



ANTERO RESOURCES CORPORATION

Location: Tyler County, WV
Field: Tyler
Facility: Wrigley Pad

Slot: Slot H
Well: Oxbow Unit 1H
Wellbore: Oxbow Unit 1H PWB

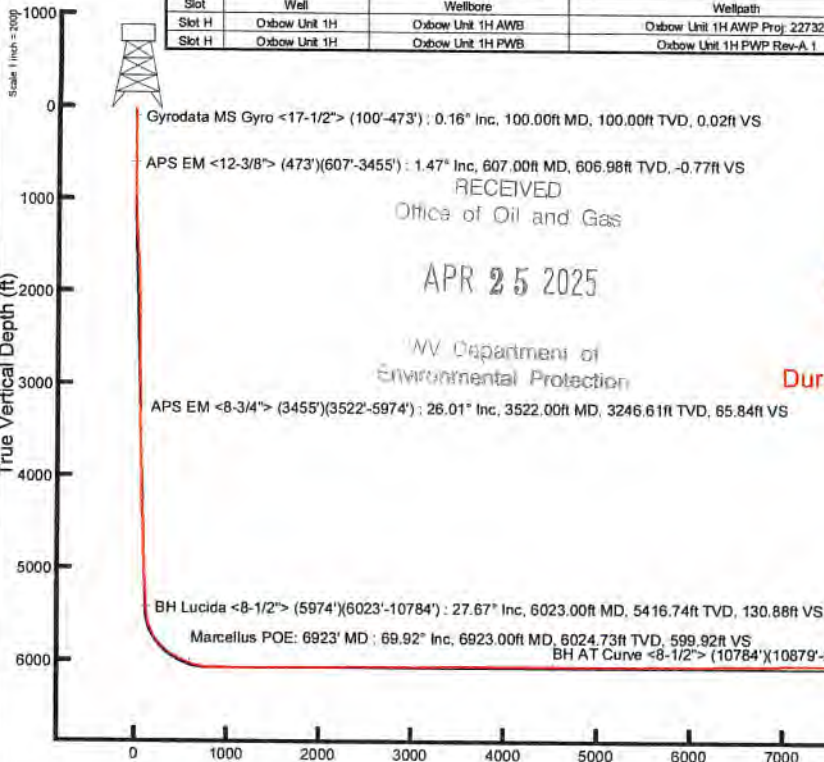


POB reference wellpath is Oxbow Unit 1H PWB Rev-A.1	Grid System: NAD83 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 317 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 317 (RKB)	Scale: True distance
H&P 317 (RKB) to Mean Sea Level: 962.5 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot H): -637 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: sublayer on 2024-11-17; Database: WA_MPS_EASTERNUS_Data

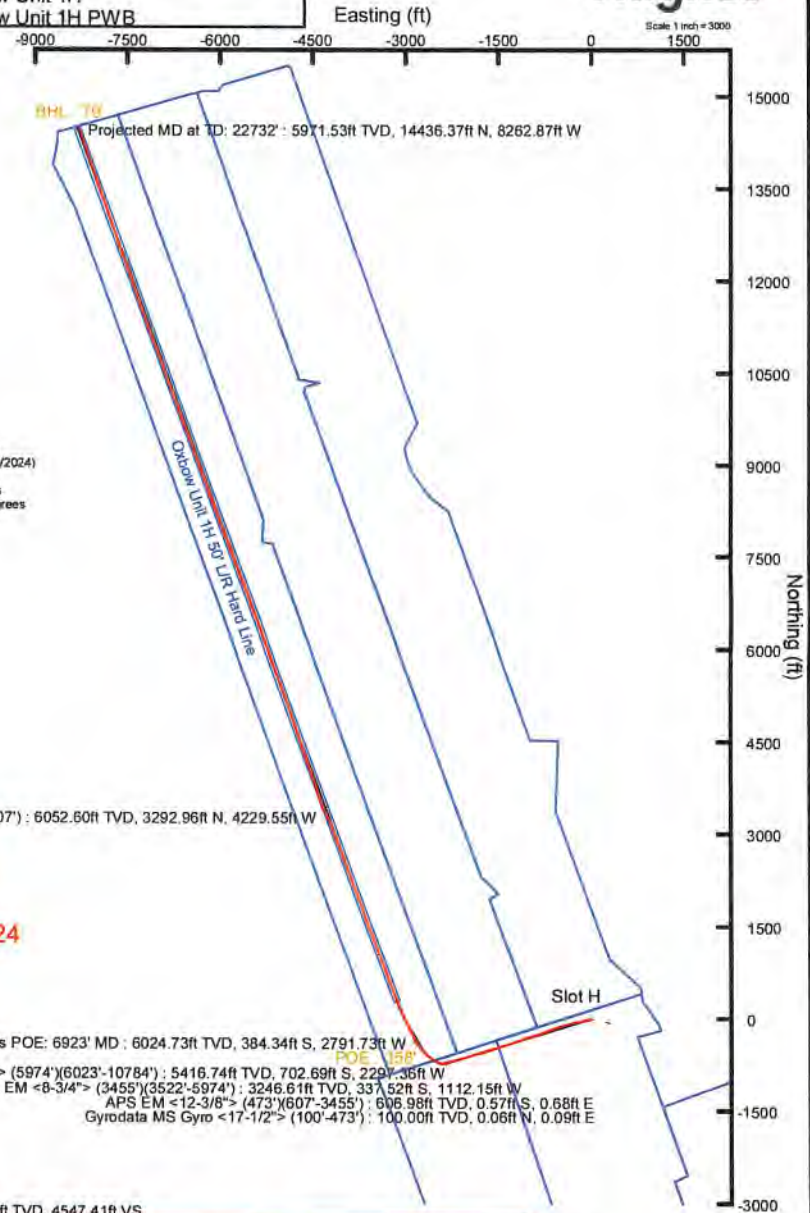
Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Wrigley Pad	1638329.430	14315291.560	39°25'16.2820"N	81°00'26.6070"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot H	47.42	-247.69	1638081.640	14315338.960
Comment	Oxbow Unit 1H			
H&P 317 (RKB) to Ground level (At Slot: Slot H)	25.5 ft			
Mean Sea Level to Ground level (At Slot: Slot H)	-937 ft			
H&P 317 (RKB) to Mean Sea Level	962.5 ft			

Well Profile Data								
Design Comment	MD (ft)	Inc. (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	25.50	0.000	252.731	25.50	0.00	0.00	0.00	0.00
KOP 1	655.00	0.000	252.731	655.00	0.00	0.00	0.00	0.00
End of Build	1629.40	29.232	252.731	1587.67	-72.20	-232.26	3.00	12.14
Curve KOP	6073.46	29.232	252.731	5465.78	-716.45	-2304.67	0.00	120.47
POE	6993.93	69.581	329.075	6030.00	-412.08	-2742.52	8.00	556.94
Landing Pt.	7149.17	90.000	329.075	6075.00	-197.73	-2870.93	8.00	802.38
On AZI	7689.09	90.000	339.873	6075.00	288.77	-3103.25	2.00	1338.11
BHL	22787.37	90.000	339.873	6075.00	14465.05	-8298.52	0.00	16437.40

Well Data			
Slot	Well	Wellbore	Wellpath
Slot H	Oxbow Unit 1H	Oxbow Unit 1H AWB	Oxbow Unit 1H AWP Proj: 22732'
Slot H	Oxbow Unit 1H	Oxbow Unit 1H PWB	Oxbow Unit 1H PWP Rev-A.1



User specified (HDGM) Dip: 65.93° Field: 51022 nT
Magnetic North is 7.70 degrees West of True North (at 10/19/2024)
Grid North is 0.01 degrees West of True North
To correct azimuth from True to Grid add 0.01 degrees
To correct azimuth from Magnetic to Grid subtract 7.69 degrees



Vertical Section (ft)
Azimuth 339.87° with reference 0.00 N, 0.00 E



Actual Wellpath Report

Oxbow Unit 1H AWP Proj: 22732'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Oxbow Unit 1H
Field	Tyler	API	47-095-02894-0000
Facility	Wrigley Pad	Wellbore	Oxbow Unit 1H AWB
Slot	Slot H		

REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999600	Report Generated	11/17/2024 at 5:08:41 PM
Convergence at slot	0.01° West	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	47.42	-247.89	1638081.64	14315338.96	39°25'16.7605"N	81°00'29.7658"W
Facility Reference Pt			1638329.43	14315291.56	39°25'16.2920"N	81°00'26.6070"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	962.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level	962.50ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot H)	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	339.87°

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Oxbow Unit 1H AWP Proj: 22732

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Facility	Wrigley Pad	Wellbore	Oxbow Unit 1H AWB
Slot	Slot H		

WELLPATH DATA (246 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	57.800	0.00	0.00	0.00	0.00	1638081.64	14315338.96	39°25'16.7605"N	81°00'29.7658"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	57.800	25.50	0.00	0.00	0.00	1638081.64	14315338.96	39°25'16.7605"N	81°00'29.7658"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.160	57.800	100.00	0.02	0.06	0.09	1638081.73	14315339.02	39°25'16.7610"N	81°00'29.7647"W	0.10	57.800	0.21	0.21	0.00	Gyrodata MS Gyro <17-1/2"> (100'-473')
200.00	0.280	87.000	200.00	-0.02	0.14	0.45	1638082.09	14315339.10	39°25'16.7619"N	81°00'29.7601"W	0.47	72.421	0.16	0.12	29.20	
300.00	0.300	95.700	300.00	-0.21	0.13	0.95	1638082.59	14315339.09	39°25'16.7618"N	81°00'29.7536"W	0.96	82.281	0.05	0.02	8.70	
400.00	0.410	102.540	400.00	-0.51	0.03	1.56	1638083.20	14315338.99	39°25'16.7607"N	81°00'29.7459"W	1.56	89.058	0.12	0.11	6.84	
473.00	0.350	117.060	472.99	-0.82	-0.13	2.02	1638083.66	14315338.83	39°25'16.7592"N	81°00'29.7401"W	2.02	93.754	0.15	-0.08	19.89	
607.00	1.470	261.630	606.98	-0.77	-0.57	0.68	1638082.32	14315338.39	39°25'16.7549"N	81°00'29.7571"W	0.89	129.836	1.32	0.84	107.89	APS EM <12-3/8"> (473')(607'-3455')
699.00	3.810	257.120	698.88	-0.14	-1.42	-3.47	1638078.18	14315337.54	39°25'16.7464"N	81°00'29.8100"W	3.75	247.691	2.55	2.54	-4.90	
792.00	6.490	254.940	791.49	0.71	-3.48	-11.55	1638070.09	14315335.48	39°25'16.7261"N	81°00'29.9130"W	12.07	263.253	2.89	2.88	-2.34	
885.00	8.710	259.870	883.67	2.40	-6.08	-23.56	1638058.09	14315332.88	39°25'16.7003"N	81°00'30.0660"W	24.34	255.529	2.49	2.39	5.30	
978.00	11.010	258.240	975.29	4.92	-9.13	-39.19	1638042.46	14315329.83	39°25'16.6702"N	81°00'30.2652"W	40.24	256.886	2.49	2.47	-1.75	
1071.00	13.110	257.230	1066.23	7.56	-13.27	-58.17	1638023.49	14315325.69	39°25'16.6292"N	81°00'30.5071"W	59.67	257.148	2.27	2.26	-1.09	
1165.00	15.270	256.340	1157.36	10.32	-18.55	-80.60	1638001.07	14315320.42	39°25'16.5770"N	81°00'30.7928"W	82.71	257.038	2.31	2.30	-0.95	
1259.00	17.480	257.760	1247.54	13.65	-24.47	-106.43	1637975.25	14315314.50	39°25'16.5185"N	81°00'31.1219"W	109.21	257.052	2.39	2.35	1.51	
1353.00	19.650	258.460	1336.65	17.95	-30.62	-135.72	1637945.98	14315308.35	39°25'16.4577"N	81°00'31.4951"W	139.13	257.284	2.32	2.31	0.74	
1447.00	22.110	258.450	1424.47	22.95	-37.33	-168.54	1637913.17	14315301.65	39°25'16.3914"N	81°00'31.9133"W	172.62	257.511	2.62	2.62	-0.01	
1541.00	24.840	257.370	1510.68	28.17	-45.19	-205.14	1637876.58	14315293.79	39°25'16.3136"N	81°00'32.3798"W	210.06	257.577	2.94	2.90	-1.15	
1636.00	27.300	256.960	1596.01	33.46	-54.47	-245.85	1637835.89	14315284.51	39°25'16.2219"N	81°00'32.8984"W	251.81	257.507	2.60	2.59	-0.43	
1729.00	29.510	256.970	1677.81	38.93	-64.45	-288.94	1637792.81	14315274.54	39°25'16.1232"N	81°00'33.4475"W	296.04	257.426	2.38	2.38	0.01	
1824.00	28.920	254.910	1760.72	43.84	-75.70	-333.92	1637747.86	14315263.29	39°25'16.0119"N	81°00'34.0206"W	342.39	257.226	1.23	-0.62	-2.17	
1918.00	28.000	253.790	1843.36	47.34	-87.78	-377.05	1637704.74	14315251.21	39°25'15.8925"N	81°00'34.5702"W	387.13	256.895	1.13	-0.98	-1.19	
2012.00	28.280	252.170	1926.25	49.75	-100.76	-419.44	1637662.37	14315238.24	39°25'15.7642"N	81°00'35.1103"W	431.37	256.492	0.87	0.30	-1.72	
2106.00	29.610	253.200	2008.51	51.99	-114.29	-462.87	1637618.96	14315224.72	39°25'15.6304"N	81°00'35.6637"W	476.77	256.130	1.51	1.41	1.10	
2200.00	28.950	251.850	2090.50	54.12	-128.09	-506.72	1637575.12	14315210.92	39°25'15.4940"N	81°00'36.2224"W	522.66	255.814	0.99	-0.70	-1.44	
2295.00	30.310	251.650	2173.08	55.66	-142.80	-551.32	1637530.54	14315196.22	39°25'15.3486"N	81°00'36.7908"W	569.52	255.479	1.44	1.43	-0.21	
2389.00	29.340	250.270	2254.63	56.56	-158.04	-595.52	1637486.36	14315180.98	39°25'15.1979"N	81°00'37.3539"W	616.13	255.137	1.26	-1.03	-1.47	
2484.00	29.170	248.690	2337.51	56.25	-174.31	-638.99	1637442.90	14315164.72	39°25'15.0370"N	81°00'37.9079"W	662.34	254.741	0.83	-0.18	-1.66	
2578.00	29.260	250.200	2419.55	55.91	-190.42	-681.95	1637399.96	14315148.62	39°25'14.8778"N	81°00'38.4552"W	708.04	254.399	0.79	0.10	1.61	
2672.00	28.490	248.970	2501.87	55.69	-206.25	-724.49	1637357.44	14315132.80	39°25'14.7213"N	81°00'38.9972"W	753.28	254.110	1.03	-0.82	-1.31	

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Actual Wellpath Report

Oxbow Unit 1H AWP Proj: 22732'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Oxbow Unit 1H
Field	Tyler	API	47-095-02894-0000
Facility	Wrigley Pad	Wellbore	Oxbow Unit 1H AWP
Slot	Slot H		

WELLPATH DATA (246 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
2766.00	28.900	250.650	2584.32	55.64	-221.82	-766.85	1637315.10	14315117.23	39°25'14.5673"N	81°00'39.5370"W	798.29	253.867	0.96	0.44	1.79	
2861.00	27.970	249.300	2667.86	55.74	-237.30	-809.35	1637272.61	14315101.76	39°25'14.4143"N	81°00'40.0785"W	843.42	253.659	1.19	-0.98	-1.42	
2955.00	28.390	251.080	2750.72	55.99	-252.34	-851.11	1637230.87	14315086.72	39°25'14.2656"N	81°00'40.6106"W	887.73	253.486	1.00	0.45	1.89	
3050.00	29.480	253.490	2833.86	57.94	-266.30	-894.89	1637187.11	14315072.76	39°25'14.1275"N	81°00'41.1684"W	933.67	253.428	1.68	1.15	2.54	
3144.00	29.030	252.790	2915.88	60.56	-279.63	-938.85	1637143.16	14315059.45	39°25'13.9958"N	81°00'41.7286"W	979.61	253.414	0.60	-0.48	-0.74	
3238.00	30.660	253.570	2997.41	63.27	-293.15	-983.63	1637098.40	14315045.92	39°25'13.8620"N	81°00'42.2991"W	1026.39	253.404	1.78	1.73	0.83	
3332.00	29.450	252.320	3078.77	65.81	-306.95	-1028.64	1637053.41	14315032.13	39°25'13.7256"N	81°00'42.8726"W	1073.46	253.385	1.45	-1.29	-1.33	
3426.00	28.080	250.510	3161.17	67.04	-321.35	-1071.51	1637010.56	14315017.74	39°25'13.5832"N	81°00'43.4189"W	1118.66	253.306	1.73	-1.46	-1.93	
3455.00	27.610	249.520	3186.81	67.08	-325.98	-1084.24	1636997.83	14315013.11	39°25'13.5374"N	81°00'43.5811"W	1132.19	253.266	2.27	-1.62	-3.41	
3522.00	26.010	245.420	3246.61	65.84	-337.52	-1112.15	1636969.93	14315001.57	39°25'13.4233"N	81°00'43.9367"W	1162.24	253.118	3.65	-2.39	-6.12	APS EM <8-3/4"> (3455')(3522'-5974')
3617.00	26.490	247.280	3331.81	63.27	-354.37	-1150.64	1636931.46	14314984.73	39°25'13.2567"N	81°00'44.4271"W	1203.97	252.882	1.00	0.51	1.96	
3711.00	28.730	249.700	3415.11	62.25	-370.31	-1191.17	1636890.95	14314968.80	39°25'13.0992"N	81°00'44.9435"W	1247.40	252.731	2.66	2.38	2.57	
3805.00	31.020	253.490	3496.62	63.72	-385.03	-1235.59	1636846.54	14314954.08	39°25'12.9536"N	81°00'45.5095"W	1294.19	252.692	3.16	2.44	4.03	
3899.00	30.810	253.290	3577.26	66.68	-398.84	-1281.87	1636800.28	14314940.28	39°25'12.8171"N	81°00'46.0992"W	1342.49	252.717	0.25	-0.22	-0.21	
3993.00	29.530	251.260	3658.53	68.68	-413.20	-1326.87	1636755.31	14314925.92	39°25'12.6750"N	81°00'46.6725"W	1389.72	252.703	1.74	-1.36	-2.16	
4087.00	29.690	252.600	3740.26	70.35	-427.61	-1371.02	1636711.17	14314911.52	39°25'12.5326"N	81°00'47.2351"W	1436.16	252.678	0.72	0.17	1.43	
4182.00	31.690	251.680	3821.95	72.26	-442.49	-1417.16	1636665.05	14314896.65	39°25'12.3855"N	81°00'47.8230"W	1484.64	252.660	2.16	2.11	-0.97	
4276.00	31.210	248.580	3902.14	72.49	-459.15	-1463.28	1636618.95	14314880.00	39°25'12.2208"N	81°00'48.4106"W	1533.62	252.579	1.79	-0.51	-3.30	
4370.00	30.420	249.440	3982.87	71.76	-476.40	-1508.23	1636574.01	14314862.75	39°25'12.0502"N	81°00'48.9834"W	1581.68	252.471	0.96	-0.84	0.91	
4464.00	29.270	253.330	4064.41	72.97	-491.35	-1552.53	1636529.73	14314847.81	39°25'11.9024"N	81°00'49.5478"W	1628.43	252.438	2.39	-1.22	4.14	
4558.00	27.530	251.400	4147.98	74.96	-505.01	-1595.59	1636486.69	14314834.15	39°25'11.7672"N	81°00'50.0965"W	1673.61	252.437	2.07	-1.83	-2.03	
4653.00	28.020	252.400	4231.15	76.52	-518.62	-1637.23	1636445.07	14314820.55	39°25'11.6327"N	81°00'50.6270"W	1717.41	252.424	0.72	0.52	1.06	
4747.00	29.280	257.080	4313.65	80.38	-530.44	-1680.69	1636401.63	14314808.74	39°25'11.5158"N	81°00'51.1807"W	1762.41	252.484	2.74	1.34	4.98	
4842.00	31.540	259.350	4395.57	87.38	-540.23	-1727.76	1636354.58	14314798.95	39°25'11.4190"N	81°00'51.7805"W	1810.25	252.637	2.67	2.38	2.39	
4936.00	31.370	258.470	4475.76	95.09	-549.66	-1775.89	1636306.46	14314789.52	39°25'11.3257"N	81°00'52.3938"W	1859.01	252.802	0.52	-0.18	-0.94	
5031.00	29.990	255.460	4557.47	101.10	-560.56	-1823.11	1636259.26	14314778.62	39°25'11.2178"N	81°00'52.9954"W	1907.34	252.909	2.17	-1.45	-3.17	
5125.00	30.310	251.210	4638.76	103.95	-574.10	-1868.31	1636214.08	14314765.09	39°25'11.0840"N	81°00'53.5713"W	1954.53	252.919	2.30	0.34	-4.52	
5219.00	30.050	248.970	4720.02	104.13	-590.19	-1912.73	1636169.67	14314749.01	39°25'10.9249"N	81°00'54.1374"W	2001.72	252.852	1.23	-0.28	-2.38	
5313.00	29.010	249.800	4801.81	103.73	-606.51	-1956.10	1636126.33	14314732.70	39°25'10.7635"N	81°00'54.6898"W	2047.97	252.773	1.19	-1.11	0.88	
5408.00	29.630	252.230	4884.64	104.67	-621.63	-2000.08	1636082.36	14314717.58	39°25'10.6140"N	81°00'55.2503"W	2094.46	252.735	1.41	0.65	2.56	

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Slot	Slot H		

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5502.00	30.690	255.380	4965.92	107.93	-634.78	-2045.42	1636037.04	14314704.44	39°25'10.4840"N	81°00'55.8280"W	2141.66	252.759	2.03	1.13	3.35	
5598.00	31.790	256.950	5046.29	113.29	-646.42	-2092.76	1635989.72	14314692.80	39°25'10.3688"N	81°00'56.4311"W	2190.32	252.835	1.46	1.17	1.67	
5690.00	30.440	255.300	5126.77	118.59	-658.06	-2139.91	1635942.59	14314681.17	39°25'10.2537"N	81°00'57.0320"W	2238.81	252.907	1.70	-1.44	-1.76	
5785.00	30.150	254.070	5208.79	122.62	-670.71	-2186.13	1635896.39	14314668.52	39°25'10.1286"N	81°00'57.6209"W	2286.71	252.944	0.72	-0.31	-1.29	
5879.00	29.250	253.720	5290.45	125.89	-683.63	-2230.88	1635851.66	14314655.61	39°25'10.0008"N	81°00'58.1910"W	2333.27	252.963	0.98	-0.96	-0.37	
5974.00	28.700	254.060	5373.55	129.12	-696.40	-2275.09	1635807.46	14314642.84	39°25'9.8745"N	81°00'58.7543"W	2379.29	252.981	0.60	-0.58	0.36	
6023.00	27.670	254.410	5416.74	130.88	-702.69	-2297.36	1635785.20	14314636.55	39°25'9.8123"N	81°00'59.0381"W	2402.43	252.993	2.13	-2.10	0.71	BH Lucida <8-1/2"> (5974')(6023'-10784')
6071.00	26.650	257.590	5459.45	133.20	-708.00	-2318.61	1635763.96	14314631.25	39°25'9.7598"N	81°00'59.3088"W	2424.30	253.020	3.70	-2.13	6.62	
6165.00	27.590	269.900	5543.18	143.50	-712.57	-2361.01	1635721.58	14314626.68	39°25'9.7146"N	81°00'59.8490"W	2466.19	253.206	6.04	1.00	13.10	
6259.00	31.950	280.430	5624.81	163.62	-708.10	-2407.29	1635675.32	14314631.14	39°25'9.7587"N	81°01'0.4387"W	2509.27	253.609	7.23	4.64	11.20	
6353.00	36.470	294.230	5702.65	195.87	-692.10	-2457.33	1635625.30	14314647.14	39°25'9.9167"N	81°01'1.0764"W	2552.93	254.270	9.53	4.81	14.68	
6448.00	42.940	301.690	5775.74	241.12	-663.47	-2510.69	1635571.96	14314675.76	39°25'10.1996"N	81°01'1.7564"W	2596.88	255.198	8.45	6.81	7.85	
6536.00†	48.042	307.443	5837.44	292.35	-627.79	-2562.23	1635520.44	14314711.42	39°25'10.5521"N	81°01'2.4133"W	2638.02	256.233	7.44	5.80	6.54	Sycamore: 6536' MD
6542.00	48.400	307.800	5841.43	296.14	-625.06	-2565.78	1635516.89	14314714.15	39°25'10.5791"N	81°01'2.4584"W	2640.82	256.309	7.44	5.96	5.96	
6636.00	55.930	313.030	5899.07	360.78	-576.86	-2622.11	1635460.58	14314762.33	39°25'11.0554"N	81°01'3.1764"W	2684.82	257.593	9.13	8.01	5.56	
6689.00†	59.922	314.021	5927.21	401.02	-545.93	-2654.66	1635428.04	14314793.25	39°25'11.3610"N	81°01'3.5912"W	2710.22	258.379	7.70	7.53	1.87	Middlesex: 6689' MD
6731.00	63.090	314.750	5947.25	434.34	-520.11	-2681.04	1635401.68	14314819.05	39°25'11.6161"N	81°01'3.9273"W	2731.02	259.021	7.70	7.54	1.74	
6825.00	65.890	320.170	5987.75	512.74	-457.61	-2738.33	1635344.42	14314881.53	39°25'12.2337"N	81°01'4.6575"W	2776.30	260.513	5.99	2.98	5.77	
6863.00†	67.372	323.081	6002.83	545.86	-430.27	-2759.97	1635322.78	14314908.87	39°25'12.5040"N	81°01'4.9334"W	2793.31	261.139	8.04	3.90	7.66	Burkett: 6863' MD
6920.00	69.690	327.330	6023.70	597.17	-386.71	-2790.22	1635292.54	14314952.40	39°25'12.9344"N	81°01'5.3189"W	2816.89	262.109	8.04	4.07	7.45	
6923.00†	69.918	327.580	6024.73	599.92	-384.34	-2791.73	1635291.03	14314954.77	39°25'12.9578"N	81°01'5.3382"W	2818.07	262.161	10.91	7.61	8.33	Marcellus POE: 6923' MD
7014.00	76.990	334.860	6050.66	686.05	-307.94	-2833.58	1635249.20	14315031.14	39°25'13.7128"N	81°01'5.8716"W	2850.27	263.798	10.91	7.77	8.00	
7108.00	84.670	335.960	6065.63	778.50	-223.62	-2872.16	1635210.63	14315115.43	39°25'14.5461"N	81°01'6.3634"W	2880.85	265.548	8.25	8.17	1.17	
7202.00	90.000	336.180	6070.00	872.16	-137.82	-2910.23	1635172.58	14315201.19	39°25'15.3940"N	81°01'6.8488"W	2913.49	267.289	5.68	5.67	0.23	
7297.00	89.570	336.260	6070.36	966.96	-50.89	-2948.54	1635134.29	14315288.09	39°25'16.2531"N	81°01'7.3371"W	2948.98	269.011	0.46	-0.45	0.08	
7391.00	89.690	336.370	6070.96	1060.78	35.19	-2986.30	1635096.54	14315374.14	39°25'17.1038"N	81°01'7.8185"W	2986.51	270.675	0.17	0.13	0.12	
7485.00	90.180	336.290	6071.07	1154.60	121.28	-3024.04	1635058.82	14315460.19	39°25'17.9546"N	81°01'8.2996"W	3026.47	272.297	0.53	0.52	-0.09	
7579.00	90.060	336.500	6070.87	1248.43	207.42	-3061.68	1635021.19	14315546.29	39°25'18.8059"N	81°01'8.7795"W	3068.69	273.876	0.26	-0.13	0.22	
7674.00	89.970	338.030	6070.85	1343.32	295.03	-3098.39	1634984.49	14315633.87	39°25'19.6718"N	81°01'9.2475"W	3112.41	275.439	1.61	-0.09	1.61	
7768.00	90.460	339.430	6070.50	1437.30	382.63	-3132.49	1634950.41	14315721.43	39°25'20.5374"N	81°01'9.6823"W	3155.77	276.964	1.58	0.52	1.49	

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Actual Wellpath Report

Oxbow Unit 1H AWP Proj: 22732'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Oxbow Unit 1H
Field	Tyler	API	47-095-02894-0000
Facility	Wrigley Pad	Wellbore	Oxbow Unit 1H AWB
Slot	Slot H		

WELLPATH DATA (246 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
7863.00	90.430	339.310	6069.76	1532.30	471.53	-3165.96	1634916.95	14315810.30	39°25'21.4160"N	81°01'10.1090"W	3200.88	278.471	0.13	-0.03	-0.13	
7956.00	90.520	339.440	6068.99	1625.29	558.57	-3198.72	1634884.21	14315897.30	39°25'22.2762"N	81°01'10.5267"W	3247.12	279.905	0.17	0.10	0.14	
8050.00	90.220	339.630	6068.38	1719.29	646.63	-3231.58	1634851.36	14315985.33	39°25'23.1465"N	81°01'10.9457"W	3295.64	281.315	0.38	-0.32	0.20	
8145.00	90.550	339.540	6067.74	1814.28	735.66	-3264.72	1634818.23	14316074.33	39°25'24.0264"N	81°01'11.3682"W	3346.58	282.699	0.36	0.35	-0.09	
8239.00	90.620	340.310	6066.78	1908.28	823.95	-3296.98	1634785.98	14316162.58	39°25'24.8988"N	81°01'11.7796"W	3398.38	284.031	0.82	0.07	0.82	
8333.00	90.520	340.330	6065.85	2002.27	912.45	-3328.64	1634754.34	14316251.05	39°25'25.7735"N	81°01'12.1832"W	3451.43	285.329	0.11	-0.11	0.02	
8427.00	90.430	339.740	6065.07	2096.27	1000.80	-3360.73	1634722.26	14316339.36	39°25'26.6466"N	81°01'12.5924"W	3506.58	286.583	0.63	-0.10	-0.63	
8522.00	90.280	339.530	6064.48	2191.26	1089.86	-3393.79	1634689.21	14316428.38	39°25'27.5268"N	81°01'13.0139"W	3564.49	287.804	0.27	-0.16	-0.22	
8616.00	90.490	339.700	6063.85	2285.26	1177.97	-3426.53	1634656.48	14316516.46	39°25'28.3976"N	81°01'13.4314"W	3623.36	288.972	0.29	0.22	0.18	
8711.00	90.770	339.730	6062.80	2380.25	1267.07	-3459.47	1634623.56	14316605.52	39°25'29.2781"N	81°01'13.8514"W	3684.21	290.116	0.30	0.29	0.03	
8805.00	90.370	339.370	6061.87	2474.25	1355.14	-3492.31	1634590.74	14316693.56	39°25'30.1485"N	81°01'14.2701"W	3746.02	291.208	0.57	-0.43	-0.38	
8899.00	90.400	339.310	6061.24	2568.24	1443.10	-3525.47	1634557.58	14316781.48	39°25'31.0177"N	81°01'14.6930"W	3809.39	292.261	0.07	0.03	-0.06	
8994.00	90.400	339.510	6060.57	2663.24	1532.03	-3558.88	1634524.19	14316870.37	39°25'31.8966"N	81°01'15.1190"W	3874.63	293.291	0.21	0.00	0.21	
9088.00	90.340	339.490	6059.97	2757.23	1620.07	-3591.80	1634491.28	14316958.38	39°25'32.7667"N	81°01'15.5387"W	3940.26	294.278	0.07	-0.06	-0.02	
9182.00	90.280	339.650	6059.46	2851.23	1708.16	-3624.61	1634458.49	14317046.43	39°25'33.6372"N	81°01'15.9571"W	4006.95	295.233	0.18	-0.06	0.17	
9276.00	90.250	340.040	6059.02	2945.23	1796.40	-3657.00	1634426.11	14317134.64	39°25'34.5093"N	81°01'16.3701"W	4074.40	296.161	0.42	-0.03	0.41	
9370.00	90.310	339.860	6058.56	3039.23	1884.70	-3689.23	1634393.90	14317222.91	39°25'35.3819"N	81°01'16.7810"W	4142.76	297.061	0.20	0.06	-0.19	
9464.00	90.430	339.820	6057.96	3133.22	1972.94	-3721.62	1634361.51	14317311.11	39°25'36.2540"N	81°01'17.1941"W	4212.24	297.929	0.13	0.13	-0.04	
9558.00	90.370	339.930	6057.30	3227.22	2061.20	-3753.96	1634329.19	14317399.33	39°25'37.1262"N	81°01'17.6066"W	4282.61	298.770	0.13	-0.06	0.12	
9653.00	90.280	338.860	6056.76	3322.22	2150.12	-3787.40	1634295.77	14317488.22	39°25'38.0050"N	81°01'18.0329"W	4355.16	299.584	1.13	-0.09	-1.13	
9747.00	90.060	339.570	6056.48	3416.21	2238.00	-3820.75	1634262.42	14317576.06	39°25'38.8735"N	81°01'18.4582"W	4427.96	300.360	0.79	-0.23	0.76	
9842.00	89.910	339.470	6056.51	3511.21	2327.00	-3853.99	1634229.20	14317665.02	39°25'39.7530"N	81°01'18.8821"W	4502.02	301.123	0.19	-0.16	-0.11	
9936.00	90.150	338.640	6056.46	3605.20	2414.79	-3887.59	1634195.61	14317752.77	39°25'40.6205"N	81°01'19.3105"W	4576.52	301.847	0.92	0.26	-0.88	
10030.00	90.220	338.400	6056.15	3699.17	2502.26	-3922.01	1634161.20	14317840.21	39°25'41.4850"N	81°01'19.7495"W	4652.25	302.538	0.27	0.07	-0.26	
10124.00	90.340	340.380	6055.69	3793.16	2590.23	-3955.10	1634128.13	14317928.15	39°25'42.3544"N	81°01'20.1714"W	4727.80	303.221	2.11	0.13	2.11	
10219.00	90.220	339.780	6055.23	3888.16	2679.55	-3987.47	1634095.78	14318017.43	39°25'43.2371"N	81°01'20.5841"W	4804.15	303.901	0.64	-0.13	-0.63	
10313.00	90.620	339.900	6054.54	3982.16	2767.79	-4019.86	1634063.39	14318105.63	39°25'44.1091"N	81°01'20.9973"W	4880.57	304.549	0.44	0.43	0.13	
10407.00	90.120	340.460	6053.93	4076.15	2856.22	-4051.73	1634031.54	14318194.03	39°25'44.9830"N	81°01'21.4037"W	4957.27	305.181	0.80	-0.53	0.60	
10501.00	90.310	340.280	6053.58	4170.15	2944.75	-4083.31	1633999.97	14318282.53	39°25'45.8580"N	81°01'21.8064"W	5034.38	305.798	0.28	0.20	-0.19	
10595.00	90.180	339.210	6053.18	4264.14	3032.94	-4115.85	1633967.44	14318370.68	39°25'46.7295"N	81°01'22.2214"W	5112.63	306.386	1.15	-0.14	-1.14	

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Actual Wellpath Report

Oxbow Unit 1H AWP Proj: 22732'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Oxbow Unit 1H
Field	Tyler	API	47-095-02894-0000
Facility	Wrigley Pad	Wellbore	Oxbow Unit 1H AWB
Slot	Slot H		

WELLPATH DATA (246 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
10690.00	90.030	338.560	6053.01	4359.13	3121.56	-4150.08	1633933.23	14318459.26	39°25'47.6053"N	81°01'22.6578"W	5193.00	306.949	0.70	-0.16	-0.68	
10784.00	90.030	334.300	6052.96	4452.94	3207.70	-4187.66	1633895.67	14318545.37	39°25'48.4565"N	81°01'23.1370"W	5275.01	307.452	4.53	0.00	-4.53	
10879.00	90.400	333.370	6052.60	4547.41	3292.96	-4229.55	1633853.79	14318630.60	39°25'49.2991"N	81°01'23.6711"W	5360.28	307.903	1.05	0.39	-0.98	BH AT Curve <8-1/2"> (10784')/(10879'-22707')
10973.00	90.280	336.070	6052.04	4641.02	3377.95	-4269.68	1633813.67	14318715.55	39°25'50.1390"N	81°01'24.1829"W	5444.33	308.349	2.88	-0.13	2.87	
11068.00	90.150	338.680	6051.69	4735.92	3465.63	-4306.23	1633777.15	14318803.20	39°25'51.0055"N	81°01'24.6489"W	5527.58	308.827	2.75	-0.14	2.75	
11162.00	90.180	341.410	6051.41	4829.91	3553.98	-4338.30	1633745.08	14318891.51	39°25'51.8786"N	81°01'25.0580"W	5608.17	309.325	2.90	0.03	2.90	
11256.00	90.120	341.420	6051.17	4923.88	3643.07	-4368.26	1633715.13	14318980.57	39°25'52.7591"N	81°01'25.4401"W	5688.03	309.828	0.06	-0.06	0.01	
11350.00	90.180	341.240	6050.92	5017.85	3732.13	-4398.35	1633685.06	14319069.59	39°25'53.6392"N	81°01'25.8239"W	5768.39	310.316	0.20	0.06	-0.19	
11444.00	89.660	341.250	6051.05	5111.82	3821.14	-4428.58	1633654.84	14319158.56	39°25'54.5188"N	81°01'26.2094"W	5849.22	310.789	0.55	-0.55	0.01	
11539.00	90.280	341.330	6051.10	5206.79	3911.12	-4459.05	1633624.38	14319248.50	39°25'55.4080"N	81°01'26.5980"W	5931.27	311.255	0.66	0.65	0.08	
11633.00	90.280	341.620	6050.64	5300.75	4000.24	-4488.91	1633594.53	14319337.60	39°25'56.2889"N	81°01'26.9790"W	6012.68	311.705	0.31	0.00	0.31	
11822.00	89.910	341.850	6050.33	5489.65	4179.72	-4548.15	1633535.32	14319517.00	39°25'58.0626"N	81°01'27.7345"W	6177.03	312.583	0.23	-0.20	0.12	
11916.00	90.650	341.290	6049.87	5583.61	4268.90	-4577.87	1633505.61	14319606.14	39°25'58.9439"N	81°01'28.1135"W	6259.42	313.000	0.99	0.79	-0.60	
12010.00	90.430	341.320	6048.99	5677.57	4357.93	-4607.99	1633475.50	14319695.14	39°25'59.8238"N	81°01'28.4978"W	6342.33	313.402	0.24	-0.23	0.03	
12104.00	90.860	341.020	6047.93	5771.54	4446.90	-4638.33	1633445.17	14319784.07	39°26'0.7029"N	81°01'28.8848"W	6425.65	313.793	0.56	0.46	-0.32	
12198.00	90.710	343.360	6046.64	5865.45	4536.38	-4667.08	1633416.44	14319873.51	39°26'1.5872"N	81°01'29.2514"W	6508.48	314.186	2.49	-0.16	2.49	
12293.00	90.310	340.880	6045.79	5960.37	4626.78	-4696.24	1633387.29	14319963.88	39°26'2.4806"N	81°01'29.6234"W	6592.55	314.573	2.64	-0.42	-2.61	
12387.00	90.520	341.550	6045.11	6054.34	4715.77	-4726.51	1633357.03	14320052.83	39°26'3.3601"N	81°01'30.0095"W	6676.70	314.935	0.75	0.22	0.71	
12481.00	90.520	341.750	6044.26	6148.29	4804.98	-4756.10	1633327.45	14320142.01	39°26'4.2418"N	81°01'30.3870"W	6760.80	315.293	0.21	0.00	0.21	
12576.00	90.060	341.500	6043.78	6243.24	4895.14	-4786.05	1633297.51	14320232.13	39°26'5.1327"N	81°01'30.7690"W	6846.07	315.646	0.55	-0.48	-0.26	
12670.00	90.890	340.320	6043.00	6337.22	4983.96	-4816.79	1633266.79	14320320.92	39°26'6.0106"N	81°01'31.1611"W	6931.19	315.977	1.53	0.88	-1.26	
12765.00	90.310	340.420	6042.00	6432.21	5073.44	-4848.70	1633234.89	14320410.36	39°26'6.8948"N	81°01'31.5681"W	7017.81	316.298	0.62	-0.61	0.11	
12860.00	90.770	340.060	6041.11	6527.20	5162.84	-4880.82	1633202.78	14320499.72	39°26'7.7783"N	81°01'31.9778"W	7104.74	316.608	0.61	0.48	-0.38	
12953.00	90.460	341.070	6040.11	6620.19	5250.53	-4911.76	1633171.85	14320587.38	39°26'8.6449"N	81°01'32.3724"W	7189.82	316.909	1.14	-0.33	1.09	
13047.00	91.230	338.500	6038.72	6714.17	5338.73	-4944.24	1633139.39	14320675.54	39°26'9.5165"N	81°01'32.7866"W	7276.50	317.197	2.85	0.82	-2.73	
13141.00	90.030	339.600	6037.69	6808.15	5426.50	-4977.84	1633105.80	14320763.28	39°26'10.3839"N	81°01'33.2153"W	7363.82	317.469	1.73	-1.28	1.17	
13235.00	90.220	338.810	6037.49	6902.15	5514.38	-5011.22	1633072.44	14320851.12	39°26'11.2523"N	81°01'33.6409"W	7451.22	317.737	0.86	0.20	-0.84	
13330.00	90.680	339.580	6036.74	6997.14	5603.18	-5044.96	1633038.71	14320939.89	39°26'12.1299"N	81°01'34.0713"W	7539.71	318.001	0.94	0.48	0.81	
13424.00	91.290	339.760	6035.12	7091.12	5691.31	-5077.61	1633006.07	14321027.99	39°26'13.0009"N	81°01'34.4878"W	7627.13	318.262	0.68	0.65	0.19	
13518.00	90.580	339.290	6033.59	7185.11	5779.36	-5110.49	1632973.21	14321116.00	39°26'13.8710"N	81°01'34.9072"W	7714.80	318.515	0.91	-0.76	-0.50	

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Actual Wellpath Report

Oxbow Unit 1H AWP Proj: 22732'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Oxbow Unit 1H
Field	Tyler	API	47-095-02894-0000
Facility	Wrigley Pad	Wellbore	Oxbow Unit 1H AWB
Slot	Slot H		

WELLPATH DATA (246 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
13612.00	90.620	339.420	6032.61	7279.10	5867.32	-5143.63	1632940.08	14321203.92	39°26'14.7402"N	81°01'35.3299"W	7802.71	318.760	0.14	0.04	0.14	
13707.00	90.340	339.540	6031.81	7374.09	5956.29	-5176.93	1632906.79	14321292.86	39°26'15.6195"N	81°01'35.7546"W	7891.64	319.004	0.32	-0.29	0.13	
13801.00	90.120	338.630	6031.43	7468.08	6044.09	-5210.48	1632873.25	14321380.62	39°26'16.4872"N	81°01'36.1826"W	7979.99	319.236	1.00	-0.23	-0.97	
13896.00	90.310	339.810	6031.08	7563.07	6132.91	-5244.19	1632839.56	14321469.41	39°26'17.3649"N	81°01'36.6125"W	8069.33	319.467	1.26	0.20	1.24	
13990.00	90.370	339.480	6030.52	7657.07	6221.04	-5276.88	1632806.88	14321557.50	39°26'18.2358"N	81°01'37.0296"W	8157.62	319.694	0.36	0.06	-0.35	
14084.00	90.340	338.990	6029.94	7751.06	6308.93	-5310.21	1632773.57	14321645.36	39°26'19.1044"N	81°01'37.4547"W	8246.27	319.913	0.52	-0.03	-0.52	
14179.00	89.780	339.890	6029.84	7846.06	6397.88	-5343.57	1632740.22	14321734.27	39°26'19.9834"N	81°01'37.8802"W	8335.86	320.131	1.12	-0.59	0.95	
14273.00	90.310	338.590	6029.76	7940.05	6485.78	-5376.89	1632706.91	14321822.13	39°26'20.8520"N	81°01'38.3052"W	8424.74	320.340	1.49	0.56	-1.38	
14367.00	90.060	339.600	6029.46	8034.04	6573.59	-5410.43	1632673.39	14321909.90	39°26'21.7198"N	81°01'38.7331"W	8513.80	320.544	1.11	-0.27	1.07	
14461.00	89.910	339.720	6029.48	8128.04	6661.72	-5443.10	1632640.73	14321998.01	39°26'22.5908"N	81°01'39.1499"W	8602.67	320.749	0.20	-0.16	0.13	
14556.00	90.370	338.450	6029.25	8223.03	6750.46	-5477.01	1632606.83	14322086.71	39°26'23.4678"N	81°01'39.5824"W	8692.90	320.946	1.42	0.48	-1.34	
14650.00	90.400	340.470	6028.62	8317.02	6838.48	-5509.99	1632573.86	14322174.69	39°26'24.3376"N	81°01'40.0031"W	8782.07	321.140	2.15	0.03	2.15	
14744.00	90.280	339.010	6028.06	8411.01	6926.66	-5542.54	1632541.33	14322262.84	39°26'25.2090"N	81°01'40.4183"W	8871.21	321.334	1.56	-0.13	-1.55	
14839.00	90.460	339.710	6027.45	8506.01	7015.56	-5576.03	1632507.85	14322351.70	39°26'26.0875"N	81°01'40.8455"W	8961.59	321.522	0.76	0.19	0.74	
14933.00	90.150	339.610	6026.95	8600.00	7103.70	-5608.70	1632475.19	14322439.80	39°26'26.9585"N	81°01'41.2623"W	9050.97	321.707	0.35	-0.33	-0.11	
15027.00	90.400	339.350	6026.50	8694.00	7191.73	-5641.65	1632442.26	14322527.80	39°26'27.8285"N	81°01'41.6826"W	9140.53	321.887	0.38	0.27	-0.28	
15121.00	90.280	340.220	6025.94	8788.00	7279.94	-5674.13	1632409.79	14322615.97	39°26'28.7002"N	81°01'42.0970"W	9230.02	322.066	0.93	-0.13	0.93	
15216.00	89.910	339.170	6025.78	8883.00	7369.04	-5707.10	1632376.84	14322705.03	39°26'29.5807"N	81°01'42.5175"W	9320.60	322.243	1.17	-0.39	-1.11	
15310.00	90.150	339.580	6025.73	8976.99	7457.01	-5740.21	1632343.74	14322792.97	39°26'30.4501"N	81°01'42.9399"W	9410.47	322.412	0.51	0.26	0.44	
15404.00	90.520	339.400	6025.18	9070.99	7545.05	-5773.14	1632310.82	14322880.98	39°26'31.3201"N	81°01'43.3600"W	9500.37	322.578	0.44	0.39	-0.19	
15498.00	90.650	340.280	6024.22	9164.98	7633.29	-5805.54	1632278.44	14322969.18	39°26'32.1921"N	81°01'43.7733"W	9590.17	322.745	0.95	0.14	0.94	
15593.00	89.820	338.920	6023.83	9259.98	7722.32	-5838.65	1632245.34	14323058.18	39°26'33.0720"N	81°01'44.1957"W	9681.12	322.908	1.68	-0.87	-1.43	
15687.00	90.890	340.310	6023.25	9353.97	7810.43	-5871.39	1632212.61	14323146.25	39°26'33.9427"N	81°01'44.6134"W	9771.19	323.066	1.87	1.14	1.48	
15780.00	90.340	339.090	6022.25	9446.96	7897.65	-5903.65	1632180.36	14323233.43	39°26'34.8046"N	81°01'45.0250"W	9860.32	323.221	1.44	-0.59	-1.31	
15874.00	90.830	339.680	6021.29	9540.95	7985.62	-5936.75	1632147.28	14323321.37	39°26'35.6740"N	81°01'45.4472"W	9950.64	323.372	0.82	0.52	0.63	
15968.00	90.180	340.210	6020.46	9634.95	8073.92	-5968.98	1632115.06	14323409.63	39°26'36.5466"N	81°01'45.8584"W	10040.76	323.525	0.89	-0.69	0.56	
16063.00	90.950	339.090	6019.53	9729.94	8162.98	-6002.01	1632082.04	14323498.66	39°26'37.4267"N	81°01'46.2799"W	10132.05	323.674	1.43	0.81	-1.18	
16156.00	90.280	339.380	6018.53	9822.93	8249.94	-6034.98	1632049.08	14323585.58	39°26'38.2860"N	81°01'46.7005"W	10221.67	323.814	0.79	-0.72	0.31	
16251.00	90.090	339.290	6018.22	9917.93	8338.82	-6068.51	1632015.57	14323674.43	39°26'39.1644"N	81°01'47.1282"W	10313.23	323.955	0.22	-0.20	-0.09	
16345.00	90.280	339.550	6017.92	10011.92	8426.83	-6101.55	1631982.54	14323762.40	39°26'40.0340"N	81°01'47.5497"W	10403.86	324.093	0.34	0.20	0.28	

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Actual Wellpath Report

Oxbow Unit 1H AWP Proj: 22732'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Oxbow Unit 1H
Field	Tyler	API	47-095-02894-0000
Facility	Wrigley Pad	Wellbore	Oxbow Unit 1H AWB
Slot	Slot H		

WELLPATH DATA (246 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
16439.00	90.090	339.130	6017.62	10105.92	8514.78	-6134.72	1631949.39	14323850.32	39°26'40.9032"N	81°01'47.9728"W	10494.58	324.228	0.49	-0.20	-0.45	
16533.00	90.520	339.730	6017.11	10199.91	8602.78	-6167.74	1631916.38	14323938.29	39°26'41.7729"N	81°01'48.3942"W	10585.32	324.361	0.79	0.46	0.64	
16628.00	90.460	339.780	6016.30	10294.91	8691.91	-6200.62	1631883.52	14324027.38	39°26'42.6537"N	81°01'48.8136"W	10676.94	324.497	0.08	-0.06	0.05	
16722.00	91.260	340.300	6014.89	10388.90	8780.25	-6232.70	1631851.45	14324115.69	39°26'43.5267"N	81°01'49.2229"W	10767.52	324.631	1.02	0.85	0.55	
16816.00	89.910	339.520	6013.93	10482.89	8868.53	-6264.99	1631819.17	14324203.92	39°26'44.3991"N	81°01'49.6349"W	10858.21	324.762	1.66	-1.44	-0.83	
16911.00	90.280	339.530	6013.77	10577.89	8957.53	-6298.22	1631785.96	14324292.89	39°26'45.2786"N	81°01'50.0588"W	10950.10	324.888	0.39	0.39	0.01	
17005.00	90.090	339.650	6013.47	10671.89	9045.62	-6331.00	1631753.19	14324380.95	39°26'46.1492"N	81°01'50.4771"W	11041.05	325.012	0.24	-0.20	0.13	
17099.00	90.030	339.670	6013.37	10765.89	9133.76	-6363.67	1631720.53	14324469.05	39°26'47.0202"N	81°01'50.8939"W	11132.02	325.134	0.07	-0.06	0.02	
17193.00	89.850	339.600	6013.47	10859.88	9221.89	-6396.38	1631687.83	14324557.14	39°26'47.8910"N	81°01'51.3113"W	11223.05	325.254	0.21	-0.19	-0.07	
17287.00	89.850	339.880	6013.72	10953.88	9310.07	-6428.93	1631655.29	14324645.29	39°26'48.7625"N	81°01'51.7266"W	11314.09	325.374	0.30	0.00	0.30	
17381.00	90.340	339.720	6013.56	11047.88	9398.29	-6461.39	1631622.85	14324733.47	39°26'49.6343"N	81°01'52.1407"W	11405.15	325.491	0.55	0.52	-0.17	
17475.00	90.520	339.880	6012.86	11141.88	9486.51	-6493.85	1631590.40	14324821.65	39°26'50.5060"N	81°01'52.5549"W	11496.25	325.607	0.26	0.19	0.17	
17570.00	90.460	339.090	6012.04	11236.87	9575.48	-6527.14	1631557.12	14324910.59	39°26'51.3853"N	81°01'52.9796"W	11588.50	325.720	0.83	-0.06	-0.83	
17664.00	90.680	340.430	6011.11	11330.87	9663.67	-6559.66	1631524.62	14324998.74	39°26'52.2568"N	81°01'53.3945"W	11679.71	325.831	1.44	0.23	1.43	
17759.00	90.250	339.840	6010.34	11425.86	9753.01	-6591.94	1631492.35	14325088.05	39°26'53.1397"N	81°01'53.8064"W	11771.78	325.946	0.77	-0.45	-0.62	
17853.00	90.310	339.970	6009.88	11519.86	9841.29	-6624.23	1631460.07	14325176.29	39°26'54.0120"N	81°01'54.2185"W	11863.02	326.055	0.15	0.06	0.14	
17947.00	90.030	340.270	6009.60	11613.86	9929.68	-6656.20	1631428.12	14325264.65	39°26'54.8856"N	81°01'54.6263"W	11954.23	326.165	0.44	-0.30	0.32	
18041.00	90.370	339.490	6009.27	11707.86	10017.95	-6688.53	1631395.80	14325352.88	39°26'55.7578"N	81°01'55.0389"W	12045.57	326.271	0.91	0.36	-0.83	
18135.00	90.550	339.570	6008.52	11801.85	10106.01	-6721.40	1631362.94	14325440.90	39°26'56.6281"N	81°01'55.4584"W	12137.08	326.373	0.21	0.19	0.09	
18229.00	90.860	340.290	6007.36	11895.85	10194.29	-6753.66	1631330.70	14325529.15	39°26'57.5005"N	81°01'55.8699"W	12228.47	326.476	0.83	0.33	0.77	
18324.00	90.400	339.650	6006.31	11990.84	10283.54	-6786.20	1631298.17	14325618.37	39°26'58.3825"N	81°01'56.2851"W	12320.86	326.579	0.83	-0.48	-0.67	
18418.00	91.110	340.080	6005.08	12084.83	10371.79	-6818.55	1631265.83	14325706.58	39°26'59.2545"N	81°01'56.6979"W	12412.36	326.679	0.88	0.76	0.46	
18512.00	90.370	339.900	6003.86	12178.82	10460.10	-6850.71	1631233.68	14325794.86	39°27'0.1273"N	81°01'57.1083"W	12503.84	326.778	0.81	-0.79	-0.19	
18701.00	90.580	339.300	6002.30	12367.81	10637.24	-6916.59	1631167.83	14325971.93	39°27'1.8778"N	81°01'57.9489"W	12688.19	326.967	0.34	0.11	-0.32	
18889.00	90.550	339.860	6000.44	12555.80	10813.42	-6982.18	1631102.27	14326148.03	39°27'3.6188"N	81°01'58.7859"W	12871.71	327.150	0.30	-0.02	0.30	
18983.00	90.430	339.680	5999.64	12649.80	10901.62	-7014.68	1631069.78	14326236.20	39°27'4.4904"N	81°01'59.2006"W	12963.45	327.241	0.23	-0.13	-0.19	
19077.00	90.620	339.730	5998.78	12743.79	10989.78	-7047.29	1631037.19	14326324.32	39°27'5.3616"N	81°01'59.6167"W	13055.25	327.330	0.21	0.20	0.05	
19171.00	90.400	338.460	5997.94	12837.78	11077.59	-7080.82	1631003.66	14326412.09	39°27'6.2293"N	81°02'0.0446"W	13147.28	327.413	1.37	-0.23	-1.35	
19265.00	90.860	339.780	5996.91	12931.76	11165.40	-7114.32	1630970.18	14326499.88	39°27'7.0971"N	81°02'0.4721"W	13239.33	327.496	1.49	0.49	1.40	
19360.00	90.620	339.970	5995.68	13026.75	11254.60	-7147.01	1630937.50	14326589.03	39°27'7.9785"N	81°02'0.8892"W	13332.13	327.583	0.32	-0.25	0.20	

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Operator	ANTERO RESOURCES CORPORATION	Well	Oxbow Unit 1H
Field	Tyler	API	47-095-02894-0000
Facility	Wrigley Pad	Wellbore	Oxbow Unit 1H AWB
Slot	Slot H		

WELLPATH DATA (246 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
19454.00	90.740	339.460	5994.56	13120.75	11342.76	-7179.59	1630904.93	14326677.16	39°27'8.8498"N	81°02'1.3050"W	13424.04	327.668	0.56	0.13	-0.54	
19548.00	90.340	340.040	5993.68	13214.74	11430.95	-7212.13	1630872.41	14326765.31	39°27'9.7212"N	81°02'1.7202"W	13515.97	327.751	0.75	-0.43	0.62	
19642.00	90.680	339.790	5992.84	13308.74	11519.23	-7244.41	1630840.14	14326853.55	39°27'10.5936"N	81°02'2.1321"W	13607.87	327.834	0.45	0.36	-0.27	
19736.00	90.680	340.000	5991.73	13402.73	11607.49	-7276.72	1630807.85	14326941.79	39°27'11.4659"N	81°02'2.5444"W	13699.80	327.916	0.22	0.00	0.22	
19830.00	91.350	340.730	5990.06	13496.71	11696.01	-7308.30	1630776.28	14327030.27	39°27'12.3406"N	81°02'2.9474"W	13791.59	328.001	1.05	0.71	0.78	
19924.00	90.430	340.860	5988.60	13590.69	11784.77	-7339.22	1630745.37	14327118.99	39°27'13.2177"N	81°02'3.3420"W	13883.26	328.087	0.99	-0.98	0.14	
20017.00	90.550	340.710	5987.80	13683.67	11872.58	-7369.82	1630714.78	14327206.77	39°27'14.0855"N	81°02'3.7326"W	13973.99	328.170	0.21	0.13	-0.16	
20112.00	90.890	341.770	5986.61	13778.63	11962.53	-7400.37	1630684.24	14327296.68	39°27'14.9744"N	81°02'4.1225"W	14066.54	328.258	1.17	0.36	1.12	
20206.00	90.310	340.700	5985.63	13872.60	12051.52	-7430.61	1630654.02	14327385.64	39°27'15.8539"N	81°02'4.5084"W	14158.15	328.343	1.29	-0.62	-1.14	
20300.00	90.340	340.760	5985.09	13966.59	12140.26	-7461.63	1630623.01	14327474.34	39°27'16.7307"N	81°02'4.9043"W	14249.97	328.424	0.07	0.03	0.06	
20394.00	90.430	340.520	5984.46	14060.58	12228.94	-7492.79	1630591.86	14327562.98	39°27'17.6071"N	81°02'5.3020"W	14341.86	328.504	0.27	0.10	-0.26	
20488.00	90.550	340.670	5983.66	14154.57	12317.60	-7524.02	1630560.64	14327651.60	39°27'18.4832"N	81°02'5.7006"W	14433.78	328.582	0.20	0.13	0.16	
20583.00	90.150	340.830	5983.08	14249.55	12407.28	-7555.34	1630529.34	14327741.26	39°27'19.3695"N	81°02'6.1003"W	14526.66	328.661	0.45	-0.42	0.17	
20677.00	90.310	340.490	5982.70	14343.54	12495.98	-7586.47	1630498.22	14327829.91	39°27'20.2460"N	81°02'6.4976"W	14618.62	328.738	0.40	0.17	-0.36	
20770.00	90.550	340.970	5982.00	14436.53	12583.76	-7617.16	1630467.54	14327917.67	39°27'21.1135"N	81°02'6.8893"W	14709.60	328.813	0.58	0.26	0.52	
20865.00	90.680	340.950	5980.98	14531.51	12673.56	-7648.15	1630436.56	14328007.43	39°27'22.0009"N	81°02'7.2848"W	14802.48	328.890	0.14	0.14	-0.02	
20959.00	90.150	340.670	5980.30	14625.49	12762.34	-7679.05	1630405.68	14328096.17	39°27'22.8782"N	81°02'7.6792"W	14894.46	328.965	0.64	-0.56	-0.30	
21054.00	90.550	340.820	5979.72	14720.48	12852.02	-7710.38	1630374.36	14328185.81	39°27'23.7644"N	81°02'8.0790"W	14987.47	329.039	0.45	0.42	0.16	
21148.00	90.740	341.130	5978.66	14814.46	12940.88	-7741.02	1630343.74	14328274.64	39°27'24.6426"N	81°02'8.4701"W	15079.45	329.113	0.39	0.20	0.33	
21242.00	90.650	341.130	5977.52	14908.43	13029.82	-7771.41	1630313.35	14328363.54	39°27'25.5215"N	81°02'8.8581"W	15171.39	329.187	0.10	-0.10	0.00	
21336.00	91.170	341.680	5976.03	15002.38	13118.90	-7801.39	1630283.39	14328452.59	39°27'26.4018"N	81°02'9.2407"W	15263.26	329.261	0.81	0.55	0.59	
21431.00	90.460	340.520	5974.68	15097.35	13208.77	-7832.15	1630252.63	14328542.42	39°27'27.2899"N	81°02'9.6334"W	15356.24	329.334	1.43	-0.75	-1.22	
21525.00	90.860	340.740	5973.60	15191.33	13297.44	-7863.33	1630221.47	14328631.06	39°27'28.1661"N	81°02'10.0313"W	15448.43	329.402	0.49	0.43	0.23	
21620.00	90.430	340.430	5972.53	15286.32	13387.03	-7894.90	1630189.91	14328720.61	39°27'29.0515"N	81°02'10.4343"W	15541.63	329.470	0.56	-0.45	-0.33	
21714.00	90.680	340.390	5971.62	15380.31	13475.59	-7926.42	1630158.41	14328809.13	39°27'29.9266"N	81°02'10.8366"W	15633.93	329.536	0.27	0.27	-0.04	
21808.00	89.940	340.710	5971.11	15474.30	13564.22	-7957.72	1630127.12	14328897.73	39°27'30.8025"N	81°02'11.2361"W	15726.20	329.601	0.86	-0.79	0.34	
21902.00	89.970	340.780	5971.18	15568.29	13652.96	-7988.72	1630096.13	14328986.43	39°27'31.6794"N	81°02'11.6317"W	15818.44	329.667	0.08	0.03	0.07	
21996.00	90.000	340.680	5971.21	15662.28	13741.70	-8019.74	1630065.12	14329075.13	39°27'32.5563"N	81°02'12.0277"W	15910.70	329.732	0.11	0.03	-0.11	
22090.00	90.090	340.920	5971.13	15756.27	13830.47	-8050.65	1630034.22	14329163.87	39°27'33.4335"N	81°02'12.4223"W	16002.96	329.797	0.27	0.10	0.26	
22185.00	89.820	341.070	5971.21	15851.25	13920.29	-8081.59	1630003.30	14329253.65	39°27'34.3211"N	81°02'12.8172"W	16096.17	329.862	0.33	-0.28	0.16	

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Actual Wellpath Report

Oxbow Unit 1H AWP Proj: 22732'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Oxbow Unit 1H
Field	Tyler	API	47-095-02894-0000
Facility	Wrigley Pad	Wellbore	Oxbow Unit 1H AWB
Slot	Slot H		

WELLPATH DATA (246 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
22279.00	89.910	340.450	5971.43	15945.24	14009.04	-8112.57	1629972.34	14329342.37	39°27'35.1982"N	81°02'13.2125"W	16188.48	329.925	0.67	0.10	-0.66	
22373.00	89.880	340.350	5971.60	16039.23	14097.59	-8144.10	1629940.82	14329430.88	39°27'36.0732"N	81°02'13.6150"W	16280.92	329.985	0.11	-0.03	-0.11	
22467.00	90.310	340.500	5971.44	16133.23	14186.16	-8175.59	1629909.33	14329519.42	39°27'36.9485"N	81°02'14.0170"W	16373.37	330.045	0.48	0.46	0.16	
22561.00	89.910	340.940	5971.26	16227.22	14274.89	-8206.63	1629878.31	14329608.11	39°27'37.8253"N	81°02'14.4132"W	16465.76	330.105	0.63	-0.43	0.47	
22707.00	89.910	340.690	5971.49	16373.20	14412.78	-8254.61	1629830.35	14329745.94	39°27'39.1879"N	81°02'15.0256"W	16609.24	330.199	0.17	0.00	-0.17	
22732.00†	89.910	340.690	5971.53	16398.19	14436.37	-8262.87	1629822.09	14329769.53	39°27'39.4211"N	81°02'15.1312"W	16633.82	330.215	0.00	0.00	0.00	Projected MD at TD: 22732'

HOLE & CASING SECTIONS - Ref Wellbore: Oxbow Unit 1H AWB Ref Wellpath: Oxbow Unit 1H AWP Proj: 22732'

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
20in Conductor	25.50	125.50	100.00	25.50	125.50	0.00	0.00	0.09	0.16
17.5in Open Hole	125.50	501.00	375.50	125.50	500.99	0.09	0.16	-0.21	2.08
13.375in Casing Surface	25.50	481.00	455.50	25.50	480.99	0.00	0.00	-0.15	2.05
12.375in Open Hole	501.00	3527.00	3026.00	500.99	3251.10	-0.21	2.08	-338.44	-1114.15
9.625in Casing Intermediate	25.50	3497.00	3471.50	25.50	3224.20	0.00	0.00	-333.06	-1102.02
8.75in Open Hole	3527.00	6049.00	2522.00	3251.10	5439.83	-338.44	-1114.15	-705.73	-2308.93
8.5in Open Hole	6049.00	22732.00	16683.00	5439.83	5971.53	-705.73	-2308.93	14436.37	-8262.87
5.5in Casing Production	25.50	22712.00	22686.50	25.50	5971.50	0.00	0.00	14417.50	-8256.26



Actual Wellpath Report

Oxbow Unit 1H AWP Proj: 22732'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Oxbow Unit 1H
Field	Tyler	API	47-095-02894-0000
Facility	Wrigley Pad	Wellbore	Oxbow Unit 1H AWB
Slot	Slot H		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Oxbow Unit 1H POE Rev-2	6030.00	-412.08	-2742.52	1635340.22	14314927.05	39°25'12.6838"N	81°01'4.7111"W	point
Oxbow Unit 1H AZI Rev-2	6075.00	288.77	-3103.25	1634979.64	14315627.61	39°25'19.6098"N	81°01'9.3094"W	point
Oxbow Unit 1H BHL Rev-2	6075.00	14465.06	-8298.52	1629786.46	14329798.21	39°27'39.7045"N	81°02'15.5857"W	point
Oxbow Unit 1H LP Rev-2	6075.00	-197.73	-2870.93	1635211.86	14315141.31	39°25'14.8020"N	81°01'6.3478"W	point
Oxbow Unit 1H 50' L/R Hard Line	6500.00	7376.11	-5700.59	1632383.35	14322712.10	39°26'29.6506"N	81°01'42.4346"W	rectangle
2D Rectangle 15100 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Oxbow Unit 1H AWB Ref Wellpath: Oxbow Unit 1H AWP Proj: 22732'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	473.00	Gyrodatta 2015 - GC+WIR+DPIPE	01 Gyrodatta MS Gyro <17-1/2"> (100'-473')	Oxbow Unit 1H AWB	10/19/2024
473.00	3455.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-3/8"> (473')(607'-3455')	Oxbow Unit 1H AWB	10/19/2024
3455.00	5974.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (3455')(3522'-5974')	Oxbow Unit 1H AWB	10/19/2024
5974.00	10784.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH Lucida <8-1/2"> (5974')(6023'-10784')	Oxbow Unit 1H AWB	10/19/2024
10784.00	22732.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	05 BH AT Curve <8-1/2"> (10784')(10879'-22707')	Oxbow Unit 1H AWB	10/28/2024

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Actual Wellpath Report

Oxbow Unit 1H AWP Proj: 22732'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Oxbow Unit 1H
Field	Tyler	API	47-095-02894-0000
Facility	Wrigley Pad	Wellbore	Oxbow Unit 1H AWB
Slot	Slot H		

COMMENTS

Wellpath general comments

API: 47-095-02894-0000

BH Job #: 112439003

Rig: H&P 317

Duration: 10/20/2024-10/28/2024

Gyrodata MS Gyro <17-1/2"> (100'-473')

APS EM <12-3/8"> (473')(607'-3455')

APS EM <8-3/4"> (3455')(3522'-5974')

BH Lucida <8-1/2"> (5974')(6023'-10784')

Sycamore: 6536' MD

Middlesex: 6689' MD

Burkett: 6863' MD

Marcellus POE: 6923' MD

BH AT Curve <8-1/2"> (10784')(10879'-22707')

Projected MD at TD: 22732'

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