



ANTERO RESOURCES CORPORATION



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

Slot: Slot #01
Well: Vishnu Unit 1H
Wellbore: Vishnu Unit 1H PWB

File reference wellpath is Vishnu Unit 1H PWB Rev-B.0
North reference are referenced to H&P 317 (RKB)
Scale: True distance
Reference wellpath measured depths are referenced to H&P 317 (RKB)
H&P 317 (RKB) is Mean Sea Level, 1288.5 feet
Mean Sea Level to Ground level (R Slot, Slot #01): -1243 feet
Offset wellpath MDs are referenced to each path's default MD datum
Created by: eddyar on 2/21/2021 08:27; Database: WA_MPL_EASTERNUS_DWH

Location Information

Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Grand Pad	14346849.540	39°30'25.7888"N	80°48'38.4804"W	
Slot	Local E (ft)	Grid East (US ft)	Latitude	Longitude
Slot #01	0.02	14346849.580	39°30'25.7870"N	80°48'38.4800"W

Comment: Vishnu Unit 1H

H&P 317 (RKB) to Ground level (R Slot, Slot #01)
Mean Sea Level to Ground level (R Slot, Slot #01)
H&P 317 (RKB) to Mean Sea Level
-1243 ft
1288.5 ft

Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	2523.00	0.850	222.510	2522.84	-7.50	4.48	1.17	-8.55
Prod. to Bottom	2601.00	0.850	222.510	2600.93	-8.35	3.71	0.00	-9.10
Drift Out	2681.00	0.850	222.510	2680.92	-9.23	2.81	0.00	-9.67
End of Drop	2765.00	0.000	138.473	2765.82	-8.69	2.48	1.00	-9.87
KOP 1	3463.55	0.000	138.473	3463.47	-8.69	2.48	0.00	-9.87
End of Build	3953.55	10.000	138.473	3950.93	-42.77	30.76	2.00	-50.43
Curve KOP	6059.42	10.000	138.473	6024.96	-319.41	267.26	0.00	-388.76
Turn / Avoid NGZ	6365.52	15.000	341.100	6329.17	-301.80	271.78	8.00	-373.57
PDE	7110.45	74.514	341.095	6934.00	174.77	109.61	8.00	127.00
Landing PL	7304.02	80.000	341.095	6890.00	352.68	47.65	8.00	318.23
BHL	23167.06	80.000	341.095	6860.00	15360.04	-5091.92	0.00	16181.27

Well Data

Slot	Well	Wellbore	Wellpath
Slot #01	Vishnu Unit 1H	Vishnu Unit 1H AWB	Vishnu Unit 1H AWP Proj: 23174
Slot #01	Vishnu Unit 1H	Vishnu Unit 1H PWB	Vishnu Unit 1H PWB Rev-B.0

Gyrodatta MS Gyro <17-1/2"> (100-386°) : 0.61° Inc, 100.00ft MD, 100.00ft TVD, -0.01ft VS
APS EM <12-1/4"> (386°)(418-2523°) : 0.27° Inc, 418.00ft MD, 417.99ft TVD, -0.66ft VS

APS EM <8-3/4"> (2523°)(2550-6010°) : 0.48° Inc, 2550.00ft MD, 2549.93ft TVD, -8.67ft VS

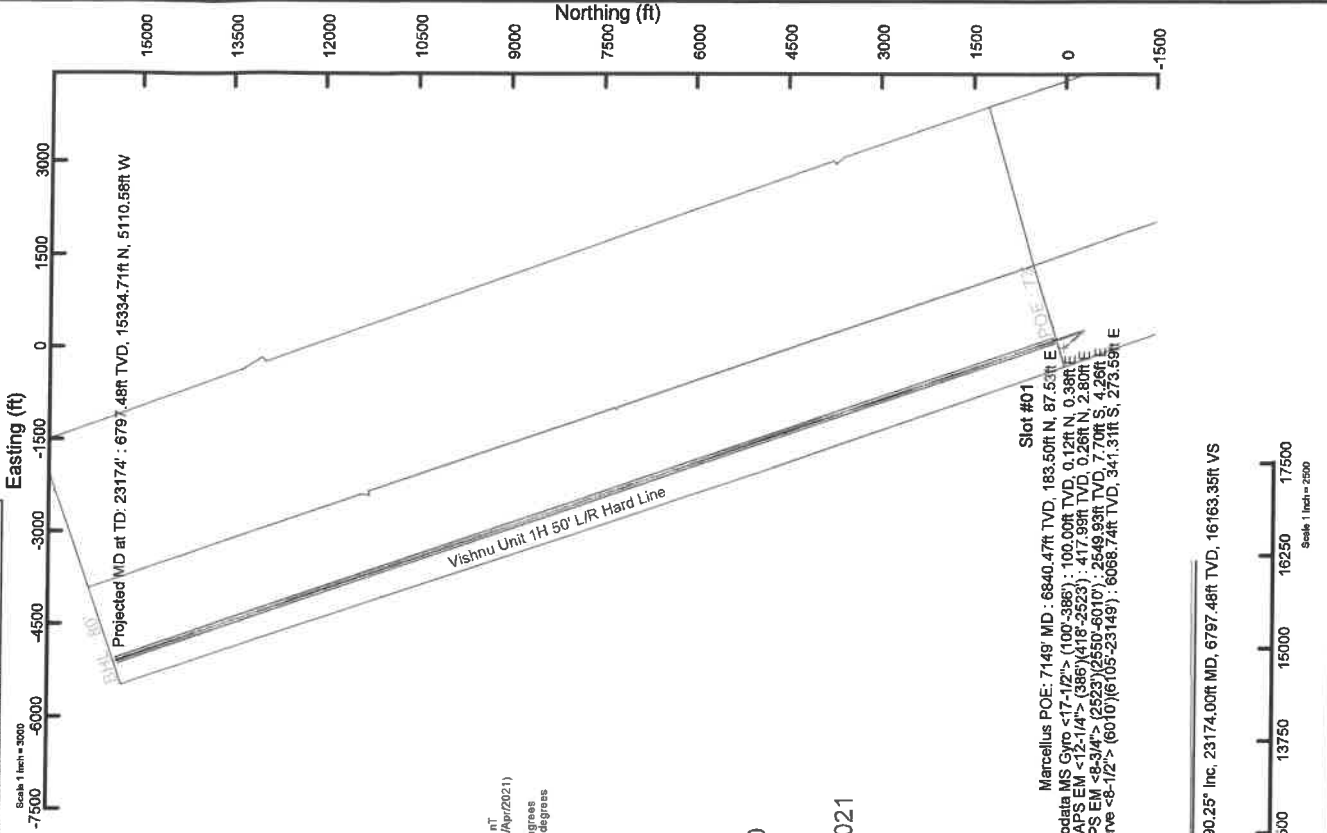
API: 47-095-02716-0000
BH Job #: 110784740
Rig: H&P 317
Duration: 4/22/2021-4/27/2021

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BHAT Curve <8-1/2"> (6105-23149°) : 7.79° Inc, 6105.00ft MD, 6068.74ft TVD, -411.53ft VS

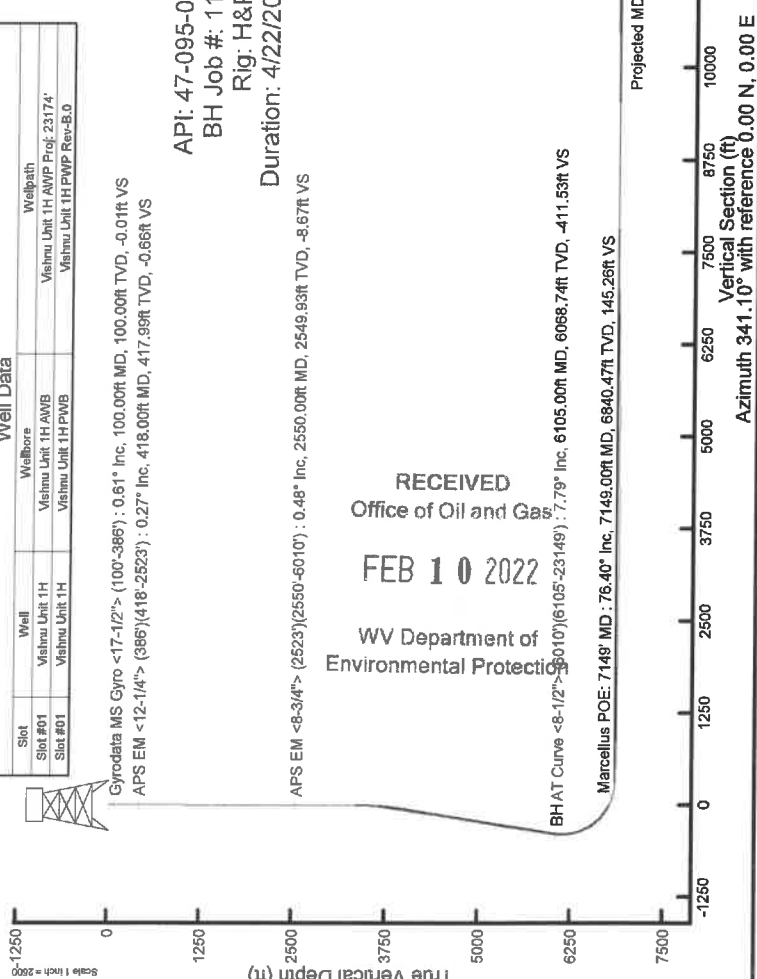
Marcellus POE: 7149° MD : 76.40° Inc, 7149.00ft MD, 6840.47ft TVD, 145.26ft VS

Projected MD at TD: 23174° : 90.25° Inc, 23174.00ft MD, 6797.46ft TVD, 16163.35ft VS



User specified (HDGM) Dip: 66.51° Field: 51831 nT
Magnetic North is 7.44 degrees West of True North (at 21/Apr/2021)
To correct azimuth from True to Grid subtract 0.92 degrees
To correct azimuth from Magnetic to Grid subtract 7.56 degrees

Slot #01
Marcellus POE: 7149° MD : 6840.47ft TVD, 183.50ft N, 87.53ft E
Gyrodatta MS Gyro <17-1/2"> (100-386°) : 100.00ft TVD, 0.12ft N, 0.38ft E
APS EM <12-1/4"> (386°)(418-2523°) : 417.99ft TVD, 0.26ft N, 2.80ft E
APS EM <8-3/4"> (2523°)(2550-6010°) : 2549.93ft TVD, 7.70ft S, 4.26ft E
BHAT Curve <8-1/2"> (6010°)(6105-23149°) : 6068.74ft TVD, 341.31ft S, 273.59ft E



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Actual Wellpath Report

Vishnu Unit 1H AWP Proj: 23174'
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REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Field	Tyler
Facility	Grand Pad
Slot	Slot #01
Well	Vishnu Unit 1H
API	47-095-02716-0000
Wellbore	Vishnu Unit 1H AWB

REPORT SETUP INFORMATION	
Projection System	NAD27 / UTM Zone 17 North, US feet
North Reference	Grid
Scale	0.999603
Convergence at slot	0.12° East
Software System	WellArchitect® 6.0
User	Edsaryar
Report Generated	27/Apr/2021 at 21:32
Database	WA_MPL_EASTERNUS_Defn

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ff]	Northing[US ff]	Latitude	Longitude
Slot Location	0.02	0.03	1693814.00	14346649.56	39°30'25.7870"N	80°48'38.4800"W
Facility Reference Pt			1693813.97	14346649.54	39°30'25.7868"N	80°48'38.4804"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.3013"W

WELLPATH DATUM	
Calculation method	Minimum curvature
Horizontal Reference Pt	Slot
Vertical Reference Pt	H&P 317 (RKB)
MD Reference Pt	H&P 317 (RKB)
Field Vertical Reference	Mean Sea Level
	H&P 317 (RKB) to Facility Vertical Datum
	H&P 317 (RKB) to Mean Sea Level
	H&P 317 (RKB) to Ground Level at Slot (Slot #01)
	Section Origin
	Section Azimuth
	1268.50ft
	1268.50ft
	25.50ft
	N 0.00, E 0.00 ft
	341.10°

Actual Wellpath Report

Vishnu Unit 1H AWP Proj: 23174'
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REFERENCE WELLPATH IDENTIFICATION		Well	Vishnu Unit 1H
Operator	ANTERO RESOURCES CORPORATION	API	47-095-02716-0000
Field	Tyler	Wellbore	Vishnu Unit 1H AWB
Facility	Grand Pad		
Slot	Slot #01		

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	0.00	72.110	0.00	0.00	0.00	0.00	1693814.00	14346649.56	39°30'25.7870"N	80°48'38.4800"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	72.110	25.50	0.00	0.00	0.00	1693814.00	14346649.56	39°30'25.7870"N	80°48'38.4800"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.610	72.110	100.00	-0.01	0.12	0.38	1693814.38	14346649.68	39°30'25.7882"N	80°48'38.4752"W	0.40	72.110	0.82	0.00	0.00	0.00 Gyrodata MS Gyro <17-1/2"> (100'-386')
200.00	0.510	85.560	199.99	-0.13	0.32	1.33	1693815.33	14346649.88	39°30'25.7901"N	80°48'38.4631"W	1.37	76.457	0.16	-0.10	13.45	
300.00	0.430	80.510	299.99	-0.30	0.42	2.14	1693816.14	14346649.98	39°30'25.7911"N	80°48'38.4527"W	2.18	79.004	0.09	-0.08	-5.05	
386.00	0.320	118.140	385.99	-0.53	0.36	2.67	1693816.67	14346649.92	39°30'25.7904"N	80°48'38.4459"W	2.70	82.408	0.31	-0.13	43.76	
418.00	0.270	138.240	417.99	-0.66	0.26	2.80	1693816.80	14346649.82	39°30'25.7895"N	80°48'38.4443"W	2.81	84.743	0.36	-0.16	62.81	APS EM <12-1/4"> (386')(418'-2523')
508.00	0.350	157.700	507.99	-1.13	-0.15	3.05	1693817.04	14346649.41	39°30'25.7854"N	80°48'38.4411"W	3.05	92.910	0.15	0.09	21.62	
598.00	1.110	90.350	597.98	-1.70	-0.41	4.02	1693818.02	14346649.15	39°30'25.7828"N	80°48'38.4287"W	4.04	95.884	1.14	0.84	-74.83	
688.00	0.150	155.930	687.97	-2.10	-0.53	4.94	1693818.94	14346649.03	39°30'25.7817"N	80°48'38.4170"W	4.97	98.091	1.17	-1.07	72.87	
779.00	0.270	137.020	778.97	-2.41	-0.79	5.14	1693819.13	14346648.77	39°30'25.7790"N	80°48'38.4145"W	5.20	98.776	0.15	0.13	-20.78	
870.00	0.180	164.320	869.97	-2.75	-1.09	5.32	1693819.32	14346648.47	39°30'25.7761"N	80°48'38.4121"W	5.43	101.550	0.15	-0.10	30.00	
960.00	0.270	141.980	959.97	-3.09	-1.39	5.49	1693819.49	14346648.17	39°30'25.7731"N	80°48'38.4100"W	5.66	104.214	0.14	0.10	-24.82	
1050.00	0.270	138.810	1049.97	-3.49	-1.72	5.76	1693819.76	14346647.84	39°30'25.7699"N	80°48'38.4066"W	6.01	106.600	0.02	0.00	-3.52	
1145.00	0.180	108.220	1144.97	-3.79	-1.93	6.05	1693820.05	14346647.63	39°30'25.7678"N	80°48'38.4029"W	6.35	107.714	0.15	-0.09	-32.20	
1240.00	0.360	148.570	1239.97	-4.17	-2.23	6.35	1693820.34	14346647.33	39°30'25.7648"N	80°48'38.3991"W	6.73	109.388	0.26	0.19	42.47	
1335.00	0.360	131.890	1334.97	-4.72	-2.69	6.72	1693820.72	14346646.87	39°30'25.7603"N	80°48'38.3943"W	7.24	111.784	0.11	0.00	-17.56	
1429.00	0.240	152.410	1428.97	-5.17	-3.06	7.04	1693821.03	14346646.50	39°30'25.7566"N	80°48'38.3903"W	7.67	113.500	0.17	-0.13	21.83	
1524.00	0.240	156.300	1523.97	-5.57	-3.42	7.21	1693821.21	14346646.14	39°30'25.7531"N	80°48'38.3881"W	7.98	115.369	0.02	0.00	4.09	
1619.00	0.280	132.880	1618.96	-5.97	-3.76	7.46	1693821.46	14346645.80	39°30'25.7497"N	80°48'38.3850"W	8.35	116.743	0.12	0.04	-24.84	
1713.00	0.400	143.490	1712.96	-6.49	-4.18	7.82	1693821.82	14346645.38	39°30'25.7455"N	80°48'38.3803"W	8.87	118.110	0.14	0.13	11.28	
1808.00	0.510	156.190	1807.96	-7.22	-4.83	8.19	1693822.19	14346644.73	39°30'25.7391"N	80°48'38.3756"W	9.51	120.538	0.16	0.12	13.37	
1903.00	0.440	144.090	1902.96	-7.99	-5.51	8.57	1693822.54	14346644.05	39°30'25.7323"N	80°48'38.3708"W	10.19	122.743	0.13	-0.07	-12.74	
1998.00	0.370	234.330	1997.95	-8.43	-5.99	8.54	1693822.57	14346643.57	39°30'25.7276"N	80°48'38.3712"W	10.43	125.040	0.61	-0.07	94.99	
2093.00	0.500	257.950	2092.95	-8.47	-6.25	7.88	1693821.88	14346643.31	39°30'25.7250"N	80°48'38.3796"W	10.06	128.419	0.23	0.14	24.86	
2188.00	0.520	256.200	2187.95	-8.38	-6.44	7.06	1693821.06	14346643.12	39°30'25.7232"N	80°48'38.3901"W	9.56	132.381	0.03	0.02	-1.84	
2282.00	0.470	256.050	2281.95	-8.31	-6.64	6.27	1693820.27	14346642.93	39°30'25.7213"N	80°48'38.4002"W	9.13	136.621	0.05	-0.05	-0.16	
2377.00	0.500	243.170	2376.94	-8.33	-6.92	5.52	1693819.52	14346642.64	39°30'25.7185"N	80°48'38.4097"W	8.85	141.395	0.12	0.03	-13.56	
2472.00	0.330	254.390	2471.94	-8.38	-7.18	4.89	1693818.89	14346642.38	39°30'25.7159"N	80°48'38.4178"W	8.69	145.736	0.20	-0.18	11.81	
2523.00	0.850	222.510	2522.94	-8.55	-7.50	4.49	1693818.49	14346642.07	39°30'25.7128"N	80°48'38.4229"W	8.74	149.064	1.17	1.02	-62.51	

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Actual Wellpath Report

Vishnu Unit 1H AWP Proj: 23174'

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REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Field	Tyler
Well	Vishnu Unit 1H
API	47-095-02716-0000
Wellbore	Vishnu Unit 1H AWB
Grand Pad	
Slot #01	

WELLPATH DATA (268 stations)																
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (°/100ft)	Comments
2550.00	0.480	239.400	2549.93	-8.67	-7.70	4.26	1693818.26	14346641.86	39°30'25.7108"N	80°48'38.4259"W	8.80	151.050	1.54	-1.37	62.56	APS EM -8-3/4" > (2523')(2550-6010)
2638.00	0.860	245.900	2637.93	-8.80	-8.16	3.34	1693817.34	14346641.40	39°30'25.7063"N	80°48'38.4376"W	8.82	157.736	0.44	0.43		7.39
2727.00	0.550	257.780	2726.92	-8.81	-8.52	2.31	1693816.31	14346641.04	39°30'25.7027"N	80°48'38.4507"W	8.83	164.813	0.38	-0.35	13.35	
2815.00	0.720	246.320	2814.92	-8.81	-8.83	1.39	1693815.39	14346640.73	39°30'25.6996"N	80°48'38.4625"W	8.94	171.031	0.24	0.19	-13.02	
2904.00	0.620	233.560	2903.91	-9.05	-9.44	0.37	1693814.37	14346640.13	39°30'25.6937"N	80°48'38.4755"W	9.44	177.755	0.22	0.11	-14.34	
2992.00	0.940	229.950	2991.90	-9.50	-10.28	-0.69	1693813.31	14346639.29	39°30'25.6854"N	80°48'38.4891"W	10.30	183.837	0.15	0.14	-4.10	
3081.00	0.840	226.610	3080.89	-10.03	-11.19	-1.72	1693812.28	14346638.37	39°30'25.6764"N	80°48'38.5023"W	11.33	188.746	0.13	-0.11	-3.75	
3169.00	0.800	222.770	3168.88	-10.59	-12.09	-2.61	1693811.39	14346637.48	39°30'25.6676"N	80°48'38.5136"W	12.37	192.175	0.08	-0.05	-4.36	
3257.00	0.740	228.930	3256.87	-11.10	-12.91	-3.45	1693810.55	14346636.65	39°30'25.6594"N	80°48'38.5244"W	13.37	194.974	0.12	-0.07	7.00	
3346.00	0.670	218.020	3345.86	-11.60	-13.70	-4.21	1693809.79	14346635.87	39°30'25.6517"N	80°48'38.5340"W	14.33	197.072	0.17	-0.08	-12.26	
3436.00	1.860	175.530	3435.84	-13.30	-15.57	-4.42	1693809.68	14346634.00	39°30'25.6332"N	80°48'38.5368"W	16.19	195.840	1.60	1.32	-47.21	
3525.00	4.200	141.430	3524.72	-17.77	-19.56	-2.27	1693811.73	14346630.01	39°30'25.5937"N	80°48'38.5095"W	19.69	186.628	3.21	2.63	-38.31	
3618.00	5.970	133.200	3617.35	-25.25	-25.53	3.38	1693817.38	14346624.04	39°30'25.5346"N	80°48'38.4376"W	25.76	172.467	2.05	1.90	-8.85	
3706.00	8.130	131.040	3704.68	-34.68	-32.75	11.41	1693825.40	14346616.82	39°30'25.4630"N	80°48'38.3354"W	34.68	160.798	2.47	2.45	-2.45	
3795.00	9.310	132.400	3792.65	-46.44	-41.74	21.47	1693835.46	14346607.84	39°30'25.3740"N	80°48'38.2072"W	46.94	152.779	1.35	1.33	1.53	
3883.00	9.860	133.190	3879.42	-59.35	-51.70	32.22	1693846.21	14346597.88	39°30'25.2754"N	80°48'38.0703"W	60.91	148.066	0.64	0.63	0.90	
3972.00	9.360	137.460	3967.17	-72.71	-62.24	42.67	1693856.65	14346587.34	39°30'25.1709"N	80°48'37.9373"W	75.47	145.569	0.98	-0.56	4.80	
4060.00	10.000	139.180	4053.92	-86.35	-73.30	52.50	1693866.48	14346576.29	39°30'25.0615"N	80°48'37.8121"W	90.16	144.387	0.80	0.73	1.95	
4148.00	9.900	133.130	4140.60	-100.12	-84.25	63.02	1693876.99	14346565.34	39°30'24.9530"N	80°48'37.6783"W	105.21	143.205	1.19	-0.11	-6.87	
4237.00	8.780	133.540	4228.42	-112.90	-94.16	73.53	1693887.50	14346555.43	39°30'24.8548"N	80°48'37.5445"W	119.47	142.016	1.26	-1.26	0.46	
4325.00	8.900	140.010	4315.37	-125.21	-104.01	82.77	1693896.74	14346545.60	39°30'24.7573"N	80°48'37.4268"W	132.92	141.487	1.14	0.14	7.35	
4414.00	9.770	146.050	4403.19	-138.92	-115.54	91.41	1693905.37	14346534.06	39°30'24.6431"N	80°48'37.3169"W	147.33	141.651	1.47	0.98	6.79	
4502.00	10.300	156.230	4489.85	-153.98	-128.94	98.75	1693912.71	14346520.67	39°30'24.5106"N	80°48'37.2236"W	162.41	142.552	2.10	0.60	11.57	
4591.00	9.540	148.090	4577.53	-169.09	-142.48	105.86	1693919.82	14346507.13	39°30'24.3766"N	80°48'37.1333"W	177.50	143.389	1.79	-0.85	-9.15	
4679.00	9.190	152.010	4664.36	-183.13	-154.88	113.01	1693926.97	14346494.74	39°30'24.2539"N	80°48'37.0424"W	191.73	143.883	0.83	-0.40	4.45	
4768.00	10.200	149.230	4752.08	-197.86	-167.93	120.38	1693934.33	14346481.70	39°30'24.1248"N	80°48'36.9487"W	206.62	144.365	1.25	1.13	-3.12	
4856.00	9.810	146.320	4838.75	-212.74	-180.85	128.52	1693942.47	14346468.77	39°30'23.9968"N	80°48'36.8452"W	221.87	144.602	0.73	-0.44	-3.31	
4944.00	9.840	133.340	4925.47	-226.64	-192.26	138.15	1693952.09	14346454.84	39°30'23.8839"N	80°48'36.7227"W	236.75	144.301	0.51	0.03	-14.75	
5033.00	9.620	135.680	5013.19	-240.09	-202.80	148.88	1693962.82	14346446.84	39°30'23.7796"N	80°48'36.5861"W	251.58	143.717	0.51	-0.25	2.63	
5121.00	10.350	137.170	5099.85	-253.96	-213.86	159.39	1693973.32	14346435.79	39°30'23.6700"N	80°48'36.4523"W	266.72	143.303	0.88	0.83	1.69	



Actual Wellpath Report

Vishnu Unit 1H AWP Proj: 23174'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Vishnu Unit 1H
Field	Tyler	API	47-095-02716-0000
Facility	Grand Pad	Wellbore	Vishnu Unit 1H AWB
Slot	Slot #01		

WELLPATH DATA (268 stations) † = interpolated, ‡ = extrapolated station

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude (°)	Longitude (°)	Closure Dist (ft)	Closure Dir (°)	DLS (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (°/100ft)	Comments
5210.00	10.450	145.000	5187.40	-289.02	-226.33	169.45	1693983.39	14346423.32	39°30'23.5465"N	80°48'36.3242"W	282.74	143.178	1.59	0.11	8.80	
5298.00	9.840	142.050	5274.02	-283.79	-238.80	178.65	1693992.58	14346410.85	39°30'23.4231"N	80°48'36.2071"W	298.23	143.199	0.91	-0.69	-3.35	
5387.00	9.600	135.470	5361.74	-297.67	-250.09	188.54	1694002.46	14346399.57	39°30'23.3114"N	80°48'36.0814"W	313.19	142.988	1.28	-0.27	-7.39	
5475.00	9.640	136.090	5448.51	-310.97	-260.63	198.79	1694012.71	14346389.04	39°30'23.2070"N	80°48'35.9508"W	327.79	142.666	0.73	0.05	0.70	
5563.00	10.330	142.760	5535.16	-325.13	-272.22	208.68	1694022.59	14346377.45	39°30'23.0922"N	80°48'35.8250"W	343.00	142.527	1.53	0.78	7.58	
5652.00	9.940	142.570	5622.79	-339.99	-284.67	218.18	1694032.09	14346365.00	39°30'22.9690"N	80°48'35.7042"W	358.66	142.533	0.44	-0.44	-0.21	
5745.00	10.270	141.160	5714.35	-355.40	-297.50	228.25	1694042.16	14346352.18	39°30'22.8419"N	80°48'35.5760"W	374.97	142.503	0.44	0.35	-1.52	
5833.00	10.030	136.220	5800.97	-369.72	-309.14	238.47	1694052.38	14346340.54	39°30'22.7266"N	80°48'35.4459"W	390.44	142.353	1.03	-0.27	-5.81	
5922.00	10.520	133.320	5888.54	-383.94	-320.31	249.75	1694063.65	14346329.37	39°30'22.6160"N	80°48'35.3023"W	406.17	142.057	0.80	0.55	-3.26	
6010.00	10.900	131.580	5975.01	-398.29	-331.35	261.82	1694075.71	14346318.34	39°30'22.5067"N	80°48'35.1487"W	422.30	141.686	0.57	0.43	-1.98	
6105.00	7.790	126.360	6068.74	-411.53	-341.31	273.59	1694087.48	14346308.39	39°30'22.4080"N	80°48'34.9988"W	437.42	141.285	3.32	-3.27	-3.39	BH AT Curve <8-1/2"> (6010)(6105)-23149'
6193.00	2.950	349.900	6156.51	-414.31	-342.78	277.88	1694091.77	14346306.91	39°30'22.3934"N	80°48'34.9441"W	441.27	140.970	11.58	-5.50	-157.34	
6282.00	9.830	348.620	6244.90	-404.50	-333.07	275.97	1694088.86	14346316.52	39°30'22.4894"N	80°48'34.9681"W	432.55	140.355	7.73	7.73	-1.44	
6370.00	13.850	342.130	6331.01	-386.52	-315.67	271.26	1694085.15	14346334.01	39°30'22.6614"N	80°48'35.0278"W	416.21	139.327	4.81	4.57	-7.37	
6459.00	20.590	334.400	6415.99	-360.29	-291.39	261.21	1694075.11	14346358.29	39°30'22.9017"N	80°48'35.1553"W	391.33	138.125	7.98	7.57	-8.69	
6547.00	27.770	336.960	6496.21	-324.43	-258.52	246.49	1694060.39	14346391.14	39°30'23.2268"N	80°48'35.3423"W	357.20	136.366	8.24	8.16	2.91	
6598.00†	32.003	338.769	6540.42	-299.06	-234.98	236.94	1694050.84	14346414.67	39°30'23.4596"N	80°48'35.4639"W	333.70	134.763	8.48	8.30	3.55	Sycamore: 6598' MD
6636.00	35.170	338.860	6572.08	-278.05	-215.32	229.52	1694043.43	14346434.33	39°30'23.6542"N	80°48'35.5576"W	314.71	133.171	8.48	8.34	2.87	
6724.00	42.530	340.890	6640.56	-222.90	-163.35	211.03	1694024.95	14346486.28	39°30'24.1682"N	80°48'35.7921"W	266.86	127.741	8.40	8.36	1.17	
6740.00†	44.128	340.770	6652.20	-211.92	-152.98	207.43	1694021.34	14346496.94	39°30'24.2707"N	80°48'35.8378"W	257.74	126.409	9.99	9.98	-0.75	Middlesex: 6740' MD
6813.00	51.410	340.300	6701.23	-157.91	-102.05	189.42	1694003.34	14346547.55	39°30'24.7744"N	80°48'36.0662"W	215.16	118.315	9.99	9.98	-0.64	
6897.00†	60.182	339.600	6748.41	-88.52	-36.86	165.60	1693979.53	14346612.71	39°30'25.4192"N	80°48'36.3583"W	169.65	102.550	10.47	10.44	-0.83	Burkett: 6897' MD
6961.00†	60.600	339.570	6750.38	-85.04	-33.61	164.39	1693978.32	14346615.97	39°30'25.4514"N	80°48'36.3837"W	167.79	101.554	10.47	10.45	-0.75	
6961.00†	65.164	339.652	6777.73	-31.67	16.44	145.79	1693959.73	14346665.99	39°30'25.9464"N	80°48'36.6196"W	146.71	83.566	7.61	7.61	0.14	Tully: 6961' MD
6990.00	67.370	339.990	6789.40	-5.13	41.33	136.57	1693950.51	14346690.88	39°30'26.1926"N	80°48'36.7366"W	142.68	73.161	7.61	7.61	0.13	
7078.00	71.090	341.090	6820.60	77.13	118.83	108.97	1693922.92	14346768.34	39°30'26.9591"N	80°48'37.0866"W	161.23	42.521	4.48	4.23	1.59	
7149.00†	76.398	342.218	6840.47	145.26	183.50	87.53	1693901.50	14346832.99	39°30'27.5988"N	80°48'37.3584"W	203.31	25.501	7.63	7.48	1.59	Marcellus POE: 7149' MD
7166.00	77.670	342.480	6844.28	161.82	199.29	82.51	1693896.47	14346848.77	39°30'27.7549"N	80°48'37.4220"W	215.70	22.490	7.63	7.48	1.54	
7255.00	84.150	343.340	6858.34	249.61	283.25	56.70	1693870.68	14346932.70	39°30'28.5852"N	80°48'37.7490"W	288.87	11.320	7.34	7.28	0.97	
7343.00	87.170	343.000	6864.99	337.29	367.23	31.30	1693845.28	14347016.64	39°30'29.4158"N	80°48'38.0709"W	368.56	4.871	3.45	3.43	-0.39	

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Actual Wellpath Report

Vishnu Unit 1H AWP Proj: 23174'
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REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Field	Tyler
Facility	Grand Pad
Slot	Slot #01
Well	Vishnu Unit 1H
API	47-095-02716-0000
Wellbore	Vishnu Unit 1H AWB

WELLPATH DATA (268 stations)																
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (°/100ft)	Comments
7432.00	88.710	343.790	6888.19	426.16	452.46	5.88	1693819.88	14347101.84	39°30'30.2587"N	80°48'38.3928"W	452.50	7.45	1.34	1.73	0.89	
7520.00	88.920	342.560	6870.01	514.08	536.67	-19.58	1693794.42	14347186.02	39°30'31.0915"N	80°48'38.7155"W	537.03	357.910	1.42	0.24	-1.40	
7609.00	88.490	341.480	6872.02	603.05	621.30	-47.05	1693766.97	14347270.61	39°30'31.9285"N	80°48'39.0636"W	623.08	355.669	1.31	-0.48	-1.21	
7697.00	88.520	340.970	6874.32	691.01	704.59	-75.36	1693738.67	14347353.87	39°30'32.7523"N	80°48'39.4226"W	708.61	353.895	0.58	0.03	-0.58	
7785.00	89.350	342.510	6875.96	778.99	788.14	-102.93	1693711.11	14347437.39	39°30'33.5786"N	80°48'39.7721"W	794.84	352.559	1.99	0.94	1.75	
7874.00	88.400	340.150	6877.70	867.97	872.44	-131.41	1693692.64	14347521.65	39°30'34.4123"N	80°48'40.1332"W	862.28	351.434	2.86	-1.07	-2.65	
7962.00	88.950	341.810	6879.74	955.94	955.61	-160.08	1693663.98	14347604.78	39°30'35.2349"N	80°48'40.4968"W	958.92	350.490	1.99	0.62	1.89	
8051.00	89.260	339.640	6881.13	1044.92	1039.60	-189.46	1693624.62	14347688.75	39°30'36.0656"W	80°48'40.8693"W	1056.72	349.672	2.46	0.35	-2.44	
8139.00	88.950	338.650	6882.50	1132.86	1121.83	-220.78	1693593.31	14347770.94	39°30'36.8789"N	80°48'41.2668"W	1143.34	348.866	1.18	-0.35	-1.13	
8228.00	89.230	339.430	6883.92	1221.79	1204.92	-252.61	1693561.49	14347854.00	39°30'37.7009"N	80°48'41.6707"W	1231.12	348.159	0.93	0.31	0.88	
8317.00	89.820	339.670	6884.66	1310.75	1288.31	-283.71	1693530.41	14347937.36	39°30'38.5257"N	80°48'42.0652"W	1319.18	347.581	0.72	0.66	0.27	
8405.00	89.200	341.700	6885.41	1398.74	1371.35	-312.81	1693501.31	14348020.36	39°30'39.3470"N	80°48'42.4343"W	1406.58	347.150	2.41	-0.70	2.31	
8493.00	90.660	343.460	6885.50	1486.71	1455.31	-339.15	1693474.98	14348104.29	39°30'40.1773"N	80°48'42.7682"W	1494.31	346.882	2.61	1.68	2.00	
8582.00	91.200	339.570	6884.04	1575.67	1539.69	-367.36	1693446.78	14348188.64	39°30'41.0118"N	80°48'43.1258"W	1582.91	346.580	4.41	0.58	-4.37	
8670.00	89.320	337.300	6883.64	1663.57	1621.52	-399.70	1693414.46	14348270.43	39°30'41.8213"N	80°48'43.5363"W	1670.06	346.153	3.35	-2.14	-2.58	
8759.00	89.410	340.000	6884.63	1752.47	1704.40	-432.10	1693382.07	14348353.28	39°30'42.6411"N	80°48'43.9474"W	1758.32	345.774	3.04	0.10	3.03	
8847.00	89.140	341.670	6885.74	1840.46	1787.51	-460.99	1693353.20	14348436.36	39°30'43.4631"N	80°48'44.3138"W	1846.00	345.539	1.92	-0.31	1.90	
8935.00	88.890	342.560	6887.27	1929.43	1872.20	-488.32	1693325.88	14348521.01	39°30'44.3006"N	80°48'44.6602"W	1934.83	345.382	1.04	-0.28	1.00	
9024.00	89.290	341.560	6888.67	2017.41	1956.91	-515.42	1693298.79	14348604.69	39°30'45.1285"N	80°48'45.0038"W	2022.68	345.237	1.22	0.45	-1.14	
9113.00	89.720	343.340	6889.44	2106.38	2040.76	-542.25	1693271.96	14348689.51	39°30'45.9677"N	80°48'45.3439"W	2111.57	345.120	2.06	0.48	2.00	
9201.00	89.320	343.030	6890.17	2194.32	2124.99	-567.71	1693246.52	14348773.71	39°30'46.8007"N	80°48'45.6665"W	2199.52	345.042	0.58	-0.45	-0.35	
9290.00	90.650	342.380	6890.20	2283.28	2209.97	-594.17	1693220.07	14348858.65	39°30'47.6411"N	80°48'46.0018"W	2288.45	344.951	1.66	1.49	-0.73	
9378.00	90.220	340.140	6889.53	2371.27	2293.29	-622.44	1693191.81	14348941.94	39°30'48.4652"N	80°48'46.3603"W	2376.26	344.815	2.59	-0.49	-2.55	
9467.00	89.750	338.620	6889.55	2460.23	2376.59	-653.78	1693160.48	14349025.20	39°30'49.2891"N	80°48'46.7580"W	2464.87	344.619	1.79	-0.53	-1.71	
9555.00	90.030	337.360	6889.72	2548.09	2458.17	-686.76	1693127.52	14349106.75	39°30'50.0961"N	80°48'47.1766"W	2552.30	344.391	1.47	0.32	-1.43	
9644.00	89.420	334.600	6890.15	2636.73	2539.46	-722.98	1693091.31	14349188.01	39°30'50.9002"N	80°48'47.6366"W	2640.37	344.108	3.18	-0.69	-3.10	
9732.00	89.170	336.450	6891.23	2724.30	2619.54	-759.43	1693054.87	14349268.06	39°30'51.6924"N	80°48'48.0996"W	2727.40	343.833	2.12	-0.28	2.10	
9821.00	89.510	342.810	6892.26	2813.22	2702.93	-790.40	1693023.92	14349351.41	39°30'52.5172"N	80°48'48.4925"W	2816.12	343.700	7.16	0.38	7.15	
9909.00	89.720	343.020	6892.85	2901.18	2787.04	-816.25	1692998.08	14349435.49	39°30'53.3490"N	80°48'48.8201"W	2904.11	343.676	0.34	0.24	0.24	
9998.00	89.290	341.630	6893.62	2990.15	2871.83	-843.27	1692971.07	14349520.25	39°30'54.1876"N	80°48'49.1626"W	2993.08	343.636	1.63	-0.48	-1.56	



Actual Wellpath Report

Vishnu Unit 1H AWP Proj: 23174
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REFERENCES: WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Field	Tyler
Facility	Grand Pad
Slot	Slot #01
Well	Vishnu Unit 1H
API	47-095-02716-0000
Wellbore	Vishnu Unit 1H AWB

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
10086.00	89.630	341.110	6894.45	3078.14	2955.22	-871.38	1692942.97	14349603.60	39°30'55.0123"N	80°48'49.5191"W	3081.01	343.571	0.71	0.39	-0.59	
10175.00	89.970	343.590	6894.78	3167.12	3040.02	-998.36	1692916.00	14349688.37	39°30'55.8510"N	80°48'49.8612"W	3169.98	343.537	2.81	0.38	2.79	
10352.00	89.720	344.340	6895.24	3343.89	3210.13	-947.25	1692867.12	14349658.41	39°30'57.5333"N	80°48'50.4805"W	3346.98	343.560	0.45	-0.14	0.42	
10440.00	90.030	344.000	6895.43	3431.77	3294.80	-971.26	1692843.13	14349943.04	39°30'58.3705"N	80°48'50.7848"W	3434.97	343.575	0.52	0.35	-0.39	
10529.00	89.170	343.470	6896.05	3520.67	3380.23	-986.18	1692818.21	14350028.44	39°30'59.2154"N	80°48'51.1004"W	3523.97	343.579	1.14	-0.97	-0.60	
10617.00	89.170	344.100	6897.33	3608.56	3464.72	-1020.75	1692793.65	14350112.90	39°31'00.0509"N	80°48'51.4117"W	3611.96	343.584	0.72	0.00	0.72	
10706.00	89.540	344.380	6898.33	3697.42	3550.37	-1044.93	1692769.49	14350198.51	39°31'00.8979"N	80°48'51.7178"W	3700.94	343.600	0.52	0.42	0.31	
10794.00	90.220	343.810	6898.51	3785.30	3635.00	-1069.04	1692745.38	14350283.11	39°31'11.7348"N	80°48'52.0233"W	3788.94	343.612	1.01	0.77	-0.65	
10883.00	89.350	342.850	6898.85	3874.24	3720.21	-1094.72	1692719.72	14350368.29	39°31'12.5775"N	80°48'52.3487"W	3877.94	343.603	1.63	-0.98	-1.30	
10971.00	89.420	342.390	6899.78	3962.20	3804.14	-1121.15	1692693.30	14350452.19	39°31'13.4076"N	80°48'52.6838"W	3965.92	343.579	0.31	0.08	-0.30	
11060.00	90.340	343.280	6899.98	4051.16	3889.18	-1147.42	1692667.04	14350537.19	39°31'14.2485"N	80°48'53.0167"W	4054.91	343.562	1.44	1.03	1.00	
11148.00	89.350	341.750	6900.21	4139.13	3973.11	-1173.86	1692640.61	14350621.08	39°31'15.0786"N	80°48'53.3519"W	4142.89	343.540	2.07	-1.13	-1.74	
11236.00	92.430	342.140	6898.85	4227.10	4056.75	-1201.12	1692613.36	14350704.70	39°31'15.9058"N	80°48'53.6976"W	4230.83	343.507	3.53	3.50	0.44	
11325.00	92.710	342.670	6894.86	4315.99	4141.50	-1228.00	1692586.49	14350789.41	39°31'16.7440"N	80°48'54.0383"W	4319.73	343.484	0.87	0.31	0.60	
11414.00	90.180	342.300	6892.61	4404.93	4226.34	-1254.77	1692559.73	14350874.22	39°31'17.5831"N	80°48'54.3777"W	4408.68	343.464	2.87	-2.84	-0.42	
11502.00	90.460	341.430	6892.12	4492.91	4309.97	-1282.16	1692532.35	14350957.81	39°31'18.4101"N	80°48'54.7250"W	4496.64	343.433	1.04	0.32	-0.99	
11591.00	90.180	341.490	6891.62	4581.91	4394.35	-1310.46	1692504.06	14351042.16	39°31'19.2446"N	80°48'55.0839"W	4585.59	343.395	0.32	-0.31	0.07	
11679.00	89.290	340.950	6892.03	4669.91	4477.66	-1338.79	1692475.74	14351125.44	39°31'10.0686"N	80°48'55.4432"W	4673.52	343.354	1.18	-1.01	-0.61	
11768.00	89.200	341.010	6893.20	4758.90	4561.80	-1367.79	1692446.75	14351209.54	39°31'10.9007"N	80°48'55.8111"W	4762.44	343.309	0.12	-0.10	0.07	
11856.00	89.260	341.060	6894.39	4846.89	4645.01	-1396.39	1692418.17	14351292.72	39°31'11.7238"N	80°48'56.1739"W	4850.37	343.268	0.99	0.07	0.06	
11944.00	91.020	341.740	6894.17	4934.89	4728.41	-1424.46	1692390.11	14351376.09	39°31'12.5486"N	80°48'56.5298"W	4938.32	343.235	2.14	2.00	0.77	
12033.00	89.290	341.460	6893.93	5023.88	4812.86	-1452.55	1692362.03	14351460.50	39°31'13.3838"N	80°48'56.8861"W	5027.28	343.206	1.97	-1.94	-0.31	
12121.00	89.720	338.850	6894.69	5111.86	4895.62	-1482.42	1692332.17	14351543.23	39°31'14.2023"N	80°48'57.2651"W	5115.14	343.153	3.01	0.49	-2.97	
12210.00	89.200	339.450	6895.53	5200.80	4978.79	-1514.10	1692300.51	14351626.36	39°31'15.0250"N	80°48'57.6671"W	5203.92	343.085	0.89	-0.58	0.67	
12298.00	90.710	339.360	6895.60	5288.76	5061.16	-1545.05	1692269.57	14351708.70	39°31'15.8397"N	80°48'58.0595"W	5291.74	343.024	1.72	1.72	-0.10	
12387.00	90.060	339.920	6895.00	5377.73	5144.60	-1576.01	1692238.62	14351792.11	39°31'16.6650"N	80°48'58.4529"W	5380.59	342.968	0.96	-0.73	0.63	
12475.00	92.000	342.900	6893.42	5465.70	5227.98	-1604.06	1692210.58	14351875.46	39°31'17.4896"N	80°48'58.8086"W	5468.53	342.943	4.04	2.20	3.39	
12564.00	90.150	338.980	6891.75	5554.66	5312.07	-1633.11	1692181.54	14351959.51	39°31'18.3212"N	80°48'59.1771"W	5557.44	342.911	4.87	-2.08	-4.40	
12652.00	90.980	341.240	6890.88	5642.64	5394.81	-1663.05	1692151.62	14352042.22	39°31'19.1396"N	80°48'59.5570"W	5645.32	342.867	2.74	0.94	2.57	
12741.00	91.600	340.380	6888.88	5731.61	5478.84	-1692.29	1692122.38	14352126.21	39°31'19.9707"N	80°48'59.9280"W	5734.24	342.835	1.19	0.70	-0.97	

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Actual Wellpath Report

Vishnu Unit 1H AWP Proj: 23174'
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REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Field	Tyler
Facility	Grand Pad
Slot	Slot #01
Well	Vishnu Unit 1H
API	47-095-02716-0000
Wellbore	Vishnu Unit 1H AWB

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 (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (°/100ft)	Comments
12829.00	90.980	340.410	6886.90	5819.58	5561.72	-1721.81	1692032.87	14352209.06	39°31'20.7904"N	80°49'0.3025"W	5822.14	342.798	0.71	-0.70	0.03	
12918.00	91.230	340.790	6885.18	5908.56	5645.65	-1751.37	1692063.33	14352292.96	39°31'21.6205"N	80°49'0.6775"W	5911.06	342.765	0.51	0.28	0.43	
13006.00	91.050	340.520	6883.43	5996.54	5728.66	-1780.51	1692034.20	14352375.94	39°31'22.4415"N	80°49'1.0473"W	5998.98	342.734	0.37	-0.20	-0.31	
13094.00	89.970	340.960	6882.65	6084.54	5811.73	-1809.54	1692005.18	14352458.98	39°31'23.2631"N	80°49'1.4155"W	6086.93	342.706	1.33	-1.23	0.50	
13183.00	90.770	340.240	6882.07	6173.53	5895.68	-1839.10	1691975.63	14352542.89	39°31'24.0934"N	80°49'1.7906"W	6175.86	342.675	1.21	0.90	-0.81	
13271.00	90.060	339.490	6881.43	6261.51	5978.30	-1869.39	1691945.35	14352625.47	39°31'24.9105"N	80°49'2.1750"W	6263.76	342.636	1.17	-0.81	-0.85	
13360.00	90.490	339.760	6881.01	6350.48	6061.73	-1900.38	1691914.38	14352708.87	39°31'25.7357"N	80°49'2.5682"W	6352.63	342.594	0.57	0.48	0.30	
13448.00	89.050	340.390	6881.36	6438.46	6144.45	-1930.37	1691884.40	14352791.56	39°31'26.5539"N	80°49'2.9488"W	6440.55	342.559	1.79	-1.64	0.72	
13536.00	90.460	341.030	6881.74	6526.45	6227.51	-1959.44	1691855.35	14352874.59	39°31'27.3754"N	80°49'3.3176"W	6528.50	342.534	1.76	1.60	0.73	
13625.00	92.000	340.910	6879.83	6615.43	6311.62	-1988.45	1691826.35	14352958.67	39°31'28.2073"N	80°49'3.6857"W	6617.44	342.513	1.74	1.73	-0.13	
13713.00	91.760	339.890	6878.94	6703.37	6394.48	-2017.95	1691796.85	14353041.49	39°31'29.0268"N	80°49'4.0600"W	6705.33	342.485	1.19	-0.27	-1.16	
13802.00	91.350	340.570	6874.52	6792.33	6478.20	-2048.04	1691766.77	14353125.18	39°31'29.8548"N	80°49'4.4419"W	6794.23	342.456	0.89	-0.46	0.76	
13890.00	91.380	340.170	6872.43	6880.30	6561.06	-2077.60	1691737.23	14353208.01	39°31'30.6744"N	80°49'4.8169"W	6882.15	342.429	0.46	0.03	-0.45	
13979.00	91.450	340.150	6870.23	6969.28	6644.76	-2107.80	1691707.05	14353291.67	39°31'31.5021"N	80°49'5.2001"W	6971.05	342.400	0.08	0.08	-0.02	
14067.00	90.590	340.340	6868.66	7057.23	6727.56	-2137.53	1691677.32	14353374.44	39°31'32.3211"N	80°49'5.5775"W	7058.98	342.373	1.00	-0.98	0.22	
14156.00	91.140	340.640	6867.32	7146.22	6811.44	-2167.25	1691647.61	14353458.29	39°31'33.1507"N	80°49'5.9546"W	7147.92	342.350	0.70	0.82	0.34	
14244.00	90.180	339.810	6866.31	7234.20	6894.25	-2197.02	1691617.85	14353541.06	39°31'33.9697"N	80°49'6.3323"W	7235.85	342.324	1.44	-1.09	-0.94	
14333.00	90.460	340.530	6865.81	7323.19	6977.97	-2227.22	1691587.67	14353624.74	39°31'34.7977"N	80°49'6.7155"W	7324.79	342.298	0.87	0.31	0.81	
14421.00	90.400	340.790	6865.15	7411.18	7060.98	-2256.40	1691558.50	14353707.73	39°31'35.6188"N	80°49'7.0858"W	7412.75	342.278	0.24	-0.07	0.23	
14510.00	90.080	340.770	6864.77	7500.18	7145.01	-2285.74	1691529.17	14353791.72	39°31'36.4498"N	80°49'7.4581"W	7501.72	342.260	0.35	-0.35	0.04	
14598.00	90.180	342.120	6864.56	7588.17	7228.43	-2313.75	1691501.18	14353875.11	39°31'37.2749"N	80°49'7.8133"W	7589.70	342.251	1.54	0.10	1.53	
14687.00	91.020	341.330	6863.63	7677.16	7312.94	-2341.65	1691473.28	14353959.58	39°31'38.1106"N	80°49'8.1673"W	7678.69	342.245	1.30	0.94	-0.89	
14775.00	90.860	341.450	6862.18	7765.15	7396.32	-2369.73	1691445.21	14354042.93	39°31'38.9353"N	80°49'8.5235"W	7766.67	342.235	0.23	-0.18	0.14	
14863.00	90.740	342.120	6860.96	7853.13	7479.90	-2397.24	1691417.72	14354126.48	39°31'39.7619"N	80°49'8.8723"W	7854.66	342.230	0.77	-0.14	0.76	
14952.00	90.060	340.520	6860.33	7942.13	7564.21	-2425.74	1691389.23	14354210.75	39°31'40.5957"N	80°49'9.2339"W	7943.64	342.220	1.95	-0.76	-1.80	
15040.00	90.800	340.760	6859.67	8030.12	7647.23	-2454.91	1691360.07	14354293.74	39°31'41.4168"N	80°49'9.6041"W	8031.61	342.202	0.88	0.84	0.27	
15129.00	90.150	341.070	6858.94	8119.12	7731.34	-2484.01	1691330.98	14354377.81	39°31'42.2486"N	80°49'9.9733"W	8120.58	342.188	0.81	-0.73	0.35	
15217.00	90.060	341.340	6858.77	8207.12	7814.64	-2512.36	1691302.64	14354461.09	39°31'43.0725"N	80°49'10.3330"W	8208.57	342.178	0.32	-0.10	0.31	
15305.00	90.280	341.060	6858.51	8295.12	7897.95	-2540.72	1691274.29	14354544.36	39°31'43.8964"N	80°49'10.6928"W	8296.56	342.167	0.40	0.25	-0.32	
15394.00	90.000	341.700	6858.30	8384.12	7982.29	-2569.14	1691245.89	14354628.67	39°31'44.7305"N	80°49'11.0533"W	8385.55	342.159	0.78	-0.31	0.72	

Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Field	Tyler
Facility	Grand Pad
Slot	Slot #01
Well	Vishnu Unit 1H
API	47-095-02716-0000
Wellbore	Vishnu Unit 1H AWB

WELLPATH DATA (268 stations)																
MID [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [1/100ft]	Build Rate [1/100ft]	Turn Rate [1/100ft]	Comments
15482.00	90.370	341.240	6858.01	8472.11	8065.73	-2597.10	1691217.93	14354712.07	39°31'45.555"N	80°49'11.4080"W	8473.54	342.152	0.67	0.42	-0.52	
15571.00	90.060	342.190	6857.88	8561.11	8150.23	-2625.03	1691190.02	14354796.54	39°31'46.3915"N	80°49'11.7622"W	8562.54	342.147	1.12	-0.35	1.07	
15659.00	90.340	341.190	6857.37	8649.10	8233.77	-2652.67	1691182.39	14354880.05	39°31'47.2177"N	80°49'12.1129"W	8650.53	342.143	1.18	0.32	-1.14	
15747.00	90.030	341.560	6857.09	8737.10	8317.16	-2680.78	1691134.29	14354963.41	39°31'48.0424"N	80°49'12.4695"W	8738.52	342.135	0.55	-0.35	-0.42	
15836.00	90.000	341.040	6857.06	8826.10	8401.47	-2709.31	1691105.77	14355047.68	39°31'48.8761"N	80°49'12.8315"W	8827.51	342.126	0.59	-0.03	-0.58	
15924.00	90.090	341.370	6856.99	8914.10	8484.77	-2737.66	1691077.43	14355130.95	39°31'49.7001"N	80°49'13.1912"W	8915.50	342.117	0.39	0.10	0.37	
16013.00	90.000	341.550	6856.92	9003.09	8569.15	-2765.96	1691049.14	14355215.30	39°31'50.5346"N	80°49'13.5502"W	9004.50	342.111	0.23	-0.10	0.20	
16101.00	90.400	341.880	6856.82	9091.09	8652.66	-2793.72	1691021.40	14355298.77	39°31'51.3605"N	80°49'13.9023"W	9092.49	342.106	0.48	0.45	0.15	
16190.00	90.490	341.550	6856.93	9180.08	8737.12	-2821.79	1690993.34	14355383.19	39°31'52.1957"N	80°49'14.2584"W	9181.49	342.101	0.18	0.10	-0.15	
16278.00	90.340	341.850	6855.29	9268.08	8820.66	-2849.42	1690965.72	14355466.71	39°31'53.0220"N	80°49'14.6089"W	9269.48	342.098	0.38	-0.17	0.34	
16367.00	90.740	342.500	6854.45	9357.06	8905.39	-2876.66	1690938.49	14355551.40	39°31'53.8598"N	80°49'14.9544"W	9358.48	342.098	0.86	0.45	0.73	
16455.00	90.370	341.130	6853.60	9445.04	8988.99	-2904.12	1690911.04	14355634.96	39°31'54.6866"N	80°49'15.3028"W	9446.47	342.098	1.61	-0.42	-1.56	
16544.00	90.460	341.370	6852.95	9534.04	9073.26	-2932.73	1690882.44	14355719.20	39°31'55.5201"N	80°49'15.6657"W	9535.46	342.088	0.29	0.10	0.27	
16632.00	91.200	341.560	6851.68	9622.03	9156.69	-2960.70	1690854.48	14355802.60	39°31'56.3452"N	80°49'16.0206"W	9623.44	342.082	0.87	0.84	0.22	
16721.00	90.490	341.790	6850.37	9711.01	9241.16	-2988.68	1690826.51	14355887.04	39°31'57.1806"N	80°49'16.3756"W	9712.43	342.078	0.84	-0.80	0.26	
16809.00	90.340	341.920	6849.73	9799.00	9324.78	-3016.08	1690799.12	14355970.63	39°31'58.0076"N	80°49'16.7232"W	9800.43	342.076	0.23	-0.17	0.15	
16898.00	90.430	341.490	6849.13	9888.00	9409.28	-3044.02	1690771.19	14356055.09	39°31'58.8433"N	80°49'17.0776"W	9889.42	342.073	0.49	0.10	-0.48	
16986.00	90.250	340.790	6848.61	9975.99	9492.54	-3072.51	1690742.72	14356138.32	39°31'59.6667"N	80°49'17.4391"W	9977.41	342.064	0.89	-0.20	-0.86	
17163.00	90.460	341.790	6847.51	10152.99	9660.15	-3129.39	1690685.86	14356305.86	39°32'1.3243"N	80°49'18.1608"W	10154.38	342.050	0.60	0.12	0.59	
17251.00	90.550	341.310	6846.74	10240.98	9743.62	-3157.24	1690658.02	14356389.29	39°32'2.1498"N	80°49'18.5142"W	10242.38	342.046	0.54	0.10	-0.53	
17340.00	90.650	342.010	6845.80	10329.97	9828.09	-3185.25	1690630.02	14356473.73	39°32'2.9853"N	80°49'18.8695"W	10331.37	342.043	0.79	0.11	0.79	
17428.00	90.370	340.990	6845.02	10417.96	9911.54	-3213.17	1690602.11	14356557.15	39°32'3.8106"N	80°49'19.2237"W	10419.36	342.038	1.20	-0.32	-1.16	
17517.00	90.830	341.440	6844.09	10506.96	9995.80	-3241.83	1690573.47	14356641.37	39°32'4.6438"N	80°49'19.5874"W	10508.35	342.031	0.72	0.52	0.51	
17605.00	90.590	340.810	6843.00	10594.95	10079.06	-3270.29	1690545.01	14356724.60	39°32'5.4673"N	80°49'19.9486"W	10596.33	342.024	0.77	-0.27	-0.72	
17694.00	90.340	340.950	6842.28	10683.95	10163.14	-3298.44	1690515.87	14356808.65	39°32'6.2999"N	80°49'20.3185"W	10685.31	342.014	0.32	-0.26	0.16	
17782.00	90.370	341.050	6841.73	10771.95	10246.35	-3328.09	1690487.24	14356891.82	39°32'7.1218"N	80°49'20.6821"W	10773.29	342.006	0.12	0.03	0.11	
17871.00	90.310	341.290	6841.20	10860.94	10330.58	-3356.82	1690458.52	14356976.02	39°32'7.9549"N	80°49'21.0466"W	10862.28	341.999	0.28	-0.07	0.27	
17959.00	90.620	341.170	6840.49	10948.94	10413.90	-3385.13	1690430.22	14357059.31	39°32'8.7789"N	80°49'21.4059"W	10950.27	341.993	0.38	0.35	-0.14	
18048.00	90.520	341.510	6839.60	11037.94	10488.22	-3413.61	1690401.76	14357143.59	39°32'9.6128"N	80°49'21.7672"W	11039.26	341.988	0.40	-0.11	0.38	
18136.00	90.280	341.840	6838.99	11125.93	10581.75	-3441.27	1690374.10	14357227.09	39°32'10.4399"N	80°49'22.1182"W	11127.26	341.985	0.46	-0.27	0.38	

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Actual Wellpath Report

Vishnu Unit 1H AWP Proj: 23174

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REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Field	Tyler
Facility	Grand Pad
Slot	Slot #01

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 (F/100ft)	Build Rate (F/100ft)	Turn Rate (F/100ft)	Comments
18225.00	90.520	341.250	6838.37	11214.92	10666.17	-3469.45	1690345.94	14357311.48	39°32'11.2738"N	80°49'22.4757"W	11216.25	341.982	0.72	0.27	-0.66	
18313.00	90.460	340.990	6837.61	11302.92	10749.44	-3497.92	1690317.47	14357394.71	39°32'12.0973"N	80°49'22.8370"W	11304.24	341.975	0.30	-0.07	-0.30	
18400.00	90.310	341.320	6836.02	11391.92	10833.66	-3526.67	1690288.74	14357478.90	39°32'12.9303"N	80°49'23.2018"W	11393.23	341.968	0.41	-0.17	-0.37	
18490.00	90.250	340.700	6835.59	11479.92	10916.87	-3555.30	1690260.12	14357562.08	39°32'13.7532"N	80°49'23.5652"W	11481.21	341.961	0.71	-0.07	-0.70	
18579.00	90.830	341.420	6835.75	11568.91	11001.05	-3584.19	1690231.24	14357646.22	39°32'14.5857"N	80°49'23.9318"W	11570.20	341.954	1.04	0.65	0.81	
18667.00	90.650	341.260	6834.61	11656.90	11084.42	-3612.34	1690203.10	14357729.56	39°32'15.4102"N	80°49'24.2890"W	11658.19	341.950	0.27	-0.20	-0.18	
18756.00	90.400	341.470	6833.80	11745.90	11168.75	-3640.78	1690174.67	14357813.85	39°32'16.2442"N	80°49'24.6499"W	11747.18	341.945	0.37	-0.28	0.24	
18844.00	90.030	341.660	6833.46	11833.90	11252.23	-3668.61	1690146.86	14357897.30	39°32'17.0698"N	80°49'25.0030"W	11835.17	341.942	0.47	-0.42	0.22	
18933.00	90.030	341.130	6833.42	11922.89	11336.58	-3697.00	1690118.47	14357981.62	39°32'17.9040"N	80°49'25.3633"W	11924.17	341.938	0.60	0.00	-0.60	
19021.00	90.460	340.690	6833.04	12010.89	11419.74	-3725.78	1690089.70	14358064.74	39°32'18.7265"N	80°49'25.7286"W	12012.15	341.931	0.70	0.49	-0.50	
19110.00	90.800	341.240	6832.06	12099.89	11503.87	-3754.81	1690060.69	14358148.84	39°32'19.5585"N	80°49'26.0969"W	12101.14	341.924	0.73	0.38	0.62	
19198.00	90.460	341.010	6831.10	12187.88	11587.13	-3783.27	1690032.23	14358232.07	39°32'20.3819"N	80°49'26.4582"W	12189.12	341.918	0.47	-0.39	-0.26	
19287.00	90.800	341.220	6830.12	12276.88	11671.33	-3812.08	1690003.44	14358316.24	39°32'21.2147"N	80°49'26.8238"W	12278.11	341.912	0.45	0.38	0.24	
19375.00	90.650	341.540	6829.00	12364.87	11754.72	-3840.17	1689975.36	14358399.59	39°32'22.0394"N	80°49'27.1803"W	12366.10	341.908	0.40	-0.17	0.36	
19464.00	90.370	341.330	6828.21	12453.86	11839.08	-3868.51	1689947.03	14358483.92	39°32'22.8737"N	80°49'27.5398"W	12455.09	341.905	0.39	-0.31	-0.24	
19552.00	90.520	341.820	6827.53	12541.86	11922.87	-3896.32	1689919.23	14358567.38	39°32'23.6994"N	80°49'27.8928"W	12543.09	341.902	0.58	0.17	0.56	
19641.00	90.490	341.800	6826.74	12630.85	12007.12	-3924.10	1689891.46	14358651.89	39°32'24.5355"N	80°49'28.2453"W	12632.08	341.902	0.04	-0.03	-0.02	
19729.00	90.280	340.700	6826.15	12718.84	12090.45	-3952.39	1689863.19	14358735.19	39°32'25.3596"N	80°49'28.6042"W	12720.07	341.897	1.27	-0.24	-1.25	
19818.00	90.490	341.330	6825.55	12807.84	12174.90	-3981.34	1689834.25	14358819.31	39°32'26.1919"N	80°49'28.9717"W	12809.06	341.891	0.75	0.24	0.71	
19906.00	90.430	341.070	6824.85	12895.84	12257.89	-4009.74	1689805.56	14358902.57	39°32'27.0157"N	80°49'29.3321"W	12897.05	341.886	0.36	-0.07	-0.35	
19994.00	90.060	339.890	6824.47	12983.83	12340.82	-4039.18	1689776.44	14358985.46	39°32'27.8358"N	80°49'29.7058"W	12985.02	341.877	1.35	-0.42	-1.28	
20083.00	90.490	340.340	6824.04	13072.81	12424.51	-4069.45	1689746.18	14359069.12	39°32'28.6635"N	80°49'30.0901"W	13073.98	341.865	0.70	0.48	0.51	
20171.00	90.310	339.680	6823.43	13160.79	12507.21	-4099.53	1689716.11	14359151.78	39°32'29.4814"N	80°49'30.4720"W	13161.93	341.852	0.78	-0.20	-0.75	
20260.00	90.280	340.590	6822.97	13249.78	12590.91	-4129.77	1689685.88	14359235.45	39°32'30.3093"N	80°49'30.8560"W	13250.89	341.841	1.02	-0.03	1.02	
20348.00	90.460	339.820	6822.40	13337.77	12673.71	-4159.57	1689656.09	14359318.21	39°32'31.1281"N	80°49'31.2343"W	13338.85	341.830	0.90	0.20	-0.88	
20437.00	90.280	339.650	6821.83	13426.74	12757.20	-4190.40	1689625.27	14359401.67	39°32'31.9539"N	80°49'31.6257"W	13427.79	341.816	0.28	-0.20	-0.19	
20525.00	90.860	340.150	6820.95	13514.72	12839.83	-4220.64	1689595.04	14359484.27	39°32'32.7712"N	80°49'32.0097"W	13515.73	341.804	0.87	0.66	0.57	
20614.00	90.920	340.870	6819.57	13603.70	12923.72	-4250.33	1689565.37	14359568.13	39°32'33.6008"N	80°49'32.3866"W	13604.70	341.795	0.81	0.07	0.81	
20702.00	90.280	339.950	6818.65	13691.69	13006.62	-4279.83	1689535.87	14359651.00	39°32'34.4207"N	80°49'32.7611"W	13692.67	341.786	1.27	-0.73	-1.05	
20790.00	90.580	340.520	6817.99	13779.67	13089.44	-4309.59	1689506.13	14359733.78	39°32'35.2398"N	80°49'33.1389"W	13780.63	341.776	0.73	0.34	0.65	

Actual Wellpath Report

Vishnu Unit 1H AWP Proj: 23174'
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Operator		ANTERO RESOURCES CORPORATION	
Field	Tyler	Well	Vishnu Unit 1H
Facility	Grand Pad	API	47-095-02716-0000
Slot	Slot #01	Wellbore	Vishnu Unit 1H AWB

WELLPATH DATA (268 stations) † = interpolated, ‡ = extrapolated station																
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (°/100ft)	Comments
20679.00	90.370	340.710	6817.25	13868.67	13173.39	-4339.13	1689476.60	14359817.69	39°32'36.0700"N	80°49'33.5139"W	13869.61	341.769	0.32	-0.24	0.21	
20967.00	90.520	339.790	6816.57	13956.65	13256.21	-4399.86	1689446.88	14359900.48	39°32'36.8892"N	80°49'33.8914"W	13957.58	341.759	1.06	0.17	-1.05	
21056.00	90.370	339.800	6815.88	14045.63	13339.73	-4399.80	1689416.15	14359983.97	39°32'37.7152"N	80°49'34.2817"W	14046.52	341.747	0.17	-0.17	0.01	
21144.00	90.370	340.760	6815.31	14133.62	13422.56	-4429.29	1689386.47	14360066.77	39°32'38.5345"N	80°49'34.6587"W	14134.49	341.738	1.09	0.00	1.09	
21233.00	90.220	340.130	6814.85	14222.61	13506.43	-4459.08	1689356.70	14360150.60	39°32'39.3639"N	80°49'35.0369"W	14223.47	341.730	0.73	-0.17	-0.71	
21321.00	90.740	340.970	6814.11	14310.60	13589.40	-4488.38	1689327.41	14360233.54	39°32'40.1845"N	80°49'35.4089"W	14311.45	341.722	1.12	0.59	0.95	
21409.00	90.430	340.350	6813.21	14398.59	13672.43	-4517.53	1689298.28	14360316.54	39°32'41.0057"N	80°49'35.7788"W	14399.42	341.716	0.79	-0.35	-0.70	
21498.00	90.620	340.680	6812.40	14487.58	13756.33	-4547.21	1689268.60	14360400.41	39°32'41.8354"N	80°49'36.1587"W	14488.40	341.708	0.43	0.21	0.37	
21586.00	90.520	340.180	6811.52	14575.57	13839.24	-4576.69	1689239.14	14360483.29	39°32'42.6554"N	80°49'36.5299"W	14576.38	341.701	0.58	-0.11	-0.57	
21763.00	91.290	340.540	6809.56	14752.54	14005.75	-4636.88	1689179.17	14360566.93	39°32'43.4830"N	80°49'36.9146"W	14665.34	341.691	0.25	-0.17	-0.19	
21852.00	90.620	340.310	6808.07	14841.52	14089.59	-4666.50	1689149.36	14360649.73	39°32'44.3022"N	80°49'37.2917"W	14753.30	341.683	1.21	1.05	0.60	
21940.00	90.340	340.390	6807.34	14929.51	14172.47	-4696.09	1689119.78	14360733.54	39°32'45.1314"N	80°49'37.6702"W	14842.27	341.675	0.80	-0.75	-0.26	
22029.00	90.400	340.430	6806.76	15018.50	14256.31	-4725.93	1689089.96	14360816.38	39°32'45.9510"N	80°49'38.0459"W	14930.24	341.667	0.33	-0.32	0.09	
22117.00	90.460	340.590	6806.10	15108.49	14339.27	-4755.29	1689060.61	14360900.19	39°32'46.7803"N	80°49'38.4247"W	15019.22	341.660	0.08	0.07	0.14	
22206.00	90.460	340.540	6805.39	15195.49	14423.19	-4784.90	1689031.01	14361067.00	39°32'47.6007"N	80°49'38.7975"W	15107.20	341.653	0.19	0.07	0.18	
22294.00	90.430	339.800	6804.70	15283.47	14505.97	-4814.75	1689001.17	14361149.75	39°32'48.4307"N	80°49'39.1735"W	15196.18	341.647	0.06	0.00	-0.06	
22383.00	90.460	339.950	6804.01	15372.45	14588.54	-4845.37	1688970.56	14361233.28	39°32'49.2494"N	80°49'39.5525"W	15284.15	341.638	0.84	-0.03	-0.84	
22471.00	90.620	340.190	6803.18	15460.43	14672.26	-4875.37	1688940.58	14361315.97	39°32'50.0759"N	80°49'39.9413"W	15373.10	341.628	0.17	0.03	0.17	
22560.00	90.430	340.430	6802.37	15549.42	14756.06	-4905.35	1688910.60	14361399.73	39°32'50.8940"N	80°49'40.3222"W	15461.06	341.619	0.33	0.18	0.27	
22648.00	90.460	340.680	6801.68	15637.41	14839.03	-4934.65	1688881.32	14361482.68	39°32'51.7227"N	80°49'40.7030"W	15550.04	341.612	0.34	-0.21	0.27	
22737.00	90.680	340.440	6800.80	15726.40	14922.96	-4964.27	1688851.71	14361566.56	39°32'52.5434"N	80°49'41.0749"W	15638.02	341.606	0.29	0.03	0.28	
22825.00	90.430	341.070	6799.95	15814.40	15006.02	-4993.32	1688822.68	14361649.59	39°32'53.3734"N	80°49'41.4510"W	15727.00	341.600	0.37	0.25	-0.27	
22913.00	90.430	339.880	6799.29	15902.39	15088.94	-5022.77	1688793.23	14361732.48	39°32'54.1949"N	80°49'41.8197"W	15814.98	341.595	0.71	-0.28	0.65	
23002.00	90.490	340.240	6798.57	15991.37	15172.60	-5053.12	1688762.89	14361816.11	39°32'55.0149"N	80°49'42.1937"W	15902.96	341.589	1.28	0.00	-1.28	
23090.00	90.370	340.380	6797.91	16079.36	15255.45	-5082.77	1688733.26	14361898.93	39°32'55.8424"N	80°49'42.5791"W	15991.93	341.580	0.41	0.07	0.40	
23149.00	90.250	340.820	6797.59	16138.35	15311.10	-5102.37	1688713.67	14361981.16	39°32'56.6618"N	80°49'42.9556"W	16079.91	341.573	0.21	-0.14	0.16	
23174.00	90.250	340.820	6797.48	16183.35	15394.71	-5110.58	1688705.46	14361978.16	39°32'57.4457"N	80°49'43.3087"W	16163.89	341.568	0.00	0.00	0.00	Projected MD at TD: 23174'

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Actual Wellpath Report

Vishnu Unit 1H AWP Proj: 23174'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Vishnu Unit 1H
Field	Tyler	API	47-095-02716-0000
Facility	Grand Pad	Wellbore	Vishnu Unit 1H AWB
Slot	Slot #01		

HOLE & CASING SECTIONS - Ref Wellbore: Vishnu Unit 1H AWB Ref Wellpath: Vishnu Unit 1H AWP Proj: 23174'										
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]	End E/W [ft]
20in Conductor	25.50	105.50	80.00	25.50	105.50	0.00	0.00	0.14	0.00	0.43
17.5in Open Hole	105.50	404.00	298.50	105.50	403.99	0.14	0.43	0.30	0.30	2.75
13.375in Casing Surface	25.50	383.90	358.40	25.50	383.89	0.00	0.00	0.36	0.36	2.66
12.25in Open Hole	404.00	2601.00	2197.00	403.99	2600.93	0.30	2.75	-7.95	2.75	3.80
9.625in Casing Intermediate	25.50	2464.50	2439.00	25.50	2464.44	0.00	0.00	-7.17	0.00	4.93
8.75in Open Hole	2601.00	6076.00	3475.00	2600.93	6040.04	-7.95	3.80	-338.68	3.80	270.35
8.5in Open Hole	6076.00	23174.00	17098.00	6040.04	6797.48	-338.68	270.35	15334.71	270.35	-5110.58
5.5in Casing Production	25.50	23174.00	23148.50	25.50	6797.48	0.00	0.00	15334.71	0.00	-5110.58

TARGETS									
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape	
Vishnu Unit 1H POE Rev-2	6834.00	171.77	109.61	1693923.56	14346821.26	39°30'27.4823"N	80°48'37.0770"W	point	
Vishnu Unit 1H BHL Rev-2	6860.00	15360.04	-5091.92	1688724.11	14362003.47	39°32'57.6956"N	80°49'43.0698"W	point	
Vishnu Unit 1H L/P Rev-2	6860.00	352.68	47.65	1693861.63	14347002.10	39°30'29.2716"N	80°48'37.8628"W	point	
Vishnu Unit 1H 50' L/R Hard Line	7000.00	7765.90	-2491.16	1691323.84	14354412.37	39°31'42.5904"N	80°49'10.0636"W	rectangle	
2D Rectangle 16054.3 x 100.									



Actual Wellpath Report
 Vishnu Unit 1H AWP Proj: 23174'
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REFERENCE WELL PATH ID: 23174-1 (61010)	
Operator	ANTERO RESOURCES CORPORATION
Field	Tyler
Facility	Grand Pad
Slot	Slot #01
Well	Vishnu Unit 1H
API	47-095-02716-0000
Wellbore	Vishnu Unit 1H AWB

WELLPATH COMPOSITION - Ref Wellbore: Vishnu Unit 1H AWB		Ref Wellpath: Vishnu Unit 1H AWP Proj: 23174'	
Start MD	End MD	Log Name/Comment	Wellbore
25.50	386.00	Gyrodatta 2015 - CT+WIR+DPIPE	
386.00	2523.00	BH NavITrak (2019) (Axial Corr+HRGM)	Vishnu Unit 1H AWB
2523.00	6010.00	BH NavITrak (2019) (Axial Corr+HRGM)	Vishnu Unit 1H AWB
6010.00	23174.00	BH AutoTrak CurveXpress (2019) (HRGM, Short spacing)	Vishnu Unit 1H AWB
		01_Gyrodatta MS Gyro <17-1/2"> (100'-386')	04/Mar/2021
		02_APS EM <12-1/4"> (386') (418'-2523')	04/Mar/2021
		03_APS EM <8-3/4"> (2523') (2550'-6010')	20/Apr/2021
		04_BH AT Curve <8-1/2"> (6010') (6105'-23149')	20/Apr/2021

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Actual Wellpath Report

Vishnu Unit 1H AWP Proj: 23174'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Vishnu Unit 1H
Field	Tyler	API	47-095-02716-0000
Facility	Grand Pad	Wellbore	Vishnu Unit 1H AWB
Slot	Slot #01		

COMMENTS
<p>Wellpath general comments</p> <p>API: 47-095-02716-0000 BH Job #: 110784740 Rig: H&P 317 Duration: 4/22/2021-4/27/2021 Gyrodatta MS Gyro <17-1/2"> (100'-386') APS EM <12-1/4"> (386')(418'-2523') APS EM <8-3/4"> (2523')(2550'-6010') BH AT Curve <8-1/2"> (6010')(6105'-23149') Sycamore: 6598' MD Middlesex: 6740' MD Burkett: 6897' MD Tully: 6961' MD Marcellus POE: 7149' MD Projected MDT TD: 23174'</p>