

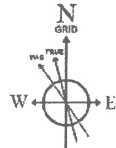


ANTERO RESOURCES CORPORATION



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

Slot: Slot #06
Well: Pechora Unit 2H
Wellbore: Pechora Unit 2H PWB



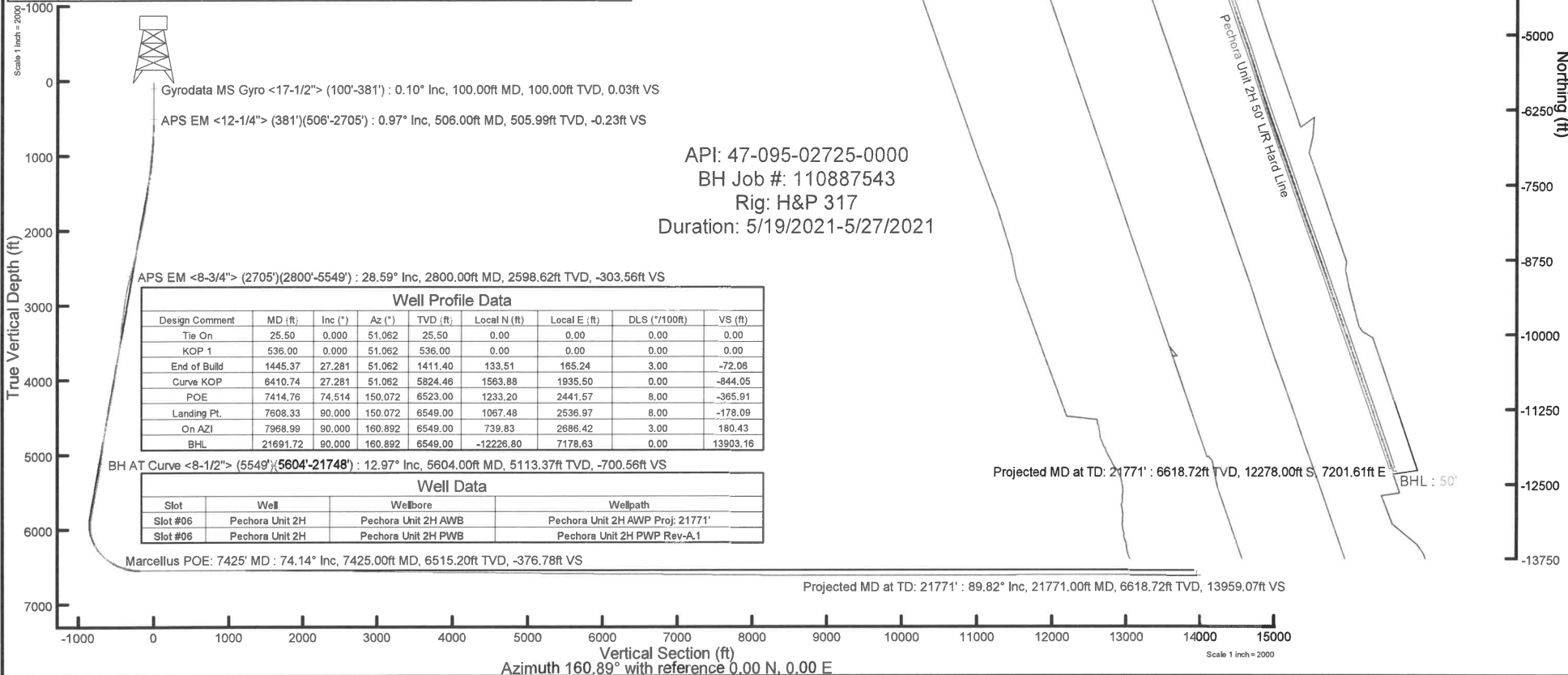
User specified (HDGM) Dip: 66.46° Field: 51745 nT
Magnetic North is 7.35 degrees West of True North (at 14/May/2021)
Grid North is 0.09 degrees East of True North
To correct azimuth from True to Grid subtract 0.09 degrees
To correct azimuth from Magnetic to Grid subtract 7.44 degrees



BH AT Curve <8-1/2"> (5549')(5604'-21748') : 5113.37ft TVD, 1300.99ft N, 1615.03ft E
Marcellus POE: 7425' MD : 6515.20ft TVD, 1250.45ft N, 2458.16ft E
APS EM <8-3/4"> (2705')(2800'-5549') : 2598.62ft TVD, 545.27ft N, 646.54ft E
APS EM <12-1/4"> (381')(506'-2705') : 505.99ft TVD, 0.06ft N, 0.52ft W
Gyrodata MS Gyro <17-1/2"> (100'-381') : 100.00ft TVD, 0.01ft S, 0.06ft E Slot #06

Plot reference wellpath is Pechora Unit 2H PWP Rev-A.1	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: 1029.5 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot #06): -1004 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edsaryn on 2021-06-09; Database: WA_MPL_EASTERNUS_Defn

Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Blizzard Pad	1682398.190	14343430.420	39°29'54.1703"N	80°51'4.2494"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot #06	54.69	51.29	1682449.460	14343485.090
H&P 317 (RKB) to Ground level (At Slot: Slot #06)	25.5ft			
Mean Sea Level to Ground level (At Slot: Slot #06)	-1004ft			
H&P 317 (RKB) to Mean Sea Level	1029.5ft			



Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	25.50	0.000	51.062	25.50	0.00	0.00	0.00	0.00
KOP 1	536.00	0.000	51.062	536.00	0.00	0.00	0.00	0.00
End of Build	1445.37	27.281	51.062	1411.40	133.51	165.24	3.00	-72.06
Curve KOP	6410.74	27.281	51.062	5824.46	1563.88	1935.50	0.00	-844.05
POE	7414.76	74.514	150.072	6523.00	1233.20	2441.57	8.00	-365.91
Landing Pt.	7608.33	90.000	150.072	6549.00	1067.48	2536.97	8.00	-178.09
On AZI	7968.99	90.000	160.892	6549.00	739.83	2686.42	3.00	180.43
BHL	21691.72	90.000	160.892	6549.00	-12228.80	7178.63	0.00	13803.16

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #06	Pechora Unit 2H	Pechora Unit 2H AWB	Pechora Unit 2H AWP Proj: 21771'
Slot #06	Pechora Unit 2H	Pechora Unit 2H PWB	Pechora Unit 2H PWP Rev-A.1



Actual Wellpath Report

Pechora Unit 2H AWP Proj: 21771'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Pechora Unit 2H
Field	Tyler	API	47-095-02725-0000
Facility	Blizzard Pad	Wellbore	Pechora Unit 2H AWB
Slot	Slot #06		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999602	Report Generated	09/Jun/2021 at 17:21
Convergence at slot	0.09° 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	54.69	51.29	1682449.46	14343485.09	39°29'54.7100"N	80°51'3.5940"W
Facility Reference Pt			1682398.19	14343430.42	39°29'54.1703"N	80°51'4.2494"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	1029.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level	1029.50ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot #06)	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	160.89°



Actual Wellpath Report

Pechora Unit 2H AWP Proj: 21771'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Pechora Unit 2H
Field	Tyler	API	47-095-02725-0000
Facility	Blizzard Pad	Wellbore	Pechora Unit 2H AWB
Slot	Slot #06		

WELLPATH DATA (239 stations) † = interpolated, ‡ = extrapolated station																
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(US ft)	(US ft)			(ft)	(°)	("/100ft)	("/100ft)	("/100ft)	
0.00†	0.000	100.780	0.00	0.00	0.00	0.00	1682449.46	14343485.09	39°29'54.7100"N	80°51'3.5940"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	100.780	25.50	0.00	0.00	0.00	1682449.46	14343485.09	39°29'54.7100"N	80°51'3.5940"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.100	100.780	100.00	0.03	-0.01	0.06	1682449.52	14343485.08	39°29'54.7099"N	80°51'3.5932"W	0.07	100.780	0.13	0.13	0.00	Gyrodata MS Gyro <17-1/2"> (100'-381')
200.00	0.090	108.360	200.00	0.12	-0.05	0.22	1682449.68	14343485.04	39°29'54.7095"N	80°51'3.5912"W	0.23	103.358	0.02	-0.01	7.58	
300.00	0.280	222.080	300.00	0.29	-0.26	0.13	1682449.59	14343484.83	39°29'54.7074"N	80°51'3.5923"W	0.29	152.512	0.33	0.19	113.72	
381.00	0.440	222.100	381.00	0.53	-0.64	-0.21	1682449.25	14343484.45	39°29'54.7037"N	80°51'3.5967"W	0.67	197.940	0.20	0.20	0.02	
506.00	0.970	0.610	505.99	-0.23	0.06	-0.52	1682448.94	14343485.15	39°29'54.7106"N	80°51'3.6006"W	0.52	277.161	1.07	0.42	110.81	APS EM <12-1/4"> (381')(506'-2705')
596.00	2.820	21.880	595.94	-2.62	2.88	0.32	1682449.78	14343487.97	39°29'54.7385"N	80°51'3.5899"W	2.90	6.268	2.16	2.06	23.63	
686.00	4.430	33.920	685.76	-6.38	7.82	3.08	1682452.54	14343492.91	39°29'54.7872"N	80°51'3.5545"W	8.41	21.505	1.97	1.79	13.38	
777.00	6.550	40.640	776.34	-11.11	14.68	8.42	1682457.88	14343499.76	39°29'54.8549"N	80°51'3.4862"W	16.92	29.854	2.43	2.33	7.38	
868.00	9.160	40.190	866.48	-17.42	24.15	16.48	1682465.93	14343509.23	39°29'54.9484"N	80°51'3.3833"W	29.24	34.310	2.87	2.87	-0.49	
958.00	11.260	41.980	955.05	-25.33	36.16	26.98	1682476.43	14343521.23	39°29'55.0669"N	80°51'3.2491"W	45.11	36.732	2.36	2.33	1.99	
1048.00	13.030	46.980	1043.03	-33.69	49.61	40.28	1682489.72	14343534.68	39°29'55.1996"N	80°51'3.0792"W	63.90	39.072	2.29	1.97	5.56	
1143.00	14.390	51.240	1135.32	-42.00	64.31	57.31	1682506.75	14343549.37	39°29'55.3446"N	80°51'2.8615"W	86.14	41.708	1.78	1.43	4.48	
1237.00	17.160	54.420	1225.78	-49.86	79.69	77.70	1682527.13	14343564.75	39°29'55.4963"N	80°51'2.6011"W	111.31	44.276	3.09	2.95	3.38	
1332.00	18.430	57.020	1316.23	-57.44	96.02	101.70	1682551.12	14343581.07	39°29'55.6573"N	80°51'2.2946"W	139.87	46.645	1.58	1.34	2.74	
1428.00	19.960	57.060	1406.89	-64.99	113.19	128.18	1682577.59	14343598.24	39°29'55.8266"N	80°51'1.9565"W	171.01	48.554	1.59	1.59	0.04	
1522.00	22.950	55.300	1494.37	-73.75	132.36	156.72	1682606.12	14343617.39	39°29'56.0155"N	80°51'1.5920"W	205.13	49.818	3.25	3.18	-1.87	
1617.00	26.100	52.230	1580.79	-85.42	155.71	188.48	1682637.86	14343640.73	39°29'56.2458"N	80°51'1.1864"W	244.47	50.439	3.58	3.32	-3.23	
1712.00	28.870	51.790	1665.06	-99.61	182.70	223.02	1682672.39	14343667.71	39°29'56.5120"N	80°51'0.7452"W	288.30	50.676	2.92	2.92	-0.46	
1807.00	29.420	51.460	1748.03	-114.88	211.42	259.29	1682708.65	14343696.42	39°29'56.7953"N	80°51'0.2819"W	334.56	50.807	0.60	0.58	-0.35	
1902.00	30.170	51.760	1830.47	-130.46	240.73	296.29	1682745.64	14343725.73	39°29'57.0844"N	80°50'59.8092"W	381.76	50.907	0.80	0.79	0.32	
1997.00	31.540	52.570	1912.02	-146.10	270.61	334.78	1682784.10	14343755.59	39°29'57.3790"N	80°50'59.3177"W	430.47	51.050	1.51	1.44	0.85	
2091.00	31.600	52.280	1992.11	-161.69	300.62	373.78	1682823.09	14343785.59	39°29'57.6750"N	80°50'58.8195"W	479.67	51.191	0.17	0.06	-0.31	
2186.00	32.140	51.360	2072.79	-178.08	331.63	413.21	1682862.50	14343816.59	39°29'57.9808"N	80°50'58.3159"W	529.83	51.250	0.76	0.57	-0.97	
2281.00	32.090	51.290	2153.26	-194.99	363.19	452.63	1682901.91	14343848.13	39°29'58.2921"N	80°50'57.8122"W	580.33	51.257	0.07	-0.05	-0.07	
2375.00	31.810	49.730	2233.02	-212.31	394.82	491.02	1682940.29	14343879.75	39°29'58.6040"N	80°50'57.3219"W	630.07	51.198	0.93	-0.30	-1.66	
2470.00	31.180	48.060	2314.02	-230.89	427.44	528.42	1682977.67	14343912.36	39°29'58.9258"N	80°50'56.8441"W	679.65	51.031	1.13	-0.66	-1.76	
2565.00	31.260	46.760	2395.27	-250.51	460.76	564.67	1683013.90	14343945.67	39°29'59.2546"N	80°50'56.3810"W	728.80	50.786	0.71	0.08	-1.37	
2660.00	30.580	45.030	2476.77	-271.12	494.73	599.72	1683048.94	14343979.62	39°29'59.5897"N	80°50'55.9331"W	777.45	50.480	1.18	-0.72	-1.82	



Actual Wellpath Report

Pechora Unit 2H AWP Proj: 21771'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Pechora Unit 2H
Field	Tyler	API	47-095-02725-0000
Facility	Blizzard Pad	Wellbore	Pechora Unit 2H AWB
Slot	Slot #06		

WELLPATH DATA (239 stations)																
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]	
2705.00	29.760	43.750	2515.67	-281.21	510.88	615.54	1683064.76	14343995.77	39°29'59.7491"N	80°50'55.7309"W	799.94	50.308	2.32	-1.82	-2.84	
2800.00	28.590	40.240	2598.62	-303.56	545.27	646.54	1683095.74	14344030.14	39°30'0.0884"N	80°50'55.3348"W	845.77	49.857	2.18	-1.23	-3.69	APS EM <8-3/4"> (2705')(2800'-5549')
2895.00	27.760	40.710	2682.37	-326.27	579.39	675.65	1683124.84	14344064.25	39°30'0.4252"N	80°50'54.9627"W	890.06	49.386	0.90	-0.87	0.49	
2990.00	25.990	44.190	2767.11	-346.75	611.09	704.59	1683153.77	14344095.94	39°30'0.7380"N	80°50'54.5928"W	932.68	49.065	2.49	-1.86	3.66	
3089.00	24.740	48.590	2856.57	-364.35	640.35	735.25	1683184.42	14344125.19	39°30'1.0267"N	80°50'54.2010"W	975.01	48.946	2.28	-1.26	4.44	
3184.00	25.120	53.360	2942.73	-377.97	665.54	766.35	1683215.50	14344150.36	39°30'1.2751"N	80°50'53.8038"W	1015.00	49.027	2.15	0.40	5.02	
3278.00	25.340	56.580	3027.76	-388.96	688.53	799.15	1683248.29	14344173.34	39°30'1.5017"N	80°50'53.3849"W	1054.85	49.253	1.48	0.23	3.43	
3373.00	24.430	54.130	3113.94	-399.65	711.23	832.04	1683281.16	14344196.04	39°30'1.7256"N	80°50'52.9649"W	1094.60	49.476	1.45	-0.96	-2.58	
3468.00	24.460	54.870	3200.43	-410.74	734.06	864.04	1683313.15	14344218.86	39°30'1.9507"N	80°50'52.5561"W	1133.76	49.650	0.32	0.03	0.78	
3562.00	25.890	56.580	3285.50	-421.18	756.57	897.09	1683346.19	14344241.35	39°30'2.1726"N	80°50'52.1340"W	1173.52	49.857	1.71	1.52	1.82	
3657.00	26.220	59.450	3370.85	-430.47	778.66	932.47	1683381.56	14344263.44	39°30'2.3903"N	80°50'51.6822"W	1214.83	50.137	1.37	0.35	3.02	
3751.00	27.170	58.620	3454.83	-439.15	800.39	968.68	1683417.75	14344285.16	39°30'2.6045"N	80°50'51.2198"W	1256.57	50.434	1.09	1.01	-0.88	
3846.00	27.360	57.660	3539.27	-448.76	823.36	1005.64	1683454.70	14344308.12	39°30'2.8309"N	80°50'50.7478"W	1299.71	50.691	0.50	0.20	-1.01	
3940.00	27.280	55.810	3622.79	-459.31	847.02	1041.71	1683490.75	14344331.77	39°30'3.0641"N	80°50'50.2871"W	1342.61	50.885	0.91	-0.09	-1.97	
4035.00	28.090	53.610	3706.92	-471.61	872.53	1077.73	1683526.75	14344357.27	39°30'3.3156"N	80°50'49.8272"W	1386.65	51.006	1.37	0.85	-2.32	
4129.00	28.140	54.270	3789.82	-484.53	898.60	1113.54	1683562.55	14344383.33	39°30'3.5727"N	80°50'49.3698"W	1430.89	51.097	0.34	0.05	0.70	
4223.00	27.590	53.810	3872.92	-497.26	924.40	1149.10	1683598.10	14344409.12	39°30'3.8271"N	80°50'48.9156"W	1474.77	51.185	0.63	-0.59	-0.49	
4318.00	27.510	53.820	3957.15	-510.16	950.34	1184.56	1683633.55	14344435.05	39°30'4.0829"N	80°50'48.4626"W	1518.66	51.261	0.08	-0.08	0.01	
4412.00	27.800	55.460	4040.41	-522.37	975.58	1220.14	1683669.11	14344460.28	39°30'4.3318"N	80°50'48.0081"W	1562.21	51.355	0.87	0.31	1.74	
4507.00	28.110	52.370	4124.33	-535.37	1001.81	1256.12	1683705.07	14344486.50	39°30'4.5904"N	80°50'47.5486"W	1606.69	51.426	1.56	0.33	-3.25	
4601.00	27.840	49.310	4207.35	-550.48	1029.64	1290.30	1683739.24	14344514.32	39°30'4.8649"N	80°50'47.1120"W	1650.77	51.411	1.55	-0.29	-3.26	
4694.00	28.460	50.730	4289.35	-566.10	1057.83	1323.92	1683772.85	14344542.49	39°30'5.1429"N	80°50'46.6824"W	1694.63	51.375	0.98	0.67	1.53	
4788.00	28.440	51.510	4372.00	-581.25	1085.94	1358.78	1683807.70	14344570.59	39°30'5.4201"N	80°50'46.2371"W	1739.41	51.368	0.40	-0.02	0.83	
4887.00	28.770	50.430	4458.92	-597.40	1115.78	1395.60	1683844.50	14344600.43	39°30'5.7145"N	80°50'45.7668"W	1786.80	51.358	0.62	0.33	-1.09	
4982.00	28.800	48.480	4542.18	-614.12	1145.52	1430.35	1683879.24	14344630.15	39°30'6.0077"N	80°50'45.3228"W	1832.52	51.310	0.99	0.03	-2.05	
5076.00	27.590	47.960	4625.03	-631.23	1175.10	1463.47	1683912.35	14344659.72	39°30'6.2996"N	80°50'44.8996"W	1876.87	51.237	1.31	-1.29	-0.55	
5170.00	25.520	48.210	4709.11	-647.52	1203.18	1494.74	1683943.60	14344687.79	39°30'6.5765"N	80°50'44.5001"W	1918.82	51.168	2.21	-2.20	0.27	
5265.00	24.150	52.250	4795.33	-661.62	1228.72	1525.37	1683974.22	14344713.31	39°30'6.8284"N	80°50'44.1088"W	1958.70	51.148	2.29	-1.44	4.25	
5360.00	22.660	57.930	4882.52	-671.94	1250.33	1556.25	1684005.09	14344734.92	39°30'7.0415"N	80°50'43.7144"W	1996.31	51.221	2.84	-1.57	5.98	
5454.00	20.570	51.390	4969.92	-681.52	1270.26	1584.50	1684033.33	14344754.84	39°30'7.2380"N	80°50'43.3535"W	2030.81	51.282	3.39	-2.22	-6.96	



Actual Wellpath Report

Pechora Unit 2H AWP Proj: 21771'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Pechora Unit 2H
Field	Tyler	API	47-095-02725-0000
Facility	Blizzard Pad	Wellbore	Pechora Unit 2H AWB
Slot	Slot #06		

WELLPATH DATA (239 stations) † = interpolated, ‡ = extrapolated station																
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]	
5549.00	15.980	42.520	5060.12	-693.31	1290.32	1606.40	1684055.22	14344774.90	39°30'7.4359"N	80°50'43.0738"W	2060.45	51.227	5.64	-4.83		-9.34
5604.00	12.970	34.630	5113.37	-700.56	1300.99	1615.03	1684063.84	14344785.56	39°30'7.5412"N	80°50'42.9635"W	2073.85	51.147	6.53	-5.47	-14.35	BH AT Curve <8-1/2"> (5549')(5604'-21748')
5698.00	17.920	42.430	5203.96	-713.70	1320.35	1630.79	1684079.60	14344804.92	39°30'7.7323"N	80°50'42.7620"W	2098.29	51.005	5.70	5.27	8.30	
5791.00	22.100	45.240	5291.33	-728.10	1343.24	1652.87	1684101.67	14344827.80	39°30'7.9582"N	80°50'42.4797"W	2129.86	50.900	4.61	4.49	3.02	
5886.00	25.780	48.980	5378.14	-743.55	1369.40	1681.16	1684129.95	14344853.94	39°30'8.2162"N	80°50'42.1183"W	2168.31	50.835	4.19	3.87	3.94	
5980.00	29.110	50.880	5461.55	-759.00	1397.25	1714.33	1684163.11	14344881.78	39°30'8.4909"N	80°50'41.6945"W	2211.61	50.819	3.66	3.54	2.02	
6074.00	32.470	54.720	5542.30	-773.86	1426.26	1752.69	1684201.44	14344910.78	39°30'8.7769"N	80°50'41.2046"W	2259.67	50.863	4.14	3.57	4.09	
6169.00	33.970	52.230	5621.78	-789.46	1457.25	1794.49	1684243.23	14344941.75	39°30'9.0825"N	80°50'40.6706"W	2311.66	50.921	2.13	1.58	-2.62	
6264.00	34.060	56.110	5700.53	-804.74	1488.34	1837.56	1684286.28	14344972.84	39°30'9.3891"N	80°50'40.1205"W	2364.69	50.994	2.29	0.09	4.08	
6358.00	34.010	54.960	5778.43	-818.67	1518.11	1880.93	1684329.64	14345002.59	39°30'9.6826"N	80°50'39.5665"W	2417.14	51.093	0.69	-0.05	-1.22	
6453.00	32.450	56.860	5857.89	-832.14	1547.30	1924.03	1684372.72	14345031.77	39°30'9.9703"N	80°50'39.0161"W	2469.01	51.194	1.97	-1.64	2.00	
6547.00	31.410	66.750	5937.73	-840.03	1570.77	1967.68	1684416.35	14345055.24	39°30'10.2016"N	80°50'38.4587"W	2517.76	51.400	5.67	-1.11	10.52	
6643.00	32.270	85.770	6019.49	-835.24	1582.57	2016.35	1684465.00	14345067.03	39°30'10.3173"N	80°50'37.8375"W	2563.24	51.873	10.45	0.90	19.81	
6737.00	34.210	94.050	6098.14	-818.39	1582.55	2067.76	1684516.40	14345067.01	39°30'10.3163"N	80°50'37.1816"W	2603.87	52.572	5.25	2.06	8.81	
6831.00	36.980	107.700	6174.69	-791.01	1572.07	2121.15	1684569.76	14345056.54	39°30'10.2118"N	80°50'36.5008"W	2640.21	53.456	8.93	2.95	14.52	
6895.00†	39.504	114.121	6224.98	-765.52	1557.89	2158.09	1684606.69	14345042.36	39°30'10.0710"N	80°50'36.0299"W	2661.65	54.175	7.35	3.94	10.03	Sycamore: 6895' MD
6925.00	40.800	116.890	6247.91	-751.93	1549.56	2175.54	1684624.13	14345034.03	39°30'9.9883"N	80°50'35.8074"W	2670.98	54.539	7.35	4.32	9.23	
7020.00	46.490	130.210	6316.77	-699.82	1513.18	2229.69	1684678.26	14344997.66	39°30'9.6278"N	80°50'35.1174"W	2694.67	55.837	11.36	5.99	14.02	
7056.00†	48.926	132.682	6341.00	-676.63	1495.54	2249.64	1684698.20	14344980.04	39°30'9.4532"N	80°50'34.8633"W	2701.40	56.384	8.46	6.77	6.87	Middlesex: 7056' MD
7114.00	52.950	136.300	6377.55	-636.30	1463.97	2281.72	1684730.27	14344948.48	39°30'9.1406"N	80°50'34.4547"W	2710.99	57.315	8.46	6.94	6.24	
7209.00	60.860	139.470	6429.39	-563.07	1404.93	2334.97	1684783.50	14344889.45	39°30'8.5561"N	80°50'33.7768"W	2725.05	58.965	8.78	8.33	3.34	
7221.00†	61.400	139.503	6435.18	-553.29	1396.94	2341.80	1684790.32	14344881.47	39°30'8.4770"N	80°50'33.6899"W	2726.80	59.183	4.51	4.50	0.27	Burkett: 7221' MD
7276.00†	63.875	139.650	6460.46	-507.79	1359.75	2373.47	1684821.98	14344844.30	39°30'8.1090"N	80°50'33.2867"W	2735.37	60.192	4.51	4.50	0.27	Tully: 7276' MD
7303.00	65.090	139.720	6472.09	-485.07	1341.17	2389.23	1684837.74	14344825.73	39°30'7.9251"N	80°50'33.0860"W	2739.92	60.693	4.51	4.50	0.26	
7352.00	67.950	142.330	6491.61	-442.81	1306.24	2417.48	1684865.98	14344790.80	39°30'7.5793"N	80°50'32.7263"W	2747.81	61.616	7.61	5.84	5.33	
7397.00	71.950	144.310	6507.04	-402.52	1272.34	2442.72	1684891.21	14344756.92	39°30'7.2438"N	80°50'32.4051"W	2754.22	62.486	9.80	8.89	4.40	
7425.00†	74.144	145.306	6515.20	-376.78	1250.45	2458.16	1684906.63	14344735.04	39°30'7.0272"N	80°50'32.2087"W	2757.93	63.038	8.54	7.84	3.56	Marcellus POE: 7425' MD
7492.00	79.410	147.610	6530.53	-313.64	1196.10	2494.17	1684942.63	14344680.71	39°30'6.4895"N	80°50'31.7505"W	2766.14	64.380	8.54	7.86	3.44	
7587.00	86.800	152.420	6541.93	-221.11	1114.48	2541.23	1684989.67	14344599.12	39°30'5.6820"N	80°50'31.1520"W	2774.87	66.320	9.26	7.78	5.06	
7681.00	89.690	150.770	6544.81	-128.40	1031.85	2585.92	1685034.34	14344516.52	39°30'4.8645"N	80°50'30.5837"W	2784.18	68.247	3.54	3.07	-1.76	



Actual Wellpath Report

Pechora Unit 2H AWP Proj: 21771'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Pechora Unit 2H
Field	Tyler	API	47-095-02725-0000
Facility	Blizzard Pad	Wellbore	Pechora Unit 2H AWB
Slot	Slot #06		

WELLPATH DATA (239 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
7776.00	89.720	155.050	6545.30	-34.34	947.29	2629.17	1685077.58	14344432.00	39°30'4.0280"N	80°50'30.0339"W	2794.62	70.186	4.51	0.03	4.51	
7870.00	89.600	159.310	6545.85	59.44	860.67	2665.62	1685114.01	14344345.41	39°30'3.1713"N	80°50'29.5709"W	2801.12	72.106	4.53	-0.13	4.53	
7963.00	89.420	158.790	6546.65	152.39	773.82	2698.87	1685147.25	14344258.60	39°30'2.3124"N	80°50'29.1486"W	2807.61	74.001	0.59	-0.19	-0.56	
8058.00	90.310	158.440	6546.87	247.31	685.36	2733.51	1685181.87	14344170.18	39°30'1.4375"N	80°50'28.7087"W	2818.12	75.925	1.01	0.94	-0.37	
8153.00	89.350	160.510	6547.16	342.28	596.40	2766.81	1685215.17	14344081.25	39°30'0.5577"N	80°50'28.2858"W	2830.36	77.836	2.40	-1.01	2.18	
8247.00	90.250	161.120	6547.48	436.27	507.62	2797.70	1685246.04	14343992.51	39°29'59.6797"N	80°50'27.8938"W	2843.38	79.716	1.16	0.96	0.65	
8342.00	90.000	160.590	6547.28	531.27	417.88	2828.86	1685277.19	14343902.80	39°29'58.7922"N	80°50'27.4984"W	2859.56	81.597	0.62	-0.26	-0.56	
8435.00	90.120	161.570	6547.18	624.27	329.90	2859.01	1685307.33	14343814.86	39°29'57.9222"N	80°50'27.1157"W	2877.99	83.418	1.06	0.13	1.05	
8530.00	89.850	161.750	6547.20	719.26	239.73	2888.91	1685337.21	14343724.72	39°29'57.0304"N	80°50'26.7364"W	2898.84	85.256	0.34	-0.28	0.19	
8624.00	89.690	161.440	6547.58	813.25	150.54	2918.59	1685366.88	14343635.57	39°29'56.1484"N	80°50'26.3598"W	2922.46	87.047	0.37	-0.17	-0.33	
8718.00	89.820	161.450	6547.98	907.25	61.42	2948.50	1685396.78	14343546.49	39°29'55.2672"N	80°50'25.9802"W	2949.14	88.807	0.14	0.14	0.01	
8813.00	89.350	160.610	6548.67	1002.25	-28.41	2979.38	1685427.65	14343456.69	39°29'54.3787"N	80°50'25.5883"W	2979.51	90.546	1.01	-0.49	-0.88	
8907.00	89.410	160.590	6549.69	1096.24	-117.07	3010.60	1685458.85	14343368.07	39°29'53.5019"N	80°50'25.1921"W	3012.87	92.227	0.07	0.06	-0.02	
9002.00	89.720	161.880	6550.41	1191.23	-207.02	3041.16	1685489.40	14343278.16	39°29'52.6124"N	80°50'24.8043"W	3048.20	93.894	1.40	0.33	1.36	
9097.00	89.540	161.300	6551.02	1286.22	-297.15	3071.16	1685519.39	14343188.06	39°29'51.7211"N	80°50'24.4236"W	3085.50	95.527	0.64	-0.19	-0.61	
9191.00	89.660	161.750	6551.68	1380.21	-386.31	3100.95	1685549.17	14343098.94	39°29'50.8394"N	80°50'24.0457"W	3124.92	97.101	0.50	0.13	0.48	
9286.00	89.080	160.990	6552.72	1475.20	-476.32	3131.29	1685579.50	14343008.96	39°29'49.9492"N	80°50'23.6606"W	3167.31	98.649	1.01	-0.61	-0.80	
9380.00	89.140	160.720	6554.18	1569.19	-565.11	3162.12	1685610.31	14342920.20	39°29'49.0711"N	80°50'23.2694"W	3212.22	100.133	0.29	0.06	-0.29	
9475.00	89.200	161.050	6555.56	1664.18	-654.86	3193.22	1685641.41	14342830.49	39°29'48.1835"N	80°50'22.8747"W	3259.68	101.589	0.35	0.06	0.35	
9569.00	88.950	160.720	6557.08	1758.17	-743.67	3224.00	1685672.17	14342741.72	39°29'47.3053"N	80°50'22.4841"W	3308.66	102.989	0.44	-0.27	-0.35	
9663.00	89.420	160.760	6558.42	1852.16	-832.40	3255.00	1685703.16	14342653.02	39°29'46.4278"N	80°50'22.0906"W	3359.75	104.345	0.50	0.50	0.04	
9758.00	89.350	161.030	6559.43	1947.15	-922.16	3286.10	1685734.24	14342563.30	39°29'45.5401"N	80°50'21.6961"W	3413.03	105.675	0.29	-0.07	0.28	
9852.00	89.600	161.860	6560.30	2041.14	-1011.27	3316.01	1685764.14	14342474.22	39°29'44.6589"N	80°50'21.3165"W	3466.78	106.960	0.92	0.27	0.88	
9946.00	89.320	161.230	6561.18	2135.13	-1100.43	3345.76	1685793.88	14342385.10	39°29'43.7772"N	80°50'20.9390"W	3522.08	108.206	0.73	-0.30	-0.67	
10040.00	89.750	161.600	6561.95	2229.13	-1189.53	3375.72	1685823.83	14342296.04	39°29'42.8961"N	80°50'20.5589"W	3579.17	109.411	0.60	0.46	0.39	
10134.00	90.580	160.550	6561.67	2323.12	-1278.44	3406.21	1685854.30	14342207.16	39°29'42.0167"N	80°50'20.1721"W	3638.22	110.573	1.42	0.88	-1.12	
10229.00	89.820	161.560	6561.34	2418.12	-1368.29	3437.05	1685885.13	14342117.34	39°29'41.1282"N	80°50'19.7807"W	3699.39	111.708	1.33	-0.80	1.06	
10418.00	89.320	161.130	6562.76	2607.11	-1547.36	3497.50	1685945.56	14341938.35	39°29'39.3573"N	80°50'19.0137"W	3824.50	113.865	0.35	-0.26	-0.23	
10513.00	89.010	160.870	6564.15	2702.10	-1637.17	3528.43	1685976.47	14341848.57	39°29'38.4691"N	80°50'18.6212"W	3889.75	114.891	0.43	-0.33	-0.27	
10607.00	89.260	161.090	6565.56	2796.09	-1726.03	3559.06	1686007.09	14341759.75	39°29'37.5904"N	80°50'18.2326"W	3955.51	115.872	0.35	0.27	0.23	



Actual Wellpath Report
 Pechora Unit 2H AWP Proj: 21771'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Pechora Unit 2H
Field	Tyler	API	47-095-02725-0000
Facility	Blizzard Pad	Wellbore	Pechora Unit 2H AWP
Slot	Slot #06		

WELLPATH DATA (239 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
10702.00	89.290	161.030	6566.77	2891.08	-1815.88	3589.89	1686037.91	14341669.94	39°29'36.7018"N	80°50'17.8413"W	4023.02	116.832	0.07	0.03	-0.06	
10797.00	89.200	160.690	6568.02	2986.07	-1905.62	3621.03	1686069.05	14341580.23	39°29'35.8143"N	80°50'17.4461"W	4091.86	117.756	0.37	-0.09	-0.36	
10890.00	89.510	161.030	6569.07	3079.06	-1993.47	3651.53	1686099.52	14341492.41	39°29'34.9455"N	80°50'17.0592"W	4160.24	118.631	0.49	0.33	0.37	
10985.00	89.420	161.420	6569.95	3174.06	-2083.42	3682.10	1686130.09	14341402.51	39°29'34.0560"N	80°50'16.6713"W	4230.66	119.502	0.42	-0.09	0.41	
11080.00	88.920	160.980	6571.33	3269.05	-2173.34	3712.71	1686160.69	14341312.62	39°29'33.1668"N	80°50'16.2829"W	4302.05	120.344	0.70	-0.53	-0.46	
11174.00	89.050	160.670	6572.99	3363.03	-2262.11	3743.58	1686191.54	14341223.89	39°29'32.2889"N	80°50'15.8911"W	4373.96	121.143	0.36	0.14	-0.33	
11269.00	89.320	160.480	6574.35	3458.02	-2351.69	3775.17	1686223.12	14341134.34	39°29'31.4029"N	80°50'15.4903"W	4447.74	121.920	0.35	0.28	-0.20	
11364.00	89.260	159.540	6575.52	3553.00	-2440.96	3807.65	1686255.58	14341045.11	39°29'30.5201"N	80°50'15.0781"W	4522.88	122.663	0.99	-0.06	-0.99	
11458.00	89.600	161.390	6576.46	3646.99	-2529.54	3839.08	1686287.00	14340956.56	39°29'29.6440"N	80°50'14.6793"W	4597.51	123.381	2.00	0.36	1.97	
11553.00	89.540	161.190	6577.17	3741.98	-2619.52	3869.55	1686317.46	14340866.62	39°29'28.7542"N	80°50'14.2926"W	4672.82	124.096	0.22	-0.06	-0.21	
11648.00	90.000	161.230	6577.55	3836.98	-2709.45	3900.15	1686348.05	14340776.72	39°29'27.8648"N	80°50'13.9044"W	4748.93	124.788	0.49	0.48	0.04	
11743.00	89.320	161.440	6578.12	3931.98	-2799.46	3930.55	1686378.44	14340686.75	39°29'26.9747"N	80°50'13.5187"W	4825.57	125.460	0.75	-0.72	0.22	
11837.00	89.420	160.940	6579.15	4025.97	-2888.43	3960.86	1686408.73	14340597.82	39°29'26.0948"N	80°50'13.1342"W	4902.18	126.101	0.54	0.11	-0.53	
11931.00	89.750	162.130	6579.83	4119.96	-2977.59	3990.63	1686438.49	14340508.70	39°29'25.2131"N	80°50'12.7565"W	4979.07	126.728	1.31	0.35	1.27	
12025.00	89.320	161.720	6580.59	4213.94	-3066.94	4019.79	1686467.64	14340419.37	39°29'24.3294"N	80°50'12.3866"W	5056.17	127.342	0.63	-0.46	-0.44	
12120.00	89.910	161.710	6581.23	4308.93	-3157.14	4049.60	1686497.44	14340329.21	39°29'23.4374"N	80°50'12.0085"W	5134.86	127.941	0.62	0.62	-0.01	
12214.00	89.260	160.680	6581.91	4402.92	-3246.12	4079.90	1686527.72	14340240.27	39°29'22.5575"N	80°50'11.6241"W	5213.72	128.507	1.30	-0.69	-1.10	
12309.00	89.480	161.370	6582.96	4497.92	-3335.95	4110.78	1686558.60	14340150.47	39°29'21.6691"N	80°50'11.2322"W	5294.07	129.060	0.76	0.23	0.73	
12404.00	89.200	161.200	6584.05	4592.91	-3425.93	4141.26	1686589.07	14340060.53	39°29'20.7793"N	80°50'10.8456"W	5374.66	129.600	0.34	-0.29	-0.18	
12498.00	89.970	161.340	6584.73	4686.90	-3514.94	4171.45	1686619.24	14339971.55	39°29'19.8990"N	80°50'10.4627"W	5454.89	130.118	0.83	0.82	0.15	
12593.00	89.450	161.150	6585.21	4781.90	-3604.90	4201.99	1686649.77	14339881.63	39°29'19.0094"N	80°50'10.0752"W	5536.43	130.626	0.58	-0.55	-0.20	
12688.00	89.600	161.460	6586.00	4876.89	-3694.88	4232.44	1686680.21	14339791.68	39°29'18.1195"N	80°50'9.6889"W	5618.34	131.121	0.36	0.16	0.33	
12782.00	89.200	161.180	6586.98	4970.88	-3783.93	4262.54	1686710.30	14339702.68	39°29'17.2389"N	80°50'9.3070"W	5699.77	131.596	0.52	-0.43	-0.30	
12876.00	88.860	160.560	6588.58	5064.87	-3872.72	4293.34	1686741.09	14339613.92	39°29'16.3607"N	80°50'8.9162"W	5781.94	132.051	0.75	-0.36	-0.66	
12971.00	89.290	161.570	6590.11	5159.86	-3962.57	4324.17	1686771.90	14339524.11	39°29'15.4722"N	80°50'8.5252"W	5865.18	132.501	1.16	0.45	1.06	
13065.00	88.980	160.510	6591.53	5253.84	-4051.46	4354.70	1686802.42	14339435.25	39°29'14.5931"N	80°50'8.1377"W	5947.92	132.934	1.17	-0.33	-1.13	
13159.00	90.710	162.010	6591.78	5347.83	-4140.47	4384.90	1686832.61	14339346.28	39°29'13.7129"N	80°50'7.7547"W	6030.82	133.358	2.44	1.84	1.60	
13253.00	89.720	160.810	6591.43	5441.83	-4229.56	4414.87	1686862.56	14339257.22	39°29'12.8318"N	80°50'7.3745"W	6113.94	133.772	1.65	-1.05	-1.28	
13348.00	90.770	164.150	6591.02	5536.78	-4320.14	4443.46	1686891.14	14339166.68	39°29'11.9361"N	80°50'7.0120"W	6197.41	134.194	3.69	1.11	3.52	
13442.00	88.120	161.550	6591.93	5630.70	-4409.94	4471.17	1686918.84	14339076.92	39°29'11.0480"N	80°50'6.6606"W	6280.04	134.605	3.95	-2.82	-2.77	



Actual Wellpath Report

Pechora Unit 2H AWP Proj: 21771'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Pechora Unit 2H
Field	Tyler		API	47-095-02725-0000
Facility	Blizzard Pad		Wellbore	Pechora Unit 2H AWB
Slot	Slot #06			

WELLPATH DATA (239 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
13537.00	89.510	161.500	6593.90	5725.67	-4500.02	4501.27	1686948.93	14338986.87	39°29'10.1572"N	80°50'6.2788"W	6364.87	134.992	1.46	1.46	-0.05	
13632.00	88.950	162.680	6595.18	5820.64	-4590.41	4530.48	1686978.13	14338896.52	39°29'9.2633"N	80°50'5.9084"W	6449.58	135.376	1.37	-0.59	1.24	
13727.00	86.610	161.720	6598.86	5915.54	-4680.78	4559.50	1687007.13	14338806.18	39°29'8.3696"N	80°50'5.5404"W	6534.43	135.752	2.66	-2.46	-1.01	
13821.00	88.950	160.910	6602.50	6009.46	-4769.76	4589.59	1687037.21	14338717.24	39°29'7.4897"N	80°50'5.1587"W	6619.28	136.103	2.63	2.49	-0.86	
13915.00	91.420	161.460	6602.19	6103.45	-4856.73	4619.90	1687067.51	14338628.31	39°29'6.6098"N	80°50'4.7742"W	6704.53	136.443	2.69	2.63	0.59	
14010.00	90.250	161.000	6600.81	6198.43	-4948.66	4650.47	1687098.07	14338538.41	39°29'5.7204"N	80°50'4.3865"W	6790.88	136.779	1.32	-1.23	-0.48	
14105.00	89.660	161.200	6600.88	6293.43	-5038.54	4681.24	1687128.83	14338448.57	39°29'4.8315"N	80°50'3.9961"W	6877.56	137.105	0.66	-0.62	0.21	
14200.00	89.940	160.990	6601.21	6388.43	-5128.41	4712.02	1687159.59	14338358.73	39°29'3.9427"N	80°50'3.6057"W	6964.46	137.423	0.37	0.29	-0.22	
14294.00	89.880	161.650	6601.36	6482.43	-5217.46	4742.12	1687189.69	14338269.72	39°29'3.0621"N	80°50'3.2238"W	7050.51	137.732	0.71	-0.06	0.70	
14389.00	89.850	161.510	6601.59	6577.42	-5307.59	4772.14	1687219.69	14338179.62	39°29'2.1707"N	80°50'2.8431"W	7137.50	138.041	0.15	-0.03	-0.15	
14484.00	89.290	161.350	6602.30	6672.41	-5397.64	4802.40	1687249.93	14338089.60	39°29'1.2802"N	80°50'2.4593"W	7224.79	138.340	0.61	-0.59	-0.17	
14578.00	89.320	161.250	6603.44	6766.40	-5486.68	4832.53	1687280.06	14338000.61	39°29'0.3997"N	80°50'2.0771"W	7311.43	138.627	0.11	0.03	-0.11	
14673.00	89.540	161.740	6604.38	6861.39	-5576.76	4862.68	1687310.20	14337910.56	39°28'59.5088"N	80°50'1.6947"W	7399.05	138.913	0.57	0.23	0.52	
14767.00	89.630	161.730	6605.07	6955.38	-5666.02	4892.14	1687339.64	14337821.34	39°28'58.6261"N	80°50'1.3211"W	7485.78	139.192	0.10	0.10	-0.01	
14862.00	89.110	161.550	6606.11	7050.37	-5756.18	4922.06	1687369.55	14337731.21	39°28'57.7344"N	80°50'0.9416"W	7573.66	139.467	0.58	-0.55	-0.19	
14957.00	89.570	161.870	6607.20	7145.35	-5846.37	4951.87	1687399.35	14337641.05	39°28'56.8425"N	80°50'0.5635"W	7661.67	139.735	0.59	0.48	0.34	
15051.00	89.020	161.470	6608.36	7239.33	-5935.60	4981.43	1687428.90	14337551.87	39°28'55.9601"N	80°50'0.1886"W	7748.93	139.995	0.72	-0.59	-0.43	
15145.00	89.570	162.070	6609.52	7333.31	-6024.87	5010.84	1687458.29	14337462.63	39°28'55.0772"N	80°49'59.8157"W	7836.30	140.250	0.87	0.59	0.64	
15240.00	89.480	161.900	6610.31	7428.29	-6115.21	5040.22	1687487.66	14337372.32	39°28'54.1838"N	80°49'59.4432"W	7924.62	140.504	0.20	-0.09	-0.18	
15334.00	89.540	161.750	6611.11	7522.28	-6204.52	5069.54	1687516.97	14337283.05	39°28'53.3007"N	80°49'59.0713"W	8012.26	140.749	0.17	0.06	-0.16	
15429.00	88.980	161.450	6612.34	7617.26	-6294.65	5099.52	1687546.94	14337192.95	39°28'52.4093"N	80°49'58.6911"W	8101.10	140.988	0.67	-0.59	-0.32	
15523.00	89.510	160.550	6613.57	7711.25	-6383.52	5130.12	1687577.53	14337104.12	39°28'51.5304"N	80°49'58.3029"W	8189.47	141.213	1.11	0.56	-0.96	
15617.00	89.420	160.550	6614.45	7805.25	-6472.15	5161.42	1687608.81	14337015.52	39°28'50.6538"N	80°49'57.9059"W	8278.23	141.428	0.10	-0.10	0.00	
15712.00	89.450	161.140	6615.39	7900.24	-6561.89	5192.59	1687639.97	14336925.82	39°28'49.7664"N	80°49'57.5105"W	8367.88	141.645	0.62	0.03	0.62	
15805.00	89.450	159.700	6616.28	7993.23	-6649.51	5223.75	1687671.12	14336838.24	39°28'48.8998"N	80°49'57.1151"W	8455.98	141.847	1.55	0.00	-1.55	
15899.00	89.690	160.480	6616.99	8087.22	-6737.88	5255.76	1687703.12	14336749.90	39°28'48.0258"N	80°49'56.7090"W	8545.30	142.045	0.87	0.26	0.83	
15994.00	89.660	159.960	6617.53	8182.21	-6827.28	5287.91	1687735.26	14336660.54	39°28'47.1417"N	80°49'56.3011"W	8635.61	142.241	0.55	-0.03	-0.55	
16088.00	89.880	159.790	6617.90	8276.19	-6915.54	5320.25	1687767.59	14336572.32	39°28'46.2688"N	80°49'55.8907"W	8725.24	142.428	0.30	0.23	-0.18	
16183.00	90.250	160.610	6617.80	8371.19	-7004.92	5352.43	1687799.75	14336482.97	39°28'45.3848"N	80°49'55.4825"W	8815.75	142.617	0.95	0.39	0.86	
16278.00	89.780	160.370	6617.77	8466.18	-7094.47	5384.16	1687831.47	14336393.46	39°28'44.4992"N	80°49'55.0800"W	8906.21	142.804	0.56	-0.49	-0.25	



Actual Wellpath Report

Pechora Unit 2H AWP Proj: 21771'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Pechora Unit 2H
Field	Tyler	API	47-095-02725-0000
Facility	Blizzard Pad	Wellbore	Pechora Unit 2H AWB
Slot	Slot #06		

WELLPATH DATA (239 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
16372.00	89.780	160.310	6618.13	8560.18	-7182.98	5415.79	1687863.08	14336304.98	39°28'43.6237"N	80°49'54.6788"W	8995.89	142.985	0.06	0.00	-0.06	
16466.00	89.780	160.110	6618.49	8654.17	-7271.43	5447.61	1687894.89	14336216.57	39°28'42.7490"N	80°49'54.2750"W	9085.71	143.160	0.21	0.00	-0.21	
16561.00	90.180	160.680	6618.53	8749.17	-7360.92	5479.49	1687926.76	14336127.11	39°28'41.8639"N	80°49'53.8707"W	9176.49	143.336	0.73	0.42	0.60	
16655.00	89.510	160.390	6618.78	8843.16	-7449.55	5510.81	1687958.07	14336038.52	39°28'40.9874"N	80°49'53.4733"W	9266.33	143.508	0.78	-0.71	-0.31	
16749.00	89.480	160.080	6619.61	8937.15	-7538.01	5542.60	1687989.84	14335950.10	39°28'40.1125"N	80°49'53.0701"W	9356.39	143.673	0.33	-0.03	-0.33	
16843.00	90.220	161.690	6619.85	9031.15	-7626.82	5573.38	1688020.61	14335861.32	39°28'39.2342"N	80°49'52.6797"W	9446.21	143.842	1.89	0.79	1.71	
16937.00	89.880	160.680	6619.77	9125.15	-7715.80	5603.69	1688050.91	14335772.38	39°28'38.3543"N	80°49'52.2952"W	9535.98	144.011	1.13	-0.36	-1.07	
17032.00	90.120	161.570	6619.77	9220.15	-7805.69	5634.43	1688081.63	14335682.52	39°28'37.4653"N	80°49'51.9054"W	9626.81	144.177	0.97	0.25	0.94	
17126.00	89.750	160.530	6619.88	9314.14	-7894.59	5664.95	1688112.14	14335593.65	39°28'36.5860"N	80°49'51.5183"W	9716.80	144.338	1.17	-0.39	-1.11	
17221.00	90.000	160.730	6620.09	9409.14	-7984.22	5696.46	1688143.64	14335504.07	39°28'35.6997"N	80°49'51.1186"W	9808.02	144.493	0.34	0.26	0.21	
17314.00	89.750	160.450	6620.29	9502.14	-8071.93	5727.37	1688174.53	14335416.39	39°28'34.8322"N	80°49'50.7266"W	9897.41	144.643	0.40	-0.27	-0.30	
17409.00	89.780	160.790	6620.68	9597.14	-8161.55	5758.89	1688206.05	14335326.81	39°28'33.9459"N	80°49'50.3267"W	9988.78	144.793	0.36	0.03	0.36	
17503.00	89.820	160.400	6621.01	9691.14	-8250.21	5790.12	1688237.26	14335238.18	39°28'33.0691"N	80°49'49.9306"W	10079.25	144.938	0.42	0.04	-0.41	
17598.00	89.720	160.450	6621.39	9786.13	-8339.71	5821.95	1688269.08	14335148.71	39°28'32.1838"N	80°49'49.5268"W	10170.84	145.081	0.12	-0.11	0.05	
17692.00	89.720	160.770	6621.85	9880.13	-8428.38	5853.16	1688300.27	14335060.08	39°28'31.3069"N	80°49'49.1310"W	10261.43	145.222	0.34	0.00	0.34	
17786.00	90.090	160.760	6622.00	9974.13	-8517.13	5884.12	1688331.23	14334971.36	39°28'30.4292"N	80°49'48.7382"W	10352.03	145.361	0.39	0.39	-0.01	
17881.00	90.520	161.010	6621.50	10069.13	-8606.89	5915.23	1688362.33	14334881.64	39°28'29.5414"N	80°49'48.3437"W	10443.59	145.501	0.52	0.45	0.26	
17976.00	90.060	160.900	6621.02	10164.13	-8696.69	5946.23	1688393.31	14334791.88	39°28'28.6534"N	80°49'47.9505"W	10535.18	145.638	0.50	-0.48	-0.12	
18070.00	90.120	160.610	6620.87	10258.13	-8785.44	5977.21	1688424.28	14334703.16	39°28'27.7757"N	80°49'47.5576"W	10625.96	145.770	0.32	0.06	-0.31	
18164.00	90.310	160.490	6620.52	10352.12	-8874.07	6008.51	1688455.57	14334614.56	39°28'26.8991"N	80°49'47.1606"W	10716.88	145.899	0.24	0.20	-0.13	
18259.00	90.280	160.600	6620.03	10447.12	-8963.65	6040.15	1688487.20	14334525.03	39°28'26.0132"N	80°49'46.7592"W	10808.81	146.026	0.12	-0.03	0.12	
18353.00	90.060	160.420	6619.75	10541.12	-9052.26	6071.52	1688518.55	14334436.45	39°28'25.1368"N	80°49'46.3614"W	10899.85	146.150	0.30	-0.23	-0.19	
18448.00	90.220	160.710	6619.52	10636.12	-9141.85	6103.13	1688550.15	14334346.90	39°28'24.2508"N	80°49'45.9605"W	10991.89	146.273	0.35	0.17	0.31	
18542.00	90.030	160.590	6619.31	10730.12	-9230.54	6134.27	1688581.28	14334258.24	39°28'23.3736"N	80°49'45.5655"W	11082.97	146.393	0.24	-0.20	-0.13	
18636.00	90.250	160.520	6619.08	10824.11	-9319.18	6165.57	1688612.56	14334169.64	39°28'22.4970"N	80°49'45.1686"W	11174.13	146.511	0.25	0.23	-0.07	
18731.00	90.000	160.810	6618.87	10919.11	-9408.82	6197.02	1688644.00	14334080.04	39°28'21.6105"N	80°49'44.7697"W	11266.27	146.630	0.40	-0.26	0.31	
18825.00	90.250	160.540	6618.67	11013.11	-9497.52	6228.13	1688675.09	14333991.37	39°28'20.7332"N	80°49'44.3752"W	11357.49	146.745	0.39	0.27	-0.29	
18920.00	89.970	160.570	6618.49	11108.11	-9587.10	6259.75	1688706.71	14333901.82	39°28'19.8472"N	80°49'43.9740"W	11449.76	146.858	0.30	-0.29	0.03	
19014.00	90.120	160.930	6618.41	11202.11	-9675.85	6290.74	1688737.69	14333813.11	39°28'18.9696"N	80°49'43.5810"W	11541.03	146.970	0.41	0.16	0.38	
19108.00	90.150	160.770	6618.19	11296.11	-9764.64	6321.58	1688768.51	14333724.35	39°28'18.0913"N	80°49'43.1900"W	11632.31	147.081	0.17	0.03	-0.17	



Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Pechora Unit 2H
Field	Tyler	API	47-095-02725-0000
Facility	Blizzard Pad	Wellbore	Pechora Unit 2H AWB
Slot	Slot #06		

WELLPATH DATA (239 stations) † = interpolated, ‡ = extrapolated station																
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]	
19203.00	90.150	160.800	6617.94	11391.11	-9854.35	6352.84	1688799.76	14333634.68	39°28'17.2041"N	80°49'42.7934"W	11724.63	147.191	0.03	0.00	0.03	
19297.00	90.370	160.880	6617.52	11485.11	-9943.14	6383.69	1688830.60	14333545.92	39°28'16.3260"N	80°49'42.4022"W	11815.99	147.299	0.25	0.23	0.09	
19392.00	90.310	160.860	6616.95	11580.11	-10032.90	6414.83	1688861.72	14333456.21	39°28'15.4384"N	80°49'42.0074"W	11908.36	147.406	0.07	-0.06	-0.02	
19486.00	90.180	160.640	6616.55	11674.10	-10121.64	6445.82	1688892.70	14333367.50	39°28'14.5607"N	80°49'41.6144"W	11999.84	147.510	0.27	-0.14	-0.23	
19581.00	90.180	160.800	6616.25	11769.10	-10211.31	6477.19	1688924.05	14333277.86	39°28'13.6738"N	80°49'41.2166"W	12092.35	147.612	0.17	0.00	0.17	
19675.00	90.180	160.560	6615.96	11863.10	-10300.02	6508.28	1688955.14	14333189.19	39°28'12.7965"N	80°49'40.8222"W	12183.93	147.712	0.26	0.00	-0.26	
19770.00	90.120	161.070	6615.71	11958.10	-10389.74	6539.50	1688986.35	14333099.50	39°28'11.9092"N	80°49'40.4263"W	12276.47	147.813	0.54	-0.06	0.54	
19865.00	90.220	160.930	6615.43	12053.10	-10479.56	6570.43	1689017.26	14333009.72	39°28'11.0208"N	80°49'40.0341"W	12368.99	147.913	0.18	0.11	-0.15	
19960.00	90.060	160.870	6615.19	12148.10	-10569.33	6601.52	1689048.34	14332919.98	39°28'10.1330"N	80°49'39.6399"W	12461.58	148.011	0.18	-0.17	-0.06	
20054.00	90.060	160.740	6615.10	12242.10	-10658.11	6632.42	1689079.23	14332831.24	39°28'9.2550"N	80°49'39.2480"W	12553.26	148.106	0.14	0.00	-0.14	
20149.00	90.180	160.530	6614.90	12337.10	-10747.73	6663.92	1689110.72	14332741.66	39°28'8.3686"N	80°49'38.8485"W	12646.01	148.200	0.25	0.13	-0.22	
20243.00	90.220	160.630	6614.57	12431.10	-10836.39	6695.18	1689141.96	14332653.04	39°28'7.4919"N	80°49'38.4522"W	12737.84	148.290	0.11	0.04	0.11	
20338.00	90.120	160.370	6614.29	12526.09	-10925.94	6726.89	1689173.66	14332563.52	39°28'6.6062"N	80°49'38.0500"W	12830.71	148.380	0.29	-0.11	-0.27	
20432.00	89.720	160.650	6614.42	12620.09	-11014.55	6758.25	1689205.01	14332474.95	39°28'5.7298"N	80°49'37.6523"W	12922.63	148.468	0.52	-0.43	0.30	
20527.00	89.780	160.580	6614.83	12715.09	-11104.16	6789.78	1689236.53	14332385.37	39°28'4.8435"N	80°49'37.2524"W	13015.51	148.556	0.10	0.06	-0.07	
20621.00	89.880	160.920	6615.11	12809.09	-11192.91	6820.77	1689267.51	14332296.66	39°28'3.9659"N	80°49'36.8594"W	13107.41	148.643	0.38	0.11	0.36	
20716.00	89.850	160.430	6615.34	12904.09	-11282.55	6852.21	1689298.93	14332207.05	39°28'3.0792"N	80°49'36.4608"W	13200.33	148.729	0.52	-0.03	-0.52	
20809.00	90.030	160.720	6615.43	12997.09	-11370.26	6883.14	1689329.85	14332119.38	39°28'2.2118"N	80°49'36.0685"W	13291.37	148.811	0.37	0.19	0.31	
20904.00	89.780	160.710	6615.59	13092.09	-11459.93	6914.52	1689361.21	14332029.75	39°28'1.3250"N	80°49'35.6707"W	13384.34	148.895	0.26	-0.26	-0.01	
20999.00	89.880	160.790	6615.87	13187.09	-11549.62	6945.84	1689392.52	14331940.09	39°28'0.4380"N	80°49'35.2735"W	13477.32	148.978	0.13	0.11	0.08	
21093.00	89.660	160.750	6616.25	13281.08	-11638.37	6976.80	1689423.47	14331851.37	39°27'59.5602"N	80°49'34.8809"W	13569.35	149.059	0.24	-0.23	-0.04	
21188.00	89.880	160.620	6616.63	13376.08	-11728.02	7008.22	1689454.87	14331761.76	39°27'58.6735"N	80°49'34.4825"W	13662.42	149.139	0.27	0.23	-0.14	
21283.00	89.750	160.940	6616.94	13471.08	-11817.73	7039.49	1689486.14	14331672.09	39°27'57.7864"N	80°49'34.0860"W	13755.48	149.219	0.36	-0.14	0.34	
21377.00	89.750	160.770	6617.35	13565.08	-11906.53	7070.32	1689516.95	14331583.33	39°27'56.9081"N	80°49'33.6951"W	13847.56	149.297	0.18	0.00	-0.18	
21472.00	89.780	160.640	6617.74	13660.08	-11996.19	7101.71	1689548.33	14331493.70	39°27'56.0213"N	80°49'33.2970"W	13940.69	149.375	0.14	0.03	-0.14	
21566.00	89.850	160.390	6618.04	13754.08	-12084.81	7133.06	1689579.67	14331405.12	39°27'55.1449"N	80°49'32.8994"W	14032.93	149.449	0.28	0.07	-0.27	
21660.00	89.780	160.670	6618.34	13848.07	-12173.43	7164.40	1689610.99	14331316.53	39°27'54.2684"N	80°49'32.5021"W	14125.19	149.522	0.31	-0.07	0.30	
21748.00	89.820	160.240	6618.65	13936.07	-12256.36	7193.84	1689640.42	14331233.63	39°27'53.4482"N	80°49'32.1288"W	14211.60	149.589	0.49	0.05	-0.49	
21771.00	89.820	160.240	6618.72	13959.07	-12278.00	7201.61	1689648.19	14331212.00	39°27'53.2342"N	80°49'32.0302"W	14234.21	149.606	0.00	0.00	0.00	Projected MD at TD: 21771'

HOLE & CASING SECTIONS - Ref Wellbore: Pechora Unit 2H AWB Ref Wellpath: Pechora Unit 2H AWP Proj: 21771'										
String/Diameter	Start MD	End MD	Interval	Start TVD	End TVD	Start N/S	Start E/W	End N/S	End E/W	
	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	
20in Conductor	25.50	106.00	80.50	25.50	106.00	0.00	0.00	-0.01	0.07	
17.5in Open Hole	106.00	384.00	278.00	106.00	384.00	-0.01	0.07	-0.65	-0.22	
13.375in Casing Surface	25.50	382.00	356.50	25.50	382.00	0.00	0.00	-0.64	-0.21	
12.25in Open Hole	384.00	2781.00	2397.00	384.00	2581.96	-0.65	-0.22	538.34	640.60	
9.625in Casing Intermediate	25.50	2755.00	2729.50	25.50	2559.21	0.00	0.00	528.90	632.26	
8.75in Open Hole	2781.00	5611.00	2830.00	2581.96	5120.19	538.34	640.60	1302.29	1615.94	
8.5in Open Hole	5611.00	21771.00	16160.00	5120.19	6618.72	1302.29	1615.94	-12278.00	7201.61	
5.5in Casing Production	25.50	21752.00	21726.50	25.50	6618.66	0.00	0.00	-12260.12	7195.19	



Actual Wellpath Report
 Pechora Unit 2H AWP Proj: 21771'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Pechora Unit 2H
Field	Tyler	API	47-095-02725-0000
Facility	Blizzard Pad	Wellbore	Pechora Unit 2H AWB
Slot	Slot #06		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Pechora Unit 2H POE Rev-2	6523.00	1233.20	2441.57	1684890.05	14344717.80	39°30'6.8571"N	80°50'32.4207"W	point
Pechora Unit 2H AZI Rev-1	6549.00	739.83	2686.42	1685134.80	14344224.62	39°30'1.9766"N	80°50'29.3082"W	point
Pechora Unit 2H BHL Rev-2	6549.00	-12226.80	7178.63	1689625.22	14331263.18	39°27'53.7407"N	80°49'32.3219"W	point
Pechora Unit 2H LP Rev-1	6549.00	1067.47	2536.97	1684985.42	14344552.14	39°30'5.2175"N	80°50'31.2073"W	point
Pechora Unit 2H 50' L/R Hard Line	7000.00	-5743.49	4932.52	1687380.01	14337743.90	39°28'57.8597"N	80°50'0.8078"W	rectangle
2D Rectangle 13722.7 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Pechora Unit 2H AWB Ref Wellpath: Pechora Unit 2H AWP Proj: 21771'						
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date	
25.50	381.00	Gyrodata 2015 - GC+WIR+DPIPE	01_Gyrodata MS Gyro <17-1/2"> (100'-381')	Pechora Unit 2H AWB	17/May/2021	
381.00	2705.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02_APS EM <12-1/4"> (381')(506'-2705')	Pechora Unit 2H AWB	17/May/2021	
2705.00	5549.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03_APS EM <8-3/4"> (2705')(2800'-5549')	Pechora Unit 2H AWB	17/May/2021	
5549.00	21771.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04_BH AT Curve <8-1/2"> (5549')(5604'-21748')	Pechora Unit 2H AWB	17/May/2021	



Actual Wellpath Report

Pechora Unit 2H AWP Proj: 21771'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Pechora Unit 2H
Field	Tyler	API	47-095-02725-0000
Facility	Blizzard Pad	Wellbore	Pechora Unit 2H AWB
Slot	Slot #06		

COMMENTS

Wellpath general comments

API: 47-095-02725-0000

BH Job #: 110887543

Rig: H&P 317

Duration: 5/19/2021-5/27/2021

Gyrodatta MS Gyro <17-1/2"> (100'-381')

APS EM <12-1/4"> (381')(506'-2705')

APS EM <8-3/4"> (2705')(2800'-5549')

Sycamore: 6895' MD

Middlesex: 7056' MD

Burkett: 7221' MD

Tully: 7276' MD

Marcellus POE: 7425' MD

BH AT Curve <8-1/2"> (5549')(5604'-21748')

Projected MD at TD: 21771'