



ANTERO RESOURCES CORPORATION

Location: Doddridge Co., WV
Field: Doddridge
Facility: Locke Pad

Slot: Slot K
Well: Osborne Unit 2H
Wellbore: Osborne Unit 2H PWB



Plot reference wellpath is Osborne Unit 2H PWB Rev-B.0	Grid System: NAD83 / UTM Zone 17 North US Std
True vertical depth is referenced to H&P 317 (2005)	North Reference: Grid north
Reference wellpath is referenced to H&P 317 (2005)	Scale: True distance
H&P 317 (2005) to Mean Sea Level: 1525.5 feet	Coordinate: 40° or less referenced to Slot
Mean Sea Level to Ground level (at Slot): 1100 feet	Dip: 0.00° or less
Grid wellpath MD is referenced to ground level (at Slot)	Created by: Antero on 2025-05-05, Drawn by: MFL, EASTERN, Jody

Location Information

Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Locke Pad	1687522.330	14226577.530	39°10'38.890"N	80°50'1.509"W
Slot	Local N (ft)	Local E (ft)	Grid North (US ft)	Grid East (US ft)
Slot K	245.27	230.28	1687752.520	14226822.700
Comment	Osborne Unit 2H			
H&P 317 (RKB) to Ground level (at Slot: Slot K)	25.5 ft			
Mean Sea Level to Ground level (at Slot: Slot K)	-1100 ft			
H&P 317 (RKB) to Mean Sea Level	1125.5 ft			

Well Data

Slot	Well	Wellbore	Wellpath
Slot K	Osborne Unit 2H	Osborne Unit 2H AWP	Osborne Unit 2H AWP Proj. 19885
Slot K	Osborne Unit 2H	Osborne Unit 2H PWB	Osborne Unit 2H PWB Rev-B.0

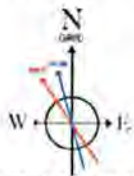
Gyrodata MS Gyro <17-1/2> (100'-400'): 0.17° Inc. 100.00ft MD, 100.00ft TVD, -0.11ft VS

Gyrodata MS Gyro <12-1/4> (400')(500'-532'): 0.21° Inc. 500.00ft MD, 500.00ft TVD, -0.90ft VS
APS EM <12-1/4> (532')(570'-2858'): 0.20° Inc. 570.00ft MD, 570.00ft TVD, -0.99ft VS

Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (7100ft)	VS (ft)
Tie On	2858.00	0.240	292.280	2856.32	-1.69	83.96	0.05	-26.20
Proj. to Bottom	2933.00	0.240	292.280	2931.32	-1.57	63.67	0.00	-25.98
KOP 1	3606.00	0.240	292.280	3604.31	-0.50	61.06	0.00	-23.99
End of 3D Arc	4344.00	14.646	223.633	4334.03	-68.72	-5.98	2.00	-61.11
Curve KOP	5813.89	14.646	223.633	5754.86	-341.30	-265.86	0.00	-212.53
POE	6817.47	73.921	337.341	6506.00	82.27	-595.24	8.00	305.63
Landing Pt	7023.46	90.400	337.341	6534.00	269.94	-674.58	8.00	508.99
Hold	15730.86	90.400	337.341	6473.21	8305.03	-4029.04	0.00	9216.18
Turn	16230.88	90.400	342.341	6489.72	8774.26	-4201.30	1.00	9715.56
Turn	17230.87	90.400	332.340	6482.72	9695.87	-4586.05	1.00	10714.25
Turn / On AZI	17730.87	90.400	337.341	6458.23	10148.25	-4798.55	1.00	11213.60
BHE	19795.42	90.400	337.341	6444.81	12053.42	-5593.90	0.00	13278.11

APS EM <6-3/4> (2858')(2942'-5225'): 0.16° Inc. 2942.00ft MD, 2940.32ft TVD, -25.96ft VS



User specified (HDGM) Dip: 85.66° Field: 51156 nT
Magnetic North is 7.45 degrees West of True North (at 12/31/2024)
Grid North is 0.11 degrees East of True North
To correct azimuth from True to Grid subtract 0.11 degrees
To correct azimuth from Magnetic to Grid subtract 7.55 degrees

BH Lucida <8-1/2> (5225')(5339'-19885'): 15.53° Inc. 5339.00ft MD, 5296.14ft TVD, -157.69ft VS

Marcellus POE: 6801' MD : 72.31° Inc, 6801.00ft MD, 6514.96ft TVD, 276.16ft VS

Marcellus POE: 6801' MD : 65.14.96ft TVD, 49.78ft N, 597.57ft W

BH Lucida <8-1/2> (5225')(5339'-19885'): 5296.14ft TVD, 248.23ft S, 185.27ft W
APS EM <8-3/4> (2858')(2942'-5225'): 2940.32ft TVD, 1.52ft S, 63.75ft E
APS EM <12-1/4> (532')(570'-2858'): 570.00ft TVD, 1.21ft S, 0.34ft W
Gyrodata MS Gyro <12-1/4> (400')(500'-532'): 500.00ft TVD, 1.66ft S, 0.20ft W
Gyrodata MS Gyro <17-1/2> (100'-400'): 100.00ft TVD, 0.10ft S, 0.04ft E

Projected MD at TD: 19885' : 88.95° Inc, 19885.00ft MD, 6514.60ft TVD, 13353.70ft VS

Vertical Section (ft)
Azimuth 337.34° with reference 0.00 N, 0.00 E

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BH Job #: 112542266
Rig: H&P 317
Duration: 2/9/2025-2/13/2025
Department of Environmental Protection

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Actual Wellpath Report

Osborne Unit 2H AWP Proj: 19885'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Osborne Unit 2H
Field	Doddridge	API	47-017-06973-0000
Facility	Locke Pad	Wellbore	Osborne Unit 2H AWB
Slot	Slot K		

REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999603	Report Generated	2/18/2025 at 2:52:46 AM
Convergence at slot	0.11° 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	245.27	230.28	1687752.52	14226822.70	39°10'41.1100"N	80°49'58.6700"W
Facility Reference Pt			1687522.33	14226577.53	39°10'38.6900"N	80°50'1.5999"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	1125.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level	1125.50ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot K)	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	337.34°

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Field	Doddridge	API	47-017-06973-0000
Facility	Locke Pad	Wellbore	Osborne Unit 2H AWE
Slot	Slot K		

WELLPATH DATA (220 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 [ft/100ft]	Build Rate [ft/100ft]	Turn Rate [°/100ft]	Comments
0.00†	0.000	180.770	0.00	0.00	0.00	0.00	1687752.52	14226822.70	39°10'41.1100°N	80°49'58.6700°W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	180.770	25.50	0.00	0.00	0.00	1687752.52	14226822.70	39°10'41.1100°N	80°49'58.6700°W	0.00	0.000	0.00	0.00	0.00	
100.00	0.170	180.770	100.00	-0.11	-0.10	0.04	1687752.56	14226822.60	39°10'41.1090°N	80°49'58.6696°W	0.11	180.770	0.23	0.23	0.00	Gyrodata MS Gyro <17-1/2"> (100'-400')
200.00	0.180	183.140	200.00	-0.41	-0.39	0.13	1687752.65	14226822.31	39°10'41.1061°N	80°49'58.6684°W	0.42	181.665	0.01	0.01	2.37	
300.00	0.190	175.710	300.00	-0.73	-0.71	0.19	1687752.71	14226821.99	39°10'41.1030°N	80°49'58.6676°W	0.74	165.119	0.04	0.04	12.57	
400.00	0.150	248.480	400.00	-0.88	-0.92	0.08	1687752.60	14226821.78	39°10'41.1009°N	80°49'58.6690°W	0.93	175.087	0.20	-0.04	72.77	
500.00	0.210	241.530	500.00	-0.90	-1.06	-0.20	1687752.32	14226821.64	39°10'41.0996°N	80°49'58.6726°W	1.08	190.874	0.06	0.06	-8.95	Gyrodata MS Gyro <12-1/4"> (400')(500'-532')
532.00	0.140	211.250	532.00	-0.93	-1.12	-0.28	1687752.24	14226821.58	39°10'41.0990°N	80°49'58.6735°W	1.15	193.803	0.36	-0.23	-94.62	
570.00	0.200	218.470	570.00	-0.99	-1.21	-0.34	1687752.18	14226821.49	39°10'41.0981°N	80°49'58.6744°W	1.26	195.696	0.17	0.16	19.00	APS EM <12-1/4"> (532')(570'-2858')
660.00	0.540	103.000	660.00	-1.31	-1.43	-0.03	1687752.49	14226821.27	39°10'41.0959°N	80°49'58.6704°W	1.43	181.006	0.72	0.38	-128.30	
750.00	1.810	88.810	749.98	-2.08	-1.50	1.81	1687754.33	14226821.20	39°10'41.0952°N	80°49'58.6471°W	2.35	129.595	1.44	1.41	-15.77	
842.00	3.210	87.800	841.89	-3.51	-1.37	5.84	1687758.35	14226821.33	39°10'41.0964°N	80°49'58.5960°W	5.99	103.187	1.52	1.52	-1.10	
932.00	3.550	83.210	931.73	-5.15	-0.94	11.12	1687763.64	14226821.76	39°10'41.1005°N	80°49'58.5288°W	11.16	94.838	0.48	0.38	-5.10	
1022.00	3.520	85.140	1021.56	-6.76	-0.38	16.64	1687769.15	14226822.32	39°10'41.1060°N	80°49'58.4587°W	16.64	91.300	0.14	-0.03	2.14	
1117.00	3.430	89.950	1116.38	-8.74	-0.13	22.39	1687774.90	14226822.57	39°10'41.1084°N	80°49'58.3057°W	22.39	90.328	0.32	-0.09	5.06	
1212.00	3.570	90.500	1211.21	-11.00	-0.15	28.19	1687780.70	14226822.55	39°10'41.1080°N	80°49'58.3121°W	28.19	90.308	0.15	0.15	0.58	
1306.00	3.210	92.700	1305.04	-13.28	-0.30	33.74	1687786.25	14226822.40	39°10'41.1064°N	80°49'58.2416°W	33.74	90.511	0.41	-0.38	2.34	
1401.00	3.500	90.540	1399.88	-15.56	-0.45	39.30	1687791.80	14226822.25	39°10'41.1048°N	80°49'58.1710°W	39.30	90.661	0.33	0.31	-2.27	
1496.00	3.550	90.890	1494.70	-17.88	-0.53	45.14	1687797.64	14226822.17	39°10'41.1040°N	80°49'58.0968°W	45.14	90.668	0.06	0.05	0.37	
1590.00	3.290	85.900	1588.53	-19.90	-0.38	50.74	1687803.24	14226822.32	39°10'41.1054°N	80°49'58.0257°W	50.74	90.428	0.42	-0.28	-5.31	
1685.00	1.650	98.210	1683.44	-21.47	-0.38	54.81	1687807.31	14226822.32	39°10'41.1053°N	80°49'57.9740°W	54.81	90.397	1.80	-1.73	12.96	
1780.00	1.490	105.620	1778.40	-22.93	-0.91	57.36	1687809.85	14226821.79	39°10'41.1000°N	80°49'57.9417°W	57.36	90.906	0.27	-0.17	7.80	
1874.00	1.400	106.350	1872.37	-24.41	-1.56	59.64	1687812.13	14226821.14	39°10'41.0935°N	80°49'57.9128°W	59.66	91.498	0.10	-0.10	0.78	
1969.00	1.260	102.630	1967.35	-25.75	-2.11	61.77	1687814.26	14226820.59	39°10'41.0880°N	80°49'57.8857°W	61.80	91.961	0.17	-0.15	-3.92	
2064.00	1.150	98.120	2062.33	-26.84	-2.48	63.73	1687816.23	14226820.22	39°10'41.0844°N	80°49'57.8606°W	63.78	92.226	0.15	-0.12	-4.75	
2158.00	0.030	165.720	2156.32	-27.35	-2.63	64.67	1687817.17	14226820.07	39°10'41.0828°N	80°49'57.8489°W	64.72	92.333	1.21	-1.19	71.91	
2253.00	0.100	342.610	2251.32	-27.29	-2.58	64.65	1687817.15	14226820.12	39°10'41.0834°N	80°49'57.8491°W	64.70	92.285	0.14	0.07	186.20	
2347.00	0.040	13.140	2345.32	-27.18	-2.47	64.64	1687817.13	14226820.23	39°10'41.0844°N	80°49'57.8493°W	64.68	92.188	0.07	-0.06	32.48	
2442.00	0.120	26.500	2440.32	-27.09	-2.35	64.69	1687817.18	14226820.35	39°10'41.0856°N	80°49'57.8467°W	64.73	92.079	0.09	0.08	14.08	
2536.00	0.100	345.080	2534.32	-26.94	-2.18	64.71	1687817.20	14226820.52	39°10'41.0873°N	80°49'57.8484°W	64.75	91.930	0.08	-0.02	-44.06	

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Osborne Unit 2H AWP Proj: 19885'

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Operator	ANTERO RESOURCES CORPORATION	Well	Osborne Unit 2H
Field	Doddridge	API	47-017-06973-0000
Facility	Locke Pad	Wellbore	Osborne Unit 2H AWP
Slot	Slot K		

WELLPATH DATA (220 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
2631.00	0.130	302.580	2629.32	-26.77	-2.04	64.60	1687817.09	14226820.68	39°10'41.0887"N	80°49'57.8498"W	64.63	91.811	0.09	0.03	-44.74	
2725.00	0.160	301.740	2723.32	-26.58	-1.92	64.40	1687816.89	14226820.78	39°10'41.0899"N	80°49'57.8523"W	64.43	91.704	0.03	0.03	-0.89	
2820.00	0.240	296.990	2818.32	-26.32	-1.76	64.11	1687816.60	14226820.94	39°10'41.0915"N	80°49'57.8560"W	64.13	91.569	0.09	0.08	-5.00	
2050.00	0.240	292.280	2856.32	-26.20	-1.69	63.96	1687816.46	14226821.01	39°10'41.0922"N	80°49'57.8579"W	63.98	91.513	0.05	0.00	-12.39	
2942.00	0.160	333.970	2940.32	-25.96	-1.52	63.75	1687816.24	14226821.18	39°10'41.0939"N	80°49'57.8606"W	63.77	91.384	0.19	-0.10	49.63	APS EM <8-3/4"> (2858')(2942'-5225')
3040.00	0.720	94.220	3038.32	-26.10	-1.44	64.30	1687816.80	14226821.26	39°10'41.0946"N	80°49'57.8535"W	64.32	91.283	0.83	0.57	122.70	
3135.00	0.640	135.650	3133.31	-26.86	-1.86	65.27	1687817.76	14226820.84	39°10'41.0904"N	80°49'57.8413"W	65.29	91.635	0.51	-0.08	43.61	
3230.00	0.400	109.450	3228.31	-27.58	-2.35	65.95	1687818.45	14226820.35	39°10'41.0856"N	80°49'57.8326"W	65.99	92.044	0.35	-0.25	-27.58	
3324.00	0.780	100.940	3322.30	-28.15	-2.58	66.89	1687819.38	14226820.12	39°10'41.0833"N	80°49'57.8207"W	66.94	92.212	0.41	0.40	-9.05	
3419.00	0.690	25.700	3417.30	-28.13	-2.19	67.77	1687820.27	14226820.51	39°10'41.0871"N	80°49'57.8095"W	67.81	91.852	0.95	-0.09	-79.20	
3515.00	0.170	59.290	3513.29	-27.73	-1.80	68.15	1687820.64	14226821.10	39°10'41.0930"N	80°49'57.8047"W	68.16	91.343	0.58	-0.54	34.99	
3610.00	1.860	220.730	3608.28	-28.40	-2.69	67.26	1687819.75	14226820.01	39°10'41.0822"N	80°49'57.8160"W	67.31	92.294	2.13	1.78	169.94	
3705.00	3.170	229.170	3703.18	-29.91	-5.58	64.27	1687816.76	14226817.12	39°10'41.0537"N	80°49'57.8541"W	64.51	94.962	1.43	1.38	8.88	
3800.00	4.840	226.710	3797.85	-32.14	-10.05	59.36	1687811.06	14226812.66	39°10'41.0097"N	80°49'57.9165"W	60.21	99.605	1.77	1.76	-2.58	
3895.00	6.320	224.380	3892.50	-35.59	-16.53	52.79	1687805.29	14226808.18	39°10'40.9457"N	80°49'58.0001"W	55.31	107.369	1.58	1.56	-2.45	
3990.00	7.790	228.740	3986.78	-39.69	-24.51	44.28	1687796.79	14226798.19	39°10'40.8869"N	80°49'58.1062"W	50.62	118.965	1.65	1.55	4.58	
4085.00	9.450	225.660	4080.70	-44.82	-34.21	33.87	1687786.38	14226788.50	39°10'40.7713"N	80°49'58.2407"W	48.14	135.287	1.81	1.75	-3.24	
4180.00	11.770	226.570	4174.07	-50.94	-46.33	21.26	1687773.77	14226776.39	39°10'40.6518"N	80°49'58.4012"W	50.97	155.353	2.45	2.44	0.96	
4274.00	12.650	228.640	4265.94	-57.84	-59.72	6.57	1687759.08	14226763.01	39°10'40.5197"N	80°49'58.5880"W	60.08	173.725	1.05	0.94	2.20	
4369.00	13.910	225.820	4358.40	-65.16	-74.55	-9.43	1687743.09	14226748.19	39°10'40.3734"N	80°49'58.7915"W	75.14	187.210	1.49	1.33	-2.97	
4464.00	14.380	230.340	4450.52	-72.80	-90.04	-26.70	1687725.83	14226732.70	39°10'40.2206"N	80°49'59.0112"W	93.81	196.518	1.26	0.49	4.76	
4558.00	13.510	227.870	4541.75	-79.87	-104.85	-43.83	1687708.71	14226717.89	39°10'40.0745"N	80°49'59.2291"W	113.65	202.886	1.12	-0.93	-2.63	
4653.00	13.250	229.510	4634.17	-86.91	-119.37	-60.34	1687692.20	14226703.38	39°10'39.9313"N	80°49'59.4390"W	133.75	206.817	0.48	-0.27	1.73	
4748.00	13.950	226.220	4726.51	-94.37	-134.36	-76.89	1687675.66	14226688.39	39°10'39.7834"N	80°49'59.6495"W	154.80	209.781	1.10	0.74	-3.46	
4842.00	14.960	227.830	4817.54	-102.50	-150.34	-94.06	1687658.50	14226672.42	39°10'39.6258"N	80°49'59.8680"W	177.34	212.032	1.16	1.07	1.71	
4940.00	16.620	225.070	4911.84	-112.04	-168.74	-113.36	1687639.20	14226654.03	39°10'39.4443"N	80°50'0.1135"W	203.28	213.894	1.86	1.69	-2.82	
5035.00	15.580	222.770	5003.11	-122.49	-187.70	-131.64	1687620.93	14226635.08	39°10'39.2572"N	80°50'0.3461"W	229.26	215.044	1.28	-1.08	-2.42	
5130.00	15.860	223.440	5094.56	-133.05	-206.49	-149.23	1687603.35	14226616.29	39°10'39.0718"N	80°50'0.5699"W	254.77	215.856	0.35	0.29	0.71	
5225.00	14.930	219.930	5186.15	-143.95	-225.30	-168.01	1687586.57	14226597.49	39°10'38.8862"N	80°50'0.7834"W	279.86	216.385	1.39	-0.96	-3.69	
5339.00	15.530	220.100	5296.14	-157.69	-248.23	-185.27	1687567.32	14226574.57	39°10'38.6599"N	80°50'1.0284"W	309.75	216.738	0.53	0.53	0.15	BH Lucida <8-1/2"> (5225')(5339'-19886')

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Actual Wellpath Report

Osborne Unit 2H AWP Proj: 19885'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Osborne Unit 2H
Field	Doddridge	API	47-017-06973-0000
Facility	Locke Pad	Wellbore	Osborne Unit 2H AWB
Slot	Slot K		

WELLPATH DATA (220 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
5434.00	15.290	220.150	5387.73	-189.24	-267.54	-201.54	1687551.06	14226555.27	39°10'38.4694"N	80°50'1.2355"W	334.95	216.891	0.25	-0.25	0.05	
5529.00	13.200	215.390	5479.81	-180.70	-285.96	-215.90	1687536.71	14226536.86	39°10'38.2876"N	80°50'1.4182"W	358.31	217.053	2.52	-2.20	-5.01	
5624.00	11.090	212.210	5572.67	-191.70	-302.53	-227.05	1687525.56	14226520.29	39°10'38.1240"N	80°50'1.5603"W	378.26	216.889	2.33	-2.22	-3.35	
5657.00	10.310	210.820	5605.10	-195.28	-307.75	-230.26	1687522.35	14226515.07	39°10'38.0724"N	80°50'1.6011"W	384.38	216.804	2.47	-2.34	-3.91	
5718.00	11.440	224.040	5665.01	-200.92	-316.78	-237.27	1687515.34	14226506.04	39°10'37.9833"N	80°50'1.6004"W	395.79	216.834	4.45	1.85	21.51	
5813.00	14.580	227.340	5757.56	-208.74	-331.66	-252.62	1687500.00	14226491.17	39°10'37.8365"N	80°50'1.8856"W	416.91	217.286	3.40	3.31	3.47	
5908.00	14.100	256.250	5849.72	-211.04	-342.53	-272.68	1687479.95	14226480.31	39°10'37.7295"N	80°50'2.1406"W	437.81	218.522	7.48	-0.51	30.43	
6003.00	15.070	282.940	5941.76	-202.04	-342.51	-295.98	1687456.66	14226480.32	39°10'37.7300"N	80°50'2.4365"W	452.88	220.832	7.09	1.02	28.09	
6097.00	19.680	297.310	6031.49	-182.79	-332.51	-321.98	1687430.67	14226490.33	39°10'37.8294"N	80°50'2.7664"W	482.85	224.079	6.67	4.90	15.29	
6192.00	24.970	308.790	6119.38	-152.89	-312.58	-351.86	1687400.80	14226510.24	39°10'38.0269"N	80°50'3.1453"W	470.85	228.383	7.19	5.57	12.08	
6219.00†	26.858	311.604	6143.67	-142.39	-304.96	-360.86	1687391.80	14226517.86	39°10'38.1024"N	80°50'3.2595"W	472.48	229.799	8.34	6.95	10.42	Sycamore: 6219' MD
6287.00	31.810	317.280	6202.94	-111.70	-281.58	-384.53	1687368.15	14226541.24	39°10'38.3339"N	80°50'3.5594"W	476.60	233.786	8.34	7.28	8.35	
6381.00	38.590	320.540	6279.71	-60.30	-240.69	-420.01	1687332.68	14226562.11	39°10'38.7387"N	80°50'4.0090"W	484.09	240.185	7.48	7.21	3.47	
6450.00†	44.611	324.488	6331.30	-16.03	-204.31	-447.79	1687304.91	14226618.47	39°10'39.0987"N	80°50'4.3610"W	492.20	245.474	9.51	8.73	5.72	Middlesex: 6450' MD
6476.00	46.910	325.760	6349.43	2.18	-189.03	-458.44	1687294.27	14226633.74	39°10'39.2500"N	80°50'4.4858"W	495.88	247.692	9.51	8.84	4.89	
6571.00	54.240	327.180	6409.73	74.20	-127.88	-498.90	1687253.82	14226694.87	39°10'39.8551"N	80°50'5.0062"W	515.03	255.624	7.80	7.72	1.49	
6630.00†	58.330	328.201	6442.47	122.58	-85.40	-525.12	1687227.61	14226736.33	39°10'40.2655"N	80°50'5.3402"W	532.18	260.656	7.08	6.93	1.73	Burkett: 6630' MD
6666.00	60.830	328.780	6480.70	153.25	-59.94	-541.34	1687211.40	14226762.79	39°10'40.5274"N	80°50'5.5455"W	544.65	263.682	7.08	6.94	1.61	
6725.00†	65.448	332.458	6487.35	205.50	-14.08	-567.12	1687185.63	14226808.63	39°10'40.9811"N	80°50'5.8719"W	567.30	268.578	9.60	7.83	6.23	Tully: 6725' MD
6760.00	68.230	334.510	6501.12	237.60	14.71	-581.48	1687171.27	14226837.41	39°10'41.2660"N	80°50'6.0535"W	581.67	271.449	9.60	7.95	5.88	
6801.00†	72.308	336.185	6514.96	276.16	49.78	-597.57	1687155.19	14226872.46	39°10'41.6129"N	80°50'6.2570"W	599.84	274.762	10.66	9.95	4.08	Marcellus POE: 6801' MD
6855.00	77.700	338.280	6528.93	328.30	97.86	-617.73	1687135.03	14226920.52	39°10'42.0885"N	80°50'6.5120"W	625.44	279.002	10.66	9.98	3.88	
6860.00	88.980	338.790	6541.58	422.33	185.39	-652.14	1687100.64	14227008.02	39°10'42.9542"N	80°50'6.9469"W	677.98	285.869	9.78	9.77	0.54	
7045.00	90.280	338.230	6543.85	517.27	273.75	-686.93	1687065.86	14227096.34	39°10'43.8281"N	80°50'7.3886"W	739.47	291.728	3.52	3.47	-0.59	
7130.00	90.310	338.010	6543.36	611.26	360.98	-721.96	1687030.85	14227183.53	39°10'44.6909"N	80°50'7.8294"W	807.18	296.565	0.24	0.03	-0.23	
7234.00	90.460	337.860	6542.73	706.25	449.02	-757.65	1686995.17	14227271.54	39°10'45.5617"N	80°50'8.2806"W	880.71	300.653	0.22	0.16	-0.16	
7329.00	90.460	337.900	6541.96	801.24	537.02	-793.42	1686959.42	14227359.51	39°10'46.4322"N	80°50'8.7328"W	958.07	304.092	0.04	0.00	0.04	
7423.00	90.490	337.910	6541.18	895.23	624.11	-828.78	1686924.08	14227446.57	39°10'47.2937"N	80°50'9.1798"W	1037.49	306.982	0.03	0.03	0.01	
7518.00	90.220	337.510	6540.59	990.23	712.01	-864.81	1686888.06	14227534.43	39°10'48.1631"N	80°50'9.6353"W	1120.20	309.465	0.51	-0.28	-0.42	
7613.00	90.490	338.220	6540.01	1085.22	800.01	-900.60	1686852.28	14227622.39	39°10'49.0335"N	80°50'10.0878"W	1204.82	311.615	0.80	0.28	0.75	

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Osborne Unit 2H
Field	Doddridge	API	47-017-06973-0000
Facility	Locke Pad	Wellbore	Osborne Unit 2H AWB
Slot	Slot K		

WELLPATH DATA (220 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
7707.00	90.850	338.480	6539.07	1179.20	887.37	-935.28	1688817.61	14227709.72	39°10'49.8976"N	80°50'10.5262"W	1289.26	313.494	0.32	0.17	0.28	
7802.00	90.650	338.430	6537.99	1274.18	975.73	-970.16	1688782.74	14227798.04	39°10'50.7715"N	80°50'10.9672"W	1375.96	315.164	0.05	0.00	-0.05	
7897.00	90.490	338.120	6537.05	1369.16	1063.98	-1005.33	1688747.59	14227886.25	39°10'51.6444"N	80°50'11.4117"W	1463.81	316.624	0.37	-0.17	-0.33	
7992.00	90.550	338.360	6536.19	1464.15	1152.21	-1040.54	1688712.39	14227974.45	39°10'52.5170"N	80°50'11.8569"W	1552.52	317.915	0.26	0.06	0.25	
8086.00	90.480	337.320	6535.36	1558.14	1239.26	-1076.00	1688676.95	14228061.46	39°10'53.3781"N	80°50'12.3051"W	1641.20	319.034	1.11	-0.10	-1.11	
8181.00	91.020	337.900	6534.13	1653.13	1327.09	-1112.18	1688640.78	14228149.26	39°10'54.2468"N	80°50'12.7626"W	1731.51	320.035	0.85	0.59	0.61	
8276.00	90.860	338.360	6532.57	1748.11	1415.24	-1147.56	1688605.41	14228237.37	39°10'55.1187"N	80°50'13.2099"W	1822.03	320.963	0.51	-0.17	0.48	
8370.00	90.850	338.260	6531.33	1842.08	1502.58	-1182.30	1688570.69	14228324.68	39°10'55.9826"N	80°50'13.6491"W	1911.96	321.803	0.25	-0.22	-0.11	
8465.00	90.580	338.200	6530.31	1937.07	1590.80	-1217.53	1688535.47	14228412.86	39°10'56.8552"N	80°50'14.0945"W	2003.25	322.571	0.10	-0.07	-0.06	
8560.00	92.150	338.970	6528.05	2032.01	1679.21	-1252.21	1688500.81	14228501.24	39°10'57.7296"N	80°50'14.5328"W	2094.70	323.288	1.84	1.85	0.81	
8655.00	90.520	338.030	6525.84	2126.96	1767.57	-1287.02	1688466.02	14228589.56	39°10'58.6036"N	80°50'14.9728"W	2186.48	323.941	1.98	-1.72	-0.99	
8749.00	92.460	340.900	6523.39	2220.85	1855.55	-1319.97	1688433.07	14228677.51	39°10'59.4738"N	80°50'15.3893"W	2277.15	324.573	3.68	2.06	3.05	
8844.00	90.280	336.250	6521.12	2315.77	1943.93	-1354.66	1688398.40	14228765.86	39°11'0.3480"N	80°50'15.8278"W	2369.38	325.129	5.40	-2.29	-4.89	
8939.00	90.490	336.880	6520.48	2410.76	2031.09	-1392.44	1688360.64	14228852.98	39°11'1.2101"N	80°50'16.3056"W	2462.56	325.567	0.70	0.22	0.66	
9033.00	92.220	337.560	6518.26	2504.73	2117.73	-1428.82	1688324.27	14228939.59	39°11'2.0671"N	80°50'16.7657"W	2554.67	325.993	1.98	1.64	0.72	
9128.00	90.800	337.100	6515.76	2599.69	2205.36	-1465.42	1688287.68	14229027.18	39°11'2.9338"N	80°50'17.2285"W	2647.84	326.397	1.57	-1.49	-0.48	
9223.00	90.710	337.330	6514.50	2694.69	2292.94	-1502.21	1688250.91	14229114.72	39°11'3.8001"N	80°50'17.6937"W	2741.21	326.769	0.26	-0.09	0.24	
9318.00	90.550	337.090	6513.46	2789.68	2380.52	-1539.01	1688214.13	14229202.27	39°11'4.6664"N	80°50'18.1590"W	2834.68	327.117	0.30	-0.17	-0.25	
9412.00	90.650	336.910	6512.47	2883.67	2467.04	-1575.73	1688177.41	14229288.75	39°11'5.6222"N	80°50'18.6235"W	2927.32	327.433	0.22	0.11	-0.19	
9507.00	90.680	337.170	6511.37	2978.67	2554.51	-1612.79	1688140.37	14229376.19	39°11'6.3874"N	80°50'19.0921"W	3021.03	327.734	0.28	0.03	0.27	
9602.00	90.800	337.120	6510.15	3073.66	2642.04	-1649.69	1688103.49	14229463.89	39°11'7.2532"N	80°50'19.5587"W	3114.78	328.019	0.14	0.13	-0.05	
9696.00	90.650	336.890	6508.96	3167.65	2728.57	-1686.40	1688066.79	14229550.18	39°11'8.1090"N	80°50'20.0230"W	3207.65	328.282	0.29	-0.16	-0.24	
9791.00	90.650	336.920	6507.88	3262.64	2815.95	-1723.67	1688029.54	14229637.52	39°11'8.9734"N	80°50'20.4943"W	3301.60	328.529	0.03	0.00	0.03	
9886.00	90.620	336.520	6506.83	3357.63	2903.21	-1761.21	1687992.01	14229724.75	39°11'9.8365"N	80°50'20.9691"W	3395.65	328.757	0.42	-0.03	-0.42	
9980.00	90.980	337.210	6505.51	3451.61	2989.64	-1798.14	1687955.10	14229811.14	39°11'10.6914"N	80°50'21.4362"W	3488.73	328.975	0.83	0.36	0.73	
10075.00	90.680	337.120	6504.14	3546.60	3077.18	-1835.00	1687918.25	14229898.65	39°11'11.5573"N	80°50'21.9023"W	3582.78	329.191	0.33	-0.32	-0.09	
10170.00	90.800	336.840	6502.91	3641.59	3164.61	-1872.15	1687881.12	14229986.05	39°11'12.4221"N	80°50'22.3721"W	3676.92	329.392	0.32	0.13	-0.29	
10264.00	90.710	335.370	6501.67	3736.56	3250.54	-1910.22	1687843.06	14230071.95	39°11'13.2721"N	80°50'22.8537"W	3770.28	329.559	1.57	-0.10	-1.56	
10359.00	90.150	336.760	6500.96	3830.53	3337.37	-1948.76	1687804.54	14230158.74	39°11'14.1310"N	80°50'23.3412"W	3864.67	329.718	1.58	-0.59	1.46	
10454.00	90.280	336.440	6500.60	3925.52	3424.58	-1986.49	1687766.82	14230245.89	39°11'14.9934"N	80°50'23.8184"W	3959.01	329.883	0.36	0.14	-1.34	

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Operator	ANTERO RESOURCES CORPORATION	Well	Osborne Unit 2H
Field	Doddridge	API	47-017-06973-0000
Facility	Locke Pad	Wellbore	Osborne Unit 2H AWB
Slot	Slot K		

WELLPATH DATA (220 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
10549.00	90.340	337.330	6500.09	4020.52	3511.93	-2023.78	1685729.55	14230333.22	39°11'15.6576"N	80°50'24.2901"W	4053.31	330.047	0.84	0.06	0.94	
10643.00	90.310	338.600	6499.55	4114.51	3590.43	-2060.56	1685682.78	14230419.69	39°11'16.7132"N	80°50'24.7553"W	4146.64	330.203	0.78	-0.03	-0.78	
10738.00	90.520	337.560	6498.87	4209.51	3685.93	-2097.56	1685655.80	14230507.15	39°11'17.5787"N	80°50'25.2232"W	4240.97	330.357	1.03	0.22	1.01	
10833.00	90.280	337.090	6498.20	4304.51	3773.50	-2134.16	1685619.19	14230594.77	39°11'18.4457"N	80°50'25.6863"W	4335.28	330.500	0.56	-0.25	-0.49	
10927.00	90.370	336.920	6497.67	4398.50	3860.11	-2170.90	1685582.49	14230681.27	39°11'19.3016"N	80°50'26.1507"W	4428.69	330.647	0.20	0.10	-0.18	
11022.00	90.370	336.990	6497.06	4493.50	3947.53	-2208.09	1685545.31	14230768.65	39°11'20.1662"N	80°50'26.6211"W	4523.12	330.779	0.07	0.00	0.07	
11117.00	90.400	337.280	6496.42	4588.50	4035.06	-2245.00	1685508.42	14230856.15	39°11'21.0320"N	80°50'27.0879"W	4617.55	330.910	0.31	0.03	0.31	
11212.00	87.940	335.160	6497.79	4683.46	4121.97	-2283.30	1685470.13	14230943.03	39°11'21.8917"N	80°50'27.5724"W	4712.13	331.016	3.42	-2.59	-2.23	
11306.00	90.310	337.160	6499.23	4777.41	4207.93	-2321.28	1685432.17	14231028.95	39°11'22.7420"N	80°50'28.0529"W	4805.73	331.117	3.30	2.52	2.13	
11401.00	90.280	336.630	6498.74	4872.41	4295.31	-2358.56	1685394.90	14231116.30	39°11'23.6063"N	80°50'28.5244"W	4900.26	331.229	0.56	-0.03	-0.56	
11496.00	90.740	337.140	6497.90	4967.40	4382.68	-2395.85	1685357.62	14231203.63	39°11'24.4705"N	80°50'28.9961"W	4994.80	331.336	0.72	0.48	0.54	
11590.00	90.520	337.130	6496.86	5061.40	4469.29	-2432.38	1685321.11	14231290.20	39°11'25.3271"N	80°50'29.4580"W	5088.32	331.443	0.23	-0.23	-0.01	
11685.00	90.430	337.050	6496.07	5156.39	4556.79	-2469.36	1685284.15	14231377.67	39°11'26.1927"N	80°50'29.9258"W	5182.87	331.546	0.13	-0.09	-0.08	
11780.00	90.620	336.940	6495.20	5251.39	4644.23	-2506.48	1685247.04	14231465.08	39°11'27.0576"N	80°50'30.3953"W	5277.44	331.644	0.23	0.20	-0.12	
11875.00	89.450	337.060	6495.15	5346.38	4731.68	-2543.60	1685209.93	14231552.49	39°11'27.9225"N	80°50'30.8648"W	5372.03	331.739	1.24	-1.23	0.13	
11970.00	89.350	336.570	6496.14	5441.37	4819.00	-2581.00	1685172.55	14231639.78	39°11'28.7862"N	80°50'31.3379"W	5466.66	331.827	0.53	-0.11	-0.52	
12064.00	89.720	336.890	6496.90	5535.36	4905.35	-2618.14	1685135.43	14231726.09	39°11'29.6404"N	80°50'31.8076"W	5560.32	331.910	0.52	0.39	0.34	
12159.00	89.850	337.120	6497.26	5630.36	4992.80	-2655.25	1685098.33	14231813.51	39°11'30.5053"N	80°50'32.2771"W	5654.95	331.995	0.28	0.14	0.24	
12254.00	89.910	337.400	6497.46	5725.36	5080.42	-2691.97	1685061.63	14231901.09	39°11'31.3719"N	80°50'32.7415"W	5749.55	332.082	0.30	0.06	0.29	
12348.00	89.380	336.760	6498.04	5819.36	5167.00	-2728.58	1685025.03	14231987.63	39°11'32.2283"N	80°50'33.2045"W	5843.20	332.162	0.88	-0.56	-0.68	
12443.00	89.630	336.820	6498.86	5914.35	5254.30	-2766.01	1684987.61	14232074.90	39°11'33.0919"N	80°50'33.6781"W	5937.89	332.236	0.27	0.26	0.06	
12538.00	90.090	337.750	6499.09	6009.35	5341.93	-2802.70	1684950.94	14232162.50	39°11'33.9586"N	80°50'34.1421"W	6032.53	332.316	1.09	0.48	0.98	
12632.00	90.000	337.290	6499.02	6103.35	5428.79	-2838.64	1684915.01	14232249.32	39°11'34.8177"N	80°50'34.5967"W	6126.14	332.396	0.50	-0.10	-0.49	
12727.00	89.940	336.990	6499.07	6198.35	5516.33	-2875.55	1684878.12	14232336.83	39°11'35.6836"N	80°50'35.0635"W	6220.82	332.468	0.32	-0.06	-0.32	
12822.00	89.260	335.870	6499.73	6293.33	5603.40	-2913.53	1684840.15	14232423.86	39°11'36.5448"N	80°50'35.5441"W	6315.60	332.527	1.38	-0.72	-1.18	
12916.00	89.910	336.830	6500.41	6387.31	5689.50	-2951.24	1684802.46	14232509.93	39°11'37.3965"N	80°50'36.0211"W	6409.39	332.583	1.23	0.69	1.02	
13011.00	91.510	337.150	6499.24	6482.30	5776.93	-2988.37	1684765.35	14232597.32	39°11'38.2613"N	80°50'36.4908"W	6504.10	332.648	1.72	1.68	0.34	
13105.00	89.880	337.150	6498.10	6576.29	5863.55	-3024.87	1684728.86	14232683.90	39°11'39.1180"N	80°50'36.9524"W	6597.80	332.712	1.73	-1.73	0.00	
13200.00	89.450	337.060	6498.65	6671.29	5951.06	-3061.82	1684691.92	14232771.38	39°11'39.9836"N	80°50'37.4199"W	6692.53	332.774	0.46	-0.45	-0.09	
13295.00	89.660	337.190	6499.38	6766.28	6038.59	-3098.75	1684655.01	14232858.87	39°11'40.8493"N	80°50'37.8871"W	6787.25	332.835	0.26	0.22	0.14	

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Actual Wellpath Report

Osborne Unit 2H AWP Proj: 19885'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Osborne Unit 2H
Field	Doddridge	API	47-017-06973-0000
Facility	Locke Pad	Wellbore	Osborne Unit 2H AWP
Slot	Slot K		

WELLPATH DATA (220 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
13389.00	89.320	337.200	8500.23	8860.28	6125.24	-3135.18	1684818.59	14232945.49	39°11'41.7064"N	80°50'38.3479"W	6880.98	332.894	0.36	-0.36	0.01	
13484.00	89.290	337.110	8501.38	8955.27	6212.78	-3172.06	1684581.72	14233033.00	39°11'42.5722"N	80°50'38.8144"W	6975.71	332.952	0.10	-0.03	-0.09	
13578.00	89.850	337.460	8502.08	7049.27	6299.48	-3208.36	1684545.44	14233119.67	39°11'43.4298"N	80°50'39.2735"W	7069.45	333.010	0.70	0.60	0.37	
13673.00	89.910	338.540	8502.28	7144.26	6387.56	-3243.95	1684509.87	14233207.71	39°11'44.3010"N	80°50'39.7236"W	7164.09	333.076	1.14	0.06	1.14	
13768.00	89.230	338.210	8503.00	7239.24	6475.67	-3278.96	1684474.87	14233295.99	39°11'45.1745"N	80°50'40.1664"W	7258.69	333.145	0.80	-0.72	-0.35	
13863.00	89.820	338.520	8503.78	7334.22	6564.18	-3313.95	1684439.86	14233384.26	39°11'46.0478"N	80°50'40.6093"W	7353.29	333.213	0.70	0.62	0.33	
13957.00	89.720	338.460	8504.16	7428.20	6651.63	-3348.45	1684405.41	14233471.67	39°11'46.9128"N	80°50'41.0452"W	7446.90	333.279	0.12	-0.11	-0.06	
14052.00	89.140	338.060	8505.11	7523.18	6739.87	-3383.63	1684370.24	14233559.88	39°11'47.7855"N	80°50'41.4902"W	7541.54	333.342	0.74	-0.61	-0.42	
14146.00	89.080	338.270	8506.57	7617.16	6827.11	-3418.59	1684335.29	14233647.09	39°11'48.6484"N	80°50'41.9323"W	7635.20	333.401	0.23	-0.06	0.22	
14241.00	88.860	338.220	8508.27	7712.14	6915.33	-3453.60	1684300.10	14233735.27	39°11'49.5210"N	80°50'42.3776"W	7729.85	333.461	0.24	-0.23	-0.08	
14336.00	89.230	338.670	8509.86	7807.11	7003.68	-3488.69	1684265.22	14233823.58	39°11'50.3948"N	80°50'42.8189"W	7824.48	333.521	0.61	0.39	0.47	
14431.00	88.890	338.110	8511.42	7902.08	7091.99	-3523.68	1684230.25	14233911.85	39°11'51.2682"N	80°50'43.2613"W	7919.13	333.579	0.69	-0.36	-0.59	
14525.00	88.920	338.180	8513.21	7996.05	7179.22	-3558.66	1684195.28	14233999.05	39°11'52.1308"N	80°50'43.7038"W	8012.82	333.633	0.08	0.03	0.07	
14620.00	88.680	338.100	8515.20	8091.02	7267.37	-3594.03	1684159.93	14234087.16	39°11'53.0028"N	80°50'44.1511"W	8107.50	333.686	0.27	-0.25	-0.08	
14715.00	89.260	338.350	8516.91	8185.90	7355.57	-3629.26	1684124.71	14234175.33	39°11'53.8752"N	80°50'44.5968"W	8202.19	333.738	0.66	0.61	0.26	
14809.00	89.350	338.400	8518.05	8279.97	7442.85	-3663.90	1684090.00	14234262.68	39°11'54.7394"N	80°50'45.0349"W	8295.88	333.791	0.11	0.10	0.05	
14904.00	89.420	338.380	8519.07	8374.95	7531.27	-3698.89	1684055.11	14234350.96	39°11'55.6129"N	80°50'45.4774"W	8390.58	333.843	0.08	0.07	-0.02	
14999.00	89.170	337.230	8520.24	8469.94	7619.22	-3734.77	1684019.24	14234438.88	39°11'56.4828"N	80°50'45.9313"W	8485.34	333.887	1.24	-0.26	-1.21	
15094.00	89.140	336.650	8521.64	8564.92	7706.82	-3771.98	1683982.05	14234526.24	39°11'57.3473"N	80°50'46.4020"W	8580.20	333.921	0.61	-0.03	-0.61	
15188.00	89.110	336.970	8523.07	8658.91	7793.01	-3808.90	1683945.05	14234612.60	39°11'58.2018"N	80°50'46.8702"W	8674.07	333.952	0.34	-0.03	0.34	
15283.00	89.290	337.440	8524.40	8753.90	7880.59	-3845.79	1683908.27	14234700.14	39°11'59.0680"N	80°50'47.3358"W	8768.91	333.987	0.53	0.19	0.49	
15378.00	89.350	337.570	8525.53	8848.89	7968.35	-3882.14	1683871.94	14234787.87	39°11'59.9361"N	80°50'47.7956"W	8863.72	334.025	0.15	0.06	0.14	
15472.00	89.140	337.360	8526.77	8942.88	8055.17	-3918.16	1683835.93	14234874.65	39°12'0.7947"N	80°50'48.2513"W	8957.55	334.061	0.32	-0.22	-0.22	
15567.00	88.950	336.890	8528.35	9037.87	8142.68	-3955.08	1683799.02	14234962.13	39°12'1.6604"N	80°50'48.7184"W	9052.40	334.093	0.53	-0.20	-0.49	
15662.00	89.080	337.680	8529.98	9132.85	8230.28	-3991.80	1683762.52	14235049.70	39°12'2.5268"N	80°50'49.1830"W	9147.24	334.126	0.79	0.14	0.78	
15756.00	89.140	337.380	8531.44	9226.84	8317.12	-4027.76	1683726.37	14235136.50	39°12'3.3857"N	80°50'49.6370"W	9241.07	334.160	0.27	0.06	-0.27	
15851.00	89.080	337.270	8532.92	9321.83	8404.77	-4064.38	1683689.77	14235224.11	39°12'4.2528"N	80°50'50.1011"W	9335.91	334.193	0.13	-0.06	-0.12	
15946.00	89.170	338.470	8534.37	9416.81	8492.76	-4100.16	1683654.00	14235312.07	39°12'5.1229"N	80°50'50.5538"W	9430.71	334.230	1.27	0.09	1.26	
16041.00	89.200	338.290	8535.72	9511.79	8581.07	-4135.16	1683619.01	14235400.34	39°12'5.9963"N	80°50'50.9965"W	9525.45	334.271	0.19	0.03	-0.19	
16135.00	89.260	339.590	8536.98	9605.74	8668.78	-4168.93	1683585.26	14235488.01	39°12'6.8638"N	80°50'51.4236"W	9619.13	334.316	1.38	0.06	1.38	

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Actual Wellpath Report

Osborne Unit 2H AWP Proj: 19885'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Osborne Unit 2H
Field	Doddridge	API	47-017-06973-0000
Facility	Locke Pad	Wellbore	Osborne Unit 2H AWB
Slot	Slot K		

WELLPATH DATA (220 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
16230.00	89.110	340.290	6538.34	9700.63	8758.00	-4201.51	1683552.68	14235577.21	39°12'7.7462"N	80°50'51.8356"W	9713.67	334.371	0.75	-0.16	0.74	
16325.00	89.080	341.460	6539.84	9795.44	8847.75	-4232.63	1683521.58	14235666.91	39°12'8.6338"N	80°50'52.2290"W	9808.05	334.434	1.23	-0.03	1.23	
16419.00	89.230	339.310	6541.22	9889.29	8936.28	-4264.19	1683490.04	14235755.41	39°12'9.5093"N	80°50'52.6279"W	9901.53	334.491	2.29	0.16	-2.29	
16514.00	89.110	339.280	6542.60	9984.23	9025.13	-4297.77	1683456.47	14235844.23	39°12'10.3881"N	80°50'53.0526"W	9996.19	334.536	0.13	-0.13	-0.03	
16609.00	88.950	337.100	6544.21	10079.20	9113.32	-4333.06	1683421.19	14235932.37	39°12'11.2602"N	80°50'53.4990"W	10090.98	334.571	2.30	-0.17	-2.29	
16704.00	89.080	337.480	6545.84	10174.18	9200.94	-4369.73	1683384.54	14236019.96	39°12'12.1289"N	80°50'53.9630"W	10185.86	334.596	0.42	0.14	0.40	
16798.00	89.200	337.380	6547.25	10268.17	9287.73	-4405.80	1683348.48	14236106.72	39°12'12.9853"N	80°50'54.4194"W	10279.74	334.622	0.17	0.13	-0.11	
16893.00	89.230	335.060	6548.55	10363.14	9374.65	-4444.10	1683310.19	14236193.60	39°12'13.8451"N	80°50'54.9041"W	10374.68	334.636	2.44	0.03	-2.44	
16988.00	89.080	335.370	6549.95	10458.06	9460.89	-4483.92	1683270.39	14236279.81	39°12'14.6981"N	80°50'55.4081"W	10469.67	334.642	0.36	-0.16	0.33	
17082.00	89.170	332.890	6551.39	10551.90	9545.45	-4524.93	1683229.40	14236364.34	39°12'15.5348"N	80°50'55.9272"W	10563.65	334.637	2.64	0.10	-2.64	
17177.00	88.980	333.070	6552.92	10646.61	9630.07	-4568.08	1683186.28	14236448.92	39°12'16.3717"N	80°50'56.4736"W	10658.60	334.622	0.28	-0.20	0.19	
17272.00	89.050	336.180	6554.56	10741.48	9715.88	-4608.78	1683145.58	14236534.70	39°12'17.2205"N	80°50'56.9888"W	10753.57	334.622	3.27	0.07	3.27	
17367.00	89.200	336.240	6556.01	10836.45	9802.80	-4647.10	1683107.27	14236621.58	39°12'18.0802"N	80°50'57.4737"W	10848.52	334.636	0.17	0.16	0.06	
17461.00	88.180	336.010	6558.18	10930.40	9888.73	-4685.14	1683069.25	14236707.48	39°12'18.9302"N	80°50'57.9551"W	10942.46	334.649	1.11	-1.09	-0.24	
17558.00	88.620	336.200	6560.81	11025.34	9975.56	-4723.60	1683030.80	14236794.27	39°12'19.7890"N	80°50'58.4419"W	11037.40	334.662	0.50	0.46	0.20	
17651.00	88.830	337.640	6562.92	11120.31	10062.93	-4760.83	1682993.59	14236881.61	39°12'20.6531"N	80°50'58.9130"W	11132.30	334.681	1.53	0.22	1.52	
17748.00	88.770	337.490	6564.91	11215.29	10150.72	-4797.08	1682957.35	14236969.38	39°12'21.5214"N	80°50'59.3716"W	11227.16	334.705	0.17	-0.06	-0.16	
17840.00	88.860	337.480	6566.86	11309.27	10237.54	-4833.07	1682921.38	14237056.15	39°12'22.3801"N	80°50'59.8289"W	11321.03	334.728	0.10	0.10	-0.01	
17935.00	88.680	337.210	6568.90	11404.25	10325.18	-4869.65	1682884.81	14237143.78	39°12'23.2470"N	80°51'0.2898"W	11415.91	334.750	0.34	-0.19	-0.28	
18029.00	88.580	337.550	6571.14	11498.22	10411.93	-4905.80	1682848.68	14237230.47	39°12'24.1050"N	80°51'0.7472"W	11509.78	334.772	0.38	-0.11	0.36	
18124.00	88.550	337.440	6573.52	11593.19	10499.67	-4942.15	1682812.35	14237318.17	39°12'24.9728"N	80°51'1.2071"W	11604.65	334.794	0.12	-0.03	-0.12	
18219.00	88.710	337.420	6575.79	11688.16	10587.37	-4978.60	1682775.91	14237405.84	39°12'25.8402"N	80°51'1.6683"W	11699.52	334.815	0.17	0.17	-0.02	
18313.00	88.680	337.390	6577.94	11782.14	10674.13	-5014.71	1682739.82	14237492.56	39°12'26.6983"N	80°51'2.1252"W	11793.40	334.836	0.05	-0.03	-0.03	
18408.00	88.650	337.250	6580.15	11877.11	10761.76	-5051.33	1682703.21	14237580.16	39°12'27.5650"N	80°51'2.5886"W	11888.29	334.856	0.15	-0.03	-0.15	
18502.00	88.710	337.010	6582.31	11971.09	10848.35	-5087.85	1682666.70	14237666.71	39°12'28.4214"N	80°51'3.0508"W	11982.19	334.874	0.26	0.06	-0.26	
18592.00	88.580	337.070	6586.81	12161.03	11023.24	-5161.94	1682592.64	14237841.54	39°12'30.1513"N	80°51'3.9884"W	12172.00	334.907	0.08	-0.07	0.03	
18787.00	88.550	337.210	6589.19	12256.00	11110.76	-5198.84	1682555.76	14237928.02	39°12'31.0169"N	80°51'4.4553"W	12266.90	334.925	0.15	-0.03	0.15	
18881.00	88.580	337.190	6591.54	12349.97	11197.38	-5235.25	1682519.36	14238015.61	39°12'31.8737"N	80°51'4.9161"W	12360.80	334.942	0.04	0.03	-0.02	
18976.00	88.620	337.230	6593.86	12444.94	11284.94	-5272.04	1682482.58	14238103.13	39°12'32.7397"N	80°51'5.3816"W	12455.69	334.959	0.06	0.04	0.04	
19071.00	88.580	337.290	6596.18	12539.91	11372.53	-5308.75	1682445.89	14238190.69	39°12'33.6060"N	80°51'5.8482"W	12550.59	334.977	0.08	-0.04	0.06	

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Osborne Unit 2H AWP Proj: 19885'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Osborne Unit 2H
Field	Doddridge	API	47-017-06973-0000
Facility	Locke Pad	Wellbore	Osborne Unit 2H AWB
Slot	Slot K		

WELLPATH DATA (220 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
19166.00	88.620	337.240	6598.50	12634.89	11460.12	-5345.46	1682409.20	14238278.25	39°12'34.4723"N	80°51'6.3106"W	12645.49	334.994	0.07	0.04	-0.05	
19260.00	88.520	337.370	6600.85	12728.86	11546.82	-5381.71	1682372.96	14238364.91	39°12'35.3298"N	80°51'6.7694"W	12739.38	335.011	0.17	-0.11	0.14	
19355.00	88.580	337.310	6603.25	12823.83	11634.46	-5418.30	1682336.38	14238452.51	39°12'36.1966"N	80°51'7.2324"W	12834.27	335.028	0.09	0.06	-0.06	
19450.00	88.680	337.280	6605.52	12918.80	11722.07	-5454.96	1682299.74	14238540.09	39°12'37.0631"N	80°51'7.6963"W	12929.17	335.045	0.11	0.11	-0.03	
19544.00	88.550	337.390	6607.80	13012.77	11808.78	-5491.17	1682263.54	14238626.77	39°12'37.9208"N	80°51'8.1546"W	13023.07	335.061	0.18	-0.14	0.12	
19639.00	89.080	337.660	6609.76	13107.75	11896.55	-5527.48	1682227.25	14238714.50	39°12'38.7888"N	80°51'8.6140"W	13117.96	335.079	0.63	0.56	0.28	
19733.00	88.620	337.200	6611.65	13201.73	11983.33	-5563.55	1682191.19	14238801.25	39°12'39.6472"N	80°51'9.0705"W	13211.86	335.096	0.69	-0.49	-0.49	
19828.00	89.050	337.370	6613.58	13296.71	12070.95	-5600.23	1682154.53	14238888.82	39°12'40.5137"N	80°51'9.5346"W	13306.77	335.111	0.49	0.45	0.18	
19860.00	88.950	337.560	6614.14	13328.71	12100.50	-5612.49	1682142.27	14238918.36	39°12'40.8060"N	80°51'9.6898"W	13338.74	335.117	0.67	-0.31	0.59	
19885.00†	88.950	337.560	6614.60	13353.70	12123.60	-5622.03	1682132.74	14238941.46	39°12'41.0345"N	80°51'9.8105"W	13363.72	335.122	0.00	0.00	0.00	Projected MD at TD: 19885'

DIRECTIONAL DIFFICULTY INDEX			
Directional Difficulty Index @ TD = 7.00		Reference: IADC/SPE 59196	
Values	Wellpath characterized as:	Values	Wellpath characterized as:
< 6.0	Relatively short or simple profiles with low tortuosity	6.4-6.8	Longer with relatively tortuous well paths
< 6.0-6.4	Shorter with high tortuosity or longer with lower tortuosity	> 6.8	Long tortuous profiles, high degree of difficulty

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Actual Wellpath Report

Osborne Unit 2H AWP Proj: 19885'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Osborne Unit 2H
Field	Doddridge	API	47-017-06973-0000
Facility	Locke Pad	Wellbore	Osborne Unit 2H AWB
Slot	Slot K		

HOLE & CASING SECTIONS - Ref Wellbore: Osborne Unit 2H AWB Ref Wellpath: Osborne Unit 2H AWP Proj: 19885'

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	-0.18	0.06
17.5in Open Hole	125.50	462.00	336.50	125.50	462.00	-0.18	0.06	-1.00	-0.09
13.375in Casing Surface	25.50	442.00	416.50	25.50	442.00	0.00	0.00	-0.97	-0.03
12.25in Open Hole	462.00	2933.00	2471.00	462.00	2931.32	-1.00	-0.09	-1.54	63.76
9.625in Casing Intermediate	25.50	2903.00	2877.50	25.50	2901.32	0.00	0.00	-1.61	63.82
8.75in Open Hole	2933.00	5681.00	2748.00	2931.32	5628.70	-1.54	63.76	-311.38	-232.69
8.5in Open Hole	5681.00	19885.00	14204.00	5628.70	6614.60	-311.38	-232.69	12123.60	-5622.03
5.5in Casing Production	25.50	19865.00	19839.50	25.50	6614.23	0.00	0.00	12105.12	-5614.40

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Osborne Unit 2H BHL Rev-3	6444.81	12053.42	-5593.90	1682160.85	14238871.31	39°12'40.3404"N	80°51'9.4547"W	point
Osborne Unit 2H POE Rev-3	6506.00	82.27	-596.24	1687156.52	14226904.94	39°10'41.9340"N	80°50'6.2394"W	point
Osborne Unit 2H LP Rev-3	6534.00	269.94	-674.58	1687078.21	14227092.53	39°10'43.7903"N	80°50'7.2299"W	point
Osborne Unit 2H 50' L/R Hard Line	6750.00	6067.85	-3095.07	1684658.69	14232888.13	39°11'41.1385"N	80°50'37.8397"W	rectangle
2D Rectangle 12972.5 x 100.								

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Osborne Unit 2H AWP Proj: 19885'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Osborne Unit 2H
Field	Doddridge	API	47-017-06973-0000
Facility	Locke Pad	Wellbore	Osborne Unit 2H AWB
Slot	Slot K		

WELLPATH COMPOSITION - Ref Wellbore: Osborne Unit 2H AWB Ref Wellpath: Osborne Unit 2H AWP Proj: 19885'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	400.00	Gyrodata 2015 - GC+WIR+DPIPE	01 Gyrodata MS Gyro <17-1/2"> (100'-400')	Osborne Unit 2H AWB	1/3/2025
400.00	532.00	Gyrodata 2015 - GC+WIR+DPIPE	02 Gyrodata MS Gyro <12-1/4"> (400')(500'-532')	Osborne Unit 2H AWB	1/14/2025
532.00	2858.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <12-1/4"> (532')(570'-2858')	Osborne Unit 2H AWB	1/3/2025
2858.00	5225.00	BH NaviTrak (2019) (Axial Corr+HRGM)	04 APS EM <8-3/4"> (2858')(2942'-5225')	Osborne Unit 2H AWB	2/8/2025
5225.00	19885.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	05 BH Lucida <8-1/2"> (5225')(5339'-19860')	Osborne Unit 2H AWB	2/8/2025

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Osborne Unit 2H AWP Proj: 19885'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Osborne Unit 2H
Field	Doddridge	API	47-017-06973-0000
Facility	Locke Pad	Wellbore	Osborne Unit 2H AWB
Slot	Slot K		

COMMENTS
Wellpath general comments API: 47-017-06973-0000 BH Job #: 112542266 Rig: H&P 317 Duration: 2/9/2025-2/13/2025 Gyrodata MS Gyro <17-1/2"> (100'-400') Gyrodata MS Gyro <12-1/4"> (400')(500'-532') APS EM <12-1/4"> (532')(570'-2858') APS EM <8-3/4"> (2858')(2942'-5225') BH Lucida <8-1/2"> (5225')(5339'-19860') Sycamore: 6219' MD Middlesex: 6450' MD Burkett: 6630' MD Tully: 6725' MD Marcellus POE: 6801' MD Projected MD at TD: 19885'

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