



ANTERO RESOURCES CORPORATION



Location: Doddridge Co., WV
 Field: Doddridge
 Facility: OXFD 98 Pad

Slot: Slot C
 Well: Redwood Unit 1H
 Wellbore: Redwood Unit 1H PWB

Plot reference wellpath is Redwood Unit 1H PWP Rev-B.0	Grid System: NAD83 / UTM Zone 17 North, US feet
Tie Vertical Depths are referenced to H&P 317 (RKB)	North Reference: Grid north
(Reference wellpath) measured depths are referenced to H&P 317 (RKB)	Scale: True distance
H&P 317 (RKB) is Mean Sea Level, 1146.5 feet	Coordinates are in feet referenced to Chart
Mean Sea Level to Ground level (At Slot: Slot C) -1121 feet	Depths are in feet
Other wellpath MDs are referenced to each wellpath's defined MD datum	Created by: antero on 2022/05/18, Database: WA_MPL_EASTERN/SJ_Dat

Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
OXFD 98 Pad	1697152.730	1425403.930	39°15'11.6900"N	80°47'58.4960"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot C	-28.55	-8.98	1697143.780	14254175.290
			39°15'11.3790"N	80°47'58.6010"W
Comment: Redwood Unit 1H				
H&P 317 (RKB) to Ground level (At Slot: Slot C)	25.5ft			
Mean Sea Level to Ground level (At Slot: Slot C)	-1121ft			
H&P 317 (RKB) to Mean Sea Level	1146.5ft			

Well Data			
Slot	Well	Wellbore	Wellpath
Slot C	Redwood Unit 1H	Redwood Unit 1H AWB	Redwood Unit 1H AWP Proj. 14002'
Slot C	Redwood Unit 1H	Redwood Unit 1H PWB	Redwood Unit 1H PWP Rev-B.0

Gyrodata MS Gyro <17-1/2"> (100'-382') : 0.15° Inc, 100.00ft MD, 100.00ft TVD, 0.06ft VS
 APS EM <12-1/4"> (382')(416'-2552') : 0.85° Inc, 416.00ft MD, 415.99ft TVD, -0.87ft VS



User specified (HDGM) Dip: 66.00° Field: 51637 nT
 Magnetic North is 7.43 degrees West of True North (at 9/19/2022)
 Grid North is 0.13 degrees East of True North
 To correct azimuth from True to Grid subtract 0.13 degrees
 To correct azimuth from Magnetic to Grid subtract 7.56 degrees

APS EM <8-3/4"> (2552')(2651'-5017') : 12.45° Inc, 2651.00ft MD, 2605.35ft TVD, -354.65ft VS

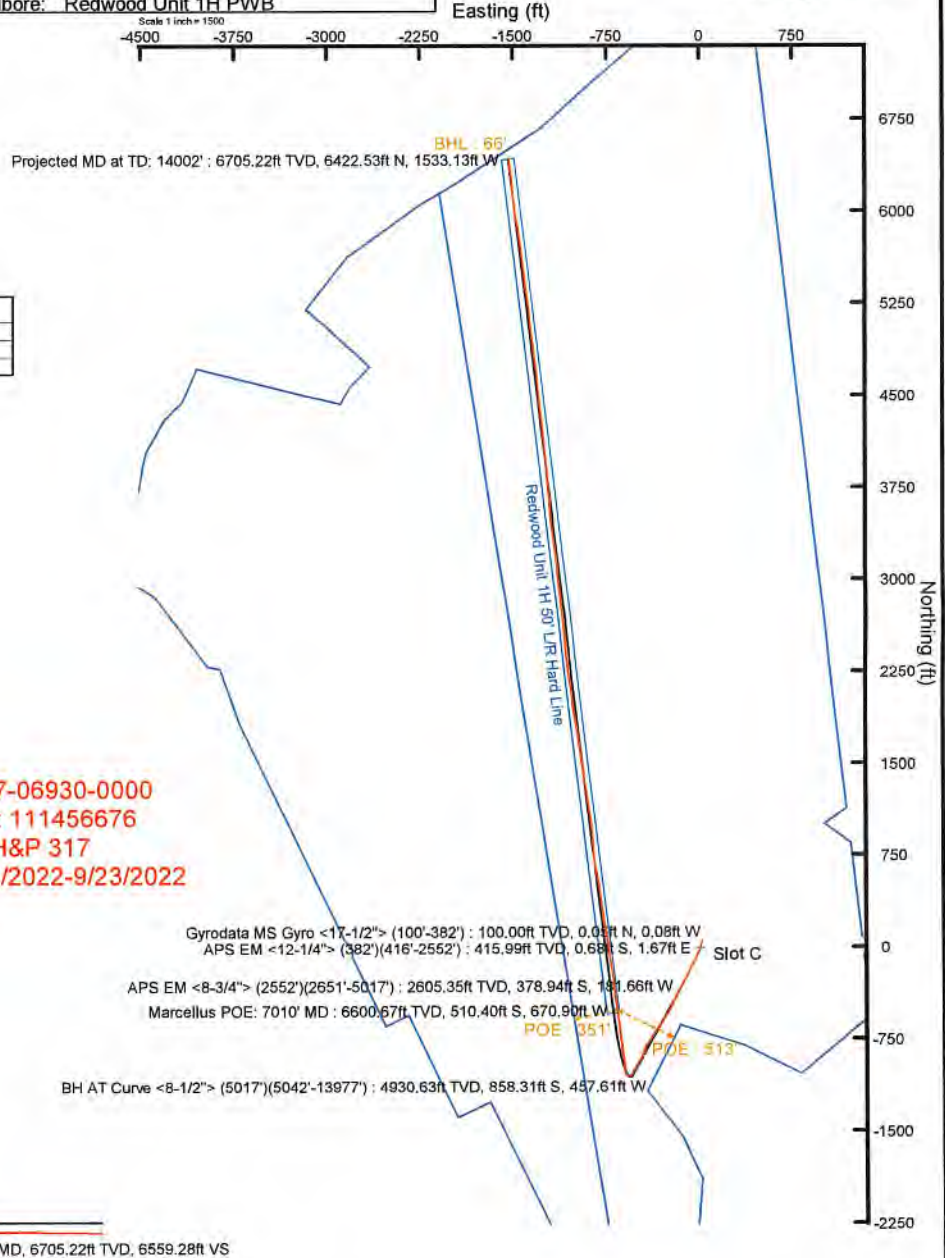
API: 47-017-06930-0000
 BH Job #: 111456676
 Rig: H&P 317
 Duration: 9/21/2022-9/23/2022

Well Profile Data							
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	VS (ft)
Tie On	2552.00	12.710	207.680	2508.72	-359.46	-172.46	0.50
Proj. to Bottom	2627.00	12.710	207.680	2581.88	-374.07	-189.12	0.00
Drill Out	2707.00	12.710	207.680	2659.92	-389.66	-198.30	0.00
End of 3D Arc	2748.14	13.474	208.027	2699.99	-397.86	-192.73	2.00
Curve KOP	5902.80	13.474	208.027	5767.82	-1040.59	-549.39	0.00
POE	6975.87	74.817	353.169	6590.00	-538.04	-701.16	8.00
Landing Pt.	7165.66	90.000	353.169	6615.00	-351.80	-723.47	8.00
BHL	13988.49	90.000	353.169	6815.00	6422.59	-1535.04	0.00

Marcellus POE: 7010' MD : 78.78° Inc, 7010.00ft MD, 6600.67ft TVD, -426.99ft VS

Projected MD at TD: 14002' : 89.29° Inc, 14002.00ft MD, 6705.22ft TVD, 6559.28ft VS

Vertical Section (ft)
 Azimuth 353.17° with reference 0.00 N, 0.00 E



Scale 1 inch = 1500'
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Actual Wellpath Report

Redwood Unit 1H AWP Proj: 14002'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Redwood Unit 1H
Field	Doddridge	API	47-017-06930-0000
Facility	OXFD 98 Pad	Wellbore	Redwood Unit 1H AWB
Slot	Slot C		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999604	Report Generated	10/14/2022 at 10:08:48 PM
Convergence at slot	0.13° 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	-28.55	-8.98	1697143.75	14254175.29	39°15'11.3780"N	80°47'58.6010"W
Facility Reference Pt			1697152.73	14254203.83	39°15'11.6600"N	80°47'58.4860"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.3013"W

WELLPATH DATUM			
Calculation method	Minimum curvature	H&P 317 (RKB) to Facility Vertical Datum	1146.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level	1146.50ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot C)	25.50ft
MD Reference Pt	H&P 317 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	353.17°

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Field	Doddridge		API	47-017-06930-0000
Facility	OXFD 98 Pad		Wellbore	Redwood Unit 1H AWB
Slot	Slot C			

WELLPATH DATA (159 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	304.080	0.00	0.00	0.00	0.00	1697143.75	14254175.29	39°15'11.3780"N	80°47'58.6010"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	304.080	25.50	0.00	0.00	0.00	1697143.75	14254175.29	39°15'11.3780"N	80°47'58.6010"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.150	304.080	100.00	0.06	0.05	-0.08	1697143.67	14254175.34	39°15'11.3786"N	80°47'58.6021"W	0.10	304.080	0.20	0.20	0.00	Gyrodata MS Gyro <17-1/2"> (100'-382')
200.00	0.290	109.490	200.00	0.04	0.04	0.05	1697143.80	14254175.33	39°15'11.3785"N	80°47'58.6004"W	0.07	48.584	0.44	0.14	165.41	
300.00	0.410	124.760	300.00	-0.31	-0.24	0.58	1697144.33	14254175.05	39°15'11.3756"N	80°47'58.5936"W	0.63	112.822	0.15	0.12	15.27	
382.00	0.630	106.490	381.99	-0.69	-0.54	1.26	1697145.00	14254174.75	39°15'11.3727"N	80°47'58.5851"W	1.37	113.282	0.33	0.27	-22.28	
416.00	0.850	109.800	415.99	-0.87	-0.68	1.67	1697145.42	14254174.61	39°15'11.3713"N	80°47'58.5798"W	1.80	112.093	0.66	0.65	9.74	APS EM <12-1/4"> (382')(416'-2552')
507.00	1.520	156.610	506.97	-2.33	-2.02	2.79	1697146.53	14254173.28	39°15'11.3580"N	80°47'58.5657"W	3.44	125.877	1.24	0.74	51.44	
598.00	3.270	182.430	597.89	-6.05	-5.72	3.16	1697146.90	14254169.58	39°15'11.3215"N	80°47'58.5611"W	6.53	151.103	2.21	1.92	28.37	
689.00	4.440	197.600	688.89	-11.82	-11.67	1.98	1697145.73	14254163.63	39°15'11.2627"N	80°47'58.5762"W	11.83	170.369	1.70	1.29	16.67	
778.00	5.590	205.240	777.35	-18.63	-18.87	-0.91	1697142.84	14254156.43	39°15'11.1915"N	80°47'58.6131"W	18.89	182.761	1.49	1.29	8.58	
869.00	7.260	207.010	867.77	-27.16	-28.00	-5.41	1697138.34	14254147.30	39°15'11.1014"N	80°47'58.6706"W	28.52	190.937	1.85	1.84	1.95	
960.00	8.650	206.030	957.89	-37.69	-39.28	-11.03	1697132.73	14254136.03	39°15'10.9901"N	80°47'58.7423"W	40.80	195.681	1.53	1.53	-1.08	
1050.00	10.800	204.500	1046.60	-50.58	-53.03	-17.49	1697126.26	14254122.28	39°15'10.8542"N	80°47'58.8249"W	55.84	198.256	2.41	2.39	-1.70	
1145.00	12.810	204.130	1139.58	-67.21	-70.75	-25.49	1697118.27	14254104.57	39°15'10.6794"N	80°47'58.9271"W	75.20	199.815	2.12	2.12	-0.39	
1239.00	13.090	204.720	1231.19	-85.22	-89.92	-34.20	1697109.56	14254085.40	39°15'10.4900"N	80°47'59.0383"W	96.21	200.824	0.33	0.30	0.63	
1334.00	13.310	204.600	1323.68	-103.72	-109.64	-43.25	1697100.51	14254065.69	39°15'10.2953"N	80°47'59.1539"W	117.86	201.530	0.23	0.23	-0.13	
1428.00	13.510	208.770	1415.12	-121.88	-129.10	-53.04	1697090.73	14254046.24	39°15'10.1032"N	80°47'59.2789"W	139.57	202.336	1.05	0.21	4.44	
1523.00	13.400	208.310	1507.51	-139.90	-148.52	-63.60	1697080.17	14254026.83	39°15'9.9115"N	80°47'59.4137"W	161.57	203.183	0.16	-0.12	-0.48	
1618.00	13.700	208.520	1599.87	-158.08	-168.10	-74.20	1697069.58	14254007.26	39°15'9.7182"N	80°47'59.5489"W	183.74	203.816	0.32	0.32	0.22	
1713.00	13.370	204.970	1692.23	-176.59	-187.94	-84.20	1697059.58	14253987.43	39°15'9.5223"N	80°47'59.6767"W	205.94	204.134	0.94	-0.35	-3.74	
1807.00	13.250	205.010	1783.71	-194.98	-207.55	-93.35	1697050.44	14253967.82	39°15'9.3286"N	80°47'59.7935"W	227.58	204.216	0.13	-0.13	0.04	
1902.00	13.400	202.970	1876.15	-213.78	-227.56	-102.25	1697041.55	14253947.83	39°15'9.1312"N	80°47'59.9071"W	249.47	204.195	0.52	0.16	-2.15	
1996.00	13.570	209.640	1967.56	-232.10	-247.17	-111.95	1697031.84	14253928.22	39°15'8.9375"N	80°48'0.0311"W	271.34	204.367	1.66	0.18	7.10	
2091.00	13.770	210.240	2059.87	-250.09	-266.62	-123.16	1697020.64	14253908.77	39°15'8.7455"N	80°48'0.1741"W	293.69	204.793	0.26	0.21	0.63	
2186.00	13.300	208.220	2152.23	-268.05	-286.02	-134.02	1697009.79	14253889.38	39°15'8.5540"N	80°48'0.3127"W	315.86	205.106	0.70	-0.49	-2.13	
2280.00	13.180	209.120	2243.74	-285.58	-304.91	-144.35	1696999.46	14253870.50	39°15'8.3675"N	80°48'0.4445"W	337.35	205.333	0.25	-0.13	0.96	
2375.00	13.090	206.630	2336.25	-303.32	-323.99	-154.44	1696989.37	14253851.43	39°15'8.1792"N	80°48'0.5733"W	358.91	205.486	0.60	-0.09	-2.62	
2469.00	13.070	206.750	2427.81	-321.06	-343.00	-163.99	1696979.82	14253832.43	39°15'7.9915"N	80°48'0.6953"W	380.18	205.553	0.04	-0.02	0.13	
2552.00	12.710	207.680	2508.72	-336.40	-359.46	-172.46	1696971.36	14253815.97	39°15'7.8290"N	80°48'0.8034"W	398.69	205.630	0.50	-0.43	1.12	

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Redwood Unit 1H AWP Proj: 14002'
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Redwood Unit 1H
Field	Doddridge		API	47-017-06930-0000
Facility	OXFD 98 Pad		Wellbore	Redwood Unit 1H AWB
Slot	Slot C			

WELLPATH DATA (159 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
2651.00	12.450	202.810	2605.35	-354.65	-378.94	-181.66	1696962.17	14253796.50	39°15'7.6366"N	80°48'0.9208"W	420.23	205.612	1.10	-0.26	-4.92	APS EM <8-3/4"> (2552')(2651'-5017')
2746.00	14.260	208.320	2697.78	-373.12	-398.69	-191.18	1696952.65	14253776.76	39°15'7.4417"N	80°48'1.0424"W	442.15	205.619	2.33	1.91	5.80	
2840.00	14.990	207.890	2788.73	-392.58	-419.62	-202.36	1696941.47	14253755.84	39°15'7.2350"N	80°48'1.1851"W	465.87	205.745	0.79	0.78	-0.46	
2935.00	14.290	204.210	2880.65	-412.72	-441.17	-212.91	1696930.92	14253734.29	39°15'7.0222"N	80°48'1.3199"W	489.86	205.762	1.23	-0.74	-3.87	
3029.00	15.110	208.740	2971.57	-432.63	-462.50	-223.56	1696920.28	14253712.98	39°15'6.8117"N	80°48'1.4559"W	513.70	205.798	1.50	0.87	4.82	
3126.00	15.030	209.610	3065.24	-453.03	-484.52	-235.85	1696907.99	14253690.96	39°15'6.5943"N	80°48'1.6127"W	538.87	205.956	0.25	-0.08	0.90	
3221.00	14.130	202.740	3157.18	-473.03	-505.92	-246.42	1696897.43	14253669.57	39°15'6.3830"N	80°48'1.7477"W	562.75	205.970	2.05	-0.95	-7.23	
3315.00	14.070	207.470	3248.36	-492.45	-526.64	-256.13	1696887.72	14253648.85	39°15'6.1784"N	80°48'1.8717"W	585.63	205.936	1.23	-0.06	5.03	
3410.00	13.890	214.370	3340.55	-510.57	-546.30	-267.89	1696875.96	14253629.20	39°15'5.9843"N	80°48'2.0218"W	608.45	206.122	1.76	-0.19	7.26	
3505.00	13.640	215.010	3432.82	-527.49	-564.89	-280.76	1696863.10	14253610.62	39°15'5.8009"N	80°48'2.1858"W	630.81	206.428	0.31	-0.26	0.67	
3599.00	13.350	213.380	3524.22	-544.04	-583.03	-293.09	1696850.78	14253592.49	39°15'5.6219"N	80°48'2.3430"W	652.55	206.689	0.51	-0.31	-1.73	
3694.00	12.360	207.890	3616.85	-560.77	-601.18	-303.88	1696839.99	14253574.35	39°15'5.4428"N	80°48'2.4807"W	673.61	206.815	1.65	-1.04	-5.78	
3789.00	12.020	209.490	3709.70	-577.10	-618.77	-313.50	1696830.37	14253556.76	39°15'5.2690"N	80°48'2.6036"W	693.66	206.869	0.50	-0.36	1.68	
3883.00	12.780	217.160	3801.52	-592.47	-635.58	-324.60	1696819.28	14253539.96	39°15'5.1032"N	80°48'2.7451"W	713.67	207.054	1.93	0.81	8.16	
3977.00	12.290	214.830	3893.28	-607.42	-652.08	-336.60	1696807.29	14253523.47	39°15'4.9404"N	80°48'2.8981"W	733.83	207.302	0.75	-0.52	-2.48	
4071.00	12.460	212.510	3985.09	-622.74	-668.84	-347.76	1696796.13	14253506.71	39°15'4.7749"N	80°48'3.0404"W	753.85	207.472	0.56	0.18	-2.47	
4166.00	13.520	212.960	4077.66	-639.20	-686.80	-359.31	1696784.58	14253488.76	39°15'4.5977"N	80°48'3.1878"W	775.12	207.617	1.12	1.12	0.47	
4260.00	13.480	215.270	4169.06	-655.77	-704.97	-371.62	1696772.28	14253470.60	39°15'4.4184"N	80°48'3.3447"W	796.92	207.795	0.58	-0.04	2.46	
4355.00	11.390	212.040	4261.83	-671.29	-721.96	-382.99	1696760.91	14253453.62	39°15'4.2507"N	80°48'3.4897"W	817.26	207.945	2.32	-2.20	-3.40	
4450.00	11.370	210.960	4354.96	-686.00	-737.94	-392.78	1696751.12	14253437.64	39°15'4.0929"N	80°48'3.6146"W	835.97	208.025	0.23	-0.02	-1.14	
4544.00	13.990	217.560	4446.67	-701.44	-754.90	-404.48	1696739.43	14253420.69	39°15'3.9256"N	80°48'3.7638"W	856.43	208.183	3.18	2.79	7.02	
4637.00	16.020	213.730	4536.49	-719.23	-774.49	-418.46	1696725.46	14253401.11	39°15'3.7323"N	80°48'3.9420"W	880.30	208.383	2.43	2.18	-4.12	
4731.00	13.960	208.360	4627.30	-738.35	-795.25	-431.05	1696712.87	14253380.35	39°15'3.5273"N	80°48'4.1027"W	904.56	208.459	2.64	-2.19	-5.71	
4826.00	13.290	203.450	4719.62	-757.14	-815.36	-440.84	1696703.09	14253360.26	39°15'3.3288"N	80°48'4.2277"W	926.90	208.399	1.41	-0.71	-5.17	
4922.00	12.470	198.280	4813.21	-776.06	-835.32	-448.48	1696695.45	14253340.30	39°15'3.1317"N	80°48'4.3254"W	948.10	208.231	1.47	-0.85	-5.39	
5017.00	11.600	203.160	4906.12	-793.62	-853.84	-455.45	1696688.48	14253321.79	39°15'2.9488"N	80°48'4.4145"W	967.72	208.076	1.41	-0.92	5.14	
5042.00	11.300	208.490	4930.63	-797.80	-858.31	-457.61	1696686.32	14253317.32	39°15'2.9047"N	80°48'4.4421"W	972.68	208.065	4.40	-1.20	21.32	BH AT Curve <8-1/2"> (5017')(5042'-1397')
5137.00	9.090	205.760	5024.12	-811.71	-873.25	-465.31	1696678.62	14253302.39	39°15'2.7572"N	80°48'4.5404"W	989.48	208.051	2.38	-2.33	-2.87	
5231.00	8.140	207.370	5117.06	-823.47	-885.85	-471.60	1696672.34	14253289.80	39°15'2.6328"N	80°48'4.6207"W	1003.56	208.030	1.04	-1.01	1.71	
5326.00	6.830	203.070	5211.25	-833.93	-897.02	-476.91	1696667.03	14253278.63	39°15'2.5225"N	80°48'4.6884"W	1015.91	207.998	1.50	-1.38	-4.53	

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Field	Doddridge	API	47-017-06930-0000
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Slot	Slot C		

WELLPATH DATA (159 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
5423.00	9.960	210.050	5307.20	-845.65	-909.59	-483.37	1696660.57	14253266.07	39°15'2.3984"N	80°48'4.7709"W	1030.05	207.987	3.39	3.23	7.20	
5518.00	15.170	208.820	5399.89	-862.33	-927.60	-493.48	1696650.47	14253248.06	39°15'2.2206"N	80°48'4.9000"W	1050.70	208.013	5.49	5.48	-1.29	
5612.00	18.830	208.790	5489.77	-884.67	-951.68	-506.72	1696637.23	14253223.99	39°15'1.9829"N	80°48'5.0689"W	1078.17	208.033	3.89	3.89	-0.03	
5707.00	18.970	211.400	5579.65	-909.26	-978.30	-522.15	1696621.81	14253197.38	39°15'1.7201"N	80°48'5.2658"W	1108.92	208.090	0.90	0.15	2.75	
5802.00	18.630	211.180	5669.58	-933.34	-1004.46	-538.05	1696605.91	14253171.23	39°15'1.4619"N	80°48'5.4686"W	1139.49	208.176	0.37	-0.36	-0.23	
5896.00	14.480	211.250	5759.67	-954.43	-1027.36	-551.93	1696592.04	14253148.34	39°15'1.2358"N	80°48'5.6457"W	1166.23	208.246	4.41	-4.41	0.07	
5991.00	9.770	237.070	5852.59	-967.34	-1041.91	-564.87	1696579.11	14253133.79	39°15'1.0923"N	80°48'5.8106"W	1185.18	208.464	7.45	-4.96	27.18	
6085.00	10.610	267.660	5945.17	-970.18	-1046.61	-580.22	1696563.76	14253129.10	39°15'1.0462"N	80°48'6.0059"W	1196.68	209.003	5.76	0.89	32.54	
6180.00	12.730	312.990	6038.39	-961.48	-1039.81	-596.65	1696547.34	14253135.89	39°15'1.1137"N	80°48'6.2145"W	1198.83	209.847	9.64	2.23	47.72	
6275.00	16.710	343.120	6130.38	-939.99	-1019.57	-608.29	1696535.70	14253156.13	39°15'1.3141"N	80°48'6.3620"W	1187.24	210.821	8.94	4.19	31.72	
6369.00	23.480	355.650	6218.65	-907.93	-987.91	-613.65	1696530.35	14253187.77	39°15'1.6271"N	80°48'6.4291"W	1162.99	211.847	8.50	7.20	13.33	
6411.00†	26.710	356.940	6256.68	-890.14	-970.14	-614.78	1696529.21	14253205.54	39°15'1.8028"N	80°48'6.4431"W	1148.54	212.363	7.80	7.69	3.08	Sycamore: 6411' MD
6464.00	30.800	358.220	6303.14	-864.73	-944.67	-615.84	1696528.15	14253230.99	39°15'2.0545"N	80°48'6.4558"W	1127.68	213.101	7.80	7.72	2.40	
6558.00	39.310	350.710	6380.05	-810.89	-891.11	-621.41	1696522.59	14253284.53	39°15'2.5840"N	80°48'6.5251"W	1086.38	214.890	10.14	9.05	-7.99	
6573.00†	40.669	351.060	6391.54	-801.25	-881.59	-622.93	1696521.06	14253294.05	39°15'2.6781"N	80°48'6.5442"W	1079.47	215.245	9.18	9.06	2.33	Middlesex: 6573' MD
6653.00	47.930	352.650	6448.76	-745.44	-826.32	-630.80	1696513.21	14253349.30	39°15'3.2246"N	80°48'6.6426"W	1039.57	217.357	9.18	9.08	1.99	
6747.00	58.050	353.130	6505.27	-670.47	-751.93	-640.05	1696503.95	14253423.66	39°15'3.9601"N	80°48'6.7582"W	987.45	220.405	10.77	10.77	0.51	
6786.00†	61.154	353.207	6525.00	-636.84	-718.53	-644.05	1696499.95	14253457.05	39°15'4.2902"N	80°48'6.8081"W	964.93	221.871	7.96	7.96	0.20	Burkett: 6786' MD
6842.00	65.610	353.310	6550.09	-586.79	-668.82	-649.93	1696494.08	14253506.73	39°15'4.7817"N	80°48'6.8814"W	932.59	224.179	7.96	7.96	0.18	
6859.00†	67.029	353.110	6556.92	-571.22	-653.37	-651.77	1696492.24	14253522.18	39°15'4.9345"N	80°48'6.9044"W	922.87	224.930	8.42	8.35	-1.18	Tully: 6859' MD
6936.00	73.460	352.250	6582.93	-498.79	-581.53	-661.01	1696483.01	14253593.99	39°15'5.6447"N	80°48'7.0199"W	880.40	228.660	8.42	8.35	-1.12	
6970.00†	75.904	352.093	6591.91	-466.01	-549.04	-665.47	1696478.54	14253626.46	39°15'5.9659"N	80°48'7.0757"W	862.73	230.476	7.20	7.19	-0.46	Hamilton: 6970' MD
7010.00†	78.780	351.913	6600.67	-426.99	-510.40	-670.90	1696473.11	14253665.09	39°15'6.3479"N	80°48'7.1437"W	842.98	232.737	7.20	7.19	-0.45	Marcellus POE: 7010' MD
7031.00	80.290	351.820	6604.49	-406.35	-489.96	-673.83	1696470.19	14253685.53	39°15'6.5500"N	80°48'7.1802"W	833.13	233.978	7.20	7.19	-0.44	
7126.00	84.510	353.260	6617.05	-312.21	-396.61	-686.04	1696457.98	14253778.84	39°15'7.4729"N	80°48'7.3329"W	792.44	239.967	4.69	4.44	1.52	
7220.00	90.370	354.810	6621.25	-218.36	-303.26	-695.79	1696448.23	14253872.15	39°15'8.3958"N	80°48'7.4543"W	759.01	246.450	6.45	6.23	1.65	
7314.00	88.610	350.510	6622.09	-124.39	-210.06	-707.80	1696436.23	14253965.32	39°15'9.3173"N	80°48'7.6043"W	738.31	253.470	-4.94	-1.87	-4.57	
7408.00	89.170	350.720	6623.91	-30.50	-117.33	-723.12	1696420.91	14254058.00	39°15'10.2340"N	80°48'7.7966"W	732.58	260.784	0.64	0.60	0.22	
7503.00	90.710	353.680	6624.01	64.47	-23.23	-736.02	1696408.03	14254152.07	39°15'11.1645"N	80°48'7.9578"W	736.38	268.193	3.51	1.62	3.12	
7598.00	90.310	350.440	6623.16	159.43	70.85	-749.14	1696394.91	14254246.11	39°15'12.0945"N	80°48'8.1220"W	752.48	275.403	3.44	-0.42	-3.41	

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Actual Wellpath Report

Redwood Unit 1H AWP Proj: 14002'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Redwood Unit 1H
Field	Doddridge	API	47-017-06930-0000
Facility	OXFD 98 Pad	Wellbore	Redwood Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (159 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
7692.00	89.630	351.370	6623.21	253.36	163.66	-763.99	1696380.06	14254338.89	39°15'13.0122"N	80°48'8.3083"W	781.33	282.091	1.23	-0.72	0.99	
7787.00	89.380	352.060	6624.03	348.32	257.67	-777.68	1696366.38	14254432.86	39°15'13.9416"N	80°48'8.4797"W	819.26	288.331	0.77	-0.26	0.73	
7881.00	88.460	351.210	6625.80	442.27	350.65	-791.36	1696352.71	14254525.80	39°15'14.8610"N	80°48'8.6509"W	865.56	293.898	1.33	-0.98	-0.90	
7976.00	90.770	353.140	6626.44	537.25	444.75	-804.29	1696339.78	14254619.87	39°15'15.7913"N	80°48'8.8127"W	919.07	298.942	3.17	2.43	2.03	
8071.00	90.120	348.370	6625.70	632.13	538.49	-819.54	1696324.53	14254713.56	39°15'16.7181"N	80°48'9.0041"W	980.62	303.307	5.07	-0.68	-5.02	
8165.00	88.580	349.870	6626.77	725.88	630.79	-837.29	1696306.80	14254805.83	39°15'17.6307"N	80°48'9.2270"W	1048.30	306.993	2.29	-1.64	1.60	
8260.00	88.580	352.480	6629.12	820.79	724.63	-851.85	1696292.23	14254899.63	39°15'18.5585"N	80°48'9.4096"W	1118.36	310.386	2.75	0.00	2.75	
8354.00	88.060	356.340	6631.88	914.71	818.12	-861.01	1696283.09	14254993.08	39°15'19.4828"N	80°48'9.5234"W	1187.71	313.537	4.14	-0.55	4.11	
8448.00	91.600	357.040	6632.16	1008.51	911.95	-866.43	1696277.66	14255086.87	39°15'20.4103"N	80°48'9.5897"W	1257.92	316.466	3.84	3.77	0.74	
8543.00	93.050	352.050	6628.30	1103.38	1006.41	-875.45	1696268.65	14255181.30	39°15'21.3441"N	80°48'9.7018"W	1333.89	318.981	5.47	1.53	-5.25	
8637.00	88.680	352.650	6626.88	1197.33	1099.54	-887.96	1696256.14	14255274.39	39°15'22.2649"N	80°48'9.8582"W	1413.31	321.076	4.69	-4.65	0.64	
8732.00	88.550	351.150	6629.18	1292.28	1193.56	-901.34	1696242.77	14255368.37	39°15'23.1944"N	80°48'10.0257"W	1495.66	322.941	1.58	-0.14	-1.58	
8826.00	89.380	351.520	6630.88	1386.21	1286.47	-915.50	1696228.61	14255461.25	39°15'24.1130"N	80°48'10.2031"W	1578.97	324.563	0.97	0.88	0.39	
8920.00	89.200	351.160	6632.04	1480.16	1379.39	-929.65	1696214.47	14255554.13	39°15'25.0318"N	80°48'10.3805"W	1663.42	326.022	0.43	-0.19	-0.38	
9015.00	90.370	351.720	6632.40	1575.11	1473.33	-943.79	1696200.33	14255648.03	39°15'25.9605"N	80°48'10.5576"W	1749.70	327.357	1.37	1.23	0.59	
9110.00	89.420	352.000	6632.57	1670.09	1567.37	-957.24	1696186.89	14255742.04	39°15'26.8903"N	80°48'10.7260"W	1836.56	328.586	1.04	-1.00	0.29	
9204.00	88.400	352.090	6634.36	1764.05	1660.45	-970.25	1696173.89	14255835.08	39°15'27.8105"N	80°48'10.8888"W	1923.14	329.701	1.09	-1.09	0.10	
9299.00	88.520	351.760	6636.91	1858.99	1754.47	-983.59	1696160.55	14255929.06	39°15'28.7401"N	80°48'11.0558"W	2011.37	330.724	0.37	0.13	-0.35	
9393.00	89.170	349.160	6638.81	1952.86	1847.15	-999.16	1696144.98	14256021.70	39°15'29.6564"N	80°48'11.2512"W	2100.07	331.590	2.85	0.69	-2.77	
9487.00	87.410	352.350	6641.61	2046.72	1939.87	-1014.26	1696129.90	14256114.38	39°15'30.5732"N	80°48'11.4405"W	2189.02	332.397	3.87	-1.87	3.39	
9582.00	90.710	354.670	6643.17	2141.69	2034.23	-1024.99	1696119.17	14256208.71	39°15'31.5060"N	80°48'11.5744"W	2277.87	333.258	4.25	3.47	2.44	
9677.00	88.920	350.970	6643.48	2236.66	2128.46	-1036.86	1696107.30	14256302.90	39°15'32.4377"N	80°48'11.7227"W	2367.58	334.027	4.33	-1.88	-3.89	
9771.00	89.290	350.630	6644.95	2330.57	2221.24	-1051.89	1696092.28	14256395.65	39°15'33.3550"N	80°48'11.9112"W	2457.72	334.660	0.53	0.39	-0.36	
9866.00	89.170	354.160	6646.23	2425.54	2315.38	-1064.46	1696079.72	14256489.75	39°15'34.2858"N	80°48'12.0684"W	2548.34	335.310	3.72	-0.13	3.72	
9960.00	89.850	352.470	6647.03	2519.53	2408.73	-1075.40	1696068.78	14256583.06	39°15'35.2087"N	80°48'12.2049"W	2637.89	335.941	1.94	0.72	-1.80	
10055.00	87.260	355.360	6649.43	2614.47	2503.15	-1085.47	1696058.72	14256677.44	39°15'36.1421"N	80°48'12.3303"W	2728.37	336.556	4.08	-2.73	3.04	
10149.00	91.480	354.260	6650.46	2708.41	2596.74	-1093.97	1696050.22	14256770.99	39°15'37.0672"N	80°48'12.4358"W	2817.77	337.155	4.64	4.49	-1.17	
10244.00	88.800	351.140	6650.23	2803.38	2690.95	-1106.04	1696038.15	14256865.16	39°15'37.9986"N	80°48'12.5866"W	2909.38	337.656	4.33	-2.82	-3.28	
10339.00	89.940	356.050	6651.27	2898.35	2785.32	-1116.63	1696027.56	14256959.50	39°15'38.9316"N	80°48'12.7187"W	3000.81	338.154	5.31	1.20	5.17	
10433.00	90.800	353.270	6650.66	2992.30	2878.90	-1125.38	1696018.82	14257053.04	39°15'39.8567"N	80°48'12.8273"W	3091.04	338.649	3.10	0.91	-2.96	

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Actual Wellpath Report

Redwood Unit 1H AWP Proj: 14002'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Redwood Unit 1H
Field	Doddridge	API	47-017-06930-0000
Facility	OXFD 98 Pad	Wellbore	Redwood Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (159 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
10528.00	89.380	354.800	6650.52	3087.29	2973.38	-1135.25	1696008.95	14257147.48	39°15'40.7908"N	80°48'12.9502"W	3182.73	339.103	2.20	-1.49	1.61	
10623.00	89.750	355.500	6651.24	3182.22	3068.03	-1143.28	1696000.92	14257242.10	39°15'41.7265"N	80°48'13.0497"W	3274.13	339.562	0.83	0.39	0.74	
10718.00	90.310	354.180	6651.19	3277.18	3162.65	-1151.82	1695992.38	14257336.68	39°15'42.6618"N	80°48'13.1557"W	3365.86	339.989	1.51	0.59	-1.39	
10812.00	89.780	349.850	6651.11	3371.14	3255.71	-1164.88	1695979.33	14257429.71	39°15'43.5819"N	80°48'13.3191"W	3457.83	340.313	4.64	-0.56	-4.61	
10907.00	87.780	353.460	6653.14	3466.06	3349.67	-1178.66	1695965.56	14257523.62	39°15'44.5108"N	80°48'13.4917"W	3550.99	340.614	4.34	-2.11	3.80	
11001.00	89.600	352.160	6655.29	3560.03	3442.90	-1190.42	1695953.80	14257616.81	39°15'45.4325"N	80°48'13.6387"W	3642.89	340.927	2.38	1.94	-1.38	
11095.00	89.850	355.270	6655.74	3654.02	3536.32	-1200.71	1695943.52	14257710.20	39°15'46.3561"N	80°48'13.7669"W	3734.60	341.246	3.32	0.27	3.31	
11190.00	88.520	356.500	6657.09	3748.90	3631.06	-1207.53	1695936.70	14257804.90	39°15'47.2927"N	80°48'13.8510"W	3826.58	341.605	1.91	-1.40	1.29	
11285.00	88.770	354.250	6659.33	3843.79	3725.72	-1215.19	1695929.05	14257899.52	39°15'48.2284"N	80°48'13.9457"W	3918.88	341.936	2.38	0.26	-2.37	
11379.00	90.490	356.450	6659.94	3937.71	3819.40	-1222.81	1695921.43	14257993.17	39°15'49.1545"N	80°48'14.0400"W	4010.37	342.247	2.97	1.83	2.34	
11474.00	89.170	353.790	6660.22	4032.65	3914.04	-1230.89	1695913.35	14258087.77	39°15'50.0901"N	80°48'14.1402"W	4103.02	342.543	3.13	-1.39	-2.80	
11569.00	89.380	352.740	6661.43	4127.64	4008.38	-1242.03	1695902.22	14258182.07	39°15'51.0227"N	80°48'14.2792"W	4196.39	342.784	1.13	0.22	-1.11	
11663.00	88.830	355.090	6662.89	4221.61	4101.83	-1251.99	1695892.26	14258275.49	39°15'51.9466"N	80°48'14.4033"W	4288.65	343.026	2.57	-0.59	2.50	
11758.00	90.340	353.060	6663.58	4316.59	4196.31	-1261.79	1695882.46	14258369.93	39°15'52.8806"N	80°48'14.5254"W	4381.91	343.264	2.66	1.59	-2.14	
11853.00	87.290	354.170	6665.55	4411.55	4290.69	-1272.36	1695871.90	14258464.27	39°15'53.8137"N	80°48'14.6570"W	4475.37	343.483	3.42	-3.21	1.17	
11947.00	88.550	353.010	6668.96	4505.49	4384.04	-1282.84	1695861.42	14258557.58	39°15'54.7365"N	80°48'14.7878"W	4567.87	343.690	1.82	1.34	-1.23	
12042.00	88.770	353.590	6671.18	4600.46	4478.36	-1293.92	1695850.34	14258651.87	39°15'55.6690"N	80°48'14.9261"W	4661.54	343.885	0.65	0.23	0.61	
12137.00	88.060	356.470	6673.81	4695.36	4572.96	-1302.15	1695842.12	14258746.43	39°15'56.6042"N	80°48'15.0281"W	4754.74	344.106	3.12	-0.75	3.03	
12231.00	89.910	353.460	6675.47	4789.29	4666.57	-1310.40	1695833.87	14258840.00	39°15'57.5295"N	80°48'15.1304"W	4847.06	344.315	3.76	1.97	-3.20	
12326.00	87.690	350.350	6677.46	4884.22	4760.58	-1323.77	1695820.51	14258933.97	39°15'58.4590"N	80°48'15.2978"W	4941.20	344.460	4.02	-2.34	-3.27	
12421.00	89.350	355.590	6679.92	4979.16	4854.80	-1335.39	1695808.89	14259028.16	39°15'59.3905"N	80°48'15.4429"W	5035.11	344.620	5.78	1.75	5.52	
12516.00	89.540	350.990	6680.84	5074.13	4949.12	-1346.48	1695797.80	14259122.44	39°16'0.3230"N	80°48'15.5814"W	5129.01	344.780	4.85	0.20	-4.84	
12610.00	89.290	352.990	6681.80	5168.10	5042.19	-1359.58	1695784.71	14259215.47	39°16'1.2432"N	80°48'15.7454"W	5222.28	344.910	2.14	-0.27	2.13	
12705.00	88.030	354.980	6684.02	5263.05	5136.64	-1369.53	1695774.76	14259309.88	39°16'2.1769"N	80°48'15.8693"W	5316.08	345.071	2.48	-1.33	2.09	
12800.00	88.550	352.320	6686.86	5358.00	5231.00	-1380.03	1695764.26	14259404.21	39°16'3.1098"N	80°48'16.0002"W	5409.98	345.221	2.85	0.55	-2.80	
12894.00	88.680	351.580	6689.13	5451.95	5324.05	-1393.19	1695751.11	14259497.22	39°16'4.0297"N	80°48'16.1650"W	5503.32	345.336	0.80	0.14	-0.79	
12989.00	89.750	353.710	6690.43	5546.93	5418.25	-1405.35	1695738.96	14259591.38	39°16'4.9610"N	80°48'16.3170"W	5597.54	345.459	2.51	1.13	2.24	
13084.00	87.230	353.880	6692.93	5641.88	5512.65	-1415.62	1695728.70	14259685.75	39°16'5.8943"N	80°48'16.4449"W	5691.51	345.598	2.66	-2.65	0.18	
13178.00	89.170	351.190	6695.89	5735.82	5605.80	-1427.82	1695716.50	14259778.86	39°16'6.8152"N	80°48'16.5976"W	5784.78	345.710	3.53	2.06	-2.86	
13273.00	87.970	354.580	6698.26	5830.77	5700.02	-1439.59	1695704.74	14259873.04	39°16'7.7467"N	80°48'16.7445"W	5879.00	345.826	3.78	-1.26	3.57	

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Actual Wellpath Report

Redwood Unit 1H AWP Proj: 14002'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Redwood Unit 1H
Field	Doddridge	API	47-017-06930-0000
Facility	OXFD 98 Pad	Wellbore	Redwood Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (159 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
13367.00	92.180	352.720	6698.14	5924.74	5793.42	-1449.98	1695694.35	14259966.40	39°16'8.6701"N	80°48'16.8741"W	5972.11	345.949	4.90	4.48	-1.98	
13462.00	89.200	348.280	6696.99	6019.60	5887.08	-1465.65	1695678.68	14260060.02	39°16'9.5961"N	80°48'17.0708"W	6066.78	346.020	5.63	-3.14	-4.67	
13556.00	86.490	352.360	6700.53	6113.39	5979.64	-1481.45	1695662.89	14260152.55	39°16'10.5113"N	80°48'17.2691"W	6160.42	346.085	5.21	-2.88	4.34	
13651.00	90.830	352.640	6702.75	6208.33	6073.78	-1493.84	1695650.51	14260246.65	39°16'11.4420"N	80°48'17.4241"W	6254.79	346.182	4.58	4.57	0.29	
13745.00	89.600	354.960	6702.39	6302.32	6167.22	-1503.99	1695640.36	14260340.06	39°16'12.3658"N	80°48'17.5506"W	6347.96	346.295	2.79	-1.31	2.47	
13840.00	89.170	353.130	6703.41	6397.30	6261.70	-1513.84	1695630.51	14260434.50	39°16'13.2998"N	80°48'17.6733"W	6442.10	346.409	1.98	-0.45	-1.93	
13934.00	89.540	352.660	6704.47	6491.29	6354.97	-1525.47	1695618.89	14260527.73	39°16'14.2219"N	80°48'17.8186"W	6535.50	346.502	0.64	0.39	-0.50	
13977.00	89.290	353.930	6704.91	6534.29	6397.68	-1530.49	1695613.87	14260570.42	39°16'14.6441"N	80°48'17.8812"W	6578.20	346.546	3.01	-0.58	2.95	
14002.00‡	89.290	353.930	6705.22	6559.28	6422.53	-1533.13	1695611.23	14260595.27	39°16'14.8898"N	80°48'17.9142"W	6602.99	346.574	0.00	0.00	0.00	Projected MD at TD: 14002'

HOLE & CASING SECTIONS - Ref Wellbore: Redwood Unit 1H AWB Ref Wellpath: Redwood Unit 1H AWP Proj: 14002'									
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	126.00	100.50	25.50	126.00	0.00	0.00	0.08	-0.11
17.5in Open Hole	126.00	351.00	225.00	126.00	351.00	0.08	-0.11	-0.44	0.96
13.375in Casing Surface	25.50	331.00	305.50	25.50	331.00	0.00	0.00	-0.37	0.79
12.25in Open Hole	351.00	2627.00	2276.00	351.00	2581.91	-0.44	0.96	-374.19	-179.60
9.625in Casing Intermediate	25.50	2607.00	2581.50	25.50	2562.39	0.00	0.00	-370.24	-177.80
8.75in Open Hole	2627.00	5378.00	2751.00	2581.91	5262.78	-374.19	-179.60	-903.27	-479.89
8.5in Open Hole	5378.00	14002.00	8624.00	5262.78	6705.22	-903.27	-479.89	6422.53	-1533.13
5.5in Casing Production	25.50	13982.00	13956.50	25.50	6704.97	0.00	0.00	6402.65	-1531.02

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Redwood Unit 1H AWP Proj: 14002'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Redwood Unit 1H
Field	Doddridge	API	47-017-06930-0000
Facility	OXFD 98 Pad	Wellbore	Redwood Unit 1H AWB
Slot	Slot C		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Redwood Unit 1H POE Rev-3	6590.00	-538.04	-701.16	1696442.87	14253637.46	39°15'6.0754"N	80°48'7.5290"W	point
Redwood Unit 1H BHL Rev-3	6615.00	6422.59	-1535.04	1695609.32	14260595.32	39°16'14.8904"N	80°48'17.9384"W	point
Redwood Unit 1H LP Rev-3	6615.00	-351.80	-723.47	1696420.57	14253823.63	39°15'7.9166"N	80°48'7.8075"W	point
Redwood Unit 1H 50' L/R Hard Line	7000.00	2942.27	-1118.10	1696026.10	14257116.39	39°15'40.4829"N	80°48'12.7330"W	rectangle

2D Rectangle 7010.4 x 100.

WELLPATH COMPOSITION - Ref Wellbore: Redwood Unit 1H AWB Ref Wellpath: Redwood Unit 1H AWP Proj: 14002'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	382.00	Gyrodata 2015 - GC+WIR+DPIPE	01 Gyrodata MS Gyro <17-1/2"> (100'-382')	Redwood Unit 1H AWB	8/16/2022
382.00	2552.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-1/4"> (382')(416'-2552')	Redwood Unit 1H AWB	8/16/2022
2552.00	5017.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (2552')(2651'-5017')	Redwood Unit 1H AWB	9/19/2022
5017.00	14002.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (5017')(5042'-13977')	Redwood Unit 1H AWB	9/19/2022

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Redwood Unit 1H AWP Proj: 14002'
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Operator	ANTERO RESOURCES CORPORATION	Well	Redwood Unit 1H
Field	Doddridge	API	47-017-06930-0000
Facility	OXFD 98 Pad	Wellbore	Redwood Unit 1H AWB
Slot	Slot C		

COMMENTS
<p>Wellpath general comments API: 47-017-06930-0000 BH Job #: 111456676 Rig: H&P 317 Duration: 9/21/2022-9/23/2022 Gyrodatta MS Gyro <17-1/2"> (100'-382') APS EM <12-1/4"> (382')(416'-2552') APS EM <8-3/4"> (2552')(2651'-5017') BH AT Curve <8-1/2"> (5017')(5042'-13977') Sycamore: 6411' MD Middlesex: 6573' MD Burkett: 6786' MD Tully: 6859' MD Hamilton: 6970' MD Marcellus POE: 7010' MD Projected MD at TD: 14002'</p>

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