



Actual Wellpath Report

Schrader Unit 1H AWP Proj: 17486'

Page 1 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #09
Area	Doddridge Co., WV	Well	Schrader Unit 1H
Field	Doddridge	Wellbore	Schrader Unit 1H AWB
Facility	Deets Pad		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 5.1
North Reference	Grid	User	Delaset
Scale	0.999607	Report Generated	8/12/2019 at 4:02:25 PM
Convergence at slot	0.17° East	Database/Source file	WA_MPL_EasternUS_Defn/Schrader_Unit_1H_AWP_Proj_17486_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-39.02	8.72	1718091.36	14276522.99	39°18'51.800"N	80°43'31.350"W
Facility Reference Pt			1718082.64	14276561.99	39°18'52.186"N	80°43'31.460"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.301"W

WELLPATH DATUM			
Calculation method	Minimum curvature		25.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Facility Vertical Datum	1401.50ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Mean Sea Level	25.50ft
MD Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot #09)	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Origin	342.43°
		Section Azimuth	



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Page 2 of 11



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Operator	ANTERO RESOURCES CORPORATION	Well	Schrader Unit 1H
Area	Doddridge Co., WV	Wellbore	Schrader Unit 1H AWB
Field	Doddridge		
Facility	Deets Pad		

WELLPATH DATA (212 stations) † = interpolated/extrapolated station																
MD ft	Inclination °	Azimuth °	TVD ft	Vert Sect ft	North ft	East ft	Grid East ft	Grid North ft	Latitude	Longitude	Closure Dist ft	Closure Dir °	DLS ft/100ft	Build Rate ft/100ft	Turn Rate ft/100ft	Comments
0.00H	0.000	117.240	0.00	0.00	0.00	0.00	1718091.36	14276522.99	39°18'51.800"N	80°43'31.350"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	117.240	25.50	0.00	0.00	0.00	1718091.36	14276522.99	39°18'51.800"N	80°43'31.350"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.560	117.240	100.00	-0.26	-0.17	0.32	1718091.68	14276522.82	39°18'51.798"N	80°43'31.346"W	0.36	117.240	0.75	0.75	157.37	Gyrodatta MS Gyro <17-1/2">(100-475')
125.00	0.460	111.130	125.00	-0.41	-0.26	0.53	1718091.89	14276522.73	39°18'51.797"N	80°43'31.343"W	0.59	116.196	0.45	-0.40	-24.44	
150.00	0.340	116.750	150.00	-0.52	-0.33	0.69	1718092.05	14276522.66	39°18'51.797"N	80°43'31.341"W	0.76	115.582	0.50	-0.48	22.48	
175.00	0.340	116.680	175.00	-0.62	-0.39	0.82	1718092.18	14276522.60	39°18'51.796"N	80°43'31.340"W	0.91	115.767	0.00	0.00	-0.28	
200.00	0.300	121.750	200.00	-0.72	-0.46	0.94	1718092.30	14276522.53	39°18'51.795"N	80°43'31.338"W	1.05	116.205	0.20	-0.16	20.28	
225.00	0.280	141.750	225.00	-0.83	-0.55	1.03	1718092.39	14276522.45	39°18'51.795"N	80°43'31.337"W	1.17	117.806	0.41	-0.08	80.00	
250.00	0.360	137.220	250.00	-0.96	-0.65	1.12	1718092.48	14276522.34	39°18'51.794"N	80°43'31.336"W	1.30	120.051	0.34	0.32	-18.12	
275.00	0.350	148.690	275.00	-1.11	-0.77	1.22	1718092.58	14276522.22	39°18'51.792"N	80°43'31.335"W	1.44	122.426	0.29	-0.04	45.88	
300.00	0.380	140.580	299.99	-1.26	-0.90	1.31	1718092.67	14276522.09	39°18'51.791"N	80°43'31.333"W	1.59	124.573	0.24	0.12	-32.44	
325.00	0.360	133.380	324.99	-1.40	-1.02	1.42	1718092.78	14276521.97	39°18'51.790"N	80°43'31.332"W	1.75	125.716	0.20	-0.08	-28.80	
350.00	0.290	137.920	349.99	-1.53	-1.12	1.52	1718092.88	14276521.87	39°18'51.789"N	80°43'31.331"W	1.89	126.439	0.30	-0.28	18.16	
375.00	0.210	154.060	374.99	-1.63	-1.21	1.58	1718092.94	14276521.78	39°18'51.788"N	80°43'31.330"W	1.99	127.413	0.42	-0.32	64.56	
400.00	0.250	213.540	399.99	-1.71	-1.30	1.57	1718092.93	14276521.69	39°18'51.787"N	80°43'31.330"W	2.04	129.521	0.92	0.16	237.92	
425.00	0.250	221.710	424.99	-1.77	-1.38	1.51	1718092.86	14276521.61	39°18'51.786"N	80°43'31.331"W	2.04	132.571	0.14	0.00	32.68	
450.00	0.160	174.590	449.99	-1.83	-1.46	1.47	1718092.83	14276521.53	39°18'51.786"N	80°43'31.331"W	2.07	134.725	0.73	-0.36	-188.48	
475.00	0.470	97.870	474.99	-1.91	-1.51	1.58	1718092.94	14276521.48	39°18'51.785"N	80°43'31.330"W	2.18	133.698	1.84	1.24	-306.88	
609.00	6.200	90.050	608.71	-4.34	-1.59	9.36	1718100.72	14276521.40	39°18'51.784"N	80°43'31.231"W	9.50	99.629	4.28	4.28	-5.84	APS EM <12-1/4">(475)(609-2614')
701.00	9.150	87.250	699.88	-7.72	-1.24	21.64	1718112.99	14276521.75	39°18'51.787"N	80°43'31.075"W	21.68	93.285	3.23	3.21	-3.04	
794.00	10.870	87.300	791.46	-11.86	-0.47	37.79	1718129.13	14276522.52	39°18'51.794"N	80°43'30.869"W	37.79	90.719	1.85	1.85	0.05	
889.00	12.660	85.140	884.46	-16.45	0.83	57.11	1718148.45	14276523.82	39°18'51.807"N	80°43'30.623"W	57.12	89.167	1.94	1.88	-2.27	
983.00	15.060	82.920	975.72	-20.94	3.21	79.50	1718170.82	14276526.20	39°18'51.829"N	80°43'30.338"W	79.56	87.689	2.61	2.55	-2.36	
1078.00	14.470	83.170	1067.58	-25.40	6.14	103.53	1718194.85	14276529.13	39°18'51.858"N	80°43'30.033"W	103.71	86.605	0.62	-0.62	0.26	
1173.00	14.110	91.970	1159.65	-31.48	7.15	126.89	1718218.20	14276530.14	39°18'51.867"N	80°43'29.735"W	127.09	86.773	2.32	-0.38	9.26	
1268.00	16.040	96.830	1251.38	-40.78	5.20	151.50	1718242.80	14276528.18	39°18'51.847"N	80°43'29.422"W	151.59	88.036	2.43	2.03	5.12	
1363.00	15.130	95.750	1342.89	-51.11	2.39	176.86	1718268.15	14276525.38	39°18'51.818"N	80°43'29.100"W	176.88	89.225	1.01	-0.96	-1.14	
1458.00	12.470	93.520	1435.14	-59.71	0.52	199.44	1718290.72	14276523.51	39°18'51.799"N	80°43'28.813"W	199.44	89.851	2.85	-2.80	-2.35	
1553.00	15.140	88.980	1527.39	-66.94	0.11	222.09	1718313.36	14276523.10	39°18'51.794"N	80°43'28.524"W	222.09	89.971	3.03	2.81	-4.78	
1647.00	18.510	85.040	1617.35	-73.69	1.62	249.24	1718340.50	14276524.61	39°18'51.809"N	80°43'28.179"W	249.24	89.628	3.78	3.59	-4.19	



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Page 3 of 11



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Area	Doddridge Co., WV	Wellbore	Schrader Unit 1H AWB
Field	Doddridge		
Facility	Deets Pad		

WELLPATH DATA (212 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
1742.00	19.200	86.620	1707.25	-80.81	3.85	279.85	1718371.10	14276526.83	39°18'51.830"N	80°43'27.789"W	279.88	89.213	0.90	0.73	1.66	
1837.00	17.950	92.050	1797.31	-89.56	4.24	310.08	1718401.32	14276527.23	39°18'51.833"N	80°43'27.405"W	310.11	89.216	2.25	-1.32	5.72	
1931.00	17.050	93.470	1886.96	-99.37	2.89	338.31	1718429.54	14276525.88	39°18'51.818"N	80°43'27.046"W	338.32	89.511	1.06	-0.96	1.51	
2026.00	15.970	92.460	1978.04	-108.85	1.49	365.27	1718456.49	14276524.48	39°18'51.804"N	80°43'26.703"W	365.27	89.767	1.18	-1.14	-1.06	
2121.00	14.570	89.150	2069.69	-116.76	1.10	390.28	1718481.48	14276524.09	39°18'51.799"N	80°43'26.385"W	390.28	89.838	1.74	-1.47	-3.48	
2216.00	15.350	87.100	2161.47	-123.38	1.92	414.78	1718505.98	14276524.91	39°18'51.806"N	80°43'26.073"W	414.79	89.735	0.99	0.82	-2.16	
2310.00	18.090	85.880	2251.48	-129.93	3.59	441.77	1718532.96	14276526.58	39°18'51.822"N	80°43'25.729"W	441.79	89.534	2.94	2.91	-1.30	
2405.00	19.130	89.380	2341.52	-137.90	4.82	472.05	1718563.22	14276527.81	39°18'51.833"N	80°43'25.344"W	472.07	89.415	1.61	1.09	3.68	
2500.00	20.330	89.450	2430.94	-147.27	5.15	504.12	1718595.28	14276528.14	39°18'51.836"N	80°43'24.936"W	504.14	89.415	1.26	1.26	0.07	
2595.00	21.100	87.780	2519.80	-156.63	5.97	537.71	1718628.86	14276528.96	39°18'51.843"N	80°43'24.509"W	537.74	89.364	1.02	0.81	-1.76	
2614.00	21.600	87.210	2537.49	-158.42	6.27	544.82	1718635.76	14276529.26	39°18'51.846"N	80°43'24.421"W	544.65	89.340	2.85	2.63	-3.00	
2795.00	22.420	82.830	2705.31	-173.16	12.20	612.15	1718703.26	14276535.19	39°18'51.902"N	80°43'23.561"W	612.27	88.868	1.01	0.45	-2.42	APS EM <-8.3/4> (2614)-(2795-5785)
2840.00	22.220	82.110	2746.94	-176.14	14.44	629.09	1718720.20	14276537.43	39°18'51.924"N	80°43'23.346"W	629.25	88.685	0.75	-0.44	-1.60	
2935.00	21.480	80.500	2835.12	-181.60	19.78	664.04	1718755.13	14276542.76	39°18'51.975"N	80°43'22.901"W	664.33	88.294	1.00	-0.78	-1.69	
3030.00	20.550	83.750	2923.80	-187.31	24.46	697.77	1718788.85	14276547.45	39°18'52.021"N	80°43'22.471"W	698.20	87.992	1.57	-0.98	3.42	
3125.00	20.610	92.060	3012.76	-196.20	25.68	731.06	1718822.13	14276548.66	39°18'52.032"N	80°43'22.048"W	731.51	87.988	3.07	0.06	8.75	
3220.00	20.130	91.030	3101.82	-207.04	24.78	764.11	1718855.17	14276547.76	39°18'52.022"N	80°43'21.627"W	764.52	88.142	0.63	-0.51	-1.08	
3315.00	17.470	88.840	3191.74	-216.28	24.78	794.72	1718885.77	14276547.76	39°18'52.021"N	80°43'21.238"W	795.11	88.210	2.90	-2.80	-2.31	
3412.00	15.420	88.530	3284.77	-223.97	25.41	822.17	1718913.21	14276548.38	39°18'52.026"N	80°43'20.889"W	822.56	88.230	2.12	-2.11	-0.32	
3507.00	15.120	97.160	3376.43	-232.66	24.18	847.10	1718938.12	14276547.17	39°18'52.013"N	80°43'20.572"W	847.44	88.365	2.41	-0.32	9.08	
3602.00	14.360	98.240	3468.30	-242.97	20.95	871.05	1718962.06	14276543.93	39°18'51.981"N	80°43'20.267"W	871.30	88.622	0.85	-0.80	1.14	
3697.00	13.050	93.020	3560.60	-251.87	18.70	893.42	1718984.43	14276541.68	39°18'51.958"N	80°43'19.982"W	893.61	88.801	1.90	-1.38	-5.48	
3792.00	13.280	91.390	3653.10	-259.19	17.87	915.04	1719006.04	14276540.85	39°18'51.949"N	80°43'19.707"W	915.21	88.881	0.46	0.24	-1.72	
3887.00	13.770	92.110	3745.46	-266.54	17.19	937.24	1719028.23	14276540.17	39°18'51.942"N	80°43'19.425"W	937.40	88.949	0.55	0.52	0.76	
3981.00	15.830	95.840	3836.34	-275.40	15.47	961.18	1719052.16	14276538.45	39°18'51.924"N	80°43'19.120"W	961.31	89.078	2.41	2.18	3.97	
4076.00	15.390	92.140	3927.84	-284.80	13.68	986.67	1719077.64	14276536.67	39°18'51.905"N	80°43'18.796"W	986.76	89.206	1.15	-0.46	-3.89	
4171.00	16.350	92.510	4019.22	-293.65	12.63	1012.63	1719103.59	14276535.61	39°18'51.894"N	80°43'18.466"W	1012.70	89.286	1.02	1.01	0.39	
4265.00	15.660	87.390	4109.58	-301.46	12.62	1038.52	1719129.47	14276535.61	39°18'51.893"N	80°43'18.137"W	1038.60	89.304	1.67	-0.73	-5.45	
4360.00	15.430	90.600	4201.11	-308.71	13.08	1063.97	1719154.90	14276536.06	39°18'51.897"N	80°43'17.813"W	1064.05	89.296	0.94	-0.24	3.38	
4455.00	15.550	90.970	4292.66	-316.70	12.73	1089.33	1719180.26	14276535.71	39°18'51.893"N	80°43'17.490"W	1089.41	89.331	0.16	0.13	0.39	



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Page 4 of 11



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Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #09
Area	Doddridge Co., WV	Well	Schrader Unit 1H
Field	Doddridge	Wellbore	Schrader Unit 1H AWB
Facility	Deets Pad		

WELLPATH DATA (212 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
4550.00	16.130	94.480	4384.05	-325.71	11.48	1115.22	1719206.14	14276534.47	39°18'51.880"N	80°43'17.161"W	1115.28	89.410	1.18	0.61	3.69	
4645.00	15.800	89.310	4475.39	-334.42	10.61	1141.31	1719232.22	14276533.59	39°18'51.870"N	80°43'16.829"W	1141.36	89.468	1.54	-0.35	-5.44	
4739.00	16.300	92.160	4565.73	-342.59	10.26	1167.29	1719258.19	14276533.25	39°18'51.866"N	80°43'16.498"W	1167.34	89.496	0.99	0.53	3.03	
4834.00	16.200	95.570	4656.93	-352.30	8.47	1193.80	1719284.69	14276531.46	39°18'51.848"N	80°43'16.161"W	1193.83	89.593	1.01	-0.11	3.59	
4929.00	16.060	90.900	4748.20	-361.67	6.98	1220.13	1719311.01	14276528.97	39°18'51.832"N	80°43'15.826"W	1220.15	89.672	1.37	-0.15	-4.92	
5024.00	16.860	94.580	4839.31	-371.02	5.67	1247.01	1719337.87	14276528.66	39°18'51.818"N	80°43'15.484"W	1247.02	89.739	1.38	0.84	3.87	
5118.00	16.790	91.510	4929.28	-380.60	4.23	1274.17	1719365.02	14276527.22	39°18'51.803"N	80°43'15.139"W	1274.17	89.810	0.95	-0.07	-3.27	
5213.00	15.570	85.790	5020.53	-388.03	4.80	1300.60	1719391.45	14276527.79	39°18'51.808"N	80°43'14.802"W	1300.61	89.788	2.11	-1.28	-6.02	
5308.00	14.240	84.040	5112.33	-393.33	6.95	1324.94	1719415.78	14276529.94	39°18'51.829"N	80°43'14.493"W	1324.96	89.699	1.48	-1.40	-1.84	
5406.00	15.300	97.260	5207.12	-401.19	6.57	1349.76	1719440.59	14276529.56	39°18'51.824"N	80°43'14.177"W	1349.78	89.721	3.60	1.08	13.49	
5501.00	17.840	97.400	5298.16	-412.60	3.11	1376.63	1719467.45	14276526.10	39°18'51.789"N	80°43'13.835"W	1376.63	89.871	2.67	2.67	0.15	
5595.00	17.070	91.530	5387.84	-423.19	0.89	1404.70	1719495.51	14276523.88	39°18'51.766"N	80°43'13.478"W	1404.70	89.964	2.04	-0.82	-6.24	
5690.00	16.600	91.580	5478.77	-432.21	0.14	1432.21	1719523.00	14276523.13	39°18'51.758"N	80°43'13.128"W	1432.21	89.994	0.49	-0.49	0.05	
5785.00	16.340	89.080	5569.87	-440.49	-0.02	1459.13	1719549.92	14276522.97	39°18'51.756"N	80°43'12.786"W	1459.13	90.001	0.79	-0.27	-2.63	
5854.00	16.570	86.670	5636.05	-445.69	0.71	1478.66	1719569.44	14276523.70	39°18'51.762"N	80°43'12.537"W	1478.66	89.973	1.04	0.33	-3.49	BH AT Curve <8-1/2> (5785)-(6854)-17461'
5915.00	16.750	87.290	5694.49	-450.08	1.63	1496.12	1719586.89	14276524.62	39°18'51.771"N	80°43'12.315"W	1496.13	89.938	0.41	0.30	1.02	
6009.00	16.550	87.610	5784.55	-457.06	2.83	1523.03	1719613.79	14276525.82	39°18'51.782"N	80°43'11.973"W	1523.03	89.894	0.23	-0.21	0.34	
6104.00	17.020	89.630	5875.50	-464.72	3.48	1550.45	1719641.20	14276526.47	39°18'51.787"N	80°43'11.624"W	1550.46	89.871	0.79	0.49	2.13	
6199.00	16.260	91.770	5966.52	-473.23	3.16	1577.65	1719668.39	14276526.15	39°18'51.783"N	80°43'11.278"W	1577.65	89.885	1.03	-0.80	2.25	
6294.00	15.330	93.810	6057.93	-482.22	1.92	1603.48	1719694.20	14276524.91	39°18'51.770"N	80°43'10.949"W	1603.48	89.832	1.14	-0.98	2.15	
6389.00	16.350	96.740	6149.33	-492.30	-0.49	1629.29	1719720.00	14276522.50	39°18'51.746"N	80°43'10.621"W	1629.29	90.017	1.36	1.07	3.08	
6483.00	17.130	96.680	6239.34	-503.43	-3.65	1656.17	1719746.88	14276519.34	39°18'51.714"N	80°43'10.279"W	1656.18	90.126	0.83	0.83	-0.05	
6578.00	16.860	92.570	6330.20	-513.93	-5.90	1683.83	1719774.53	14276517.09	39°18'51.691"N	80°43'09.927"W	1683.84	90.201	1.30	-0.28	-4.34	
6673.00	15.760	72.170	6421.45	-518.61	-2.57	1709.90	1719800.58	14276520.43	39°18'51.723"N	80°43'09.595"W	1709.90	90.086	6.11	-1.16	-21.47	
6768.00	16.140	50.130	6512.87	-513.54	9.86	1732.34	1719823.01	14276532.85	39°18'51.845"N	80°43'09.309"W	1732.37	89.674	6.35	0.40	-23.20	
6863.00	18.650	29.380	6603.61	-498.14	31.59	1749.94	1719840.61	14276554.56	39°18'52.059"N	80°43'09.084"W	1750.23	88.966	7.00	2.64	-21.84	
6957.00	24.120	15.070	6691.16	-471.67	63.27	1762.33	1719852.99	14276586.24	39°18'52.372"N	80°43'08.926"W	1763.46	87.944	8.00	5.82	-15.22	
7052.00	29.830	3.650	6775.85	-433.24	105.66	1768.89	1719859.55	14276628.61	39°18'52.791"N	80°43'08.840"W	1772.04	86.582	8.09	6.01	-12.02	
7099.00	32.660	358.590	6816.04	-410.16	130.01	1769.32	1719859.98	14276652.95	39°18'53.031"N	80°43'08.834"W	1774.09	85.797	8.21	6.02	-10.77	
7147.00	36.620	354.960	6855.52	-383.73	157.24	1767.74	1719858.41	14276680.16	39°18'53.300"N	80°43'08.853"W	1774.72	84.917	9.30	8.25	-7.56	



Actual Wellpath Report

Schrader Unit 1H AWP Proj: 17486'

Page 5 of 11



REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #09
Operator	ANTERO RESOURCES CORPORATION	Well	Schrader Unit 1H
Area	Doddridge Co., WV	Wellbore	Schrader Unit 1H AWP
Field	Doddridge		
Facility	Deets Pad		

WELLPATH DATA (212 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
7161.00†	37.643	354.250	6866.68	-375.47	165.65	1766.95	1719857.61	14276688.57	39°18'53.384"N	80°43'08.863"W	1774.70	84.644	7.92	7.31	-5.07	Middlesex: 7161' MD
7194.00	40.070	352.700	6892.38	-355.15	186.22	1764.59	1719855.25	14276709.13	39°18'53.587"N	80°43'08.892"W	1774.39	83.976	7.92	7.35	-4.70	
7242.00	43.810	350.600	6928.08	-323.49	217.94	1759.91	1719850.58	14276740.85	39°18'53.901"N	80°43'08.950"W	1773.35	82.941	8.32	7.79	-4.37	
7289.00	47.900	348.740	6960.81	-290.04	251.11	1753.85	1719844.51	14276774.00	39°18'54.229"N	80°43'09.026"W	1771.73	81.852	9.15	8.70	-3.96	
7337.00	51.950	347.600	6991.71	-253.50	287.05	1746.31	1719836.98	14276809.93	39°18'54.584"N	80°43'09.121"W	1769.74	80.665	8.63	8.44	-2.37	
7376.00†	55.086	347.065	7014.89	-222.26	317.64	1739.43	1719830.10	14276840.50	39°18'54.887"N	80°43'09.207"W	1768.19	79.651	8.12	8.04	-1.37	Burkett: 7376' MD
7384.00	55.730	346.960	7019.43	-215.70	324.06	1737.95	1719828.62	14276846.92	39°18'55.324"N	80°43'09.225"W	1767.90	79.438	8.12	8.05	-1.31	
7430.00†	59.253	346.784	7044.15	-177.03	361.83	1729.14	1719819.82	14276884.68	39°18'55.924"N	80°43'09.336"W	1766.59	78.181	7.67	7.66	-0.38	Tully: 7430' MD
7431.00	59.330	346.780	7044.66	-176.17	362.67	1728.94	1719819.62	14276885.51	39°18'55.332"N	80°43'09.339"W	1766.57	78.153	7.67	7.66	-0.37	
7478.00	62.700	346.030	7067.43	-135.16	402.82	1719.28	1719809.96	14276925.45	39°18'55.727"N	80°43'09.460"W	1765.79	76.820	7.30	7.17	-1.60	
7526.00	66.150	344.870	7088.15	-91.93	444.52	1708.39	1719799.08	14276967.33	39°18'56.142"N	80°43'09.597"W	1765.28	75.415	7.51	7.19	-2.42	
7573.00	70.290	344.170	7105.59	-48.33	486.57	1696.74	1719787.43	14277009.37	39°18'56.558"N	80°43'09.743"W	1765.13	73.999	8.92	8.81	-1.49	
7610.00†	73.011	343.891	7117.24	-13.22	520.33	1687.08	1719777.78	14277043.11	39°18'56.892"N	80°43'09.865"W	1765.50	72.859	7.39	7.35	-0.75	Marcellus POE: 7610' MD
7621.00	73.820	343.810	7120.37	-2.69	530.46	1684.15	1719774.84	14277053.24	39°18'56.992"N	80°43'09.902"W	1765.71	72.517	7.39	7.35	-0.74	
7668.00	76.240	344.300	7132.51	42.70	574.11	1671.68	1719762.38	14277096.87	39°18'57.424"N	80°43'10.059"W	1767.52	71.046	5.25	5.15	1.04	
7716.00	79.690	345.010	7142.52	89.60	619.38	1659.26	1719749.96	14277142.12	39°18'57.871"N	80°43'10.215"W	1771.09	69.530	7.33	7.19	1.48	
7763.00	82.280	344.780	7149.89	135.97	664.19	1647.16	1719737.87	14277186.91	39°18'58.315"N	80°43'10.367"W	1776.03	68.039	5.53	5.51	-0.49	
7811.00	85.380	345.330	7155.04	183.64	710.29	1634.86	1719725.57	14277233.00	39°18'58.771"N	80°43'10.522"W	1782.49	66.517	6.56	6.46	1.15	
7858.00	87.630	345.220	7159.91	230.49	755.66	1622.93	1719713.65	14277278.35	39°18'59.219"N	80°43'10.672"W	1790.23	65.033	4.79	4.79	-0.23	
7906.00	89.010	343.880	7159.32	278.43	801.90	1610.15	1719700.88	14277324.57	39°18'59.677"N	80°43'10.833"W	1798.79	63.525	4.01	2.88	-2.79	
8000.00	88.090	341.850	7161.70	372.39	891.69	1582.47	1719673.20	14277414.33	39°19'00.565"N	80°43'11.181"W	1816.41	60.599	2.37	-0.98	-2.16	
8095.00	88.030	340.840	7164.91	467.32	981.65	1552.10	1719642.85	14277504.25	39°19'01.455"N	80°43'11.564"W	1836.48	57.688	1.06	-0.06	-1.06	
8190.00	87.910	340.830	7168.28	562.23	1071.33	1520.93	1719611.69	14277593.90	39°19'02.343"N	80°43'11.957"W	1860.37	54.840	0.13	-0.13	-0.01	
8285.00	87.970	342.230	7171.69	657.15	1161.38	1490.86	1719581.63	14277683.91	39°19'03.233"N	80°43'12.336"W	1889.83	52.081	1.47	0.06	1.47	
8380.00	90.180	345.970	7173.23	752.07	1252.71	1464.84	1719555.62	14277775.20	39°19'04.137"N	80°43'12.664"W	1927.44	49.463	4.57	2.33	3.94	
8475.00	88.950	345.300	7173.95	846.92	1344.73	1441.27	1719532.06	14277867.19	39°19'05.047"N	80°43'12.960"W	1971.19	46.985	1.47	-1.29	-0.71	
8569.00	89.880	348.120	7174.91	940.64	1436.20	1419.67	1719510.47	14277958.62	39°19'05.952"N	80°43'13.231"W	2019.44	44.668	3.16	0.99	3.00	
8664.00	89.910	348.420	7175.08	1035.15	1529.22	1400.35	1719491.16	14278051.60	39°19'06.872"N	80°43'13.473"W	2073.52	42.481	0.32	0.03	0.32	
8759.00	90.030	347.510	7175.13	1129.71	1622.13	1380.55	1719471.36	14278144.48	39°19'07.791"N	80°43'13.722"W	2130.07	40.400	0.97	0.13	-0.96	
8854.00	90.090	345.550	7175.03	1224.46	1714.51	1358.42	1719449.24	14278236.82	39°19'08.704"N	80°43'14.000"W	2187.43	38.390	2.06	0.06	-2.06	



Actual Wellpath Report

Schrader Unit 1H AWP Proj: 17486'

Page 6 of 11



REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Area	Doddridge Co., WV
Field	Doddridge
Facility	Deets Pad
Slot	Slot #09
Well	Schrader Unit 1H
Wellbore	Schrader Unit 1H AWB

WELLPATH DATA (212 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 (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
8948.00	89.540	341.170	7175.33	1318.42	1804.55	1331.51	1719422.34	14278326.83	39°19'09.595"N	80°43'14.338"W	2242.61	36.422	4.70	-0.59	-4.66	
9043.00	89.600	339.030	7176.05	1413.34	1893.87	1299.17	1719390.02	14278416.11	39°19'10.479"N	80°43'14.746"W	2296.65	34.450	2.25	0.06	-2.25	
9138.00	89.630	339.600	7176.69	1508.19	1982.74	1265.62	1719356.48	14278504.95	39°19'11.358"N	80°43'15.170"W	2352.25	32.551	0.60	0.03	0.60	
9233.00	89.570	341.270	7177.35	1603.13	2072.25	1233.81	1719324.68	14278594.42	39°19'12.244"N	80°43'15.571"W	2411.74	30.769	1.76	-0.06	1.76	
9327.00	90.280	342.410	7177.47	1697.12	2161.57	1204.51	1719295.39	14278683.70	39°19'13.128"N	80°43'15.940"W	2474.51	29.128	1.43	0.76	1.21	
9422.00	89.940	339.610	7177.29	1792.08	2251.39	1173.60	1719264.50	14278773.49	39°19'14.016"N	80°43'16.330"W	2538.91	27.532	2.97	-0.36	-2.95	
9517.00	90.090	338.460	7177.27	1886.92	2340.10	1139.61	1719230.52	14278862.16	39°19'14.894"N	80°43'16.759"W	2602.84	25.966	1.22	0.16	-1.21	
9612.00	90.030	339.320	7177.17	1981.73	2428.72	1105.39	1719196.32	14278950.75	39°19'15.771"N	80°43'17.191"W	2668.44	24.472	0.91	-0.06	0.91	
9707.00	90.060	340.980	7177.09	2076.65	2518.07	1073.14	1719164.07	14279040.07	39°19'16.655"N	80°43'17.598"W	2737.21	23.082	1.75	0.03	1.75	
9802.00	89.820	340.070	7177.19	2171.60	2607.64	1041.47	1719132.41	14279129.60	39°19'17.541"N	80°43'17.997"W	2807.92	21.771	0.99	-0.25	-0.96	
9896.00	89.940	339.790	7177.39	2265.51	2695.93	1009.21	1719100.17	14279217.85	39°19'18.415"N	80°43'18.404"W	2878.63	20.523	0.32	0.13	-0.30	
9991.00	90.030	339.060	7177.41	2360.38	2784.87	975.82	1719066.80	14279306.76	39°19'19.295"N	80°43'18.826"W	2950.89	19.311	0.77	0.09	-0.77	
10086.00	90.090	338.110	7177.31	2455.16	2873.31	941.14	1719032.12	14279395.16	39°19'20.170"N	80°43'19.264"W	3023.52	18.136	1.00	0.06	-1.00	
10180.00	89.820	338.730	7177.39	2548.93	2960.72	906.56	1718997.56	14279482.54	39°19'21.035"N	80°43'19.700"W	3096.40	17.024	0.72	-0.29	0.66	
10276.00	90.120	340.220	7177.44	2644.80	3050.62	872.91	1718963.92	14279572.41	39°19'21.925"N	80°43'20.125"W	3173.05	15.968	1.58	0.31	1.58	
10370.00	90.120	342.430	7177.24	2738.78	3139.67	842.81	1718933.84	14279661.42	39°19'22.806"N	80°43'20.504"W	3250.82	15.026	2.35	0.00	2.35	
10465.00	90.120	344.630	7177.04	2833.76	3230.76	815.88	1718906.91	14279752.48	39°19'23.707"N	80°43'20.844"W	3332.19	14.173	2.32	0.00	2.32	
10560.00	90.280	345.080	7176.71	2928.67	3322.46	791.06	1718882.10	14279844.14	39°19'24.614"N	80°43'21.156"W	3415.34	13.392	0.50	0.17	0.47	
10655.00	90.120	345.460	7176.38	3023.55	3414.34	766.90	1718857.96	14279935.98	39°19'25.523"N	80°43'21.460"W	3499.41	12.659	0.43	-0.17	0.40	
10749.00	90.030	346.280	7176.25	3117.38	3505.50	743.95	1718835.02	14280027.10	39°19'26.425"N	80°43'21.748"W	3583.57	11.982	0.88	-0.10	0.87	
10844.00	89.050	341.870	7177.02	3212.32	3596.82	717.90	1718808.97	14280118.39	39°19'27.328"N	80°43'22.076"W	3667.77	11.287	4.76	-1.03	-4.64	
10939.00	90.000	342.100	7177.81	3307.31	3687.16	688.52	1718779.61	14280208.70	39°19'28.222"N	80°43'22.446"W	3750.90	10.577	1.03	1.00	0.24	
11034.00	89.540	343.460	7178.19	3402.30	3777.90	660.39	1718751.49	14280299.40	39°19'29.119"N	80°43'22.801"W	3835.19	9.915	1.51	-0.48	1.43	
11129.00	88.620	341.240	7179.71	3497.28	3868.41	631.60	1718722.71	14280389.87	39°19'30.015"N	80°43'23.164"W	3919.63	9.273	2.53	-0.97	-2.34	
11224.00	90.000	342.230	7180.86	3592.27	3958.61	601.83	1718692.95	14280480.04	39°19'30.907"N	80°43'23.539"W	4004.10	8.644	1.79	1.45	1.04	
11318.00	89.600	339.840	7181.18	3686.23	4047.50	571.28	1718662.41	14280568.90	39°19'31.787"N	80°43'23.924"W	4087.62	8.034	2.58	-0.43	-2.54	
11413.00	89.480	336.470	7181.95	3780.95	4135.67	535.94	1718627.08	14280657.02	39°19'32.659"N	80°43'24.370"W	4170.25	7.384	3.55	-0.13	-3.55	
11508.00	89.820	338.480	7182.53	3875.59	4223.41	499.55	1718590.71	14280744.74	39°19'33.528"N	80°43'24.830"W	4252.85	6.746	2.15	0.36	2.12	
11603.00	90.990	343.470	7181.86	3970.52	4313.19	468.59	1718559.76	14280834.48	39°19'34.416"N	80°43'25.221"W	4338.57	6.200	5.39	1.23	5.25	
11698.00	89.850	346.420	7181.16	4065.42	4404.92	443.92	1718535.10	14280926.17	39°19'35.323"N	80°43'25.631"W	4427.23	5.755	3.33	-1.20	3.11	



Actual Wellpath Report

Schrader Unit 1H AWP Proj: 17486'

Page 7 of 11



REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Area	Doddridge Co., WV
Field	Doddridge
Facility	Deets Pad
Slot	Slot #09
Well	Schrader Unit 1H
Wellbore	Schrader Unit 1H AWB

WELLPATH DATA (212 stations)																
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
11792.00	89.720	347.860	7181.51	4159.10	4496.56	422.99	1718514.19	14281017.77	39°19'36.230"N	80°43'25.794"W	4516.41	5.374	1.54	-0.14	1.53	
11887.00	90.950	348.780	7180.96	4253.59	4589.59	403.76	1718494.96	14281110.76	39°19'37.150"N	80°43'26.035"W	4607.31	5.028	1.62	1.29	0.97	
11982.00	90.890	345.250	7179.43	4348.26	4682.13	382.42	1718475.63	14281203.27	39°19'38.065"N	80°43'26.303"W	4697.72	4.669	3.72	-0.06	-3.72	
12077.00	89.970	339.640	7178.72	4443.22	4772.67	353.78	1718445.00	14281293.77	39°19'38.961"N	80°43'26.664"W	4785.76	4.239	5.98	-0.97	-5.91	
12172.00	90.090	340.830	7178.67	4538.15	4862.07	321.66	1718412.89	14281383.14	39°19'39.845"N	80°43'27.069"W	4872.70	3.785	1.26	0.13	1.25	
12267.00	90.000	341.290	7178.59	4633.12	4951.92	290.82	1718382.07	14281472.96	39°19'40.734"N	80°43'27.458"W	4960.46	3.361	0.49	-0.09	0.48	
12361.00	89.450	341.680	7179.04	4727.11	5041.06	260.97	1718352.23	14281562.05	39°19'41.616"N	80°43'27.834"W	5047.81	2.964	0.72	-0.59	0.41	
12456.00	89.750	343.080	7179.71	4812.10	5131.59	232.22	1718323.49	14281652.56	39°19'42.512"N	80°43'28.197"W	5136.85	2.591	1.51	0.32	1.47	
12551.00	89.720	343.000	7180.15	4917.09	5222.46	204.51	1718295.78	14281743.39	39°19'43.411"N	80°43'28.546"W	5226.46	2.242	0.09	-0.03	-0.08	
12646.00	89.690	343.680	7180.64	5012.08	5313.47	177.27	1718268.56	14281834.36	39°19'44.311"N	80°43'28.889"W	5316.43	1.911	0.72	-0.03	0.72	
12741.00	89.750	343.960	7181.10	5107.05	5404.71	150.80	1718242.10	14281925.56	39°19'45.214"N	80°43'29.222"W	5406.81	1.598	0.30	0.06	0.29	
12835.00	89.880	345.100	7181.40	5200.99	5495.30	125.73	1718217.04	14282016.12	39°19'46.110"N	80°43'29.538"W	5496.74	1.311	1.22	0.14	1.21	
12930.00	89.780	345.870	7181.69	5295.85	5587.27	101.92	1718193.24	14282108.05	39°19'47.019"N	80°43'29.837"W	5588.20	1.045	0.82	-0.11	0.81	
13025.00	91.450	347.520	7180.67	5390.57	5679.71	80.06	1718171.38	14282200.45	39°19'47.934"N	80°43'30.112"W	5680.27	0.808	2.47	1.76	1.74	
13120.00	90.090	341.410	7179.39	5485.46	5771.18	54.63	1718145.97	14282291.89	39°19'48.839"N	80°43'30.432"W	5771.44	0.542	6.59	-1.43	-6.43	
13215.00	89.690	338.490	7179.57	5580.36	5860.41	22.06	1718113.41	14282381.09	39°19'49.721"N	80°43'30.843"W	5860.46	0.216	3.10	-0.42	-3.07	
13310.00	89.780	340.750	7180.01	5675.24	5949.46	-11.02	1718080.34	14282470.10	39°19'50.603"N	80°43'31.260"W	5949.47	359.894	2.38	0.09	2.38	
13405.00	90.090	342.870	7180.12	5770.23	6039.71	-40.67	1718050.70	14282560.31	39°19'51.495"N	80°43'31.634"W	6039.84	359.614	2.26	0.33	2.23	
13500.00	90.460	342.560	7179.66	5865.22	6130.42	-68.90	1718022.49	14282650.98	39°19'52.393"N	80°43'31.990"W	6130.80	359.356	0.51	0.39	-0.33	
13595.00	89.780	340.640	7179.46	5960.21	6220.55	-98.89	1717992.51	14282741.09	39°19'53.285"N	80°43'32.368"W	6221.34	359.089	2.14	-0.72	-2.02	
13689.00	89.820	339.610	7179.79	6054.13	6308.95	-130.84	1717960.57	14282829.45	39°19'54.159"N	80°43'32.771"W	6310.31	358.812	1.10	0.04	-1.10	
13784.00	89.850	337.210	7180.06	6148.89	6397.28	-165.80	1717925.63	14282917.74	39°19'55.033"N	80°43'33.213"W	6399.43	358.515	2.53	0.03	-2.53	
13878.00	89.750	335.620	7180.39	6242.37	6483.43	-203.41	1717888.04	14283003.85	39°19'55.886"N	80°43'33.688"W	6486.62	358.203	1.69	-0.11	-1.69	
13973.00	90.090	338.180	7180.53	6336.92	6570.80	-240.67	1717850.78	14283091.20	39°19'56.751"N	80°43'34.159"W	6575.21	357.902	2.72	0.36	2.69	
14068.00	90.000	341.360	7180.45	6431.80	6659.93	-273.52	1717817.95	14283180.29	39°19'57.632"N	80°43'34.573"W	6665.54	357.648	3.35	-0.09	3.35	
14163.00	90.150	343.350	7180.33	6526.80	6750.46	-302.31	1717789.16	14283270.78	39°19'58.528"N	80°43'34.936"W	6757.22	357.436	2.10	0.16	2.09	
14258.00	90.060	344.150	7180.15	6621.77	6841.66	-328.90	1717762.59	14283361.95	39°19'59.430"N	80°43'35.271"W	6849.56	357.248	0.85	-0.09	0.84	
14353.00	90.120	343.670	7180.00	6716.74	6932.94	-355.23	1717736.27	14283453.19	39°20'00.333"N	80°43'35.603"W	6942.03	357.067	0.51	0.06	-0.51	
14448.00	90.180	343.430	7179.75	6811.72	7024.05	-382.13	1717709.38	14283544.26	39°20'01.234"N	80°43'35.942"W	7034.44	356.886	0.26	0.06	-0.25	
14543.00	90.120	344.530	7179.51	6906.69	7115.36	-408.35	1717683.18	14283635.54	39°20'02.138"N	80°43'36.272"W	7127.07	356.715	1.16	-0.06	1.16	



Actual Wellpath Report

Schrader Unit 1H AWP Proj: 17486'

Page 8 of 11



REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #09
Operator	ANTERO RESOURCES CORPORATION		
Area	Doddridge Co., WY		
Well	Schrader Unit 1H		
Field	Doddridge		
Wellbore	Schrader Unit 1H AWB		
Facility	Deets Pad		

WELLPATH DATA (212 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
14637.00	90.150	344.940	7179.28	7000.61	7206.04	-433.09	1717658.44	14283726.18	39°20'03.035"N	80°43'36.583"W	7219.04	356.561	0.44	0.03	0.44	
14732.00	90.060	344.980	7179.11	7095.52	7297.79	-457.75	1717633.79	14283817.89	39°20'03.942"N	80°43'36.893"W	7312.13	356.411	0.10	-0.09	0.04	
14827.00	90.120	344.820	7178.96	7190.43	7389.51	-482.49	1717609.06	14283909.58	39°20'04.850"N	80°43'37.205"W	7405.24	356.264	0.18	0.06	-0.17	
14922.00	90.150	346.270	7178.74	7285.28	7481.50	-506.21	1717585.35	14284001.53	39°20'05.759"N	80°43'37.503"W	7498.60	356.129	1.53	0.03	1.53	
15017.00	89.910	346.070	7178.69	7380.08	7573.74	-528.92	1717562.65	14284093.74	39°20'06.672"N	80°43'37.789"W	7592.19	356.005	0.33	-0.25	-0.21	
15111.00	90.090	345.860	7178.69	7473.90	7664.94	-551.71	1717539.87	14284184.90	39°20'07.574"N	80°43'38.075"W	7684.77	355.883	0.29	0.19	-0.22	
15206.00	89.690	342.030	7178.87	7568.85	7756.21	-577.98	1717513.61	14284276.14	39°20'08.477"N	80°43'38.406"W	7777.72	355.738	4.05	-0.42	-4.03	
15301.00	89.940	339.290	7179.18	7663.80	7845.84	-609.44	1717482.16	14284365.73	39°20'09.364"N	80°43'38.803"W	7869.48	355.558	2.90	0.26	-2.88	
15396.00	90.120	339.320	7179.13	7758.66	7934.71	-643.01	1717448.60	14284454.57	39°20'10.243"N	80°43'39.227"W	7960.72	355.367	0.19	0.19	0.03	
15491.00	90.120	340.600	7178.93	7853.57	8023.96	-675.56	1717416.06	14284543.78	39°20'11.126"N	80°43'39.638"W	8052.35	355.187	1.35	0.00	1.35	
15586.00	90.120	341.800	7178.73	7948.54	8113.89	-706.18	1717385.46	14284633.67	39°20'12.016"N	80°43'40.024"W	8144.56	355.026	1.26	0.00	1.26	
15680.00	89.970	342.590	7178.65	8042.54	8203.39	-734.92	1717356.73	14284723.13	39°20'12.901"N	80°43'40.386"W	8236.24	354.881	0.86	-0.16	0.84	
15775.00	90.090	341.890	7178.61	8137.54	8293.86	-763.90	1717327.76	14284813.57	39°20'13.796"N	80°43'40.752"W	8328.96	354.738	0.75	0.13	-0.74	
15870.00	89.820	340.700	7178.68	8232.52	8383.84	-794.37	1717297.31	14284903.52	39°20'14.686"N	80°43'41.136"W	8421.39	354.587	1.28	-0.28	-1.25	
15965.00	90.060	341.400	7178.78	8327.49	8473.69	-825.22	1717266.47	14284993.33	39°20'15.575"N	80°43'41.525"W	8513.78	354.438	0.78	0.25	0.74	
16060.00	90.030	340.820	7178.70	8422.46	8563.57	-855.97	1717235.73	14285083.18	39°20'16.465"N	80°43'41.913"W	8606.25	354.292	0.61	-0.03	-0.61	
16154.00	90.400	340.020	7178.35	8516.41	8652.13	-887.47	1717204.24	14285171.71	39°20'17.341"N	80°43'42.311"W	8697.53	354.143	0.94	0.39	-0.85	
16249.00	89.750	339.240	7178.23	8611.29	8741.19	-920.54	1717171.18	14285260.73	39°20'18.222"N	80°43'42.728"W	8789.53	353.988	1.07	-0.68	-0.82	
16344.00	90.030	339.160	7178.41	8706.14	8830.00	-954.28	1717137.46	14285349.50	39°20'19.101"N	80°43'43.154"W	8881.42	353.832	0.31	0.29	-0.08	
16439.00	89.880	339.590	7178.48	8801.00	8918.91	-987.74	1717104.01	14285438.38	39°20'19.981"N	80°43'43.577"W	8973.44	353.680	0.48	-0.16	0.45	
16534.00	90.150	340.390	7178.46	8895.92	9008.18	-1020.25	1717071.52	14285527.61	39°20'20.864"N	80°43'43.987"W	9065.77	353.538	0.89	0.28	0.84	
16629.00	90.000	341.290	7178.34	8990.88	9097.91	-1051.43	1717040.35	14285617.31	39°20'21.752"N	80°43'44.380"W	9158.47	353.408	0.96	-0.16	0.95	
16724.00	89.690	340.290	7178.59	9085.84	9187.62	-1082.68	1717009.10	14285706.98	39°20'22.639"N	80°43'44.775"W	9251.19	353.279	1.10	-0.33	-1.05	
16818.00	89.480	339.410	7179.27	9179.74	9275.86	-1115.06	1716976.74	14285795.19	39°20'23.512"N	80°43'45.183"W	9342.65	353.145	0.96	-0.22	-0.94	
16913.00	89.350	341.590	7180.24	9274.68	9365.41	-1146.77	1716945.04	14285884.70	39°20'24.398"N	80°43'45.584"W	9435.35	353.019	2.30	-0.14	2.29	
17008.00	89.660	344.140	7181.06	9369.66	9456.18	-1174.76	1716917.07	14285975.43	39°20'25.296"N	80°43'45.936"W	9528.87	352.918	2.70	0.33	2.68	
17103.00	89.050	343.560	7182.13	9464.63	9547.42	-1201.18	1716890.66	14286066.64	39°20'26.199"N	80°43'46.269"W	9622.69	352.829	0.89	-0.64	-0.61	
17198.00	90.030	343.930	7182.90	9559.60	9638.62	-1227.77	1716864.08	14286157.80	39°20'27.101"N	80°43'46.604"W	9716.50	352.741	1.10	1.03	0.39	
17293.00	89.720	342.810	7183.10	9654.58	9729.65	-1254.96	1716836.90	14286248.79	39°20'28.001"N	80°43'46.947"W	9810.25	352.650	1.22	-0.33	-1.18	
17387.00	90.370	340.940	7183.03	9748.57	9818.98	-1284.20	1716807.67	14286338.09	39°20'28.885"N	80°43'47.315"W	9902.60	352.549	2.11	0.69	-1.99	



Actual Wellpath Report

Schrader Unit 1H AWP Proj: 17486'

Page 9 of 11



REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot #09
ANTERO RESOURCES CORPORATION	Well	Schrader Unit 1H
Doddridge Co., WV	Wellbore	Schrader Unit 1H AWB
Doddridge		
Deets Pad		

WELLPATH DATA (212 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
17461.00	90.060	337.240	7182.75	9822.43	9888.09	-1310.60	1716781.27	14286407.17	39°20'29.569"N	80°43'47.649"W	9974.57	352.450	5.02	-0.42	-5.00	
17486.00	90.060	337.240	7182.73	9847.33	9911.14	-1320.28	1716771.61	14286430.22	39°20'29.797"N	80°43'47.771"W	9998.69	352.412	0.00	0.00	0.00	Projected MD at TD: 17486'

HOLE & CASING SECTIONS - Ref Wellbore: Schrader Unit 1H AWB

String/Diameter	Start MD (ft)	End MD (ft)	Interval (ft)	Start TVD (ft)	End TVD (ft)	Start N/S (ft)	End N/S (ft)	Start E/W (ft)	End E/W (ft)
20in Conductor	25.50	105.50	80.00	25.50	105.50	0.00	0.00	0.00	0.00
17.5in Open Hole	105.50	407.00	301.50	105.50	406.99	-0.19	-1.32	0.37	-1.32
13.375in Casing Surface	25.50	391.50	366.00	25.50	391.49	0.00	-1.27	0.00	1.59
12.25in Open Hole	407.00	2680.00	2273.00	406.99	2598.80	-1.32	7.81	1.55	569.02
9.625in Casing Intermediate	25.50	2626.80	2601.30	25.50	2549.39	0.00	6.52	0.00	549.33
8.75in Open Hole	25.50	5874.00	5848.50	25.50	5655.21	0.00	1.03	0.00	1484.37
8.5in Open Hole	5874.00	17486.00	11612.00	5655.21	7182.73	1.03	9911.14	1484.37	-1320.28
5.5in Casing Production	25.50	17486.00	17460.50	25.50	7182.73	0.00	9911.14	0.00	-1320.28

Ref Wellpath: Schrader Unit 1H AWP Proj: 17486'

String/Diameter	Start MD (ft)	End MD (ft)	Interval (ft)	Start TVD (ft)	End TVD (ft)	Start N/S (ft)	End N/S (ft)	Start E/W (ft)	End E/W (ft)
20in Conductor	25.50	105.50	80.00	25.50	105.50	0.00	0.00	0.00	0.00
17.5in Open Hole	105.50	407.00	301.50	105.50	406.99	-0.19	-1.32	0.37	-1.32
13.375in Casing Surface	25.50	391.50	366.00	25.50	391.49	0.00	-1.27	0.00	1.59
12.25in Open Hole	407.00	2680.00	2273.00	406.99	2598.80	-1.32	7.81	1.55	569.02
9.625in Casing Intermediate	25.50	2626.80	2601.30	25.50	2549.39	0.00	6.52	0.00	549.33
8.75in Open Hole	25.50	5874.00	5848.50	25.50	5655.21	0.00	1.03	0.00	1484.37
8.5in Open Hole	5874.00	17486.00	11612.00	5655.21	7182.73	1.03	9911.14	1484.37	-1320.28
5.5in Casing Production	25.50	17486.00	17460.50	25.50	7182.73	0.00	9911.14	0.00	-1320.28

TARGETS

Name	TVD (ft)	North (ft)	East (ft)	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Schrader Unit 1H - POE - Rev-2	7113.00	507.60	1697.02	1719787.71	14277030.39	39°18'56.765"N	80°43'09.739"W	point
Schrader Unit 1H - BHL - Rev-2	7153.00	9891.95	-1274.74	1716817.12	14286411.03	39°20'29.606"N	80°43'47.192"W	point
Schrader Unit 1H - LP - Rev-2	7153.00	748.55	1620.72	1719711.44	14277271.25	39°18'59.149"N	80°43'10.700"W	point



Actual Wellpath Report

Schrader Unit 1H AWP Proj: 17486'

Page 10 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #09
Area	Doddridge Co., WV	Well	Schrader Unit 1H
Field	Doddridge	Wellbore	Schrader Unit 1H AWB
Facility	Deets Pad		

WELLPATH COMPOSITION - Ref Wellbore: Schrader Unit 1H AWB Ref Wellpath: Schrader Unit 1H AWP Proj: 17486'			
Start MD (ft)	End MD (ft)	Positional Uncertainty Model	Log Name/Comment
25.50	475.00	Gyrodata standard - Drop gyro or Multi-shot	01 Gyrodatta MS Gyro <17-1/2">(100'-475')
475.00	2614.00	BHI NaviTrak (Axial)	02 APS EM <12-1/4">(475')(609'-2614')
2614.00	5785.00	BHI NaviTrak (Axial)	03 APS EM <8-3/4">(2614')(2795'-5785')
5785.00	17461.00	BHI AutoTrak Curve (Short)	04 BH AT Curve <8-1/2"> (5785')(5854'-17461')
17461.00	17486.00	Blind Drilling (std)	Projection to bit
			Schrader Unit 1H AWB
			Schrader Unit 1H AWB
			Schrader Unit 1H AWB
			Schrader Unit 1H AWB



Actual Wellpath Report

Schrader Unit 1H AWP Proj: 17486'

Page 11 of 11



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #09
Area	Doddiridge Co., WV	Well	Schrader Unit 1H
Field	Doddiridge	Wellbore	Schrader Unit 1H AWB
Facility	Deets Pad		

COMMENTS

Wellpath general comments

API: 47-017-06877-0000
 BHI Job #: 109894482A
 Rig: H&P 317
 Duration: 07/24/2019-07/29/2019
 Gyrodatta MS Gyro <17-1/2">(100'-475')
 APS EM <12-1/4">(475')(609'-2614')
 APS EM <8-3/4">(2614')(2795'-5785')
 BH AT Curve <8-1/2"> (5785')(5854'-17461')
 Middlesex: 7161' MD
 Burkett: 7376' MD
 Tully: 7430' MD
 Marcellus POE: 7610' MD
 Projected MD at TD: 17486'