	80°49'31.8071"W	2714.32	222.316	1.60	-1.19	-1.97	
5848.00	37.380	220.040	5014.58	-1325.53	-2050.09	-1860.31	1689573.03	14361981.21	39°32'57.4594"N	80°49'32.2290"W	2768.32	222.221	6.30	5.37	5.79	
5942.00	40.290	224.200	5087.80	-1353.77	-2093.74	-1899.87	1689533.48	14361937.58	39°32'57.0287"N	80°49'32.7351"W	2827.23	222.221	4.16	3.10	4.43	
6036.00	38.290	220.650	5160.56	-1382.04	-2137.63	-1940.04	1689493.33	14361893.70	39°32'56.5956"N	80°49'33.2490"W	2886.73	222.226	3.20	-2.13	-3.78	
6159.00	33.270	223.710	5260.32	-1416.61	-2190.97	-1988.21	1689445.17	14361840.38	39°32'56.0694"N	80°49'33.8653"W	2958.60	222.222	4.33	-4.08	2.49	BH AT Curve <8-1/2"> (6036')(6159'-27518')
6254.00	30.210	243.050	5341.32	-1431.76	-2220.72	-2027.63	1689405.77	14361810.64	39°32'55.7761"N	80°49'34.3693"W	3007.14	222.398	11.14	-3.22	20.36	
6349.00	30.830	249.210	5423.17	-1435.69	-2240.20	-2071.71	1689361.71	14361791.17	39°32'55.5844"N	80°49'34.9324"W	3051.31	222.762	3.36	0.65	6.48	
6443.00	27.230	250.140	5505.35	-1436.63	-2256.06	-2114.47	1689318.97	14361775.32	39°32'55.4285"N	80°49'35.4787"W	3092.05	223.144	3.86	-3.83	0.99	
6538.00	24.800	259.330	5590.75	-1433.94	-2267.14	-2154.51	1689278.94	14361764.24	39°32'55.3198"N	80°49'35.9901"W	3127.59	223.541	4.95	-2.56	9.67	
6632.00	25.120	272.520	5676.04	-1423.65	-2269.92	-2193.85	1689239.62	14361761.47	39°32'55.2931"N	80°49'36.4923"W	3156.81	224.024	5.92	0.34	14.03	
6726.00	25.240	285.300	5761.17	-1404.92	-2263.74	-2233.14	1689200.34	14361767.64	39°32'55.3548"N	80°49'36.9938"W	3179.85	224.610	5.78	0.13	13.60	
6821.00	25.250	294.970	5847.14	-1379.33	-2249.84	-2271.06	1689162.43	14361781.54	39°32'55.4930"N	80°49'37.4775"W	3196.80	225.269	4.34	0.01	10.18	
6915.00	26.150	303.680	5931.87	-1348.85	-2229.88	-2306.49	1689127.02	14361801.49	39°32'55.6909"N	80°49'37.9293"W	3208.16	225.967	4.13	0.96	9.27	
7010.00	28.160	311.820	6016.42	-1312.54	-2203.31	-2340.63	1689092.89	14361828.05	39°32'55.9541"N	80°49'38.3645"W	3214.52	226.731	4.44	2.12	8.57	
7105.00	30.310	320.210	6099.35	-1270.48	-2169.93	-2372.69	1689060.84	14361861.42	39°32'56.2847"N	80°49'38.7730"W	3215.32	227.556	4.87	2.26	8.83	
7199.00	32.500	327.380	6179.60	-1223.69	-2130.41	-2401.50	1689032.05	14361900.92	39°32'56.6758"N	80°49'39.1398"W	3210.28	228.423	4.60	2.33	7.63	
7294.00	32.810	330.210	6259.59	-1173.57	-2086.58	-2428.05	1689005.51	14361944.73	39°32'57.1095"N	80°49'39.4776"W	3201.44	229.325	1.64	0.33	2.98	
7388.00	34.810	329.890	6337.69	-1122.19	-2041.26	-2454.16	1688979.41	14361990.03	39°32'57.5579"N	80°49'39.8099"W	3192.13	230.248	2.14	2.13	-0.34	
7483.00	35.530	329.390	6415.35	-1068.51	-1994.05	-2481.82	1688951.76	14362037.23	39°32'58.0250"N	80°49'40.1618"W	3183.66	231.219	0.82	0.76	-0.53	
7577.00	35.510	329.790	6491.86	-1014.95	-1946.95	-2509.47	1688924.13	14362084.31	39°32'58.4911"N	80°49'40.5135"W	3176.16	232.194	0.25	-0.02	0.43	
7594.00†	36.440	331.036	6505.61	-1005.13	-1938.26	-2514.40	1688919.20	14362092.99	39°32'58.5770"N	80°49'40.5762"W	3174.75	232.373	6.96	5.47	7.33	Sycamore: 7594' MD
7672.00	40.850	336.110	6566.54	-956.84	-1894.64	-2535.96	1688897.64	14362136.60	39°32'59.0085"N	80°49'40.8505"W	3165.56	233.236	6.96	5.65	6.51	
7737.00†	47.100	337.029	6613.29	-911.85	-1853.24	-2553.88	1688879.73	14362177.98	39°32'59.4180"N	80°49'41.0782"W	3155.44	234.033	9.66	9.61	1.41	Middlesex: 7737' MD
7766.00	49.890	337.380	6632.51	-890.18	-1833.22	-2562.29	1688871.32	14362197.99	39°32'59.6160"N	80°49'41.1851"W	3150.56	234.418	9.66	9.62	1.21	
7861.00	57.150	337.450	6688.95	-813.98	-1762.74	-2591.61	1688842.02	14362268.44	39°33'0.3132"N	80°49'41.5576"W	3134.27	235.778	7.64	7.64	0.07	
7898.00†	59.759	337.675	6708.31	-782.50	-1733.60	-2603.64	1688829.99	14362297.57	39°33'0.6014"N	80°49'41.7105"W	3127.99	236.343	7.07	7.05	0.61	Burkett: 7898' MD

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WV Department of
Environmental Protection



Actual Wellpath Report

Sprouse Unit 1H AWP Proj: 27543'
Page 5 of 14



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Sprouse Unit 1H
Field	Wetzel	API	47-103-03601-0000
Facility	Big Run Pad	Wellbore	Sprouse Unit 1H AWB
Slot	Slot E		

WELLPATH DATA (288 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
7933.00†	62.228	337.878	6725.28	-751.94	-1705.26	-2615.21	1688818.42	14362325.90	39°33'0.8817"N	80°49'41.8576"W	3122.06	236.893	7.07	7.05	0.58	Tully: 7933' MD
7955.00	63.780	338.000	6735.26	-732.36	-1687.10	-2622.58	1688811.06	14362344.06	39°33'1.0614"N	80°49'41.9512"W	3118.37	237.247	7.07	7.05	0.56	
8050.00	70.550	338.020	6772.11	-644.97	-1605.96	-2655.34	1688778.31	14362425.16	39°33'1.8639"N	80°49'42.3675"W	3103.21	238.834	7.13	7.13	0.02	
8103.00†	74.198	338.637	6788.15	-594.51	-1559.02	-2673.99	1688759.67	14362472.08	39°33'2.3281"N	80°49'42.6044"W	3095.28	239.756	6.97	6.88	1.16	Marcellus POE: 8103' MD
8145.00	77.090	339.110	6798.57	-553.85	-1521.07	-2688.65	1688745.01	14362510.01	39°33'2.7035"N	80°49'42.7906"W	3089.10	240.501	6.97	6.89	1.13	
8239.00	85.540	341.350	6812.75	-461.02	-1433.71	-2720.03	1688713.64	14362597.34	39°33'3.5675"N	80°49'43.1891"W	3074.75	242.207	9.29	8.99	2.38	
8334.00	90.580	340.740	6815.96	-366.11	-1343.94	-2750.86	1688682.82	14362687.08	39°33'4.4553"N	80°49'43.5805"W	3061.61	243.962	5.34	5.31	-0.64	
8429.00	90.920	342.000	6814.72	-271.12	-1253.93	-2781.21	1688652.49	14362777.05	39°33'5.3455"N	80°49'43.9657"W	3050.81	245.731	1.37	0.36	1.33	
8523.00	90.370	340.560	6813.66	-177.14	-1164.91	-2811.37	1688622.34	14362866.04	39°33'6.2258"N	80°49'44.3487"W	3043.16	247.493	1.64	-0.59	-1.53	
8618.00	91.420	340.810	6812.18	-82.15	-1075.27	-2842.79	1688590.93	14362955.64	39°33'7.1124"N	80°49'44.7476"W	3039.35	249.281	1.14	1.11	0.26	
8712.00	90.180	339.650	6810.87	11.83	-986.82	-2874.58	1688559.15	14363044.05	39°33'7.9871"N	80°49'45.1513"W	3039.25	251.053	1.81	-1.32	-1.23	
8807.00	90.550	341.320	6810.26	106.83	-897.28	-2906.32	1688527.43	14363133.56	39°33'8.8726"N	80°49'45.5542"W	3041.68	252.843	1.80	0.39	1.76	
8902.00	91.200	340.910	6808.81	201.81	-807.41	-2937.06	1688496.70	14363223.39	39°33'9.7615"N	80°49'45.9446"W	3046.02	254.629	0.81	0.68	-0.43	
8996.00	90.340	340.770	6807.55	295.80	-718.62	-2967.91	1688465.86	14363312.14	39°33'10.6395"N	80°49'46.3362"W	3053.67	256.389	0.93	-0.91	-0.15	
9091.00	90.400	341.120	6806.93	390.80	-628.83	-2998.92	1688434.86	14363401.90	39°33'11.5275"N	80°49'46.7300"W	3064.14	258.157	0.37	0.06	0.37	
9185.00	90.030	340.780	6806.58	484.80	-539.98	-3029.61	1688404.19	14363490.72	39°33'12.4063"N	80°49'47.1195"W	3077.35	259.894	0.53	-0.39	-0.36	
9280.00	90.000	341.810	6806.56	579.80	-450.00	-3060.07	1688373.74	14363580.66	39°33'13.2961"N	80°49'47.5063"W	3092.98	261.634	1.08	-0.03	1.08	
9374.00	90.180	341.010	6806.41	673.79	-360.90	-3090.04	1688343.79	14363669.72	39°33'14.1772"N	80°49'47.8867"W	3111.04	263.338	0.87	0.19	-0.85	
9469.00	89.970	342.830	6806.28	768.77	-270.60	-3119.52	1688314.32	14363759.99	39°33'15.0703"N	80°49'48.2609"W	3131.23	265.042	1.93	-0.22	1.92	
9563.00	90.280	341.640	6806.08	862.74	-181.08	-3148.20	1688285.65	14363849.47	39°33'15.9555"N	80°49'48.6249"W	3153.40	266.708	1.31	0.33	-1.27	
9658.00	90.340	341.340	6805.57	957.73	-91.00	-3178.36	1688255.50	14363939.52	39°33'16.8464"N	80°49'49.0078"W	3179.66	268.360	0.32	0.06	-0.32	
9752.00	89.630	341.600	6805.59	1051.72	-1.87	-3208.23	1688225.64	14364028.61	39°33'17.7278"N	80°49'49.3870"W	3208.23	269.967	0.80	-0.76	0.28	
9847.00	90.310	342.470	6805.64	1146.70	88.49	-3237.53	1688196.35	14364118.94	39°33'18.6215"N	80°49'49.7589"W	3238.74	271.566	1.16	0.72	0.92	
9941.00	90.340	341.560	6805.11	1240.68	177.90	-3266.56	1688167.34	14364208.31	39°33'19.5057"N	80°49'50.1273"W	3271.40	273.117	0.97	0.03	-0.97	
10036.00	90.250	341.630	6804.62	1335.67	268.04	-3296.55	1688137.36	14364298.41	39°33'20.3971"N	80°49'50.5081"W	3307.43	274.648	0.12	-0.09	0.07	
10131.00	90.490	342.600	6804.00	1430.64	358.44	-3325.72	1688108.19	14364388.78	39°33'21.2911"N	80°49'50.8784"W	3344.98	276.152	1.05	0.25	1.02	
10225.00	90.180	341.500	6803.45	1524.62	447.87	-3354.69	1688079.24	14364478.17	39°33'22.1754"N	80°49'51.2461"W	3384.46	277.604	1.22	-0.33	-1.17	
10320.00	89.970	340.040	6803.33	1619.62	537.56	-3385.98	1688047.96	14364567.83	39°33'23.0625"N	80°49'51.6434"W	3428.39	279.021	1.55	-0.22	-1.54	
10415.00	90.490	341.270	6802.95	1714.61	627.20	-3417.45	1688016.50	14364657.43	39°33'23.9490"N	80°49'52.0430"W	3474.53	280.400	1.41	0.55	1.29	
10509.00	90.340	340.490	6802.27	1808.61	716.01	-3448.24	1687985.73	14364746.20	39°33'24.8273"N	80°49'52.4339"W	3521.79	281.730	0.84	-0.16	-0.83	

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JUL 29 2024

Department of
Environmental Protection



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Page 6 of 14



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10604.00	90.370	340.640	6801.68	1903.61	805.59	-3479.85	1687954.13	14364835.75	39°33'25.7133"N	80°49'52.8354"W	3571.88	283.034	0.16	0.03	0.16	
10698.00	90.150	340.570	6801.25	1997.60	894.26	-3511.06	1687922.93	14364924.38	39°33'26.5901"N	80°49'53.2318"W	3623.16	284.289	0.25	-0.23	-0.07	
10792.00	90.280	340.710	6800.90	2091.60	982.94	-3542.22	1687891.78	14365013.03	39°33'27.4672"N	80°49'53.6275"W	3676.07	285.509	0.20	0.14	0.15	
10887.00	89.880	340.340	6800.77	2186.60	1072.51	-3573.90	1687860.12	14365102.56	39°33'28.3530"N	80°49'54.0297"W	3731.35	286.704	0.57	-0.42	-0.39	
10981.00	90.400	340.490	6800.54	2280.60	1161.07	-3605.40	1687828.62	14365191.08	39°33'29.2288"N	80°49'54.4299"W	3787.75	287.850	0.58	0.55	0.16	
11075.00	90.520	340.650	6799.78	2374.59	1249.71	-3636.67	1687797.37	14365279.69	39°33'30.1055"N	80°49'54.8270"W	3845.41	288.965	0.21	0.13	0.17	
11170.00	89.970	340.180	6799.38	2469.59	1339.21	-3668.52	1687765.54	14365369.16	39°33'30.9907"N	80°49'55.2314"W	3905.32	290.055	0.76	-0.58	-0.49	
11264.00	89.940	340.010	6799.45	2563.58	1427.60	-3700.52	1687733.55	14365457.51	39°33'31.8648"N	80°49'55.6379"W	3966.34	291.096	0.18	-0.03	-0.18	
11359.00	90.250	340.690	6799.29	2658.58	1517.06	-3732.47	1687701.61	14365546.94	39°33'32.7496"N	80°49'56.0437"W	4028.99	292.119	0.79	0.33	0.72	
11453.00	90.340	340.230	6798.81	2752.57	1605.65	-3763.91	1687670.19	14365635.49	39°33'33.6257"N	80°49'56.4430"W	4092.08	293.103	0.50	0.10	-0.49	
11548.00	90.340	340.780	6798.24	2847.57	1695.20	-3795.61	1687638.50	14365725.00	39°33'34.5113"N	80°49'56.8456"W	4156.96	294.067	0.58	0.00	0.58	
11642.00	90.980	340.550	6797.16	2941.56	1783.89	-3826.73	1687607.39	14365813.66	39°33'35.3885"N	80°49'57.2408"W	4222.10	294.993	0.72	0.68	-0.24	
11736.00	90.370	340.980	6796.05	3035.56	1872.64	-3857.69	1687576.44	14365902.37	39°33'36.2661"N	80°49'57.6341"W	4288.19	295.893	0.79	-0.65	0.46	
11831.00	90.400	340.390	6795.42	3130.55	1962.29	-3889.12	1687545.03	14365991.99	39°33'37.1527"N	80°49'58.0331"W	4356.12	296.774	0.62	0.03	-0.62	
11925.00	90.310	340.480	6794.83	3224.55	2050.86	-3920.59	1687513.56	14366080.52	39°33'38.0287"N	80°49'58.4329"W	4424.60	297.614	0.14	-0.10	0.10	
12019.00	90.370	340.660	6794.28	3318.55	2139.50	-3951.86	1687482.30	14366169.13	39°33'38.9054"N	80°49'58.8301"W	4493.85	298.431	0.20	0.06	0.19	
12113.00	90.400	340.520	6793.64	3412.54	2228.16	-3983.10	1687451.08	14366257.75	39°33'39.7821"N	80°49'59.2268"W	4563.97	299.223	0.15	0.03	-0.15	
12207.00	90.340	340.470	6793.04	3506.54	2316.76	-4014.49	1687419.71	14366346.32	39°33'40.6584"N	80°49'59.6254"W	4635.03	299.989	0.08	-0.06	-0.05	
12301.00	90.770	340.530	6792.13	3600.53	2405.37	-4045.86	1687388.34	14366434.89	39°33'41.5347"N	80°50'0.0239"W	4706.89	300.733	0.46	0.46	0.06	
12395.00	90.680	340.590	6790.94	3694.53	2494.00	-4077.14	1687357.07	14366523.49	39°33'42.4112"N	80°50'0.4213"W	4779.45	301.454	0.12	-0.10	0.06	
12489.00	90.430	340.570	6790.03	3788.52	2582.65	-4108.40	1687325.83	14366612.10	39°33'43.2879"N	80°50'0.8182"W	4852.73	302.155	0.27	-0.27	-0.02	
12583.00	90.680	342.400	6789.12	3882.51	2671.78	-4138.24	1687296.00	14366701.19	39°33'44.1693"N	80°50'1.1972"W	4925.79	302.848	1.96	0.27	1.95	
12678.00	90.860	340.530	6787.84	3977.49	2761.84	-4168.44	1687265.81	14366791.21	39°33'45.0600"N	80°50'1.5806"W	5000.36	303.527	1.98	0.19	-1.97	
12772.00	90.460	340.820	6786.76	4071.48	2850.53	-4199.54	1687234.72	14366879.88	39°33'45.9372"N	80°50'1.9757"W	5075.60	304.168	0.53	-0.43	0.31	
12867.00	90.680	339.380	6785.81	4166.47	2939.85	-4231.88	1687202.40	14366969.16	39°33'46.8205"N	80°50'2.3864"W	5152.82	304.787	1.53	0.23	-1.52	
12961.00	90.650	341.000	6784.72	4260.45	3028.28	-4263.73	1687170.56	14367057.55	39°33'47.6951"N	80°50'2.7910"W	5229.71	305.384	1.72	-0.03	1.72	
13056.00	90.060	340.630	6784.13	4355.45	3118.00	-4294.95	1687139.35	14367147.24	39°33'48.5824"N	80°50'3.1875"W	5307.40	305.979	0.73	-0.62	-0.39	
13150.00	90.490	340.560	6783.68	4449.45	3206.66	-4326.18	1687108.14	14367235.86	39°33'49.4592"N	80°50'3.5842"W	5385.03	306.547	0.46	0.46	-0.07	
13245.00	90.310	340.590	6783.02	4544.44	3296.25	-4357.77	1687076.56	14367325.42	39°33'50.3452"N	80°50'3.9855"W	5464.02	307.104	0.19	-0.19	0.03	
13339.00	90.430	340.290	6782.41	4638.44	3384.83	-4389.24	1687045.10	14367413.96	39°33'51.2212"N	80°50'4.3852"W	5542.79	307.638	0.34	0.13	-0.32	

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Department of
Environmental Protection



Actual Wellpath Report

Sprouse Unit 1H AWP Proj: 27543'
Page 7 of 14



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Sprouse Unit 1H
Field	Wetzel	API	47-103-03601-0000
Facility	Big Run Pad	Wellbore	Sprouse Unit 1H AWB
Slot	Slot E		

WELLPATH DATA (288 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	
13434.00	90.770	341.050	6781.42	4733.43	3474.47	-4420.69	1687013.67	14367503.56	39°33'52.1077"N	80°50'4.7846"W	5622.67	308.166	0.88	0.36	0.80		
13528.00	89.970	339.830	6780.81	4827.42	3563.04	-4452.16	1686982.21	14367592.10	39°33'52.9836"N	80°50'5.1844"W	5702.36	308.670	1.55	-0.85	-1.30		
13623.00	90.550	340.410	6780.38	4922.42	3652.37	-4484.46	1686949.92	14367681.40	39°33'53.8671"N	80°50'5.5947"W	5783.62	309.161	0.86	0.61	0.61		
13717.00	90.120	340.580	6779.83	5016.41	3740.98	-4515.85	1686918.55	14367769.96	39°33'54.7434"N	80°50'5.9934"W	5864.11	309.639	0.49	-0.46	0.18		
13812.00	90.710	340.630	6779.14	5111.41	3830.58	-4547.39	1686887.01	14367859.54	39°33'55.6296"N	80°50'6.3941"W	5945.77	310.110	0.62	0.62	0.05		
13907.00	90.490	340.350	6778.15	5206.40	3920.12	-4579.12	1686855.30	14367949.04	39°33'56.5151"N	80°50'6.7971"W	6027.91	310.566	0.37	-0.23	-0.29		
14001.00	90.650	340.680	6777.21	5300.40	4008.74	-4610.47	1686823.96	14368037.62	39°33'57.3914"N	80°50'7.1954"W	6109.53	311.006	0.39	0.17	0.35		
14096.00	90.580	340.520	6776.19	5395.39	4098.34	-4642.02	1686792.42	14368127.18	39°33'58.2775"N	80°50'7.5962"W	6192.31	311.441	0.18	-0.07	-0.17		
14191.00	90.090	340.280	6775.63	5490.38	4187.83	-4673.89	1686760.56	14368216.64	39°33'59.1626"N	80°50'8.0010"W	6275.60	311.861	0.57	-0.52	-0.25		
14286.00	90.340	340.350	6775.28	5585.38	4277.28	-4705.89	1686728.58	14368306.05	39°34'0.0472"N	80°50'8.4075"W	6359.29	312.268	0.27	0.26	0.07		
14380.00	90.520	340.880	6774.57	5679.38	4365.95	-4737.09	1686697.39	14368394.68	39°34'0.9241"N	80°50'8.8039"W	6442.17	312.665	0.60	0.19	0.56		
14475.00	90.280	340.370	6773.91	5774.37	4455.56	-4768.61	1686665.89	14368484.27	39°34'1.8104"N	80°50'9.2042"W	6526.23	313.056	0.59	-0.25	-0.54		
14664.00	90.400	340.600	6772.79	5963.37	4633.70	-4831.74	1686602.78	14368662.33	39°34'3.5721"N	80°50'10.0062"W	6694.54	313.801	0.14	0.06	0.12		
14758.00	90.310	340.720	6772.21	6057.36	4722.40	-4862.87	1686571.66	14368750.99	39°34'4.4492"N	80°50'10.4016"W	6778.54	314.160	0.16	-0.10	0.13		
14853.00	90.370	340.400	6771.64	6152.36	4811.98	-4894.49	1686540.06	14368840.54	39°34'5.3352"N	80°50'10.8033"W	6863.76	314.513	0.34	0.06	-0.34		
14947.00	90.280	340.330	6771.11	6246.36	4900.51	-4926.07	1686508.48	14368929.04	39°34'6.2107"N	80°50'11.2046"W	6948.47	314.851	0.12	-0.10	-0.07		
15041.00	90.120	340.510	6770.78	6340.35	4989.08	-4957.57	1686476.99	14369017.56	39°34'7.0866"N	80°50'11.6048"W	7033.38	315.181	0.26	-0.17	0.19		
15135.00	90.180	340.780	6770.53	6434.35	5077.76	-4988.73	1686445.85	14369106.22	39°34'7.9637"N	80°50'12.0005"W	7118.36	315.507	0.29	0.06	0.29		
15324.00	90.400	340.550	6769.58	6623.35	5256.10	-5051.30	1686383.30	14369284.48	39°34'9.7273"N	80°50'12.7954"W	7289.87	316.138	0.17	0.12	-0.12		
15419.00	90.280	340.720	6769.01	6718.35	5345.72	-5082.80	1686351.81	14369374.07	39°34'10.6137"N	80°50'13.1956"W	7376.43	316.444	0.22	-0.13	0.18		
15514.00	90.250	340.800	6768.57	6813.35	5435.42	-5114.11	1686320.52	14369463.73	39°34'11.5007"N	80°50'13.5933"W	7463.10	316.745	0.09	-0.03	0.08		
15608.00	90.490	340.600	6767.97	6907.34	5524.13	-5145.18	1686289.47	14369552.41	39°34'12.3780"N	80°50'13.9879"W	7549.10	317.034	0.33	0.26	-0.21		
15703.00	90.090	340.560	6767.49	7002.34	5613.73	-5176.76	1686257.89	14369641.97	39°34'13.2641"N	80°50'14.3892"W	7636.28	317.319	0.42	-0.42	-0.04		
15798.00	90.460	340.570	6767.03	7097.34	5703.31	-5208.37	1686226.30	14369731.52	39°34'14.1501"N	80°50'14.7908"W	7723.66	317.597	0.39	0.39	0.01		
15892.00	90.430	340.850	6766.30	7191.34	5792.03	-5239.42	1686195.26	14369820.20	39°34'15.0274"N	80°50'15.1852"W	7810.20	317.868	0.30	-0.03	0.30		
15987.00	90.120	340.600	6765.85	7286.33	5881.71	-5270.78	1686163.91	14369909.84	39°34'15.9143"N	80°50'15.5836"W	7897.82	318.135	0.42	-0.33	-0.26		
16081.00	90.090	340.390	6765.67	7380.33	5970.31	-5302.17	1686132.54	14369998.41	39°34'16.7905"N	80°50'15.9824"W	7984.84	318.392	0.23	-0.03	-0.22		
16175.00	90.090	340.470	6765.53	7474.33	6058.88	-5333.65	1686101.06	14370086.94	39°34'17.6665"N	80°50'16.3824"W	8072.04	318.642	0.09	0.00	0.09		
16270.00	89.970	340.630	6765.48	7569.33	6148.46	-5365.29	1686069.44	14370176.49	39°34'18.5523"N	80°50'16.7843"W	8160.26	318.891	0.21	-0.13	0.17		
16365.00	90.490	340.390	6765.09	7664.33	6238.01	-5396.98	1686037.76	14370266.01	39°34'19.4380"N	80°50'17.1870"W	8248.65	319.134	0.60	0.55	-0.25		

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Environmental Protection



Actual Wellpath Report

Sprouse Unit 1H AWP Proj: 27543'
Page 8 of 14



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Sprouse Unit 1H
Field	Wetzel	API	47-103-03601-0000
Facility	Big Run Pad	Wellbore	Sprouse Unit 1H AWB
Slot	Slot E		

WELLPATH DATA (288 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
16459.00	90.220	340.650	6764.51	7758.32	6326.63	-5428.33	1686006.43	14370354.59	39°34'20.3144"N	80°50'17.5852"W	8336.25	319.370	0.40	-0.29	0.28	
16554.00	90.090	340.250	6764.25	7853.32	6416.15	-5460.12	1685974.65	14370444.07	39°34'21.1997"N	80°50'17.9891"W	8424.96	319.602	0.44	-0.14	-0.42	
16648.00	89.910	341.010	6764.25	7947.32	6504.83	-5491.30	1685943.49	14370532.72	39°34'22.0767"N	80°50'18.3852"W	8512.77	319.829	0.83	-0.19	0.81	
16743.00	89.880	340.860	6764.43	8042.32	6594.62	-5522.33	1685912.47	14370622.47	39°34'22.9647"N	80°50'18.7794"W	8601.46	320.057	0.16	-0.03	-0.16	
16837.00	89.690	340.560	6764.78	8136.32	6683.34	-5553.38	1685881.43	14370711.16	39°34'23.8421"N	80°50'19.1740"W	8689.48	320.276	0.38	-0.20	-0.32	
16932.00	89.600	340.370	6765.37	8231.31	6772.87	-5585.14	1685849.67	14370800.65	39°34'24.7275"N	80°50'19.5776"W	8778.71	320.490	0.22	-0.09	-0.20	
17026.00	89.780	340.500	6765.88	8325.31	6861.45	-5616.62	1685818.21	14370889.19	39°34'25.6034"N	80°50'19.9775"W	8867.12	320.697	0.24	0.19	0.14	
17121.00	89.780	340.260	6766.24	8420.31	6950.93	-5648.52	1685786.32	14370978.64	39°34'26.4884"N	80°50'20.3828"W	8956.63	320.902	0.25	0.00	-0.25	
17215.00	90.120	340.120	6766.33	8514.30	7039.37	-5680.38	1685754.48	14371067.04	39°34'27.3630"N	80°50'20.7876"W	9045.41	321.098	0.39	0.36	-0.15	
17404.00	89.850	341.260	6766.37	8703.30	7217.73	-5742.88	1685692.01	14371245.33	39°34'29.1269"N	80°50'21.5817"W	9223.68	321.492	0.62	-0.14	0.60	
17498.00	89.850	341.640	6766.62	8797.29	7306.85	-5772.78	1685662.11	14371334.41	39°34'30.0082"N	80°50'21.9615"W	9312.09	321.689	0.40	0.00	0.40	
17592.00	89.820	341.300	6766.89	8891.28	7395.97	-5802.65	1685632.25	14371423.50	39°34'30.8895"N	80°50'22.3410"W	9400.60	321.883	0.36	-0.03	-0.36	
17781.00	89.910	341.650	6767.34	9080.27	7575.18	-5862.70	1685572.23	14371602.64	39°34'32.6617"N	80°50'23.1038"W	9578.86	322.262	0.19	0.05	0.19	
17875.00	89.780	341.550	6767.59	9174.26	7664.37	-5892.37	1685542.57	14371691.79	39°34'33.5438"N	80°50'23.4806"W	9667.61	322.447	0.17	-0.14	-0.11	
17970.00	89.720	341.410	6768.01	9269.25	7754.45	-5922.55	1685512.41	14371781.84	39°34'34.4346"N	80°50'23.8640"W	9757.46	322.629	0.16	-0.06	-0.15	
18065.00	89.940	341.430	6768.29	9364.25	7844.50	-5952.82	1685482.15	14371871.85	39°34'35.3251"N	80°50'24.2485"W	9847.45	322.807	0.23	0.23	0.02	
18159.00	89.420	341.220	6768.81	9458.24	7933.55	-5982.92	1685452.06	14371960.86	39°34'36.2057"N	80°50'24.6308"W	9936.62	322.979	0.60	-0.55	-0.22	
18253.00	90.030	341.750	6769.26	9552.24	8022.68	-6012.76	1685422.22	14372049.96	39°34'37.0871"N	80°50'25.0100"W	10025.80	323.150	0.86	0.65	0.56	
18348.00	89.910	341.380	6769.31	9647.23	8112.81	-6042.81	1685392.19	14372140.05	39°34'37.9784"N	80°50'25.3916"W	10115.98	323.319	0.41	-0.13	-0.39	
18442.00	89.820	341.350	6769.54	9741.22	8201.88	-6072.84	1685362.17	14372229.09	39°34'38.8592"N	80°50'25.7732"W	10205.40	323.483	0.10	-0.10	-0.03	
18536.00	89.970	341.610	6769.71	9835.22	8291.01	-6102.70	1685332.32	14372318.18	39°34'39.7407"N	80°50'26.1525"W	10294.84	323.645	0.32	0.16	0.28	
18631.00	90.250	341.650	6769.52	9930.21	8381.17	-6132.64	1685302.40	14372408.30	39°34'40.6323"N	80°50'26.5328"W	10385.24	323.806	0.30	0.29	0.04	
18819.00	90.370	341.730	6768.51	10118.18	8559.65	-6191.70	1685243.36	14372586.71	39°34'42.3972"N	80°50'27.2830"W	10564.31	324.120	0.08	0.06	0.04	
18914.00	90.030	341.270	6768.18	10213.18	8649.74	-6221.84	1685213.23	14372676.77	39°34'43.2881"N	80°50'27.6660"W	10655.01	324.272	0.60	-0.36	-0.48	
19008.00	90.220	341.430	6767.97	10307.17	8738.80	-6251.90	1685183.18	14372765.79	39°34'44.1689"N	80°50'28.0479"W	10744.90	324.419	0.26	0.20	0.17	
19103.00	90.340	341.270	6767.51	10402.17	8828.81	-6282.28	1685152.81	14372855.77	39°34'45.0590"N	80°50'28.4338"W	10835.82	324.566	0.21	0.13	-0.17	
19197.00	90.150	341.380	6767.10	10496.16	8917.86	-6312.38	1685122.73	14372944.78	39°34'45.9396"N	80°50'28.8162"W	10925.86	324.708	0.23	-0.20	0.12	
19292.00	89.970	341.140	6767.01	10591.16	9007.83	-6342.90	1685092.22	14373034.71	39°34'46.8293"N	80°50'29.2040"W	11016.96	324.849	0.32	-0.19	-0.25	
19386.00	90.370	341.520	6766.73	10685.16	9096.88	-6372.99	1685062.14	14373123.73	39°34'47.7100"N	80°50'29.5863"W	11107.13	324.986	0.59	0.43	0.40	
19576.00	90.340	341.410	6765.55	10875.14	9277.02	-6433.39	1685001.77	14373303.80	39°34'49.4914"N	80°50'30.3536"W	11289.45	325.260	0.06	-0.02	-0.06	

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Actual Wellpath Report

Sprouse Unit 1H AWP Proj: 27543'
Page 9 of 14



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Sprouse Unit 1H
Field	Wetzel	API	47-103-03601-0000
Facility	Big Run Pad	Wellbore	Sprouse Unit 1H AWB
Slot	Slot E		

WELLPATH DATA (288 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
19670.00	90.370	340.820	6764.97	10969.14	9365.96	-6463.81	1684971.35	14373392.70	39°34'50.3709"N	80°50'30.7401"W	11379.90	325.389	0.63	0.03	-0.63	
19765.00	90.150	341.520	6764.54	11064.13	9455.87	-6494.48	1684940.71	14373482.58	39°34'51.2601"N	80°50'31.1297"W	11471.34	325.518	0.77	-0.23	0.74	
19859.00	90.250	341.370	6764.21	11158.13	9544.98	-6524.39	1684910.80	14373571.66	39°34'52.1413"N	80°50'31.5097"W	11561.76	325.646	0.19	0.11	-0.16	
19953.00	90.400	341.700	6763.67	11252.12	9634.14	-6554.16	1684881.05	14373660.78	39°34'53.0230"N	80°50'31.8880"W	11652.20	325.772	0.39	0.16	0.35	
20048.00	90.030	341.390	6763.32	11347.11	9724.26	-6584.23	1684850.98	14373750.86	39°34'53.9141"N	80°50'32.2700"W	11743.65	325.898	0.51	-0.39	-0.33	
20237.00	90.090	341.710	6763.12	11536.10	9903.54	-6644.05	1684791.19	14373930.07	39°34'55.6871"N	80°50'33.0299"W	11925.75	326.143	0.17	0.03	0.17	
20331.00	90.150	341.480	6762.92	11630.09	9992.73	-6673.73	1684761.53	14374019.23	39°34'56.5691"N	80°50'33.4070"W	12016.38	326.263	0.25	0.06	-0.24	
20520.00	90.180	341.370	6762.38	11819.08	10171.89	-6733.93	1684701.35	14374198.31	39°34'58.3408"N	80°50'34.1719"W	12198.90	326.495	0.06	0.02	-0.06	
20615.00	90.400	341.370	6761.90	11914.07	10261.91	-6764.28	1684671.01	14374288.29	39°34'59.2310"N	80°50'34.5575"W	12290.74	326.609	0.23	0.23	0.00	
20709.00	90.340	340.370	6761.29	12008.07	10350.71	-6795.08	1684640.22	14374377.06	39°35'0.1092"N	80°50'34.9490"W	12381.86	326.716	1.07	-0.06	-1.06	
20804.00	89.940	340.390	6761.06	12103.06	10440.20	-6826.98	1684608.33	14374466.51	39°35'0.9941"N	80°50'35.3544"W	12474.19	326.819	0.42	-0.42	0.02	
20899.00	89.480	339.990	6761.54	12198.06	10529.57	-6859.18	1684576.15	14374555.85	39°35'1.8780"N	80°50'35.7636"W	12566.63	326.919	0.64	-0.48	-0.42	
20993.00	90.430	340.060	6761.61	12292.05	10617.92	-6891.29	1684544.05	14374644.16	39°35'2.7517"N	80°50'36.1717"W	12658.20	327.015	1.01	1.01	0.07	
21088.00	90.180	340.280	6761.11	12387.04	10707.28	-6923.51	1684511.84	14374733.49	39°35'3.6355"N	80°50'36.5814"W	12750.72	327.113	0.35	-0.26	0.23	
21182.00	90.090	340.560	6760.89	12481.03	10795.85	-6955.02	1684480.35	14374822.02	39°35'4.5113"N	80°50'36.9817"W	12842.22	327.209	0.31	-0.10	0.30	
21277.00	89.880	340.450	6760.91	12576.03	10885.40	-6986.72	1684448.66	14374911.54	39°35'5.3969"N	80°50'37.3847"W	12934.69	327.306	0.25	-0.22	-0.12	
21371.00	90.280	337.860	6760.78	12669.98	10973.24	-7020.17	1684415.23	14374999.34	39°35'6.2656"N	80°50'37.8099"W	13026.69	327.391	2.79	0.43	-2.76	
21466.00	90.280	340.500	6760.32	12764.94	11062.03	-7053.93	1684381.48	14375088.10	39°35'7.1437"N	80°50'38.2392"W	13119.69	327.476	2.78	0.00	2.78	
21561.00	90.120	340.390	6759.98	12859.93	11151.55	-7085.73	1684349.69	14375177.58	39°35'8.0290"N	80°50'38.6433"W	13212.29	327.568	0.20	-0.17	-0.12	
21655.00	90.000	340.450	6759.89	12953.93	11240.11	-7117.23	1684318.20	14375266.11	39°35'8.9049"N	80°50'39.0437"W	13303.95	327.658	0.14	-0.13	0.06	
21844.00	89.940	340.230	6759.98	13142.92	11418.10	-7180.81	1684254.64	14375444.02	39°35'10.6650"N	80°50'39.8519"W	13488.40	327.834	0.12	-0.03	-0.12	
21939.00	90.030	340.210	6760.01	13237.92	11507.49	-7212.96	1684222.51	14375533.38	39°35'11.5490"N	80°50'40.2606"W	13581.21	327.920	0.10	0.09	-0.02	
22033.00	90.000	340.450	6759.98	13331.91	11596.01	-7244.60	1684190.88	14375621.86	39°35'12.4244"N	80°50'40.6628"W	13673.03	328.005	0.26	-0.03	0.26	
22128.00	90.030	340.310	6759.96	13426.91	11685.49	-7276.50	1684158.99	14375711.31	39°35'13.3093"N	80°50'41.0682"W	13765.83	328.090	0.15	0.03	-0.15	
22317.00	90.400	340.360	6759.25	13615.90	11863.46	-7340.10	1684095.41	14375889.21	39°35'15.0694"N	80°50'41.8767"W	13950.59	328.254	0.20	0.20	0.03	
22411.00	90.310	340.240	6758.67	13709.90	11951.96	-7371.79	1684063.74	14375977.67	39°35'15.9445"N	80°50'42.2794"W	14042.53	328.334	0.16	-0.10	-0.13	
22506.00	90.490	340.460	6758.01	13804.89	12041.43	-7403.74	1684031.81	14376067.10	39°35'16.8293"N	80°50'42.6855"W	14135.46	328.414	0.30	0.19	0.23	
22600.00	90.370	340.580	6757.30	13898.89	12130.04	-7435.08	1684000.48	14376155.68	39°35'17.7056"N	80°50'43.0839"W	14227.38	328.494	0.18	-0.13	0.13	
22695.00	90.250	340.190	6756.79	13993.88	12219.53	-7466.97	1683968.60	14376245.13	39°35'18.5906"N	80°50'43.4893"W	14320.35	328.572	0.43	-0.13	-0.41	
22789.00	90.310	340.240	6756.33	14087.88	12307.98	-7498.79	1683936.79	14376333.55	39°35'19.4653"N	80°50'43.8938"W	14412.43	328.648	0.08	0.06	0.05	

Department of Environmental Protection

JUL 29 2024

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Actual Wellpath Report

Sprouse Unit 1H AWP Proj: 27543'
Page 10 of 14



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Sprouse Unit 1H
Field	Wetzel	API	47-103-03601-0000
Facility	Big Run Pad	Wellbore	Sprouse Unit 1H AWB
Slot	Slot E		

WELLPATH DATA (288 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
22979.00	90.430	340.290	6755.10	14277.86	12486.82	-7562.95	1683872.66	14376512.31	39°35'21.2339"N	80°50'44.7093"W	14598.59	328.798	0.07	0.06	0.03	
23073.00	90.800	340.350	6754.09	14371.85	12575.32	-7594.60	1683841.02	14376600.78	39°35'22.1091"N	80°50'45.1117"W	14690.70	328.871	0.40	0.39	0.06	
23168.00	90.280	340.350	6753.20	14466.85	12664.78	-7626.54	1683809.09	14376690.21	39°35'22.9938"N	80°50'45.5178"W	14783.81	328.944	0.55	-0.55	0.00	
23262.00	90.310	340.400	6752.71	14560.84	12753.32	-7658.12	1683777.53	14376778.71	39°35'23.8694"N	80°50'45.9191"W	14875.95	329.016	0.06	0.03	0.05	
23357.00	90.430	340.790	6752.10	14655.84	12842.92	-7689.68	1683745.98	14376868.28	39°35'24.7555"N	80°50'46.3203"W	14969.03	329.089	0.43	0.13	0.41	
23546.00	90.370	340.070	6750.78	14844.83	13021.00	-7752.98	1683682.70	14377046.28	39°35'26.5165"N	80°50'47.1250"W	15154.38	329.230	0.38	-0.03	-0.38	
23640.00	90.490	340.040	6750.07	14938.82	13109.36	-7785.05	1683650.65	14377134.61	39°35'27.3903"N	80°50'47.5327"W	15246.71	329.296	0.13	0.13	-0.03	
23829.00	90.490	339.630	6748.46	15127.78	13286.77	-7850.20	1683585.52	14377311.95	39°35'29.1448"N	80°50'48.3610"W	15432.56	329.424	0.22	0.00	-0.22	
23924.00	90.740	339.360	6747.44	15222.75	13375.74	-7883.47	1683552.26	14377400.89	39°35'30.0247"N	80°50'48.7841"W	15526.10	329.486	0.39	0.26	-0.28	
24018.00	90.490	340.410	6746.43	15316.73	13464.00	-7915.80	1683519.95	14377489.11	39°35'30.8976"N	80°50'49.1951"W	15618.55	329.548	1.15	-0.27	1.12	
24113.00	90.580	341.220	6745.54	15411.72	13553.72	-7947.02	1683488.75	14377578.79	39°35'31.7848"N	80°50'49.5919"W	15711.73	329.615	0.86	0.09	0.85	
24207.00	90.490	341.360	6744.66	15505.72	13642.75	-7977.17	1683458.61	14377667.79	39°35'32.6652"N	80°50'49.9751"W	15803.79	329.684	0.18	-0.10	0.15	
24302.00	90.460	341.380	6743.88	15600.71	13732.77	-8007.51	1683428.27	14377757.77	39°35'33.5554"N	80°50'50.3608"W	15896.83	329.754	0.04	-0.03	0.02	
24396.00	90.310	341.250	6743.24	15694.70	13821.81	-8037.63	1683398.17	14377846.78	39°35'34.4359"N	80°50'50.7435"W	15988.93	329.821	0.21	-0.16	-0.14	
24491.00	90.400	341.460	6742.66	15789.70	13911.83	-8068.00	1683367.81	14377936.75	39°35'35.3260"N	80°50'51.1295"W	16082.02	329.889	0.24	0.09	0.22	
24586.00	90.250	341.260	6742.12	15884.69	14001.84	-8098.36	1683337.46	14378026.73	39°35'36.2162"N	80°50'51.5154"W	16175.14	329.956	0.26	-0.16	-0.21	
24680.00	90.280	341.310	6741.68	15978.69	14090.87	-8128.52	1683307.31	14378115.73	39°35'37.0966"N	80°50'51.8988"W	16267.31	330.021	0.06	0.03	0.05	
24774.00	90.430	341.370	6741.10	16072.68	14179.93	-8158.60	1683277.25	14378204.75	39°35'37.9772"N	80°50'52.2810"W	16359.49	330.085	0.17	0.16	0.06	
24868.00	90.460	341.200	6740.37	16166.68	14268.95	-8188.76	1683247.10	14378293.74	39°35'38.8576"N	80°50'52.6644"W	16451.71	330.149	0.18	0.03	-0.18	
24962.00	90.250	341.260	6739.79	16260.67	14357.95	-8219.00	1683216.87	14378382.70	39°35'39.7377"N	80°50'53.0488"W	16543.97	330.212	0.23	-0.22	0.06	
25057.00	90.310	341.390	6739.32	16355.67	14447.95	-8249.42	1683186.46	14378472.67	39°35'40.6277"N	80°50'53.4354"W	16637.19	330.275	0.15	0.06	0.14	
25151.00	90.400	341.250	6738.74	16449.66	14537.00	-8279.53	1683156.37	14378561.68	39°35'41.5083"N	80°50'53.8181"W	16729.46	330.336	0.18	0.10	-0.15	
25246.00	90.460	341.400	6738.03	16544.66	14626.99	-8309.95	1683125.96	14378651.64	39°35'42.3982"N	80°50'54.2047"W	16822.73	330.398	0.17	0.06	0.16	
25340.00	90.400	341.400	6737.32	16638.65	14716.08	-8339.93	1683095.99	14378740.69	39°35'43.2792"N	80°50'54.5858"W	16915.01	330.459	0.06	-0.06	0.00	
25435.00	89.600	341.010	6737.32	16733.65	14806.01	-8370.53	1683065.40	14378830.59	39°35'44.1685"N	80°50'54.9748"W	17008.35	330.518	0.94	-0.84	-0.41	
25530.00	90.370	341.150	6737.35	16828.65	14895.88	-8401.34	1683034.60	14378920.42	39°35'45.0572"N	80°50'55.3664"W	17101.75	330.577	0.82	0.81	0.15	
25624.00	90.280	341.150	6736.81	16922.64	14984.84	-8431.71	1683004.25	14379009.34	39°35'45.9369"N	80°50'55.7524"W	17194.16	330.634	0.10	-0.10	0.00	
25718.00	90.580	341.410	6736.11	17016.64	15073.86	-8461.88	1682974.09	14379098.33	39°35'46.8172"N	80°50'56.1359"W	17286.55	330.692	0.42	0.32	0.28	
25812.00	90.180	341.120	6735.48	17110.63	15162.88	-8492.07	1682943.91	14379187.31	39°35'47.6975"N	80°50'56.5197"W	17378.96	330.749	0.53	-0.43	-0.31	
25906.00	90.400	341.160	6735.01	17204.63	15251.83	-8522.45	1682913.54	14379276.23	39°35'48.5771"N	80°50'56.9059"W	17471.42	330.804	0.24	0.23	0.04	

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Environmental Protection



Actual Wellpath Report

Sprouse Unit 1H AWP Proj: 27543'
Page 11 of 14



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Sprouse Unit 1H
Field	Wetzel	API	47-103-03601-0000
Facility	Big Run Pad	Wellbore	Sprouse Unit 1H AWB
Slot	Slot E		

WELLPATH DATA (288 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
26000.00	90.430	341.470	6734.33	17298.62	15340.87	-8552.57	1682883.44	14379365.23	39°35'49.4577"N	80°50'57.2887"W	17563.85	330.860	0.33	0.03	0.33	
26095.00	90.370	341.310	6733.66	17393.62	15430.90	-8582.88	1682853.13	14379455.23	39°35'50.3480"N	80°50'57.6740"W	17657.26	330.917	0.18	-0.06	-0.17	
26189.00	90.220	341.130	6733.18	17487.61	15519.90	-8613.14	1682822.88	14379544.19	39°35'51.2280"N	80°50'58.0587"W	17749.75	330.971	0.25	-0.16	-0.19	
26283.00	90.000	341.620	6733.00	17581.61	15608.98	-8643.16	1682792.87	14379633.23	39°35'52.1089"N	80°50'58.4403"W	17842.21	331.025	0.57	-0.23	0.52	
26377.00	90.180	341.420	6732.85	17675.60	15698.13	-8672.96	1682763.09	14379722.34	39°35'52.9905"N	80°50'58.8190"W	17934.64	331.080	0.29	0.19	-0.21	
26472.00	90.000	341.280	6732.70	17770.60	15788.14	-8703.34	1682732.72	14379812.32	39°35'53.8806"N	80°50'59.2052"W	18028.13	331.134	0.24	-0.19	-0.15	
26566.00	90.550	341.550	6732.25	17864.59	15877.24	-8733.30	1682702.78	14379901.38	39°35'54.7616"N	80°50'59.5860"W	18120.63	331.187	0.65	0.59	0.29	
26661.00	90.310	341.650	6731.54	17959.58	15967.38	-8763.28	1682672.80	14379991.49	39°35'55.6530"N	80°50'59.9672"W	18214.07	331.241	0.27	-0.25	0.11	
26755.00	90.000	341.530	6731.28	18053.57	16056.57	-8792.97	1682643.13	14380080.64	39°35'56.5350"N	80°51'0.3445"W	18306.55	331.294	0.35	-0.33	-0.13	
26850.00	89.910	341.390	6731.36	18148.56	16146.64	-8823.18	1682612.93	14380170.67	39°35'57.4256"N	80°51'0.7285"W	18400.06	331.346	0.18	-0.09	-0.15	
26944.00	90.120	340.590	6731.33	18242.56	16235.51	-8853.80	1682582.33	14380259.51	39°35'58.3045"N	80°51'1.1177"W	18492.74	331.395	0.88	0.22	-0.85	
27038.00	89.970	341.220	6731.26	18336.56	16324.34	-8884.55	1682551.59	14380348.30	39°35'59.1829"N	80°51'1.5087"W	18585.45	331.443	0.69	-0.16	0.67	
27227.00	89.940	341.260	6731.41	18525.56	16503.29	-8945.33	1682490.83	14380527.19	39°36'0.9526"N	80°51'2.2814"W	18771.72	331.541	0.03	-0.02	0.02	
27321.00	90.060	341.280	6731.41	18619.56	16592.32	-8975.51	1682460.66	14380616.18	39°36'1.8329"N	80°51'2.6651"W	18864.38	331.589	0.13	0.13	0.02	
27415.00	89.970	341.090	6731.38	18713.55	16681.29	-9005.83	1682430.35	14380705.12	39°36'2.7128"N	80°51'3.0505"W	18957.07	331.636	0.22	-0.10	-0.20	
27510.00	90.120	341.390	6731.31	18808.55	16771.25	-9036.38	1682399.81	14380795.03	39°36'3.6023"N	80°51'3.4389"W	19050.75	331.684	0.35	0.16	0.32	
27518.00	90.150	341.410	6731.29	18816.55	16778.83	-9038.93	1682397.26	14380802.61	39°36'3.6773"N	80°51'3.4714"W	19058.63	331.688	0.45	0.37	0.25	
27543.00†	90.150	341.410	6731.23	18841.55	16802.52	-9046.90	1682389.30	14380826.30	39°36'3.9116"N	80°51'3.5727"W	19083.27	331.701	0.00	0.00	0.00	Projected MD at TD: 27543'

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Actual Wellpath Report

Sprouse Unit 1H AWP Proj: 27543'
Page 12 of 14



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Sprouse Unit 1H
Field	Wetzel	API	47-103-03601-0000
Facility	Big Run Pad	Wellbore	Sprouse Unit 1H AWB
Slot	Slot E		

HOLE & CASING SECTIONS - Ref Wellbore: Sprouse Unit 1H AWB Ref Wellpath: Sprouse Unit 1H AWP Proj: 27543'									
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	-0.34	-0.56
17.5in Open Hole	130.00	385.00	255.00	130.00	384.99	-0.34	-0.56	-1.33	-0.04
13.375in Casing Surface	30.00	365.00	335.00	30.00	364.99	0.00	0.00	-1.18	-0.22
12.25in Open Hole	385.00	3914.00	3529.00	384.99	3433.70	-1.33	-0.04	-1227.47	-1114.61
9.625in Casing Intermediate	30.00	3885.00	3855.00	30.00	3409.15	0.00	0.00	-1216.02	-1104.24
8.75in Open Hole	3914.00	6107.00	2193.00	3433.70	5217.38	-1227.47	-1114.61	-2169.53	-1968.21
8.5in Open Hole	6107.00	27543.00	21436.00	5217.38	6731.23	-2169.53	-1968.21	16802.52	-9046.90
5.5in Casing Production	30.00	27523.00	27493.00	30.00	6731.28	0.00	0.00	16783.57	-9040.53

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Actual Wellpath Report

Sprouse Unit 1H AWP Proj: 27543'
Page 13 of 14



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Sprouse Unit 1H
Field	Wetzel	API	47-103-03601-0000
Facility	Big Run Pad	Wellbore	Sprouse Unit 1H AWB
Slot	Slot E		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Sprouse Unit 1H BHL Rev-4	6683.54	16810.52	-9057.88	1682378.32	14380834.29	39°36'3.9908"N	80°51'3.7128"W	point
Sprouse Unit 1H POE Rev-2	6785.00	-1860.62	-2566.37	1688867.24	14362170.60	39°32'59.3453"N	80°49'41.2379"W	point
Sprouse Unit 1H POE Rev-4	6790.00	-1572.98	-2666.38	1688767.27	14362458.13	39°33'2.1901"N	80°49'42.5076"W	point
Sprouse Unit 1H LP Rev-4	6818.00	-1380.89	-2733.16	1688700.52	14362650.14	39°33'4.0897"N	80°49'43.3555"W	point
Sprouse Unit 1H 50' L/R Hard Line	7000.00	7474.95	-5812.13	1685622.78	14371502.45	39°34'31.6702"N	80°50'22.4602"W	rectangle
2D Rectangle 19767.4 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Sprouse Unit 1H AWB Ref Wellpath: Sprouse Unit 1H AWP Proj: 27543'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	300.00	Gyrodata 2015 - GC+WR+DPIPE	01_Gyrodata MS Gyro <17-1/2"> (50'-300')	Sprouse Unit 1H AWB	10/21/2023
300.00	470.00	Gyrodata 2015 - GC+WR+DPIPE	02_Gyrodata MS Gyro <12-1/4"> (300')(400'-470')	Sprouse Unit 1H AWB	10/24/2023
470.00	3840.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03_APS EM <12-1/4"> (470')(501'-3840')	Sprouse Unit 1H AWB	10/21/2023
3840.00	6036.00	BH NaviTrak (2019) (Axial Corr+HRGM)	04_APS EM <8-3/4"> (3840')(3958'-6036')	Sprouse Unit 1H AWB	10/21/2023
6036.00	27543.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	05_BH AT Curve <8-1/2"> (6036')(6159'-27518')	Sprouse Unit 1H AWB	10/21/2023

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Actual Wellpath Report
 Sprouse Unit 1H AWP Proj: 27543'
 Page 14 of 14



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Sprouse Unit 1H
Field	Wetzel	API	47-103-03601-0000
Facility	Big Run Pad	Wellbore	Sprouse Unit 1H AWB
Slot	Slot E		

COMMENTS
<p>Wellpath general comments API: 47-103-03601-0000 BH Job #: 111994426 Rig: H&P 531 Duration: 10/22/2023-11/1/2023 Gyrodata MS Gyro <17-1/2"> (50'-300') Gyrodata MS Gyro <12-1/4"> (300')(400'-470') APS EM <12-1/4"> (470')(501'-3840') APS EM <8-3/4"> (3840')(3958'-6036') BH AT Curve <8-1/2"> (6036')(6159'-27518') Sycamore: 7594' MD Middlesex: 7737' MD Burkett: 7898' MD Tully: 7933' MD Marcellus POE: 8103' MD Projected MD at TD: 27543'</p>

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