



ANTERO RESOURCES CORPORATION

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

Slot: Slot D
Well: Gaspell Unit 1H
Wellbore: Gaspell Unit 1H PWB



Plot reference wellpath is Gaspell Unit 1H PWP Rev-B.0	Grid System: NAD27 / 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: 1247.5 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot D): -1222 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edstaryn on 2024-10-07, Database: WA_MPL_EASTERNUS_Deln

Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Crimson Pad	1729192.990	14302137.140	39°23'4.7014"N	80°41'8.9159"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude
Slot D	0.00	0.00	1729192.990	14302137.140	39°23'4.7014"N
Comment	Gaspell Unit 1H				
H&P 317 (RKB) to Ground level (At Slot: Slot D)	25.5ft				
Mean Sea Level to Ground level (At Slot: Slot D)	-1222ft				
H&P 317 (RKB) to Mean Sea Level	1247.5ft				

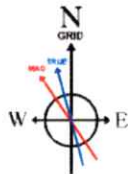
Well Profile Data								
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	3101.00	9.640	192.420	3080.58	-243.59	-86.15	0.84	-201.93
Proj. to Bottom	3171.00	9.640	192.420	3149.59	-255.04	-88.68	0.00	-211.92
Drill Out	3251.00	9.640	192.420	3228.46	-266.12	-91.56	0.00	-223.34
Turn	3261.49	9.641	191.167	3238.81	-269.84	-91.92	2.00	-224.85
Hold	4423.37	9.641	191.167	4384.27	-480.75	-129.60	0.00	-392.88
End of Drop	5066.12	0.000	0.000	5024.00	-513.68	-140.05	1.50	-439.47
Curve KOP	6430.12	0.000	0.000	6387.99	-513.68	-140.05	0.00	-439.47
Build / Avoid No-Go	6858.69	30.000	0.000	6797.25	-404.02	-140.05	7.00	-335.86
POE	7445.45	74.817	340.884	7148.00	35.03	-238.33	8.00	111.17
Landing Pt.	7635.24	90.000	340.884	7173.00	212.27	-299.76	8.00	298.74
BHL	24578.58	90.000	340.884	7173.00	16221.33	-5848.35	0.00	17242.09

Gyrodatta MS Gyro <17-1/2"> (100'-1000') : 0.15" Inc, 100.00ft MD, 100.00ft TVD, -0.04ft VS

Gyrodatta MS Gyro <12-3/8"> (1000')(1100'-1130') : 0.32" Inc, 1100.00ft MD, 1099.99ft TVD, -2.63ft VS
APS EM <12-3/8"> (1130')(1165'-3101') : 0.24" Inc, 1165.00ft MD, 1164.99ft TVD, -2.96ft VS

Well Data			
Slot	Well	Wellbore	Wellpath
Slot D	Gaspell Unit 1H	Gaspell Unit 1H AAWB	Gaspell Unit 1H AWP Proj. 24562'
Slot D	Gaspell Unit 1H	Gaspell Unit 1H PWB	Gaspell Unit 1H PWP Rev-B.0

APS EM <8-3/4"> (3101')(3234'-6349') : 9.34" Inc, 3234.00ft MD, 3211.76ft TVD, -221.11ft VS



User specified (HDGM) Dip: 66.12° Field: 51633 nT
Magnetic North is 7.96 degrees West of True North (at 9/27/2024)
Grid North is 0.20 degrees East of True North
To correct azimuth from True to Grid subtract 0.20 degrees
To correct azimuth from Magnetic to Grid subtract 8.16 degrees

BH Lucida <8-1/2"> (6349')(6400'-24537') : 0.40" Inc, 6400.00ft MD, 6359.56ft TVD, -439.35ft VS

Marcellus POE: 7401' MD : 72.94" Inc, 7401.00ft MD, 7136.05ft TVD, 67.47ft VS

API: 47-017-06981-0000
BH Job #: 112320230
Rig: H&P 317
Duration: 9/28/2024-10/3/2024

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Marcellus POE: 7401' MD : 7136.05ft TVD, 0.66ft S, 207.90ft W
BH Lucida <8-1/2"> (6349')(6400'-24537') : 6359.56ft TVD, 509.49ft S, 128.93ft W
APS EM <8-3/4"> (3101')(3234'-6349') : 3211.76ft TVD, 265.18ft S, 89.87ft W
APS EM <12-3/8"> (1130')(1165'-3101') : 1164.99ft TVD, 3.92ft S, 0.54ft W
Gyrodatta MS Gyro <12-3/8"> (1000')(1100'-1130') : 1099.99ft TVD, 2.98ft S, 0.56ft W
Gyrodatta MS Gyro <17-1/2"> (100'-1000') : 100.00ft TVD, 0.07ft S, 0.07ft W

Projected MD at TD: 24562' : 90.95" Inc, 24562.00ft MD, 7225.03ft TVD, 17223.60ft VS

Vertical Section (ft)
Azimuth 340.88° with reference 0.00 N, 0.00 E

Scale 1 inch = 200'

True Vertical Depth (ft)

Easting (ft)
Scale 1 inch = 300'

Northing (ft)

Scale 1 inch = 2000'



Actual Wellpath Report

Gaspell Unit 1H AWP Proj: 24562'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Gaspell Unit 1H
Field	Doddridge	API	47-017-06981-0000
Facility	Crimson Pad	Wellbore	Gaspell Unit 1H AWB
Slot	Slot D		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999609	Report Generated	10/7/2024 at 2:19:14 AM
Convergence at slot	0.20° 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	0.00	0.00	1729192.99	14302137.14	39°23'4.7014"N	80°41'8.9159"W
Facility Reference Pt			1729192.99	14302137.14	39°23'4.7014"N	80°41'8.9159"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	1247.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level	1247.50ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot D)	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	340.88°

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Glaspell Unit 1H AWP Proj: 24562'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Glaspell Unit 1H
Field	Doddridge	API	47-017-06981-0000
Facility	Crimson Pad	Wellbore	Glaspell Unit 1H AWB
Slot	Slot D		

WELLPATH DATA (268 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	224.890	0.00	0.00	0.00	0.00	1729192.99	14302137.14	39°23'4.7014"N	80°41'8.9159"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	224.890	25.50	0.00	0.00	0.00	1729192.99	14302137.14	39°23'4.7014"N	80°41'8.9159"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.150	224.890	100.00	-0.04	-0.07	-0.07	1729192.92	14302137.07	39°23'4.7007"N	80°41'8.9168"W	0.10	224.890	0.20	0.20	0.00	Gyrodata MS Gyro <17-1/2"> (100'-1000')
200.00	0.180	226.690	200.00	-0.16	-0.27	-0.28	1729192.71	14302136.87	39°23'4.6987"N	80°41'8.9194"W	0.39	225.623	0.03	0.03	1.80	
300.00	0.210	170.370	300.00	-0.41	-0.56	-0.36	1729192.63	14302136.58	39°23'4.6959"N	80°41'8.9205"W	0.66	212.767	0.19	0.03	-56.32	
400.00	0.160	207.560	400.00	-0.69	-0.86	-0.39	1729192.60	14302136.28	39°23'4.6929"N	80°41'8.9209"W	0.95	204.503	0.13	-0.05	37.19	
500.00	0.160	199.180	500.00	-0.89	-1.12	-0.50	1729192.49	14302136.02	39°23'4.6903"N	80°41'8.9223"W	1.23	204.245	0.02	0.00	-8.38	
600.00	0.190	171.430	600.00	-1.16	-1.41	-0.52	1729192.47	14302135.73	39°23'4.6874"N	80°41'8.9226"W	1.51	200.360	0.09	0.03	-27.76	
700.00	0.140	163.130	700.00	-1.45	-1.69	-0.46	1729192.53	14302135.45	39°23'4.6846"N	80°41'8.9219"W	1.76	195.329	0.06	-0.05	-8.30	
800.00	0.130	223.620	800.00	-1.62	-1.89	-0.51	1729192.48	14302135.25	39°23'4.6827"N	80°41'8.9224"W	1.96	194.998	0.14	-0.01	60.49	
900.00	0.240	167.510	900.00	-1.88	-2.18	-0.54	1729192.45	14302134.96	39°23'4.6798"N	80°41'8.9229"W	2.25	193.918	0.20	0.11	-56.11	
1000.00	0.190	198.210	1000.00	-2.22	-2.54	-0.55	1729192.44	14302134.60	39°23'4.6763"N	80°41'8.9230"W	2.60	192.139	0.12	-0.05	30.70	
1100.00	0.320	171.510	1099.99	-2.63	-2.98	-0.56	1729192.43	14302134.17	39°23'4.6720"N	80°41'8.9231"W	3.03	190.609	0.17	0.13	-26.70	Gyrodata MS Gyro <12-3/8"> (1000')(1100'-1130')
1130.00	0.340	182.950	1129.99	-2.79	-3.15	-0.55	1729192.44	14302133.99	39°23'4.6703"N	80°41'8.9230"W	3.20	189.905	0.23	0.07	38.13	
1165.00	0.240	170.610	1164.99	-2.96	-3.32	-0.54	1729192.45	14302133.82	39°23'4.6685"N	80°41'8.9229"W	3.37	189.279	0.34	-0.29	-35.26	APS EM <12-3/8"> (1130')(1165'-3101')
1260.00	1.140	196.350	1259.99	-3.93	-4.43	-0.78	1729192.21	14302132.71	39°23'4.6577"N	80°41'8.9260"W	4.49	189.950	0.98	0.95	27.09	
1354.00	2.290	194.360	1353.94	-6.26	-7.14	-1.51	1729191.48	14302130.00	39°23'4.6308"N	80°41'8.9354"W	7.30	191.902	1.22	1.22	-2.12	
1448.00	2.380	192.510	1447.86	-9.48	-10.87	-2.39	1729190.60	14302126.28	39°23'4.5940"N	80°41'8.9469"W	11.13	192.423	0.12	0.10	-1.97	
1543.00	3.040	196.450	1542.76	-13.21	-15.21	-3.53	1729189.46	14302121.94	39°23'4.5512"N	80°41'8.9616"W	15.62	193.083	0.72	0.69	4.15	
1637.00	4.170	194.580	1636.57	-18.08	-20.91	-5.10	1729187.89	14302116.24	39°23'4.4949"N	80°41'8.9818"W	21.52	193.711	1.21	1.20	-1.99	
1731.00	5.600	199.200	1730.23	-24.53	-28.55	-7.47	1729185.52	14302108.60	39°23'4.4195"N	80°41'9.0123"W	29.51	194.663	1.58	1.52	4.91	
1826.00	7.210	203.560	1824.63	-32.55	-38.39	-11.38	1729181.62	14302098.76	39°23'4.3223"N	80°41'9.0625"W	40.04	196.508	1.77	1.69	4.59	
1920.00	9.030	204.400	1917.69	-42.23	-50.52	-16.78	1729176.21	14302086.64	39°23'4.2027"N	80°41'9.1319"W	53.23	198.378	1.94	1.94	0.89	
2014.00	9.200	202.370	2010.50	-53.21	-64.18	-22.69	1729170.31	14302072.98	39°23'4.0678"N	80°41'9.2077"W	68.08	199.470	0.39	0.18	-2.16	
2109.00	9.050	201.670	2104.30	-64.56	-78.15	-28.34	1729164.66	14302059.02	39°23'3.9300"N	80°41'9.2803"W	83.13	199.932	0.20	-0.16	-0.74	
2203.00	8.610	199.350	2197.18	-75.66	-91.66	-33.40	1729159.60	14302045.52	39°23'3.7966"N	80°41'9.3453"W	97.56	200.022	0.60	-0.47	-2.47	
2297.00	9.400	199.990	2290.02	-87.13	-105.51	-38.36	1729154.65	14302031.67	39°23'3.6599"N	80°41'9.4091"W	112.27	199.978	0.85	0.84	0.68	
2392.00	10.730	202.060	2383.56	-99.80	-121.00	-44.33	1729148.68	14302016.19	39°23'3.5070"N	80°41'9.4858"W	128.86	200.121	1.45	1.40	2.18	
2486.00	10.710	201.720	2475.92	-113.00	-137.22	-50.85	1729142.16	14301999.97	39°23'3.3469"N	80°41'9.5696"W	146.34	200.333	0.07	-0.02	-0.36	
2581.00	10.420	201.320	2569.31	-126.21	-153.43	-57.24	1729135.77	14301983.77	39°23'3.1870"N	80°41'9.6517"W	163.76	200.459	0.31	-0.31	-0.42	

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Actual Wellpath Report

Gaspell Unit 1H AWP Proj: 24562'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Gaspell Unit 1H
Field	Doddridge	API	47-017-06981-0000
Facility	Crimson Pad	Wellbore	Gaspell Unit 1H AWB
Slot	Slot D		

WELLPATH DATA (268 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
2675.00	10.110	201.160	2661.80	-138.98	-169.04	-63.31	1729129.71	14301968.17	39°23'3.0328"N	80°41'9.7296"W	180.51	200.532	0.33	-0.33	-0.17	
2770.00	11.150	199.020	2755.17	-152.56	-185.50	-69.31	1729123.71	14301951.71	39°23'2.8704"N	80°41'9.8068"W	198.03	200.488	1.17	1.09	-2.25	
2864.00	11.010	197.780	2847.42	-166.89	-202.64	-75.01	1729118.00	14301934.58	39°23'2.7012"N	80°41'9.8802"W	216.08	200.314	0.29	-0.15	-1.32	
2959.00	10.380	195.840	2940.77	-181.16	-219.51	-80.12	1729112.90	14301917.71	39°23'2.5346"N	80°41'9.9460"W	233.68	200.052	0.76	-0.66	-2.04	
3053.00	10.010	193.390	3033.29	-194.99	-235.61	-84.32	1729108.70	14301901.63	39°23'2.3757"N	80°41'10.0002"W	250.24	199.692	0.61	-0.39	-2.61	
3101.00	9.640	192.420	3080.58	-201.93	-243.59	-86.15	1729106.87	14301893.65	39°23'2.2968"N	80°41'10.0239"W	258.38	199.478	0.84	-0.77	-2.02	
3234.00	9.340	187.020	3211.76	-221.11	-265.18	-89.87	1729103.16	14301872.07	39°23'2.0836"N	80°41'10.0722"W	279.99	198.722	0.71	-0.23	-4.06	APS EM <8-3/4"> (3101')(3234'-6349')
3328.00	9.830	193.230	3304.45	-234.74	-280.56	-92.64	1729100.39	14301856.69	39°23'1.9317"N	80°41'10.1081"W	295.46	198.273	1.22	0.52	6.61	
3425.00	9.600	193.860	3400.06	-248.52	-296.47	-96.47	1729096.56	14301840.78	39°23'1.7745"N	80°41'10.1576"W	311.77	198.025	0.26	-0.24	0.65	
3519.00	8.940	190.370	3492.84	-261.45	-311.27	-99.66	1729093.37	14301825.99	39°23'1.6284"N	80°41'10.1989"W	326.83	197.754	0.92	-0.70	-3.71	
3613.00	9.610	197.080	3585.61	-274.14	-325.95	-103.28	1729089.75	14301811.32	39°23'1.4834"N	80°41'10.2457"W	341.92	197.581	1.35	0.71	7.14	
3708.00	9.560	196.540	3679.28	-286.95	-341.09	-107.86	1729085.18	14301796.18	39°23'1.3339"N	80°41'10.3046"W	357.74	197.547	0.11	-0.05	-0.57	
3802.00	8.950	195.590	3772.06	-299.30	-355.62	-112.04	1729080.99	14301781.66	39°23'1.1905"N	80°41'10.3586"W	372.85	197.488	0.67	-0.65	-1.01	
3896.00	10.320	191.440	3864.73	-312.56	-370.92	-115.68	1729077.36	14301766.37	39°23'1.0394"N	80°41'10.4056"W	388.54	197.321	1.63	1.46	-4.41	
3990.00	10.270	194.620	3957.22	-326.78	-387.28	-119.46	1729073.57	14301750.01	39°23'0.8778"N	80°41'10.4545"W	405.29	197.144	0.61	-0.05	3.38	
4085.00	9.930	193.400	4050.75	-340.73	-403.44	-123.50	1729069.54	14301733.86	39°23'0.7182"N	80°41'10.5066"W	421.92	197.020	0.42	-0.36	-1.28	
4179.00	9.160	187.690	4143.45	-354.24	-418.74	-126.38	1729066.66	14301718.56	39°23'0.5671"N	80°41'10.5439"W	437.40	196.794	1.30	-0.82	-6.07	
4273.00	10.100	194.740	4236.12	-367.77	-434.13	-129.48	1729063.56	14301703.18	39°23'0.4151"N	80°41'10.5841"W	453.02	196.607	1.60	1.00	7.50	
4368.00	9.590	192.360	4329.73	-381.43	-449.91	-133.29	1729059.75	14301687.40	39°23'0.2592"N	80°41'10.6333"W	469.24	196.503	0.69	-0.54	-2.51	
4462.00	6.870	196.390	4422.75	-392.69	-462.96	-136.55	1729056.49	14301674.36	39°23'0.1304"N	80°41'10.6755"W	482.68	196.434	2.96	-2.89	4.29	
4556.00	4.080	186.080	4516.31	-400.29	-471.68	-138.50	1729054.55	14301665.65	39°23'0.0443"N	80°41'10.7006"W	491.59	196.363	3.14	-2.97	-10.97	
4650.00	3.070	165.370	4610.13	-405.83	-477.44	-138.21	1729054.83	14301659.89	39°22'59.9874"N	80°41'10.6973"W	497.04	196.145	1.73	-1.07	-22.03	
4745.00	2.690	177.740	4705.01	-410.50	-482.13	-137.48	1729055.56	14301655.20	39°22'59.9410"N	80°41'10.6882"W	501.35	195.916	0.76	-0.40	13.02	
4839.00	2.700	171.520	4798.91	-414.79	-486.52	-137.07	1729055.97	14301650.81	39°22'59.8975"N	80°41'10.6831"W	505.46	195.734	0.31	0.01	-6.62	
4933.00	2.600	163.420	4892.81	-419.09	-490.76	-136.14	1729056.91	14301646.58	39°22'59.8557"N	80°41'10.6714"W	509.29	195.504	0.41	-0.11	-8.62	
5027.00	1.980	165.170	4986.73	-422.84	-494.37	-135.11	1729057.93	14301642.97	39°22'59.8199"N	80°41'10.6585"W	512.50	195.286	0.66	-0.66	1.86	
5121.00	1.760	159.950	5080.68	-425.90	-497.29	-134.20	1729058.84	14301640.04	39°22'59.7910"N	80°41'10.6470"W	515.08	195.102	0.30	-0.23	-5.55	
5216.00	1.470	161.500	5175.65	-428.58	-499.82	-133.31	1729059.73	14301637.52	39°22'59.7660"N	80°41'10.6358"W	517.29	194.934	0.31	-0.31	1.63	
5310.00	1.440	174.490	5269.62	-430.93	-502.14	-132.82	1729060.22	14301635.20	39°22'59.7430"N	80°41'10.6296"W	519.41	194.816	0.35	-0.03	13.82	
5405.00	0.950	130.960	5364.60	-432.78	-503.84	-132.11	1729060.93	14301633.49	39°22'59.7262"N	80°41'10.6207"W	520.88	194.692	1.05	-0.52	-45.82	

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Actual Wellpath Report

Gaspell Unit 1H AWP Proj: 24562'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Gaspell Unit 1H
Field	Doddridge	API	47-017-06981-0000
Facility	Crimson Pad	Wellbore	Gaspell Unit 1H AWP
Slot	Slot D		

WELLPATH DATA (268 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
5499.00	1.000	164.630	5458.58	-434.27	-505.15	-131.30	1729061.74	14301632.19	39°22'59.7133"N	80°41'10.6105"W	521.93	194.570	0.60	0.05	35.82	
5593.00	0.720	151.590	5552.57	-435.67	-506.46	-130.80	1729062.24	14301630.88	39°22'59.7003"N	80°41'10.6042"W	523.08	194.482	0.36	-0.30	-13.87	
5687.00	0.530	132.390	5646.57	-436.64	-507.27	-130.20	1729062.84	14301630.07	39°22'59.6923"N	80°41'10.5965"W	523.71	194.396	0.30	-0.20	-20.43	
5782.00	0.270	82.930	5741.57	-437.07	-507.54	-129.66	1729063.39	14301629.80	39°22'59.6896"N	80°41'10.5896"W	523.84	194.330	0.43	-0.27	-52.06	
5876.00	0.370	94.230	5835.56	-437.24	-507.53	-129.13	1729063.91	14301629.81	39°22'59.6896"N	80°41'10.5829"W	523.70	194.275	0.13	0.11	12.02	
5972.00	0.270	120.330	5931.56	-437.53	-507.67	-128.63	1729064.41	14301629.67	39°22'59.6882"N	80°41'10.5765"W	523.71	194.218	0.18	-0.10	27.19	
6066.00	0.190	105.000	6025.56	-437.79	-507.82	-128.29	1729064.75	14301629.52	39°22'59.6867"N	80°41'10.5722"W	523.78	194.178	0.11	-0.09	-16.31	
6160.00	0.270	169.500	6119.56	-438.09	-508.08	-128.10	1729064.94	14301629.26	39°22'59.6842"N	80°41'10.5698"W	523.98	194.150	0.27	0.09	68.62	
6255.00	0.330	173.610	6214.56	-438.58	-508.57	-128.02	1729065.02	14301628.77	39°22'59.6793"N	80°41'10.5689"W	524.44	194.130	0.07	0.06	4.33	
6349.00	0.440	204.220	6308.56	-439.11	-509.17	-128.14	1729064.90	14301628.17	39°22'59.6734"N	80°41'10.5704"W	525.05	194.126	0.24	0.12	32.56	
6400.00	0.400	217.090	6359.56	-439.35	-509.49	-128.33	1729064.71	14301627.85	39°22'59.6702"N	80°41'10.5728"W	525.40	194.138	0.20	-0.08	25.24	BH Lucida <8-1/2"> (6349')(6400'-24537')
6441.00	1.500	344.170	6400.55	-438.89	-509.09	-128.56	1729064.48	14301628.25	39°22'59.6742"N	80°41'10.5757"W	525.07	194.173	4.32	2.68	309.95	
6536.00	8.800	353.130	6495.11	-430.54	-500.67	-129.77	1729063.27	14301636.67	39°22'59.7575"N	80°41'10.5908"W	517.21	194.531	7.71	7.68	9.43	
6630.00	13.910	357.220	6587.24	-412.66	-482.23	-131.18	1729061.86	14301655.10	39°22'59.9398"N	80°41'10.6079"W	499.75	195.218	5.50	5.44	4.35	
6724.00	19.600	2.350	6677.21	-387.12	-455.17	-131.08	1729061.96	14301682.15	39°23'0.2072"N	80°41'10.6055"W	473.67	196.066	6.25	6.05	5.46	
6796.00†	24.534	1.763	6743.92	-361.90	-428.14	-130.13	1729062.91	14301709.16	39°23'0.4743"N	80°41'10.5921"W	447.48	196.906	6.86	6.85	-0.82	Sycamore: 6796' MD
6819.00	26.110	1.620	6764.71	-352.71	-418.31	-129.84	1729063.20	14301718.99	39°23'0.5715"N	80°41'10.5880"W	438.00	197.244	6.86	6.85	-0.62	
6913.00	32.630	357.500	6846.59	-309.03	-372.26	-130.36	1729062.68	14301765.02	39°23'1.0266"N	80°41'10.5926"W	394.43	199.299	7.26	6.94	-4.38	
6962.00†	36.462	354.715	6886.95	-282.22	-344.55	-132.28	1729060.76	14301792.72	39°23'1.3005"N	80°41'10.6158"W	369.07	201.002	8.46	7.82	-5.68	Middlesex: 6962' MD
7007.00	40.030	352.570	6922.28	-255.05	-316.88	-135.38	1729057.66	14301820.39	39°23'1.5742"N	80°41'10.6541"W	344.59	203.134	8.46	7.93	-4.77	
7102.00	48.310	349.820	6990.37	-189.98	-251.55	-145.62	1729047.43	14301885.69	39°23'2.2202"N	80°41'10.7816"W	290.66	210.066	8.94	8.72	-2.89	
7170.00†	54.352	347.816	7032.84	-137.42	-199.50	-155.95	1729037.10	14301937.72	39°23'2.7350"N	80°41'10.9108"W	253.22	218.014	9.18	8.89	-2.95	Burkett: 7170' MD
7196.00	56.670	347.130	7047.56	-116.13	-178.58	-160.60	1729032.45	14301958.63	39°23'2.9419"N	80°41'10.9691"W	240.18	221.965	9.18	8.92	-2.64	
7221.00†	58.383	346.600	7060.99	-95.15	-158.05	-165.39	1729027.66	14301979.16	39°23'3.1450"N	80°41'11.0293"W	228.77	226.301	7.08	6.85	-2.12	Tully: 7221' MD
7290.00	63.120	345.230	7094.69	-35.20	-99.68	-180.06	1729013.01	14302037.50	39°23'3.7224"N	80°41'11.2134"W	205.80	241.032	7.08	6.87	-1.99	
7385.00	71.660	343.650	7131.18	52.25	-15.28	-203.59	1728989.48	14302121.86	39°23'4.5573"N	80°41'11.5095"W	204.17	265.707	9.12	8.99	-1.66	
7401.00†	72.943	343.564	7136.05	67.47	-0.66	-207.90	1728985.18	14302136.48	39°23'4.7020"N	80°41'11.5636"W	207.90	269.818	8.04	8.02	-0.54	Marcellus POE: 7401' MD
7479.00	79.200	343.160	7154.81	143.07	71.84	-229.56	1728963.52	14302208.95	39°23'5.4193"N	80°41'11.8364"W	240.54	287.377	8.04	8.02	-0.52	
7574.00	88.980	340.330	7164.58	237.43	161.45	-259.15	1728933.95	14302298.53	39°23'6.3060"N	80°41'12.2091"W	305.33	301.924	10.71	10.29	-2.98	
7668.00	89.820	339.360	7165.57	331.41	249.69	-291.53	1728901.57	14302386.73	39°23'7.1792"N	80°41'12.6177"W	383.84	310.579	1.37	0.89	-1.03	

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Gaspell Unit 1H AWP Proj: 24562'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Gaspell Unit 1H
Field	Doddridge	API	47-017-06981-0000
Facility	Crimson Pad	Wellbore	Gaspell Unit 1H AWB
Slot	Slot D		

WELLPATH DATA (268 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
7763.00	89.720	339.340	7165.95	426.37	338.59	-325.03	1728868.08	14302475.59	39°23'8.0590"N	80°41'13.0405"W	469.35	316.170	0.11	-0.11	-0.02	
7857.00	89.880	340.540	7166.28	520.36	426.88	-357.28	1728835.85	14302563.85	39°23'8.9327"N	80°41'13.4472"W	556.66	320.073	1.29	0.17	1.28	
7951.00	89.750	340.640	7166.58	614.36	515.54	-388.51	1728804.63	14302652.48	39°23'9.8100"N	80°41'13.8411"W	645.54	322.998	0.17	-0.14	0.11	
8046.00	89.850	340.590	7166.91	709.35	605.15	-420.05	1728773.11	14302742.05	39°23'10.6968"N	80°41'14.2388"W	736.65	325.235	0.12	0.11	-0.05	
8140.00	89.850	340.290	7167.16	803.35	693.73	-451.52	1728741.65	14302830.59	39°23'11.5733"N	80°41'14.6357"W	827.72	326.942	0.32	0.00	-0.32	
8235.00	89.450	340.660	7167.74	898.35	783.26	-483.27	1728709.91	14302920.09	39°23'12.4593"N	80°41'15.0361"W	920.35	328.326	0.57	-0.42	0.39	
8330.00	89.600	340.560	7168.53	993.34	872.87	-514.80	1728678.39	14303009.67	39°23'13.3461"N	80°41'15.4338"W	1013.37	329.469	0.19	0.16	-0.11	
8424.00	89.480	340.260	7169.28	1087.34	961.43	-546.32	1728646.88	14303098.19	39°23'14.2224"N	80°41'15.8313"W	1105.81	330.393	0.34	-0.13	-0.32	
8519.00	89.510	339.360	7170.12	1182.31	1050.58	-579.11	1728614.11	14303187.31	39°23'15.1047"N	80°41'16.2449"W	1199.62	331.135	0.95	0.03	-0.95	
8613.00	89.600	340.490	7170.85	1276.30	1138.87	-611.37	1728581.86	14303275.56	39°23'15.9784"N	80°41'16.6520"W	1292.59	331.772	1.21	0.10	1.20	
8707.00	90.120	341.600	7171.08	1370.29	1227.77	-641.90	1728551.34	14303364.43	39°23'16.8580"N	80°41'17.0369"W	1385.45	332.398	1.30	0.55	1.18	
8802.00	89.510	340.550	7171.39	1465.29	1317.63	-672.71	1728520.54	14303454.26	39°23'17.7473"N	80°41'17.4254"W	1479.43	332.954	1.28	-0.64	-1.11	
8896.00	89.720	340.580	7172.02	1559.29	1406.27	-703.99	1728489.28	14303542.86	39°23'18.6244"N	80°41'17.8198"W	1572.65	333.407	0.23	0.22	0.03	
8990.00	89.660	340.960	7172.53	1653.29	1495.03	-734.95	1728458.33	14303631.58	39°23'19.5027"N	80°41'18.2102"W	1665.91	333.821	0.41	-0.06	0.40	
9084.00	89.350	341.180	7173.34	1747.28	1583.94	-765.44	1728427.85	14303720.46	39°23'20.3825"N	80°41'18.5947"W	1759.20	334.208	0.40	-0.33	0.23	
9179.00	89.570	340.630	7174.23	1842.28	1673.71	-796.52	1728396.78	14303810.19	39°23'21.2708"N	80°41'18.9866"W	1853.58	334.550	0.62	0.23	-0.58	
9273.00	89.780	340.770	7174.77	1936.28	1762.43	-827.59	1728365.73	14303898.87	39°23'22.1486"N	80°41'19.3784"W	1947.06	334.846	0.27	0.22	0.15	
9367.00	89.480	340.620	7175.37	2030.27	1851.14	-858.66	1728334.66	14303987.55	39°23'23.0265"N	80°41'19.7703"W	2040.59	335.115	0.36	-0.32	-0.16	
9462.00	89.570	340.760	7176.16	2125.27	1940.79	-890.08	1728303.26	14304077.17	39°23'23.9136"N	80°41'20.1664"W	2135.16	335.363	0.18	0.09	0.15	
9556.00	89.570	341.230	7176.87	2219.27	2029.66	-920.69	1728272.66	14304166.01	39°23'24.7931"N	80°41'20.5524"W	2228.72	335.600	0.50	0.00	0.50	
9651.00	89.540	340.120	7177.60	2314.26	2119.31	-952.12	1728241.24	14304255.61	39°23'25.6801"N	80°41'20.9489"W	2323.36	335.807	1.17	-0.03	-1.17	
9745.00	89.780	341.030	7178.16	2408.26	2207.95	-983.38	1728209.99	14304344.23	39°23'26.5573"N	80°41'21.3432"W	2417.04	335.993	1.00	0.26	0.97	
9839.00	89.820	340.780	7178.49	2502.26	2296.78	-1014.14	1728179.25	14304433.02	39°23'27.4363"N	80°41'21.7309"W	2510.71	336.176	0.27	0.04	-0.27	
9934.00	89.780	340.860	7178.82	2597.26	2386.51	-1045.35	1728148.05	14304522.71	39°23'28.3242"N	80°41'22.1245"W	2605.41	336.345	0.09	-0.04	0.08	
10028.00	88.920	339.660	7179.89	2691.24	2474.98	-1077.09	1728116.32	14304611.14	39°23'29.1996"N	80°41'22.5250"W	2699.19	336.482	1.57	-0.91	-1.28	
10123.00	89.450	340.920	7181.24	2786.22	2564.40	-1109.13	1728084.30	14304700.53	39°23'30.0845"N	80°41'22.9291"W	2793.98	336.611	1.44	0.56	1.33	
10216.00	89.690	340.920	7181.94	2879.22	2652.29	-1139.53	1728053.91	14304788.38	39°23'30.9542"N	80°41'23.3125"W	2886.72	336.750	0.26	0.26	0.00	
10311.00	89.510	340.510	7182.60	2974.22	2741.95	-1170.90	1728022.55	14304878.02	39°23'31.8415"N	80°41'23.7082"W	2981.50	336.876	0.47	-0.19	-0.43	
10405.00	89.570	340.680	7183.36	3068.21	2830.61	-1202.13	1727991.33	14304966.64	39°23'32.7188"N	80°41'24.1020"W	3075.30	336.990	0.19	0.06	0.18	
10500.00	89.540	340.840	7184.09	3163.21	2920.30	-1233.44	1727960.04	14305056.29	39°23'33.6063"N	80°41'24.4968"W	3170.10	337.102	0.17	-0.03	0.17	

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Field	Doddridge	API	47-017-06981-0000
Facility	Crimson Pad	Wellbore	Gaspell Unit 1H AWB
Slot	Slot D		

WELLPATH DATA (268 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
10594.00	89.880	340.370	7184.57	3257.21	3008.97	-1264.65	1727928.84	14305144.92	39°23'34.4837"N	80°41'24.8906"W	3263.93	337.203	0.62	0.36	-0.50	
10689.00	90.120	340.660	7184.57	3352.21	3098.53	-1296.34	1727897.16	14305234.45	39°23'35.3699"N	80°41'25.2903"W	3358.77	337.297	0.40	0.25	0.31	
10783.00	90.090	340.610	7184.40	3446.21	3187.21	-1327.51	1727866.00	14305323.09	39°23'36.2474"N	80°41'25.6834"W	3452.62	337.388	0.06	-0.03	-0.05	
10877.00	90.000	340.390	7184.32	3540.20	3275.82	-1358.89	1727834.64	14305411.67	39°23'37.1243"N	80°41'26.0792"W	3546.48	337.470	0.25	-0.10	-0.23	
10972.00	89.480	340.540	7184.75	3635.20	3365.35	-1390.65	1727802.89	14305501.16	39°23'38.0102"N	80°41'26.4799"W	3641.35	337.548	0.57	-0.55	0.16	
11066.00	89.660	341.210	7185.46	3729.20	3454.15	-1421.45	1727772.10	14305589.94	39°23'38.8890"N	80°41'26.8683"W	3735.20	337.632	0.74	0.19	0.71	
11160.00	89.480	340.550	7186.17	3823.19	3542.97	-1452.24	1727741.32	14305678.71	39°23'39.7678"N	80°41'27.2566"W	3829.05	337.712	0.73	-0.19	-0.70	
11349.00	89.080	339.700	7188.54	4012.16	3720.69	-1516.48	1727677.10	14305856.37	39°23'41.5265"N	80°41'28.0672"W	4017.87	337.825	0.50	-0.21	-0.45	
11444.00	89.420	339.800	7189.78	4107.13	3809.81	-1549.36	1727644.24	14305945.46	39°23'42.4085"N	80°41'28.4821"W	4112.81	337.870	0.37	0.36	0.11	
11538.00	88.950	339.620	7191.12	4201.10	3897.97	-1581.96	1727611.66	14306033.58	39°23'43.2809"N	80°41'28.8934"W	4206.75	337.911	0.54	-0.50	-0.19	
11632.00	88.800	339.980	7192.97	4295.07	3986.17	-1614.41	1727579.22	14306121.75	39°23'44.1537"N	80°41'29.3029"W	4300.68	337.952	0.41	-0.16	0.38	
11726.00	89.290	341.020	7194.53	4389.05	4074.77	-1645.78	1727547.86	14306210.31	39°23'45.0304"N	80°41'29.6987"W	4394.58	338.006	1.22	0.52	1.11	
11820.00	87.780	339.680	7196.94	4483.01	4163.26	-1677.38	1727516.27	14306298.76	39°23'45.9061"N	80°41'30.0973"W	4488.47	338.055	2.15	-1.61	-1.43	
11915.00	88.890	340.900	7199.70	4577.96	4252.65	-1709.40	1727484.26	14306388.12	39°23'46.7907"N	80°41'30.5014"W	4583.35	338.102	1.74	1.17	1.28	
12009.00	86.640	338.750	7203.36	4671.86	4340.81	-1741.79	1727451.88	14306476.24	39°23'47.6630"N	80°41'30.9101"W	4677.23	338.136	3.31	-2.39	-2.29	
12104.00	88.980	341.060	7206.99	4766.77	4429.95	-1774.40	1727419.29	14306565.35	39°23'48.5452"N	80°41'31.3216"W	4772.10	338.172	3.46	2.46	2.43	
12198.00	89.050	340.870	7208.61	4860.75	4518.79	-1805.06	1727388.64	14306654.16	39°23'49.4243"N	80°41'31.7082"W	4865.98	338.226	0.22	0.07	-0.20	
12293.00	88.980	341.000	7210.24	4955.74	4608.57	-1836.08	1727357.63	14306743.90	39°23'50.3126"N	80°41'32.0995"W	4960.86	338.277	0.16	-0.07	0.14	
12388.00	89.020	340.890	7211.90	5050.73	4698.35	-1867.09	1727326.63	14306833.64	39°23'51.2010"N	80°41'32.4906"W	5055.74	338.327	0.12	0.04	-0.12	
12482.00	89.170	341.120	7213.39	5144.71	4787.22	-1897.68	1727296.05	14306922.48	39°23'52.0804"N	80°41'32.8764"W	5149.63	338.376	0.29	0.16	0.24	
12576.00	88.980	341.030	7214.90	5238.70	4876.13	-1928.17	1727265.58	14307011.35	39°23'52.9602"N	80°41'33.2609"W	5243.52	338.425	0.22	-0.20	-0.10	
12670.00	88.980	341.060	7216.58	5332.69	4965.02	-1958.70	1727235.06	14307100.21	39°23'53.8397"N	80°41'33.6459"W	5337.40	338.471	0.03	0.00	0.03	
12764.00	89.140	337.370	7218.12	5426.62	5052.87	-1992.04	1727201.73	14307188.03	39°23'54.7091"N	80°41'34.0669"W	5431.37	338.484	3.93	0.17	-3.93	
12859.00	88.980	340.800	7219.68	5521.54	5141.59	-2025.95	1727167.84	14307276.71	39°23'55.5871"N	80°41'34.4949"W	5526.33	338.494	3.61	-0.17	3.61	
12953.00	88.890	340.350	7221.42	5615.53	5230.22	-2057.20	1727136.60	14307365.31	39°23'56.4642"N	80°41'34.8892"W	5620.26	338.529	0.49	-0.10	-0.48	
13047.00	88.950	340.530	7223.20	5709.51	5318.78	-2088.67	1727105.14	14307453.83	39°23'57.3405"N	80°41'35.2862"W	5714.19	338.560	0.20	0.06	0.19	
13141.00	88.950	340.310	7224.92	5803.49	5407.33	-2120.16	1727073.66	14307542.35	39°23'58.2167"N	80°41'35.6836"W	5808.12	338.590	0.23	0.00	-0.23	
13236.00	89.050	341.340	7226.58	5898.47	5497.04	-2151.36	1727042.47	14307632.02	39°23'59.1045"N	80°41'36.0771"W	5903.04	338.626	1.09	0.11	1.08	
13329.00	89.020	340.920	7228.14	5991.46	5585.03	-2181.44	1727012.41	14307719.98	39°23'59.9751"N	80°41'36.4564"W	5995.94	338.665	0.45	-0.03	-0.45	
13424.00	89.420	341.170	7229.44	6086.45	5674.87	-2212.29	1726981.57	14307809.78	39°24'0.8641"N	80°41'36.8455"W	6090.85	338.702	0.50	0.42	0.26	

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Actual Wellpath Report

Gaspell Unit 1H AWP Proj: 24562'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Gaspell Unit 1H
Field	Doddridge	API	47-017-06981-0000
Facility	Crimson Pad	Wellbore	Gaspell Unit 1H AWB
Slot	Slot D		

WELLPATH DATA (268 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
13518.00	89.380	341.070	7230.42	6180.44	5763.81	-2242.71	1726951.16	14307898.69	39°24'1.7441"N	80°41'37.2292"W	6184.76	338.739	0.11	-0.04	-0.11	
13612.00	89.290	340.750	7231.51	6274.44	5852.64	-2273.45	1726920.44	14307987.48	39°24'2.6231"N	80°41'37.6169"W	6278.69	338.771	0.35	-0.10	-0.34	
13707.00	89.320	340.860	7232.66	6369.43	5942.35	-2304.68	1726889.22	14308077.15	39°24'3.5108"N	80°41'38.0109"W	6373.62	338.802	0.12	0.03	0.12	
13801.00	89.510	341.240	7233.62	6463.42	6031.25	-2335.20	1726858.70	14308166.02	39°24'4.3904"N	80°41'38.3959"W	6467.54	338.834	0.45	0.20	0.40	
13896.00	89.350	341.150	7234.57	6558.42	6121.17	-2365.83	1726828.09	14308255.91	39°24'5.2802"N	80°41'38.7821"W	6562.46	338.869	0.19	-0.17	-0.09	
13990.00	89.820	340.830	7235.25	6652.41	6210.04	-2396.44	1726797.49	14308344.74	39°24'6.1596"N	80°41'39.1683"W	6656.39	338.898	0.60	0.50	-0.34	
14085.00	89.570	340.930	7235.76	6747.41	6299.80	-2427.56	1726766.38	14308434.47	39°24'7.0478"N	80°41'39.5608"W	6751.34	338.926	0.28	-0.26	0.11	
14180.00	88.650	339.890	7237.23	6842.40	6389.29	-2459.41	1726734.55	14308523.92	39°24'7.9333"N	80°41'39.9626"W	6846.29	338.947	1.46	-0.97	-1.09	
14274.00	89.850	341.320	7238.46	6936.38	6477.94	-2490.62	1726703.35	14308612.54	39°24'8.8105"N	80°41'40.3564"W	6940.24	338.969	1.99	1.28	1.52	
14368.00	90.980	341.180	7237.78	7030.38	6566.95	-2520.83	1726673.15	14308701.51	39°24'9.6913"N	80°41'40.7375"W	7034.16	339.000	1.21	1.20	-0.15	
14462.00	89.970	341.220	7237.00	7124.37	6655.93	-2551.12	1726642.87	14308790.46	39°24'10.5717"N	80°41'41.1195"W	7128.09	339.029	1.08	-1.07	0.04	
14557.00	90.280	341.240	7236.79	7219.37	6745.88	-2581.69	1726612.31	14308880.37	39°24'11.4617"N	80°41'41.5050"W	7223.02	339.058	0.33	0.33	0.02	
14651.00	90.090	341.120	7236.49	7313.37	6834.85	-2612.02	1726582.00	14308969.31	39°24'12.3421"N	80°41'41.8875"W	7316.96	339.085	0.24	-0.20	-0.13	
14745.00	89.720	341.410	7236.65	7407.36	6923.87	-2642.21	1726551.82	14309058.29	39°24'13.2229"N	80°41'42.2683"W	7410.89	339.113	0.50	-0.39	0.31	
14840.00	90.150	341.250	7236.75	7502.36	7013.87	-2672.62	1726521.42	14309148.26	39°24'14.1135"N	80°41'42.6518"W	7505.82	339.141	0.48	0.45	-0.17	
14934.00	90.280	341.600	7236.40	7596.36	7102.98	-2702.56	1726491.49	14309237.32	39°24'14.9951"N	80°41'43.0294"W	7599.74	339.169	0.40	0.14	0.37	
15029.00	90.710	341.400	7235.58	7691.35	7193.06	-2732.71	1726461.36	14309327.38	39°24'15.8865"N	80°41'43.4096"W	7694.66	339.198	0.50	0.45	-0.21	
15123.00	90.680	341.210	7234.44	7785.34	7282.10	-2762.83	1726431.24	14309416.37	39°24'16.7675"N	80°41'43.7895"W	7788.59	339.223	0.20	-0.03	-0.20	
15217.00	90.490	341.070	7233.48	7879.33	7371.04	-2793.22	1726400.87	14309505.29	39°24'17.6476"N	80°41'44.1728"W	7882.54	339.246	0.25	-0.20	-0.15	
15311.00	90.740	341.430	7232.47	7973.32	7460.05	-2823.43	1726370.67	14309594.26	39°24'18.5283"N	80°41'44.5539"W	7976.47	339.270	0.47	0.27	0.38	
15406.00	90.770	341.450	7231.22	8068.31	7550.10	-2853.67	1726340.45	14309684.28	39°24'19.4193"N	80°41'44.9352"W	8071.40	339.295	0.04	0.03	0.02	
15500.00	89.910	340.610	7230.66	8162.31	7638.99	-2884.22	1726309.90	14309773.13	39°24'20.2989"N	80°41'45.3206"W	8165.35	339.315	1.28	-0.91	-0.89	
15595.00	90.250	340.760	7230.53	8257.31	7728.65	-2915.64	1726278.49	14309862.75	39°24'21.1860"N	80°41'45.7171"W	8260.32	339.331	0.39	0.36	0.16	
15689.00	89.600	340.290	7230.65	8351.30	7817.27	-2946.98	1726247.16	14309951.34	39°24'22.0629"N	80°41'46.1125"W	8354.30	339.344	0.85	-0.69	-0.50	
15783.00	88.370	339.580	7232.32	8445.27	7905.55	-2979.23	1726214.93	14310039.58	39°24'22.9365"N	80°41'46.5195"W	8448.28	339.351	1.51	-1.31	-0.76	
15878.00	89.820	342.840	7233.82	8540.24	7995.46	-3009.82	1726184.36	14310129.46	39°24'23.8262"N	80°41'46.9054"W	8543.20	339.372	3.76	1.53	3.43	
15972.00	89.080	341.140	7234.72	8634.22	8084.84	-3038.88	1726155.31	14310218.81	39°24'24.7106"N	80°41'47.2718"W	8637.10	339.400	1.97	-0.79	-1.81	
16067.00	89.200	341.380	7236.15	8729.21	8174.80	-3069.40	1726124.80	14310308.72	39°24'25.6006"N	80°41'47.6567"W	8732.04	339.420	0.28	0.13	0.25	
16161.00	89.230	341.310	7237.44	8823.19	8263.85	-3099.46	1726094.75	14310397.74	39°24'26.4818"N	80°41'48.0359"W	8825.98	339.441	0.08	0.03	-0.07	
16256.00	89.140	340.570	7238.79	8918.18	8353.63	-3130.48	1726063.74	14310487.49	39°24'27.3702"N	80°41'48.4273"W	8920.94	339.457	0.78	-0.09	-0.78	

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Actual Wellpath Report

Gaspell Unit 1H AWP Proj: 24562'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Gaspell Unit 1H
Field	Doddridge	API	47-017-06981-0000
Facility	Crimson Pad	Wellbore	Gaspell Unit 1H AWP
Slot	Slot D		

WELLPATH DATA (268 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
16350.00	89.170	341.100	7240.17	9012.17	8442.41	-3161.34	1726032.90	14310576.24	39°24'28.2487"N	80°41'48.8166"W	9014.90	339.471	0.56	0.03	0.56	
16444.00	89.110	341.130	7241.58	9106.16	8531.34	-3191.76	1726002.49	14310665.13	39°24'29.1286"N	80°41'49.2003"W	9108.85	339.488	0.07	-0.06	0.03	
16539.00	89.200	340.460	7242.98	9201.15	8621.05	-3223.00	1725971.25	14310754.80	39°24'30.0162"N	80°41'49.5946"W	9203.81	339.502	0.71	0.09	-0.71	
16633.00	89.820	340.850	7243.79	9295.15	8709.73	-3254.14	1725940.13	14310843.45	39°24'30.8938"N	80°41'49.9875"W	9297.79	339.513	0.78	0.66	0.41	
16727.00	89.690	341.360	7244.19	9389.14	8798.67	-3284.58	1725909.70	14310932.35	39°24'31.7738"N	80°41'50.3715"W	9391.75	339.529	0.56	-0.14	0.54	
16822.00	91.850	343.230	7242.91	9484.10	8889.15	-3313.47	1725880.83	14311022.80	39°24'32.6690"N	80°41'50.7356"W	9486.63	339.557	3.01	2.27	1.97	
16916.00	89.080	341.030	7242.15	9578.06	8978.60	-3342.31	1725852.00	14311112.21	39°24'33.5540"N	80°41'51.0992"W	9580.51	339.582	3.76	-2.95	-2.34	
17010.00	89.170	340.480	7243.59	9672.04	9067.33	-3373.29	1725821.03	14311200.91	39°24'34.4321"N	80°41'51.4901"W	9674.48	339.593	0.59	0.10	-0.59	
17104.00	89.320	340.510	7244.82	9766.03	9155.93	-3404.67	1725789.66	14311289.47	39°24'35.3088"N	80°41'51.8861"W	9768.46	339.602	0.16	0.16	0.03	
17199.00	89.850	340.900	7245.51	9861.03	9245.59	-3436.06	1725758.28	14311379.10	39°24'36.1960"N	80°41'52.2822"W	9863.44	339.613	0.69	0.56	0.41	
17293.00	89.940	341.240	7245.69	9955.03	9334.51	-3466.55	1725727.80	14311467.98	39°24'37.0758"N	80°41'52.6670"W	9957.41	339.627	0.37	0.10	0.36	
17388.00	89.880	341.050	7245.83	10050.03	9424.41	-3497.25	1725697.11	14311557.85	39°24'37.9654"N	80°41'53.0543"W	10052.38	339.641	0.21	-0.06	-0.20	
17482.00	90.000	341.120	7245.93	10144.03	9513.34	-3527.73	1725666.65	14311646.74	39°24'38.8452"N	80°41'53.4387"W	10146.35	339.654	0.15	0.13	0.07	
17576.00	89.970	341.310	7245.96	10238.03	9602.33	-3558.00	1725636.39	14311735.69	39°24'39.7258"N	80°41'53.8206"W	10240.31	339.669	0.20	-0.03	0.20	
17671.00	90.090	341.160	7245.91	10333.02	9692.28	-3588.56	1725605.84	14311825.61	39°24'40.6158"N	80°41'54.2061"W	10335.28	339.683	0.20	0.13	-0.16	
17765.00	90.150	341.270	7245.71	10427.02	9781.27	-3618.83	1725575.59	14311914.57	39°24'41.4964"N	80°41'54.5879"W	10429.25	339.697	0.13	0.06	0.12	
17859.00	90.280	341.260	7245.36	10521.02	9870.29	-3649.02	1725545.41	14312003.55	39°24'42.3772"N	80°41'54.9688"W	10523.21	339.711	0.14	0.14	-0.01	
17954.00	90.340	341.240	7244.84	10616.02	9960.25	-3679.55	1725514.88	14312093.47	39°24'43.2673"N	80°41'55.3540"W	10618.17	339.725	0.07	0.06	-0.02	
18048.00	90.310	341.200	7244.31	10710.01	10049.24	-3709.82	1725484.63	14312182.43	39°24'44.1479"N	80°41'55.7358"W	10712.14	339.738	0.05	-0.03	-0.04	
18143.00	90.180	341.280	7243.90	10805.01	10139.19	-3740.37	1725454.09	14312272.35	39°24'45.0379"N	80°41'56.1212"W	10807.11	339.751	0.16	-0.14	0.08	
18237.00	90.250	341.200	7243.55	10899.01	10228.20	-3770.60	1725423.87	14312361.32	39°24'45.9186"N	80°41'56.5026"W	10901.08	339.764	0.11	0.07	-0.09	
18332.00	90.250	341.350	7243.14	10994.00	10318.17	-3801.10	1725393.39	14312451.25	39°24'46.8088"N	80°41'56.8873"W	10996.04	339.777	0.16	0.00	0.16	
18426.00	90.220	341.270	7242.75	11088.00	10407.21	-3831.22	1725363.28	14312540.26	39°24'47.6898"N	80°41'57.2673"W	11090.01	339.790	0.09	-0.03	-0.09	
18521.00	90.280	341.370	7242.34	11183.00	10497.21	-3861.64	1725332.86	14312630.22	39°24'48.5803"N	80°41'57.6512"W	11184.97	339.803	0.12	0.06	0.11	
18615.00	90.220	341.210	7241.93	11276.99	10586.24	-3891.80	1725302.72	14312719.22	39°24'49.4612"N	80°41'58.0316"W	11278.94	339.815	0.18	-0.06	-0.17	
18709.00	90.340	341.130	7241.47	11370.99	10675.21	-3922.14	1725272.40	14312808.15	39°24'50.3416"N	80°41'58.4144"W	11372.91	339.826	0.15	0.13	-0.09	
18803.00	90.280	341.340	7240.96	11464.99	10764.21	-3952.37	1725242.17	14312897.12	39°24'51.2222"N	80°41'58.7958"W	11466.88	339.838	0.23	-0.06	0.22	
18898.00	90.310	341.180	7240.47	11559.98	10854.17	-3982.89	1725211.66	14312987.05	39°24'52.1123"N	80°41'59.1809"W	11561.85	339.850	0.17	0.03	-0.17	
18992.00	90.340	341.340	7239.94	11653.98	10943.19	-4013.09	1725181.47	14313076.03	39°24'52.9931"N	80°41'59.5619"W	11655.82	339.861	0.17	0.03	0.17	
19087.00	90.370	341.270	7239.35	11748.98	11033.17	-4043.54	1725151.04	14313165.98	39°24'53.8835"N	80°41'59.9460"W	11750.79	339.873	0.08	0.03	-0.07	

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Glaspell Unit 1H AWP Proj: 24562'

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Field	Doddridge	API	47-017-06981-0000
Facility	Crimson Pad	Wellbore	Glaspell Unit 1H AWB
Slot	Slot D		

WELLPATH DATA (268 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
19181.00	90.430	341.140	7238.69	11842.97	11122.16	-4073.83	1725120.76	14313254.93	39°24'54.7640"N	80°42'0.3281"W	11844.77	339.883	0.15	0.06	-0.14	
19275.00	90.430	338.880	7237.99	11936.95	11210.49	-4105.96	1725088.64	14313343.22	39°24'55.6380"N	80°42'0.7338"W	11938.76	339.884	2.40	0.00	-2.40	
19370.00	90.400	341.270	7237.30	12031.93	11299.79	-4138.33	1725056.29	14313432.49	39°24'56.5217"N	80°42'1.1425"W	12033.75	339.886	2.52	-0.03	2.52	
19464.00	90.460	341.380	7236.59	12125.93	11388.84	-4168.43	1725026.20	14313521.50	39°24'57.4028"N	80°42'1.5222"W	12127.71	339.897	0.13	0.06	0.12	
19559.00	90.460	341.140	7235.83	12220.92	11478.80	-4198.95	1724995.69	14313611.43	39°24'58.2929"N	80°42'1.9073"W	12222.68	339.907	0.25	0.00	-0.25	
19653.00	90.000	340.840	7235.45	12314.92	11567.67	-4229.57	1724965.08	14313700.27	39°24'59.1723"N	80°42'2.2936"W	12316.67	339.916	0.58	-0.49	-0.32	
19748.00	90.280	341.250	7235.22	12409.92	11657.52	-4260.43	1724934.24	14313790.08	39°25'0.0613"N	80°42'2.6830"W	12411.65	339.924	0.52	0.29	0.43	
19842.00	89.450	340.640	7235.44	12503.92	11746.37	-4291.11	1724903.56	14313878.89	39°25'0.9405"N	80°42'3.0703"W	12505.63	339.932	1.10	-0.88	-0.65	
19937.00	90.220	341.600	7235.72	12598.92	11836.25	-4321.85	1724872.83	14313968.74	39°25'1.8298"N	80°42'3.4581"W	12600.61	339.941	1.30	0.81	1.01	
20031.00	90.150	341.290	7235.41	12692.91	11925.37	-4351.77	1724842.93	14314057.82	39°25'2.7116"N	80°42'3.8355"W	12694.58	339.952	0.34	-0.07	-0.33	
20125.00	90.430	341.320	7234.94	12786.91	12014.41	-4381.90	1724812.82	14314146.83	39°25'3.5926"N	80°42'4.2157"W	12788.55	339.962	0.30	0.30	0.03	
20220.00	90.180	341.400	7234.43	12881.90	12104.42	-4412.26	1724782.46	14314236.81	39°25'4.4832"N	80°42'4.5987"W	12883.52	339.972	0.28	-0.26	0.08	
20315.00	90.120	341.490	7234.18	12976.90	12194.48	-4442.49	1724752.25	14314326.83	39°25'5.3743"N	80°42'4.9801"W	12978.49	339.983	0.11	-0.06	0.09	
20409.00	90.030	341.260	7234.06	13070.89	12283.56	-4472.51	1724722.24	14314415.87	39°25'6.2557"N	80°42'5.3589"W	13072.46	339.993	0.26	-0.10	-0.24	
20503.00	90.000	341.150	7234.03	13164.89	12372.55	-4502.80	1724691.96	14314504.83	39°25'7.1362"N	80°42'5.7410"W	13166.44	340.002	0.12	-0.03	-0.12	
20597.00	90.000	341.330	7234.03	13258.89	12461.55	-4533.03	1724661.74	14314593.80	39°25'8.0169"N	80°42'6.1225"W	13260.42	340.011	0.19	0.00	0.19	
20691.00	90.000	341.040	7234.03	13352.89	12550.53	-4563.34	1724631.44	14314682.74	39°25'8.8973"N	80°42'6.5050"W	13354.40	340.019	0.31	0.00	-0.31	
20786.00	90.000	341.410	7234.03	13447.89	12640.48	-4593.92	1724600.88	14314772.65	39°25'9.7872"N	80°42'6.8908"W	13449.38	340.027	0.39	0.00	0.39	
20881.00	90.120	341.270	7233.94	13542.88	12730.48	-4624.31	1724570.49	14314862.62	39°25'10.6778"N	80°42'7.2743"W	13544.35	340.037	0.19	0.13	-0.15	
20975.00	90.180	341.130	7233.69	13636.88	12819.47	-4654.61	1724540.21	14314951.57	39°25'11.5583"N	80°42'7.6566"W	13638.33	340.045	0.16	0.06	-0.15	
21069.00	90.220	341.250	7233.36	13730.88	12908.45	-4684.92	1724509.92	14315040.51	39°25'12.4387"N	80°42'8.0390"W	13732.31	340.052	0.13	0.04	0.13	
21164.00	90.220	341.200	7233.00	13825.88	12998.39	-4715.49	1724479.35	14315130.42	39°25'13.3286"N	80°42'8.4249"W	13827.29	340.060	0.05	0.00	-0.05	
21258.00	90.150	341.220	7232.69	13919.88	13087.38	-4745.77	1724449.09	14315219.38	39°25'14.2091"N	80°42'8.8069"W	13921.27	340.068	0.08	-0.07	0.02	
21352.00	90.220	341.290	7232.39	14013.87	13176.39	-4775.98	1724418.89	14315308.36	39°25'15.0899"N	80°42'9.1881"W	14015.25	340.076	0.11	0.07	0.07	
21447.00	90.150	341.400	7232.08	14108.87	13266.40	-4806.36	1724388.52	14315398.33	39°25'15.9805"N	80°42'9.5715"W	14110.23	340.085	0.14	-0.07	0.12	
21541.00	90.250	341.460	7231.75	14202.87	13355.51	-4836.30	1724358.59	14315487.40	39°25'16.8621"N	80°42'9.9492"W	14204.20	340.094	0.12	0.11	0.06	
21636.00	90.220	341.380	7231.36	14297.86	13445.56	-4866.57	1724328.33	14315577.41	39°25'17.7531"N	80°42'10.3311"W	14299.18	340.102	0.09	-0.03	-0.08	
21730.00	90.150	341.310	7231.06	14391.86	13534.62	-4896.64	1724298.28	14315666.44	39°25'18.6343"N	80°42'10.7105"W	14393.15	340.111	0.11	-0.07	-0.07	
21825.00	90.120	341.250	7230.84	14486.85	13624.59	-4927.12	1724267.80	14315756.38	39°25'19.5245"N	80°42'11.0953"W	14488.13	340.118	0.07	-0.03	-0.06	
21919.00	90.250	341.480	7230.53	14580.85	13713.66	-4957.16	1724237.77	14315845.41	39°25'20.4059"N	80°42'11.4743"W	14582.11	340.126	0.28	0.14	0.24	

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Actual Wellpath Report

Gaspell Unit 1H AWP Proj: 24562'
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Gaspell Unit 1H
Field	Doddridge		API	47-017-06981-0000
Facility	Crimson Pad		Wellbore	Gaspell Unit 1H AWP
Slot	Slot D			

WELLPATH DATA (268 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
22013.00	89.080	340.570	7231.08	14674.85	13802.55	-4987.72	1724207.23	14315934.27	39°25'21.2854"N	80°42'11.8600"W	14676.10	340.132	1.58	-1.24	-0.97	
22108.00	90.180	341.230	7231.70	14769.84	13892.32	-5018.81	1724176.15	14316024.00	39°25'22.1736"N	80°42'12.2523"W	14771.08	340.137	1.35	1.16	0.69	
22202.00	89.480	340.910	7231.98	14863.84	13981.23	-5049.30	1724145.67	14316112.88	39°25'23.0534"N	80°42'12.6372"W	14865.07	340.143	0.82	-0.74	-0.34	
22296.00	89.450	341.170	7232.85	14957.84	14070.13	-5079.84	1724115.14	14316201.74	39°25'23.9330"N	80°42'13.0226"W	14959.05	340.149	0.28	-0.03	0.28	
22390.00	89.720	341.290	7233.53	15051.83	14159.13	-5110.09	1724084.91	14316290.70	39°25'24.8135"N	80°42'13.4043"W	15053.04	340.155	0.31	0.29	0.13	
22485.00	89.940	341.240	7233.82	15146.83	14249.09	-5140.60	1724054.41	14316380.63	39°25'25.7037"N	80°42'13.7894"W	15148.02	340.162	0.24	0.23	-0.05	
22579.00	89.970	341.130	7233.89	15240.83	14338.07	-5170.92	1724024.10	14316469.57	39°25'26.5841"N	80°42'14.1720"W	15242.00	340.169	0.12	0.03	-0.12	
22674.00	89.880	341.190	7234.01	15335.83	14427.98	-5201.60	1723993.44	14316559.45	39°25'27.4737"N	80°42'14.5591"W	15336.99	340.175	0.11	-0.09	0.06	
22768.00	89.880	341.150	7234.21	15429.82	14516.95	-5231.94	1723963.11	14316648.38	39°25'28.3540"N	80°42'14.9420"W	15430.97	340.181	0.04	0.00	-0.04	
22863.00	90.060	341.250	7234.26	15524.82	14606.88	-5262.55	1723932.51	14316738.28	39°25'29.2438"N	80°42'15.3284"W	15525.96	340.187	0.22	0.19	0.11	
22958.00	89.970	340.920	7234.24	15619.82	14696.75	-5293.35	1723901.72	14316828.11	39°25'30.1331"N	80°42'15.7171"W	15620.95	340.192	0.36	-0.09	-0.35	
23147.00	90.000	341.430	7234.29	15808.82	14875.64	-5354.33	1723840.76	14317006.93	39°25'31.9031"N	80°42'16.4868"W	15809.92	340.204	0.27	0.02	0.27	
23242.00	90.090	340.180	7234.21	15903.82	14965.36	-5385.57	1723809.54	14317096.62	39°25'32.7908"N	80°42'16.8810"W	15904.91	340.208	1.32	0.09	-1.32	
23336.00	88.740	340.180	7235.17	15997.80	15053.78	-5417.44	1723777.68	14317185.01	39°25'33.6658"N	80°42'17.2835"W	15998.90	340.208	1.44	-1.44	0.00	
23431.00	90.030	340.160	7236.19	16092.79	15143.14	-5449.66	1723745.47	14317274.33	39°25'34.5500"N	80°42'17.6904"W	16093.90	340.207	1.36	1.36	-0.02	
23526.00	89.910	340.180	7236.24	16187.78	15232.51	-5481.89	1723713.26	14317363.66	39°25'35.4343"N	80°42'18.0973"W	16188.90	340.207	0.13	-0.13	0.02	
23620.00	90.120	340.260	7236.22	16281.77	15320.96	-5513.70	1723681.46	14317452.08	39°25'36.3096"N	80°42'18.4990"W	16282.90	340.207	0.24	0.22	0.09	
23715.00	90.120	339.950	7236.02	16376.77	15410.29	-5546.03	1723649.14	14317541.38	39°25'37.1935"N	80°42'18.9073"W	16377.90	340.207	0.33	0.00	-0.33	
23810.00	90.000	339.530	7235.92	16471.75	15499.41	-5578.92	1723616.26	14317630.46	39°25'38.0754"N	80°42'19.3228"W	16472.89	340.204	0.46	-0.13	-0.44	
23904.00	90.770	340.160	7235.29	16565.73	15587.65	-5611.31	1723583.88	14317718.67	39°25'38.9485"N	80°42'19.7318"W	16566.89	340.202	1.06	0.82	0.67	
23999.00	90.710	340.210	7234.06	16660.71	15677.02	-5643.51	1723551.70	14317808.00	39°25'39.8328"N	80°42'20.1385"W	16661.88	340.202	0.08	-0.06	0.05	
24094.00	91.050	340.130	7232.60	16755.69	15766.38	-5675.73	1723519.49	14317897.32	39°25'40.7170"N	80°42'20.5454"W	16756.87	340.202	0.37	0.36	-0.08	
24188.00	90.920	340.100	7230.98	16849.67	15854.76	-5707.70	1723487.53	14317985.67	39°25'41.5916"N	80°42'20.9491"W	16850.85	340.201	0.14	-0.14	-0.03	
24283.00	90.890	340.070	7229.48	16944.65	15944.07	-5740.06	1723455.19	14318074.94	39°25'42.4753"N	80°42'21.3577"W	16945.84	340.201	0.04	-0.03	-0.03	
24378.00	90.950	340.170	7227.96	17039.63	16033.40	-5772.36	1723422.90	14318164.23	39°25'43.3592"N	80°42'21.7656"W	17040.83	340.200	0.12	0.06	0.11	
24472.00	90.860	340.370	7226.47	17133.61	16121.87	-5804.09	1723391.18	14318252.67	39°25'44.2346"N	80°42'22.1663"W	17134.82	340.200	0.23	-0.10	0.21	
24537.00	90.950	340.090	7225.45	17198.60	16183.03	-5826.07	1723369.21	14318313.81	39°25'44.8398"N	80°42'22.4439"W	17199.81	340.201	0.45	0.14	-0.43	
24562.00	90.950	340.090	7225.03	17223.60	16206.53	-5834.58	1723360.70	14318337.30	39°25'45.0724"N	80°42'22.5514"W	17224.81	340.200	0.00	0.00	0.00	Projected MD at TD: 24562'

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Actual Wellpath Report

Glaspell Unit 1H AWP Proj: 24562'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Glaspell Unit 1H
Field	Doddridge	API	47-017-06981-0000
Facility	Crimson Pad	Wellbore	Glaspell Unit 1H AWB
Slot	Slot D		

HOLE & CASING SECTIONS - Ref Wellbore: Glaspell Unit 1H AWB Ref Wellpath: Glaspell Unit 1H AWP Proj: 24562'

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	-0.12	-0.12
17.5in Open Hole	125.50	1059.00	933.50	125.50	1059.00	-0.12	-0.12	-2.77	-0.58
13.375in Casing Surface	25.50	1039.00	1013.50	25.50	1039.00	0.00	0.00	-2.68	-0.57
12.375in Open Hole	1059.00	3171.00	2112.00	1059.00	3149.61	-2.77	-0.58	-254.99	-88.38
9.625in Casing Intermediate	25.50	3141.00	3115.50	25.50	3120.02	0.00	0.00	-250.12	-87.50
8.75in Open Hole	3171.00	6424.00	3253.00	3149.61	6383.56	-254.99	-88.38	-509.41	-128.45
8.5in Open Hole	6424.00	24562.00	18138.00	6383.56	7225.03	-509.41	-128.45	16206.53	-5834.58
5.5in Casing Production	25.50	24542.00	24516.50	25.50	7225.36	0.00	0.00	16187.73	-5827.77

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Glaspell Unit 1H POE Rev-2	7148.00	35.03	-238.33	1728954.75	14302172.16	39°23'5.0558"N	80°41'11.9497"W	point
Glaspell Unit 1H BHL Rev-2	7173.00	16221.33	-5848.35	1723346.94	14318352.10	39°25'45.2191"N	80°42'22.7262"W	point
Glaspell Unit 1H LP Rev-2	7173.00	212.27	-299.76	1728893.35	14302349.32	39°23'6.8096"N	80°41'12.7242"W	point
Glaspell Unit 1H 50' L/R Hard Line	7500.00	8128.19	-3043.34	1726150.84	14310262.13	39°24'25.1391"N	80°41'47.3268"W	rectangle
2D Rectangle 17130.9 x 100.								

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 Glaspell Unit 1H AWP Proj: 24562'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Glaspell Unit 1H
Field	Doddridge	API	47-017-06981-0000
Facility	Crimson Pad	Wellbore	Glaspell Unit 1H AWB
Slot	Slot D		

WELLPATH COMPOSITION - Ref Wellbore: Glaspell Unit 1H AWB Ref Wellpath: Glaspell Unit 1H AWP Proj: 24562'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	1000.00	Gyrodata 2015 - GC+WIR+DPIPE	01 Gyrodata MS Gyro <17-1/2"> (100'-1000')	Glaspell Unit 1H AWB	8/4/2024
1000.00	1130.00	Gyrodata 2015 - GC+WIR+DPIPE	02 Gyrodata MS Gyro <12-3/8"> (1000')(1100'-1130')	Glaspell Unit 1H AWB	8/5/2024
1130.00	3101.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <12-3/8"> (1130')(1165'-3101')	Glaspell Unit 1H AWB	8/4/2024
3101.00	6349.00	BH NaviTrak (2019) (Axial Corr+HRGM)	04 APS EM <8-3/4"> (3101')(3234'-6349')	Glaspell Unit 1H AWB	9/25/2024
6349.00	24562.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	05 BH Lucida <8-1/2"> (6349')(6400'-24537')	Glaspell Unit 1H AWB	9/25/2024

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 Gaspell Unit 1H AWP Proj: 24562'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Gaspell Unit 1H
Field	Doddridge	API	47-017-06981-0000
Facility	Crimson Pad	Wellbore	Gaspell Unit 1H AWB
Slot	Slot D		

COMMENTS

Wellpath general comments

API: 47-017-06981-0000
 BH Job #: 112320230
 Rig: H&P 317
 Duration: 9/28/2024-10/3/2024
 Gyrodata MS Gyro <17-1/2"> (100'-1000')
 Gyrodata MS Gyro <12-3/8"> (1000')(1100'-1130')
 APS EM <12-3/8"> (1130')(1165'-3101')
 APS EM <8-3/4"> (3101')(3234'-6349')
 BH Lucida <8-1/2"> (6349')(6400'-24537')
 Sycamore: 6796' MD
 Middlesex: 6962' MD
 Burkett: 7170' md
 Tully: 7221' MD
 Marcellus POE: 7401' MD
 Projected MD at TD: 24562'

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