



Actual Wellpath Report

Schrader Unit 2H AWP Proj: 16345'

Page 1 of 11



REFERENCE WELLPATH IDENTIFICATION		
Operator	ANTERO RESOURCES CORPORATION	Slot #10
Area	Doddridge Co., WV	Schrader Unit 2H
Field	Doddridge	Schrader Unit 2H AWB
Facility	Deets Pad	

REPORT SETUP INFORMATION	
Projection System	NAD27 / UTM Zone 17 North, US feet
North Reference	Grid
Scale	0.999607
Convergence at slot	0.17° East
Software System	WellArchitect® 5.1
User	Delaset
Report Generated	8/10/2019 at 9:38:51 PM
Database/Source file	WA_MPL_EasternUS_Defn/Schrader_Unit_2H_AWP_Proj_16345_.xml

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-48.83	10.95	1718093.59	14276513.18	39°18'51.703"N	80°43'31.322"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
Horizontal Reference Pt	Slot
Vertical Reference Pt	H&P 317 (RKB)
MD Reference Pt	H&P 317 (RKB)
Field Vertical Reference	Mean Sea Level
	H&P 317 (RKB) to Facility Vertical Datum
	H&P 317 (RKB) to Mean Sea Level
	H&P 317 (RKB) to Ground Level at Slot (Slot #10)
	Section Origin
	Section Azimuth
	25.50ft
	1401.50ft
	25.50ft
	N 0.00, E 0.00 ft
	342.49°



Actual Wellpath Report

Schrader Unit 2H AWP Proj: 16345'
Page 2 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #10
Area	Doddridge Co., WV	Well	Schrader Unit 2H
Field	Doddridge	Wellbore	Schrader Unit 2H AWB
Facility	Deets Pad		

WELLPATH DATA (207 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 (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Comments
0.00H	0.000	80.480	0.00	0.00	0.00	0.00	1718093.59	14276513.18	39°18'51.703"N	80°43'31.322"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	80.480	25.50	0.00	0.00	0.00	1718093.59	14276513.18	39°18'51.703"N	80°43'31.322"W	0.00	0.000	0.00	0.00	0.00	
50.00	0.650	80.480	50.00	-0.02	0.02	0.14	1718093.73	14276513.20	39°18'51.703"N	80°43'31.320"W	0.14	80.480	2.65	2.65	328.49	Gyrodatta MS Gyro <17-1/2">(50'-350')
75.00	0.680	71.690	75.00	-0.04	0.09	0.42	1718094.01	14276513.27	39°18'51.704"N	80°43'31.317"W	0.43	77.444	0.42	0.42	-35.16	
100.00	0.720	75.200	100.00	-0.04	0.18	0.71	1718094.30	14276513.36	39°18'51.705"N	80°43'31.313"W	0.73	75.800	0.23	0.16	14.04	
125.00	0.660	71.740	124.99	-0.05	0.27	1.00	1718094.59	14276513.44	39°18'51.706"N	80°43'31.309"W	1.03	75.144	0.29	-0.24	-13.84	
150.00	0.440	65.590	149.99	-0.03	0.35	1.22	1718094.81	14276513.53	39°18'51.706"N	80°43'31.306"W	1.27	74.041	0.91	-0.88	-24.60	
175.00	0.390	63.110	174.99	-0.01	0.43	1.39	1718094.98	14276513.61	39°18'51.707"N	80°43'31.304"W	1.45	72.847	0.21	-0.20	-9.92	
200.00	0.340	73.530	199.99	0.00	0.49	1.53	1718095.12	14276513.67	39°18'51.708"N	80°43'31.302"W	1.61	72.366	0.33	-0.20	41.68	
225.00	0.340	91.190	224.99	-0.02	0.51	1.68	1718095.27	14276513.69	39°18'51.708"N	80°43'31.301"W	1.75	73.197	0.42	0.00	70.64	
250.00	0.390	101.330	249.99	-0.09	0.49	1.84	1718095.43	14276513.67	39°18'51.708"N	80°43'31.299"W	1.90	75.098	0.33	0.20	40.56	
265.00	0.370	119.580	264.99	-0.15	0.45	1.93	1718095.52	14276513.63	39°18'51.707"N	80°43'31.297"W	1.98	76.732	0.81	-0.13	121.67	
280.00	0.510	119.000	279.99	-0.23	0.40	2.03	1718095.62	14276513.58	39°18'51.707"N	80°43'31.296"W	2.07	78.889	0.93	0.93	-3.87	
300.00	0.630	131.680	299.99	-0.39	0.28	2.19	1718095.78	14276513.46	39°18'51.706"N	80°43'31.294"W	2.21	82.654	0.87	0.60	63.40	
325.00	0.810	131.960	324.99	-0.66	0.07	2.42	1718096.01	14276513.25	39°18'51.704"N	80°43'31.291"W	2.42	88.282	0.72	0.72	1.12	
350.00	1.100	122.400	349.98	-1.00	-0.17	2.76	1718096.35	14276513.01	39°18'51.701"N	80°43'31.287"W	2.76	93.612	1.32	1.16	-38.24	
375.00	1.520	111.930	374.98	-1.39	-0.43	3.27	1718096.86	14276512.75	39°18'51.699"N	80°43'31.280"W	3.30	97.437	1.93	1.68	-41.88	Gyrodatta MS Gyro <12-1/4">(350')(375')
388.00	1.800	111.360	387.97	-1.63	-0.57	3.62	1718097.21	14276512.61	39°18'51.697"N	80°43'31.276"W	3.66	98.881	2.16	2.15	-4.38	APS EM <12-1/4">(375')(388'-2690')
517.00	5.170	99.910	516.72	-5.58	-2.30	11.23	1718104.82	14276510.88	39°18'51.680"N	80°43'31.179"W	11.47	101.592	2.65	2.61	-8.88	
609.00	7.830	96.500	608.12	-10.04	-3.73	21.54	1718115.13	14276509.45	39°18'51.665"N	80°43'31.048"W	21.86	99.815	2.92	2.89	-3.71	
701.00	11.600	90.620	698.78	-15.47	-4.54	37.03	1718130.60	14276508.64	39°18'51.657"N	80°43'30.851"W	37.30	96.986	4.23	4.10	-6.39	
794.00	15.220	86.130	789.23	-21.26	-3.81	58.56	1718152.13	14276509.37	39°18'51.664"N	80°43'30.577"W	58.69	93.726	4.05	3.89	-4.83	
889.00	18.000	85.130	880.26	-27.41	-1.73	85.63	1718179.19	14276511.46	39°18'51.683"N	80°43'30.233"W	85.65	91.154	2.94	2.93	-1.05	
983.00	20.450	86.120	969.01	-34.46	0.62	116.49	1718210.04	14276513.80	39°18'51.706"N	80°43'29.840"W	116.50	89.696	2.63	2.61	1.05	
1078.00	22.260	87.950	1057.49	-43.17	2.39	151.04	1718244.57	14276515.56	39°18'51.722"N	80°43'29.400"W	151.06	89.095	2.03	1.91	1.93	
1173.00	23.220	87.080	1145.10	-52.68	3.98	187.72	1718281.24	14276517.16	39°18'51.737"N	80°43'28.933"W	187.77	88.784	1.07	1.01	-0.92	
1268.00	24.700	88.510	1231.91	-62.88	5.45	226.27	1718319.77	14276518.63	39°18'51.750"N	80°43'28.443"W	226.34	88.619	1.67	1.56	1.51	
1363.00	25.490	87.920	1317.95	-73.79	6.71	266.54	1718360.03	14276519.89	39°18'51.761"N	80°43'27.931"W	266.63	88.558	0.87	0.83	-0.62	
1458.00	25.480	84.110	1403.71	-83.35	9.55	307.30	1718400.77	14276522.73	39°18'51.788"N	80°43'27.412"W	307.45	88.220	1.73	-0.01	-4.01	
1553.00	26.490	86.590	1489.11	-92.63	12.91	348.78	1718442.23	14276526.08	39°18'51.820"N	80°43'26.884"W	349.02	87.880	1.56	1.06	2.61	

Actual Wellpath Report

Schrader Unit 2H AWP Proj: 16345'

Page 3 of 11



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #10
Area	Doddridge Co., WV	Well	Schrader Unit 2H
Field	Doddridge	Wellbore	Schrader Unit 2H AWB
Facility	Deets Pad		

WELLPATH DATA (207 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (IUS ft)	Grid North (IUS ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (1/100ft)	Build Rate (1/100ft)	Turn Rate (1/100ft)	Comments
1647.00	27.470	87.370	1572.88	-103.30	15.15	391.36	1718484.80	14276528.32	39°18'51.841"N	80°43'26.342"W	391.66	87.783	1.11	1.04	0.83	
1742.00	26.920	89.230	1657.38	-115.12	16.44	434.76	1718528.17	14276529.62	39°18'51.852"N	80°43'25.790"W	435.07	87.834	1.07	-0.58	1.96	
1837.00	27.740	90.030	1741.77	-127.98	16.72	478.37	1718571.77	14276529.90	39°18'51.854"N	80°43'25.235"W	478.66	87.998	0.95	0.86	0.84	
1932.00	26.240	90.020	1826.42	-140.97	16.70	521.48	1718614.87	14276529.88	39°18'51.852"N	80°43'24.687"W	521.75	88.165	1.58	-1.58	-0.01	
2026.00	22.720	88.940	1911.96	-152.37	17.03	560.42	1718659.79	14276530.20	39°18'51.854"N	80°43'24.191"W	560.68	88.259	3.77	-3.74	-1.15	
2121.00	22.580	89.500	1999.63	-162.90	17.53	597.01	1718690.36	14276530.70	39°18'51.858"N	80°43'23.726"W	597.26	88.318	0.27	-0.15	0.58	
2216.00	22.250	88.360	2087.45	-173.16	18.20	633.22	1718726.56	14276531.38	39°18'51.864"N	80°43'23.265"W	633.48	88.353	0.57	-0.35	-1.20	
2311.00	22.090	86.470	2175.43	-182.39	19.82	669.03	1718762.36	14276532.99	39°18'51.879"N	80°43'22.809"W	669.32	88.303	0.77	-0.17	-1.93	
2405.00	22.980	85.540	2262.25	-190.81	22.33	704.97	1718798.28	14276535.51	39°18'51.902"N	80°43'22.352"W	705.32	88.185	1.02	0.95	-0.99	
2500.00	23.910	85.310	2349.41	-199.27	25.35	742.64	1718835.94	14276538.52	39°18'51.931"N	80°43'21.872"W	743.08	88.045	0.98	0.98	-0.24	
2595.00	23.240	83.340	2436.48	-207.07	29.10	780.45	1718873.73	14276542.27	39°18'51.967"N	80°43'21.391"W	780.99	87.865	1.09	-0.71	-2.07	
2690.00	22.260	80.110	2524.09	-212.98	34.36	816.79	1718910.06	14276547.53	39°18'52.018"N	80°43'20.929"W	817.51	87.591	1.67	-1.03	-3.40	
2747.00	22.100	78.350	2576.88	-215.51	38.38	837.93	1718931.19	14276551.55	39°18'52.057"N	80°43'20.660"W	838.81	87.377	1.20	-0.28	-3.05	APS EM <8-3/4"> (2690')(2747-6450')
2842.00	20.740	75.340	2665.31	-218.17	46.25	871.71	1718964.95	14276559.41	39°18'52.134"N	80°43'20.230"W	872.93	86.963	1.84	-1.43	-3.17	
2937.00	20.590	82.090	2754.22	-221.79	52.81	904.53	1718997.76	14276565.96	39°18'52.198"N	80°43'19.812"W	906.07	86.659	2.51	-0.16	7.11	
3034.00	20.540	84.250	2845.04	-228.10	56.86	938.36	1719031.58	14276570.02	39°18'52.237"N	80°43'19.381"W	940.08	86.533	0.78	-0.05	2.23	
3128.00	20.140	88.330	2933.18	-235.88	58.98	970.94	1719064.15	14276572.14	39°18'52.257"N	80°43'18.966"W	972.73	86.524	1.57	-0.43	4.34	
3223.00	22.340	92.430	3021.72	-246.50	58.69	1005.34	1719098.53	14276571.85	39°18'52.253"N	80°43'18.529"W	1007.05	86.659	2.79	2.32	4.32	
3318.00	24.020	94.440	3109.05	-259.89	56.43	1042.65	1719135.83	14276569.59	39°18'52.229"N	80°43'18.054"W	1044.18	86.902	1.95	1.77	2.12	
3413.00	24.730	94.820	3195.59	-274.67	53.26	1081.73	1719174.90	14276566.42	39°18'52.197"N	80°43'17.557"W	1083.04	87.181	0.77	0.75	0.40	
3508.00	25.010	93.970	3281.78	-289.57	50.20	1121.57	1719214.72	14276563.36	39°18'52.165"N	80°43'17.050"W	1122.69	87.437	0.48	0.29	-0.89	
3603.00	24.160	95.390	3368.16	-304.49	46.99	1160.96	1719254.09	14276560.15	39°18'52.132"N	80°43'16.549"W	1161.91	87.682	1.09	-0.89	1.49	
3698.00	24.390	94.540	3454.76	-319.42	43.61	1199.87	1719292.98	14276556.77	39°18'52.098"N	80°43'16.055"W	1200.66	87.919	0.44	0.24	-0.89	
3793.00	25.270	95.150	3540.98	-334.60	40.24	1239.62	1719332.72	14276553.40	39°18'52.063"N	80°43'15.549"W	1240.27	88.141	0.96	0.93	0.64	
3888.00	24.300	94.830	3627.23	-349.84	36.77	1279.29	1719372.37	14276549.93	39°18'52.028"N	80°43'15.044"W	1279.82	88.354	1.03	-1.02	-0.34	
3982.00	25.130	97.360	3712.62	-365.58	32.58	1318.36	1719411.43	14276545.75	39°18'51.985"N	80°43'14.547"W	1318.76	88.584	1.43	0.88	2.69	
4077.00	24.370	93.790	3798.90	-381.19	28.70	1357.93	1719450.98	14276541.87	39°18'51.946"N	80°43'14.044"W	1358.23	88.789	1.76	-0.80	-3.76	
4172.00	24.150	92.510	3885.51	-394.96	26.56	1396.90	1719489.94	14276539.73	39°18'51.923"N	80°43'13.548"W	1397.15	88.911	0.60	-0.23	-1.35	
4267.00	23.520	87.530	3972.42	-406.53	26.52	1435.25	1719528.28	14276539.69	39°18'51.922"N	80°43'13.060"W	1435.50	88.941	2.22	-0.66	-5.24	
4361.00	23.580	88.840	4058.59	-416.69	27.71	1472.79	1719565.80	14276540.88	39°18'51.932"N	80°43'12.583"W	1473.05	88.922	0.56	0.06	1.39	



Actual Wellpath Report

Schrader Unit 2H AWP Proj: 16345'
Page 4 of 11



REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Area	Doddridge Co., WV
Field	Doddridge
Facility	Deets Pad
Slot	Slot #10
Well	Schrader Unit 2H
Wellbore	Schrader Unit 2H AWB

WELLPATH DATA (207 stations)																
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sec (ft)	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Comments
4456.00	23.460	92.260	4145.70	-428.44	27.35	1510.69	1719603.68	14276540.52	39°18'51.927"N	80°43'12.101"W	1510.93	88.963	1.44	-0.13	3.60	
4551.00	22.530	91.100	4233.15	-440.64	26.26	1547.78	1719640.76	14276539.43	39°18'51.916"N	80°43'11.629"W	1548.00	89.028	1.09	-0.98	-1.22	
4646.00	24.610	85.230	4320.23	-450.82	27.55	1585.70	1719678.66	14276540.72	39°18'51.927"N	80°43'11.146"W	1585.94	89.005	3.30	2.19	-6.18	
4741.00	25.040	86.360	4406.45	-460.00	30.47	1625.48	1719718.42	14276543.64	39°18'51.955"N	80°43'10.640"W	1625.76	88.926	0.67	0.45	1.19	
4835.00	22.120	90.370	4492.60	-470.20	31.62	1663.04	1719755.97	14276544.79	39°18'51.965"N	80°43'10.162"W	1663.34	88.911	3.54	-3.11	4.27	
4930.00	19.890	94.850	4581.29	-481.85	30.14	1697.03	1719789.95	14276543.31	39°18'51.949"N	80°43'09.730"W	1697.30	88.983	2.89	-2.35	4.72	
5025.00	18.230	90.800	4671.08	-492.66	28.57	1727.99	1719820.90	14276541.73	39°18'51.933"N	80°43'09.336"W	1728.23	89.053	2.23	-1.75	-4.26	
5120.00	18.500	93.380	4761.24	-502.71	27.47	1757.90	1719850.79	14276540.64	39°18'51.921"N	80°43'08.955"W	1758.11	89.105	0.90	0.28	2.72	
5215.00	20.130	94.630	4850.89	-514.24	25.26	1789.24	1719882.12	14276538.43	39°18'51.898"N	80°43'08.557"W	1789.42	89.191	1.77	1.72	1.32	
5309.00	21.330	93.930	4938.81	-526.56	22.81	1822.42	1719915.29	14276535.98	39°18'51.873"N	80°43'08.135"W	1822.56	89.283	1.31	1.28	-0.89	
5404.00	21.120	91.400	5027.36	-538.39	21.24	1856.77	1719949.63	14276534.41	39°18'51.857"N	80°43'07.698"W	1856.89	89.345	0.95	-0.22	-2.56	
5499.00	21.570	92.870	5115.85	-550.02	19.95	1891.32	1719984.17	14276533.12	39°18'51.843"N	80°43'07.258"W	1891.43	89.396	0.74	0.47	1.53	
5594.00	22.710	90.450	5203.84	-561.76	18.93	1927.10	1720019.93	14276532.10	39°18'51.831"N	80°43'06.803"W	1927.20	89.437	1.54	1.20	-2.55	
5689.00	24.710	85.450	5290.83	-571.87	20.36	1965.24	1720058.06	14276533.53	39°18'51.844"N	80°43'06.318"W	1965.35	89.406	2.98	2.11	-5.26	
5784.00	25.750	84.110	5376.77	-580.48	24.05	2005.56	1720098.36	14276537.23	39°18'51.880"N	80°43'05.804"W	2005.71	89.313	1.25	1.09	-1.41	
5878.00	24.610	85.050	5461.83	-588.85	27.84	2045.38	1720138.16	14276541.01	39°18'51.916"N	80°43'05.298"W	2045.57	89.220	1.29	-1.21	1.00	
5976.00	24.490	85.060	5550.97	-597.71	31.35	2085.94	1720178.71	14276544.52	39°18'51.949"N	80°43'04.762"W	2086.18	89.139	0.12	-0.12	0.01	
6071.00	26.350	84.660	5636.77	-606.44	35.01	2126.56	1720219.31	14276548.17	39°18'51.984"N	80°43'04.265"W	2126.84	89.057	1.97	1.96	-0.42	
6166.00	26.840	85.340	5721.72	-615.65	38.71	2168.92	1720261.66	14276551.88	39°18'52.020"N	80°43'03.725"W	2169.27	88.977	0.61	0.52	0.72	
6261.00	27.060	88.670	5806.41	-626.44	40.96	2211.90	1720304.62	14276554.12	39°18'52.040"N	80°43'03.179"W	2212.28	88.939	1.61	0.23	3.51	
6355.00	26.270	86.870	5890.41	-637.57	42.59	2254.05	1720346.75	14276555.75	39°18'52.055"N	80°43'02.642"W	2254.45	88.918	1.20	-0.84	-1.91	
6450.00	25.230	88.050	5975.98	-648.22	44.42	2295.28	1720387.96	14276557.59	39°18'52.072"N	80°43'02.118"W	2295.71	88.891	1.22	-1.09	1.24	
6504.00	24.950	87.130	6024.88	-654.19	45.39	2318.16	1720410.83	14276558.55	39°18'52.081"N	80°43'01.827"W	2318.60	88.878	0.89	-0.52	-1.70	BHAT Curve <8-1/2"> (6450)-(6504)-16321'
6578.00	23.630	87.970	6092.33	-662.09	46.69	2348.57	1720441.23	14276559.85	39°18'52.093"N	80°43'01.440"W	2349.03	88.861	1.84	-1.78	1.14	
6673.00	23.610	90.300	6179.37	-672.99	47.27	2386.62	1720479.27	14276560.43	39°18'52.097"N	80°43'00.955"W	2387.09	88.865	0.98	-0.02	2.45	
6767.00	21.750	85.350	6266.11	-682.63	48.58	2422.81	1720515.44	14276561.74	39°18'52.109"N	80°43'00.495"W	2423.30	88.851	2.83	-1.98	-5.27	
6814.00	19.010	75.970	6310.18	-685.03	51.14	2438.92	1720551.55	14276564.30	39°18'52.134"N	80°43'00.290"W	2439.46	88.799	9.05	-5.83	-19.96	
6862.00	17.580	68.970	6355.75	-685.06	55.64	2453.28	1720545.90	14276568.80	39°18'52.178"N	80°43'00.107"W	2453.91	88.701	5.46	-2.98	-14.58	
6909.00	19.790	61.970	6400.28	-683.17	61.93	2466.93	1720559.54	14276575.09	39°18'52.240"N	80°42'59.933"W	2467.71	88.562	6.69	4.70	-14.89	
6957.00	20.960	53.940	6445.28	-678.95	70.80	2481.04	1720573.65	14276583.96	39°18'52.327"N	80°42'59.753"W	2482.05	88.365	6.31	2.44	-16.73	



Actual Wellpath Report

Schrader Unit 2H AWP Proj: 16345'

Page 5 of 11



REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #10
Operator	ANTERO RESOURCES CORPORATION		
Area	Doddridge Co., WV		
Field	Doddridge		
Well	Schrader Unit 2H		
Wellbore	Schrader Unit 2H AWB		
Facility	Deets Pad		

WELLPATH DATA (207 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 (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Comments
7004.00	22.380	45.530	6488.97	-672.22	82.02	2494.23	1720586.83	14276595.17	39°18'52.438"N	80°42'59.585"W	2495.58	88.116	7.26	3.02	-17.88	
7052.00	24.200	39.560	6533.06	-662.73	96.01	2507.02	1720599.62	14276609.15	39°18'52.575"N	80°42'59.422"W	2508.86	87.807	6.21	3.79	-12.44	
7099.00	25.230	36.050	6575.76	-651.54	111.54	2519.05	1720611.64	14276624.68	39°18'52.729"N	80°42'59.268"W	2521.52	87.465	3.81	2.19	-7.47	
7147.00	26.680	29.820	6618.93	-638.16	129.16	2530.43	1720623.02	14276642.29	39°18'52.902"N	80°42'59.122"W	2533.73	87.078	6.43	3.02	-12.98	
7194.00	27.960	23.010	6660.69	-622.63	148.47	2539.99	1720632.57	14276661.59	39°18'53.093"N	80°42'59.000"W	2544.32	86.655	7.18	2.72	-14.49	
7241.00	29.900	16.910	6701.84	-604.58	169.82	2547.71	1720640.29	14276682.93	39°18'53.304"N	80°42'58.901"W	2553.36	86.186	7.51	4.13	-12.98	
7288.00	32.590	12.770	6742.02	-583.98	193.38	2553.91	1720646.49	14276706.49	39°18'53.536"N	80°42'58.821"W	2561.22	85.670	7.32	5.72	-8.81	
7336.00	35.280	8.570	6781.85	-560.36	219.70	2558.84	1720651.42	14276732.80	39°18'53.796"N	80°42'58.757"W	2568.25	85.093	7.43	5.60	-8.79	
7383.00	37.990	4.860	6819.56	-534.78	247.55	2562.09	1720654.66	14276760.63	39°18'54.071"N	80°42'58.715"W	2574.02	84.481	7.44	5.77	-7.89	
7431.00	40.980	1.690	6856.61	-506.25	278.01	2563.80	1720656.38	14276791.08	39°18'54.372"N	80°42'58.692"W	2578.83	83.811	7.51	6.23	-6.60	
7452.00†	42.510	0.528	6872.28	-493.00	291.99	2564.07	1720656.65	14276805.05	39°18'54.511"N	80°42'58.688"W	2580.64	83.503	8.17	7.29	-5.53	Middlesex: 7452' MD
7478.00	44.420	359.180	6891.15	-475.93	309.87	2564.02	1720656.60	14276822.93	39°18'54.687"N	80°42'58.688"W	2582.68	83.109	8.17	7.35	-5.18	
7526.00	47.630	357.550	6924.47	-442.71	344.39	2563.02	1720655.60	14276857.44	39°18'55.029"N	80°42'58.699"W	2586.06	82.347	7.12	6.69	-3.40	
7573.00	51.540	356.290	6954.94	-408.06	380.12	2561.09	1720653.67	14276893.15	39°18'55.382"N	80°42'58.722"W	2589.14	81.558	8.57	8.32	-2.68	
7620.00	54.580	354.850	6983.18	-371.47	417.56	2558.18	1720650.76	14276930.58	39°18'55.752"N	80°42'58.758"W	2592.03	80.730	6.92	6.47	-3.06	
7667.00	56.930	353.250	7009.63	-333.41	456.20	2554.14	1720646.73	14276969.20	39°18'56.134"N	80°42'58.808"W	2594.57	79.873	5.74	5.00	-3.40	
7683.00†	57.904	352.688	7018.25	-320.15	469.58	2552.49	1720645.08	14276982.58	39°18'56.266"N	80°42'58.828"W	2595.33	79.576	6.77	6.09	-3.51	Burkett: 7683' MD
7715.00	59.860	351.600	7034.78	-293.15	496.72	2548.75	1720641.33	14277009.70	39°18'56.535"N	80°42'58.875"W	2596.70	78.972	6.77	6.11	-3.40	
7736.00†	61.343	350.541	7045.09	-275.06	514.79	2545.91	1720638.49	14277027.77	39°18'56.713"N	80°42'58.910"W	2597.43	78.569	8.32	7.06	-5.04	Tully: 7736' MD
7762.00	63.190	349.270	7057.19	-252.24	537.44	2541.87	1720634.46	14277050.41	39°18'56.937"N	80°42'58.961"W	2598.07	78.061	8.32	7.10	-4.89	
7810.00	66.710	346.700	7077.51	-208.96	579.96	2532.81	1720625.40	14277092.91	39°18'57.358"N	80°42'59.074"W	2598.36	77.103	8.79	7.33	-5.35	
7857.00	69.340	345.660	7095.10	-165.47	622.28	2522.39	1720614.99	14277135.21	39°18'57.776"N	80°42'59.205"W	2598.02	76.142	5.96	5.60	-2.21	
7905.00	70.810	344.680	7111.46	-120.40	665.90	2510.84	1720603.44	14277178.82	39°18'58.208"N	80°42'59.350"W	2597.64	75.146	3.61	3.06	-2.04	
7935.00†	71.901	344.238	7121.05	-91.99	693.29	2503.23	1720595.83	14277206.19	39°18'58.479"N	80°42'59.446"W	2597.46	74.520	3.90	3.64	-1.47	Marcellus POE: 7935' MD
7952.00	72.520	343.990	7126.24	-75.81	708.86	2498.79	1720591.40	14277221.76	39°18'58.633"N	80°42'59.502"W	2597.39	74.162	3.90	3.64	-1.46	
8000.00	75.290	343.760	7139.55	-29.71	753.16	2485.99	1720578.59	14277266.04	39°18'59.071"N	80°42'59.663"W	2597.57	73.145	5.79	5.77	-0.48	
8047.00	79.390	343.460	7149.85	16.13	797.14	2473.05	1720565.66	14277310.01	39°18'59.506"N	80°42'59.826"W	2598.35	72.134	8.75	8.72	-0.64	
8094.00	83.180	342.440	7156.97	62.58	841.55	2459.43	1720552.05	14277354.39	39°18'59.945"N	80°42'59.997"W	2599.42	71.111	8.34	8.06	-2.17	
8141.00	86.270	341.030	7161.29	109.37	885.98	2444.76	1720537.38	14277398.81	39°19'00.385"N	80°43'00.182"W	2600.35	70.079	7.22	6.57	-3.00	
8189.00	88.830	340.650	7163.34	157.30	931.28	2429.02	1720521.65	14277444.09	39°19'00.833"N	80°43'00.381"W	2601.43	69.023	5.39	5.33	-0.79	



Actual Wellpath Report

Schrader Unit 2H AWP Proj: 16345'

Page 6 of 11



REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #10
Operator	ANTERO RESOURCES CORPORATION		
Area	Doddridge Co., WV		
Field	Doddridge		
Facility	Deets Pad		
	Well	Schrader Unit 2H	
	Wellbore	Schrader Unit 2H AWB	

WELLPATH DATA (207 stations)																
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (IUS ft)	Grid North (IUS ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Comments
8284.00	88.280	340.880	7165.73	252.23	1020.95	2397.74	1720490.38	14277533.72	39°19'01.721"N	80°43'00.775"W	2606.04	66.936	0.63	-0.58	0.24	
8379.00	89.510	343.150	7167.57	347.20	1111.28	2368.41	1720461.06	14277624.02	39°19'02.614"N	80°43'01.145"W	2616.16	64.864	2.72	1.29	2.39	
8474.00	88.060	344.060	7169.58	442.16	1202.39	2341.60	1720434.27	14277715.10	39°19'03.516"N	80°43'01.482"W	2632.27	62.820	1.80	-1.53	0.96	
8569.00	88.550	344.420	7172.39	537.07	1293.78	2315.81	1720408.49	14277806.45	39°19'04.420"N	80°43'01.807"W	2652.71	60.809	0.64	0.52	0.38	
8663.00	88.460	345.140	7174.84	630.96	1384.45	2291.14	1720383.83	14277897.09	39°19'05.317"N	80°43'02.117"W	2676.95	58.857	0.77	-0.10	0.77	
8758.00	88.890	346.870	7177.04	725.75	1476.60	2268.18	1720360.87	14277989.20	39°19'06.228"N	80°43'02.406"W	2706.47	56.935	1.88	0.45	1.82	
8853.00	89.820	347.400	7178.11	820.43	1569.21	2247.02	1720339.73	14278081.77	39°19'07.144"N	80°43'02.671"W	2740.72	55.071	1.13	0.98	0.56	
8948.00	90.430	345.790	7177.90	915.19	1661.62	2225.00	1720317.71	14278174.14	39°19'08.058"N	80°43'02.947"W	2776.98	53.248	1.81	0.64	-1.69	
9042.00	90.150	343.370	7177.43	1009.12	1752.23	2200.01	1720292.73	14278264.72	39°19'08.954"N	80°43'03.262"W	2812.53	51.464	2.59	-0.30	-2.57	
9137.00	89.450	338.530	7177.76	1104.05	1842.00	2189.01	1720261.75	14278354.45	39°19'09.843"N	80°43'03.653"W	2845.62	49.661	5.15	-0.74	-5.09	
9232.00	89.850	339.120	7178.34	1198.86	1930.58	2134.70	1720227.44	14278443.00	39°19'10.719"N	80°43'04.086"W	2878.21	47.874	0.75	0.42	0.62	
9327.00	89.820	339.790	7178.61	1293.72	2019.54	2101.36	1720194.12	14278531.92	39°19'11.599"N	80°43'04.506"W	2914.49	46.137	0.71	-0.03	0.71	
9422.00	89.970	340.590	7178.79	1388.64	2108.92	2069.16	1720161.94	14278621.26	39°19'12.484"N	80°43'04.913"W	2954.48	44.455	0.86	0.16	0.84	
9517.00	90.220	340.450	7178.63	1483.59	2198.48	2037.48	1720130.27	14278710.79	39°19'13.370"N	80°43'05.312"W	2997.44	42.823	0.30	0.26	-0.15	
9612.00	89.820	339.450	7178.60	1578.49	2287.72	2004.91	1720097.71	14278799.99	39°19'14.253"N	80°43'05.723"W	3041.93	41.231	1.13	-0.42	-1.05	
9707.00	90.060	339.860	7178.70	1673.38	2376.79	1971.88	1720064.70	14278889.03	39°19'15.134"N	80°43'06.140"W	3088.28	39.680	0.50	0.25	0.43	
9801.00	89.970	338.650	7178.67	1767.23	2464.70	1938.59	1720031.41	14278976.90	39°19'16.004"N	80°43'06.560"W	3135.74	38.187	1.29	-0.10	-1.29	
9896.00	89.450	337.990	7179.15	1861.97	2552.97	1903.49	1719996.33	14279065.15	39°19'16.878"N	80°43'07.003"W	3184.49	36.708	0.88	-0.55	-0.69	
9991.00	89.350	339.490	7180.15	1956.76	2641.50	1869.05	1719961.90	14279153.64	39°19'17.754"N	80°43'07.438"W	3235.87	35.282	1.58	-0.11	1.58	
10086.00	89.910	341.260	7180.76	2051.69	2730.98	1837.15	1719930.01	14279243.08	39°19'18.639"N	80°43'07.840"W	3291.40	33.929	1.95	0.59	1.86	
10181.00	89.940	341.940	7180.88	2146.68	2821.12	1807.16	1719900.04	14279333.18	39°19'19.531"N	80°43'08.218"W	3350.30	32.643	0.72	0.03	0.72	
10275.00	89.910	341.330	7181.01	2240.67	2910.33	1777.54	1719870.43	14279422.36	39°19'20.414"N	80°43'08.591"W	3410.23	31.415	0.65	-0.03	-0.65	
10370.00	89.720	342.490	7181.31	2335.66	3000.63	1748.05	1719840.94	14279512.63	39°19'21.307"N	80°43'08.963"W	3472.67	30.223	1.24	-0.20	1.22	
10465.00	90.680	344.760	7180.98	2430.63	3091.77	1721.26	1719814.17	14279603.73	39°19'22.209"N	80°43'09.300"W	3538.62	29.106	2.59	1.01	2.39	
10560.00	88.580	342.160	7181.60	2525.60	3182.83	1694.22	1719787.14	14279694.75	39°19'23.109"N	80°43'09.641"W	3605.66	28.026	3.52	-2.21	-2.74	
10655.00	90.860	346.570	7182.06	2620.52	3274.28	1668.63	1719761.56	14279786.17	39°19'24.014"N	80°43'09.963"W	3674.95	27.004	5.23	2.40	4.64	
10749.00	90.180	347.090	7181.21	2714.25	3365.81	1647.21	1719740.15	14279877.66	39°19'24.919"N	80°43'10.232"W	3747.26	26.077	0.91	-0.72	0.55	
10844.00	89.660	342.730	7181.34	2809.14	3457.51	1622.49	1719715.44	14279969.32	39°19'25.826"N	80°43'10.543"W	3819.27	25.139	4.62	-0.55	-4.59	
10939.00	89.660	340.580	7181.90	2904.12	3547.67	1592.59	1719685.55	14280059.45	39°19'26.719"N	80°43'10.920"W	3888.74	24.176	2.26	0.00	-2.26	
11034.00	90.280	341.420	7181.95	2999.09	3637.49	1561.66	1719654.63	14280149.24	39°19'27.607"N	80°43'11.310"W	3958.55	23.235	1.10	0.65	0.88	



Actual Wellpath Report

Schrader Unit 2H AWP Proj: 16345'



REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Area	Doddridge Co., WV
Field	Doddridge
Facility	Deets Pad
Slot	Slot #10
Well	Schrader Unit 2H
Wellbore	Schrader Unit 2H AWB

WELLPATH DATA (207 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	
11129.00	90.370	342.080	7181.42	3094.06	3727.71	1531.91	1719624.90	14280239.42	39°19'28.500"N	80°43'11.685"W	4030.21	22.340	0.70	0.09	0.70	0.69	
11224.00	90.310	340.950	7180.85	3189.06	3817.81	1501.79	1719594.79	14280329.48	39°19'29.391"N	80°43'12.064"W	4102.57	21.473	1.19	-0.06	-1.19	-1.19	
11318.00	90.120	338.640	7180.50	3282.95	3906.02	1469.33	1719562.34	14280417.66	39°19'30.264"N	80°43'12.474"W	4173.24	20.615	2.47	-0.20	-2.47	-2.46	
11413.00	89.170	333.530	7181.09	3377.32	3992.83	1430.83	1719523.86	14280504.43	39°19'31.123"N	80°43'12.961"W	4241.46	19.715	5.47	-1.00	-5.38	-5.38	
11508.00	89.020	334.660	7182.59	3471.29	4078.27	1389.33	1719482.38	14280589.84	39°19'31.969"N	80°43'13.485"W	4308.43	18.812	1.20	-0.16	-1.19	-1.19	
11603.00	90.310	338.100	7183.14	3565.74	4165.30	1351.28	1719444.33	14280676.83	39°19'32.830"N	80°43'13.966"W	4379.00	17.974	3.87	1.36	3.62	3.62	
11698.00	89.750	336.990	7183.09	3660.38	4253.09	1314.99	1719408.06	14280764.59	39°19'33.689"N	80°43'14.424"W	4451.74	17.181	1.31	-0.59	-1.17	-1.17	
11792.00	90.370	339.520	7183.00	3754.11	4340.40	1280.17	1719373.26	14280851.86	39°19'34.563"N	80°43'14.864"W	4525.25	16.433	2.77	0.66	2.69	2.69	
11887.00	89.970	341.840	7182.71	3849.06	4430.04	1248.74	1719341.84	14280941.47	39°19'35.450"N	80°43'15.260"W	4602.68	15.742	2.48	-0.42	-2.44	-2.44	
11982.00	89.450	344.890	7183.19	3944.04	4521.05	1221.55	1719314.66	14281032.45	39°19'36.350"N	80°43'15.603"W	4683.17	15.120	3.26	-0.55	-3.21	-3.21	
12077.00	89.720	347.040	7183.88	4038.85	4613.21	1198.51	1719291.63	14281124.57	39°19'37.262"N	80°43'15.892"W	4766.35	14.564	2.28	0.28	2.26	2.26	
12172.00	90.000	349.110	7184.11	4133.40	4706.15	1178.88	1719272.01	14281217.47	39°19'38.181"N	80°43'16.139"W	4851.56	14.063	2.20	0.29	2.18	2.18	
12267.00	89.780	350.570	7184.30	4227.61	4799.66	1162.13	1719255.26	14281310.94	39°19'39.106"N	80°43'16.348"W	4938.35	13.611	1.55	-0.23	-1.54	-1.54	
12362.00	89.910	347.770	7184.55	4321.96	4892.96	1144.28	1719237.42	14281404.21	39°19'40.029"N	80°43'16.572"W	5024.98	13.163	2.95	0.14	-2.95	-2.95	
12457.00	90.000	344.120	7184.63	4416.77	4985.10	1121.21	1719214.36	14281496.31	39°19'40.940"N	80°43'16.861"W	5109.63	12.676	3.84	0.09	-3.84	-3.84	
12551.00	89.750	343.690	7184.83	4510.74	5075.41	1095.15	1719188.31	14281586.59	39°19'41.833"N	80°43'17.190"W	5192.22	12.176	0.53	-0.27	-0.46	-0.46	
12646.00	89.850	344.640	7185.17	4605.70	5166.81	1069.23	1719162.40	14281677.95	39°19'42.737"N	80°43'17.516"W	5276.28	11.692	1.01	0.11	1.00	1.00	
12741.00	89.630	345.910	7185.60	4700.58	5258.68	1045.08	1719138.26	14281769.79	39°19'43.646"N	80°43'17.820"W	5361.53	11.240	1.36	-0.23	-1.34	-1.34	
12836.00	89.910	347.300	7185.98	4795.34	5351.10	1023.08	1719116.26	14281862.16	39°19'44.560"N	80°43'18.096"W	5448.02	10.824	1.49	0.29	1.46	1.46	
12931.00	89.970	347.690	7186.08	4889.97	5443.84	1002.51	1719095.70	14281954.87	39°19'45.478"N	80°43'18.354"W	5535.38	10.434	0.42	0.06	0.41	0.41	
13026.00	89.880	344.400	7186.20	4984.78	5536.03	979.60	1719072.80	14282047.02	39°19'46.389"N	80°43'18.642"W	5622.03	10.035	3.46	-0.09	-3.46	-3.46	
13121.00	89.570	344.470	7186.66	5079.72	5627.54	954.11	1719047.32	14282138.50	39°19'47.295"N	80°43'18.963"W	5707.85	9.623	0.33	-0.33	0.07	0.07	
13215.00	89.600	341.850	7187.34	5173.70	5717.50	926.88	1719020.10	14282228.42	39°19'48.185"N	80°43'19.306"W	5792.14	9.208	2.79	0.03	-2.79	-2.79	
13310.00	89.850	340.140	7187.80	5268.67	5807.32	895.95	1718989.18	14282318.20	39°19'49.073"N	80°43'19.696"W	5876.02	8.770	1.82	0.26	-1.80	-1.80	
13405.00	89.660	337.250	7188.20	5363.45	5895.82	861.43	1718954.68	14282406.67	39°19'49.949"N	80°43'20.132"W	5958.41	8.313	3.05	-0.20	-3.04	-3.04	
13500.00	89.510	336.430	7188.89	5457.98	5983.16	824.07	1718917.33	14282493.97	39°19'50.813"N	80°43'20.604"W	6039.64	7.842	0.88	-0.16	-0.86	-0.86	
13595.00	89.630	336.290	7189.60	5552.44	6070.18	785.98	1718879.26	14282580.96	39°19'51.675"N	80°43'21.085"W	6120.85	7.378	0.19	0.13	-0.15	-0.15	
13690.00	90.220	338.300	7189.73	5647.04	6157.81	749.31	1718842.60	14282668.56	39°19'52.542"N	80°43'21.548"W	6203.24	6.938	2.21	0.62	2.12	2.12	
13784.00	89.750	337.910	7189.75	5740.77	6245.03	714.26	1718807.57	14282755.75	39°19'53.405"N	80°43'21.991"W	6285.75	6.525	0.65	-0.50	-0.41	-0.41	
13879.00	89.850	338.340	7190.08	5835.49	6333.19	678.86	1718772.18	14282843.87	39°19'54.277"N	80°43'22.438"W	6369.47	6.118	0.46	0.11	0.45	0.45	



Actual Wellpath Report

Schrader Unit 2H AWP Proj: 16345'

Page 8 of 11



REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #10
Operator	ANTERO RESOURCES CORPORATION	Well	Schrader Unit 2H
Area	Doddridge Co., WV	Wellbore	Schrader Unit 2H AWB
Field	Doddridge		
Facility	Deets Pad		

WELLPATH DATA (207 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 (1/100ft)	Build Rate (1/100ft)	Turn Rate (1/100ft)	Comments
13974.00	89.910	340.150	7190.28	5930.33	6422.02	645.20	1718738.53	14282932.67	39°19'55.156"N	80°43'22.863"W	6454.35	5.737	1.91	0.06	1.91	
14069.00	89.540	341.550	7190.74	6025.29	6511.76	614.04	1718707.38	14283022.37	39°19'56.044"N	80°43'23.256"W	6540.55	5.387	1.52	-0.38	1.47	
14164.00	90.060	342.570	7191.07	6120.29	6602.14	584.77	1718678.13	14283112.71	39°19'56.938"N	80°43'23.625"W	6627.99	5.062	1.21	0.55	1.07	
14259.00	89.750	344.080	7191.23	6215.27	6693.14	557.52	1718650.89	14283203.68	39°19'57.839"N	80°43'23.968"W	6716.32	4.762	1.62	-0.33	1.59	
14353.00	89.780	346.290	7191.61	6309.16	6784.01	533.48	1718626.86	14283294.51	39°19'58.737"N	80°43'24.271"W	6804.96	4.496	2.35	0.03	2.35	
14448.00	90.000	347.030	7191.80	6403.91	6876.45	511.56	1718604.95	14283386.91	39°19'59.652"N	80°43'24.546"W	6895.45	4.255	0.81	0.23	0.78	
14543.00	90.490	347.720	7191.39	6498.56	6969.15	490.80	1718584.20	14283479.58	39°20'00.569"N	80°43'24.807"W	6986.41	4.028	0.89	0.52	0.73	
14638.00	89.630	347.850	7191.29	6593.16	7062.00	470.70	1718564.10	14283572.39	39°20'01.487"N	80°43'25.059"W	7077.67	3.813	0.92	-0.91	0.14	
14733.00	89.940	345.660	7191.65	6687.89	7154.47	448.93	1718542.35	14283664.82	39°20'02.401"N	80°43'25.332"W	7168.54	3.591	2.33	0.33	-2.31	
14828.00	89.910	341.820	7191.77	6782.85	7245.65	422.34	1718515.76	14283755.97	39°20'03.303"N	80°43'25.667"W	7257.95	3.336	4.04	-0.03	-4.04	
14923.00	89.660	339.950	7192.13	6877.80	7335.41	391.23	1718484.67	14283845.69	39°20'04.192"N	80°43'26.059"W	7345.83	3.053	1.99	-0.26	-1.97	
15017.00	90.000	339.810	7192.41	6971.71	7423.67	358.90	1718452.35	14283933.92	39°20'05.065"N	80°43'26.467"W	7432.34	2.768	0.39	0.36	-0.15	
15112.00	89.910	341.500	7192.48	7066.65	7513.30	327.43	1718420.89	14284023.51	39°20'05.952"N	80°43'26.864"W	7520.43	2.495	1.78	-0.08	1.78	
15207.00	89.690	342.570	7192.81	7161.65	7603.67	298.13	1718391.60	14284113.84	39°20'06.846"N	80°43'27.234"W	7609.51	2.245	1.15	-0.23	1.13	
15302.00	89.880	343.830	7193.17	7256.64	7694.61	270.67	1718364.15	14284204.75	39°20'07.745"N	80°43'27.580"W	7699.37	2.015	1.34	0.20	1.33	
15397.00	89.850	345.620	7193.39	7351.56	7786.25	245.64	1718339.14	14284296.35	39°20'08.652"N	80°43'27.895"W	7790.12	1.807	1.88	-0.03	1.88	
15491.00	89.880	345.890	7193.61	7445.41	7877.36	222.51	1718316.02	14284387.43	39°20'09.553"N	80°43'28.186"W	7880.50	1.618	0.29	0.03	0.29	
15586.00	89.940	344.910	7193.76	7540.29	7969.29	198.57	1718292.08	14284479.32	39°20'10.462"N	80°43'28.487"W	7971.76	1.427	1.03	0.06	-1.03	
15681.00	89.940	346.810	7193.86	7635.12	8061.41	175.36	1718268.88	14284571.40	39°20'11.374"N	80°43'28.779"W	8063.32	1.246	2.00	0.00	2.00	
15776.00	90.120	347.280	7193.81	7729.82	8153.99	154.06	1718247.59	14284663.95	39°20'12.289"N	80°43'29.046"W	8155.45	1.082	0.53	0.19	0.49	
15871.00	89.880	346.380	7193.81	7824.54	8246.49	132.42	1718225.96	14284756.41	39°20'13.204"N	80°43'29.318"W	8247.55	0.920	0.98	-0.25	-0.95	
15966.00	90.370	346.210	7193.61	7919.33	8338.79	109.91	1718203.46	14284848.67	39°20'14.117"N	80°43'29.601"W	8339.51	0.755	0.55	0.52	-0.18	
16061.00	90.150	346.660	7193.17	8014.11	8431.13	87.63	1718181.19	14284940.98	39°20'15.030"N	80°43'29.881"W	8431.59	0.595	0.53	-0.23	0.47	
16156.00	89.970	344.510	7193.07	8108.96	8523.14	63.98	1718157.55	14285032.95	39°20'15.940"N	80°43'30.178"W	8523.38	0.430	2.27	-0.19	-2.26	
16250.00	90.030	340.480	7193.07	8202.94	8612.77	35.71	1718129.29	14285122.54	39°20'16.827"N	80°43'30.535"W	8612.84	0.238	4.29	0.06	-4.29	
16321.00	90.400	339.210	7192.81	8273.87	8679.42	11.25	1718104.84	14285189.17	39°20'17.487"N	80°43'30.843"W	8679.42	0.074	1.86	0.52	-1.79	
16345.00	90.400	339.210	7192.64	8297.83	8701.85	2.73	1718096.32	14285211.60	39°20'17.709"N	80°43'30.951"W	8701.85	0.018	0.00	0.00	0.00	Projected MD at TD: 16345'



Actual Wellpath Report

Schrader Unit 2H AWP Proj: 16345'

Page 9 of 11



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #10
Area	Doddridge Co., WY	Well	Schrader Unit 2H
Field	Doddridge	Wellbore	Schrader Unit 2H AWB
Facility	Deets Pad		

HOLE & CASING SECTIONS - Ref Wellbore: Schrader Unit 2H AWB Ref Wellpath: Schrader Unit 2H AWP Proj: 16345'

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
20in Conductor	25.50	105.50	80.00	25.50	105.50	0.00	0.00	0.20	0.78
17.5in Open Hole	105.50	366.00	260.50	105.50	365.98	0.20	0.78	-0.34	3.06
13.375in Casing Surface	25.50	351.00	325.50	25.50	350.98	0.00	0.00	-0.18	2.77
12.25in Open Hole	366.00	2756.00	2390.00	365.98	2585.22	-0.34	3.06	39.07	841.23
9.625in Casing Intermediate	25.50	2698.00	2672.50	25.50	2531.50	0.00	0.00	34.89	819.77
8.75in Open Hole	2756.00	6528.00	3772.00	2585.22	6046.68	39.07	841.23	45.87	2328.19
8.5in Open Hole	6528.00	16345.00	9817.00	6046.68	7192.64	45.87	2328.19	8701.85	2.73
5.5in Casing Production	25.50	16345.00	16319.50	25.50	7192.64	0.00	0.00	8701.85	2.73

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Schrader Unit 2H - POE - Rev-1	7112.00	667.24	2509.76	1720602.36	14277180.16	39°18'58.221"N	80°42'59.364"W	point
Schrader Unit 2H - BHL - Rev-1	7152.00	8740.58	-36.61	1718057.00	14285250.31	39°20'18.093"N	80°43'31.450"W	point
Schrader Unit 2H - LP - Rev-1	7152.00	908.28	2433.74	1720526.36	14277421.11	39°19'00.606"N	80°43'00.322"W	point



Actual Wellpath Report

Schrader Unit 2H AWP Proj: 16345'

Page 10 of 11



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #10
Area	Doddridge Co., WV	Well	Schrader Unit 2H
Field	Doddridge	Wellbore	Schrader Unit 2H AWB
Facility	Deets Pad		

WELLPATH COMPOSITION - Ref Wellbore: Schrader Unit 2H AWB Ref Wellpath: Schrader Unit 2H AWP Proj: 16345'

Start MD (ft)	End MD (ft)	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.50	350.00	Gyrodata standard - Drop gyro or Multi-shot	01 Gyrodata MS Gyro <17-1/2">(50'-350')	Schrader Unit 2H AWB
350.00	375.00	Gyrodata standard - Drop gyro or Multi-shot	02 Gyrodata MS Gyro <12-1/4">(350')(375')	Schrader Unit 2H AWB
375.00	2690.00	BHI NaviTrak (Axial)	03 APS EM <12-1/4">(375')(388'-2690')	Schrader Unit 2H AWB
2690.00	6450.00	BHI NaviTrak (Axial)	04 APS EM <8-3/4">(2690')(2747'-6450')	Schrader Unit 2H AWB
6450.00	16321.00	BHI AutoTrak Curve (Short)	05 BH AT Curve <8-1/2">(6450')(6504'-16321')	Schrader Unit 2H AWB
16321.00	16345.00	Blind Drilling (std)	Projection to bit	Schrader Unit 2H AWB



Actual Wellpath Report

Schrader Unit 2H AWP Proj: 16345'
Page 11 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #10
Area	Doddridge Co., WV	Well	Schrader Unit 2H
Field	Doddridge	Wellbore	Schrader Unit 2H AWB
Facility	Deets Pad		

COMMENTS

Wellpath general comments

API: 47-017-06879-0000
 BHI Job #: 109894520
 Rig: H&P 317
 Duration: 07/13/2019-07/21/2019
 Gyrodatta MS Gyro <17-1/2">(50'-350')
 Gyrodatta MS Gyro <12-1/4">(350')(375')
 APS EM <12-1/4">(375')(388'-2690')
 APS EM <8-3/4">(2690')(2747'-6450')
 BH AT Curve <8-1/2">(6450')(6504'-16321')
 Middlesex: 7452' MD
 Burkett: 7683' MD
 Tully: 7736' MD
 Marcellus POE: 7935' MD
 Projected MD at TD: 16345'