



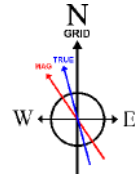
ANTERO RESOURCES CORPORATION

Location: Tyler County, WV
 Field: Tyler
 Facility: Terry Snider Pad

Slot: Slot #10
 Well: Dillon Unit 1H
 Wellbore: Dillon Unit 1H PWB

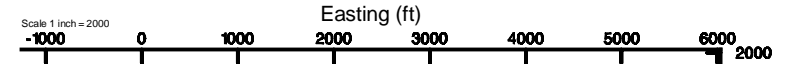


API: 47-095-02373-0000
 BHI Job #: 8278291
 Rig: Patterson 342
 Duration: 11/26/2016-11/29/2016



User specified Dip: 66.69° Field: 52025 nT
 Magnetic North is 7.77 degrees West of True North (at 23/Nov/2016)
 Grid North is 0.02 degrees East of True North
 To correct azimuth from True to Grid subtract 0.02 degrees
 To correct azimuth from Magnetic to Grid subtract 7.79 degrees

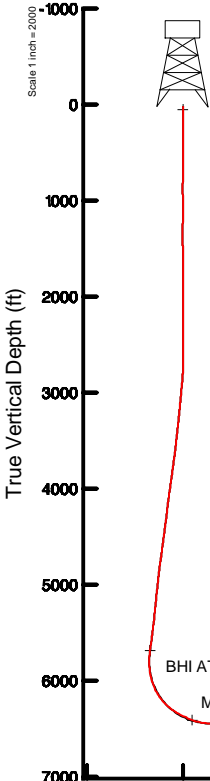
Gyrodata Cont. Gyro <8-3/4"> (50'-5597') : 50.00ft TVD, 0.06ft S, 0.03ft W



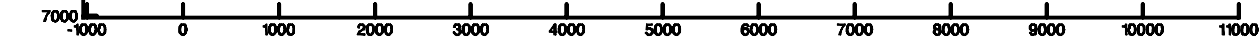
Plot reference wellpath is Dillon Unit 1H PWP Rev-A.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to Patterson 342 (RKB)	* = Wellpath was transformed from a different geoidic datum
Measured depths are referenced to Patterson 342 (RKB)	North Reference: Grid north
Patterson 342 (RKB) to Mean Sea Level: 1172 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: Slot #10): -1147 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: delaset on 2016-12-13
	Database: WA_MPL_EasternUS_Defn

Gyrodata Cont. Gyro <8-3/4"> (50'-5597') : 0.31° Inc, 50.00ft MD, 50.00ft TVD, 0.04ft VS

Scale 1 inch = 2000'



True Vertical Depth (ft)



Vertical Section (ft)
 Azimuth 158.63° with reference 0.00 N, 0.00 E

Location Information					
Facility Name		Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Terry Snider Pad		1650540.845	14295934.525	39°22'04.880"N	80°57'51.040"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude
Slot #10	-45.22	21.07	1650561.903	14295889.325	39°22'04.433"N
Comment		Dillon Unit 1H			
Patterson 342 (RKB) to Mud line (At Slot: Slot #10)		25ft			
Mean Sea Level to Mud line (At Slot: Slot #10)		-1147ft			
Patterson 342 (RKB) to Mean Sea Level		1172ft			

Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	5597.00	10.620	26.940	5553.38	440.14	235.69	0.00	-323.99
Proj. to Bottom	5750.00	10.490	26.020	5703.79	465.22	248.19	0.14	-342.80
Curve KOP	5761.64	10.490	26.020	5715.24	467.13	249.12	0.00	-344.23
POE	6665.10	71.622	144.295	6409.00	142.83	587.68	8.50	81.13
Landing Pt.	6896.63	90.000	158.627	6446.00	-56.90	695.45	10.00	306.40
BHL	16026.63	90.000	158.627	6446.00	-8559.00	4022.79	0.00	9436.40

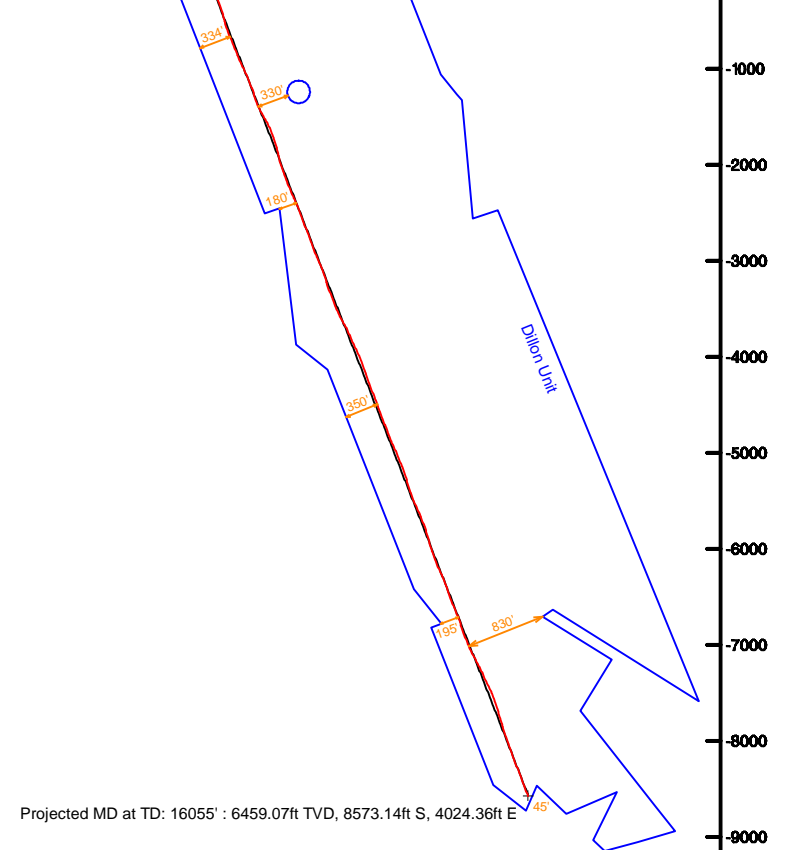
Well Data			
Slot	Well	Wellbore	Wellpath
Slot #10	Dillon Unit 1H	Dillon Unit 1H AWB	Dillon Unit 1H AWP Proj: 16055'
Slot #10	Dillon Unit 1H	Dillon Unit 1H PWB	Dillon Unit 1H PWP Rev-A.0

BHI AT Curve <8-1/2"> (5597')(5731'-16030') : 12.38° Inc, 5731.00ft MD, 5684.69ft TVD, -341.75ft VS

Marcellus POE: 6679' MD : 69.45° Inc, 6679.00ft MD, 6408.36ft TVD, 98.93ft VS

Projected MD at TD: 16055' : 90.00° Inc, 16055.00ft MD, 6459.07ft TVD, 9450.15ft VS

BHI AT Curve <8-1/2"> (5597')(5731'-16030') : 5684.69ft TVD, 463.94ft N, 247.81ft E
 Marcellus POE: 6679' MD : 6408.36ft TVD, 119.48ft N, 576.84ft E
 Slot #10



Northing (ft)

Scale 1 inch = 2000'



Actual Wellpath Report

Dillon Unit 1H AWP Proj: 16055'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #10
Area	Tyler County, WV	Well	Dillon Unit 1H
Field	Tyler	Wellbore	Dillon Unit 1H AWB
Facility	Terry Snider Pad		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 5.0
North Reference	Grid	User	Delaset
Scale	0.999600	Report Generated	13/Dec/2016 at 10:05
Convergence at slot	0.03° East	Database/Source file	WA_MPL_EasternUS_Defn/Dillon_Unit_1H_AWP_Proj_16055_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-45.22	21.07	1650561.90	14295889.33	39°22'04.433"N	80°57'50.772"W
Facility Reference Pt			1650540.85	14295934.53	39°22'04.880"N	80°57'51.040"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.301"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Patterson 342 (RKB) to Facility Vertical Datum	25.00ft
Horizontal Reference Pt	Slot	Patterson 342 (RKB) to Mean Sea Level	1172.00ft
Vertical Reference Pt	Patterson 342 (RKB)	Patterson 342 (RKB) to Mud Line at Slot (Slot #10)	25.00ft
MD Reference Pt	Patterson 342 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	158.63°



Actual Wellpath Report

Dillon Unit 1H AWP Proj: 16055'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #10
Area	Tyler County, WV	Well	Dillon Unit 1H
Field	Tyler	Wellbore	Dillon Unit 1H AWB
Facility	Terry Snider Pad		

WELLPATH DATA (353 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
0.00†	0.000	209.310	0.00	0.00	0.00	0.00	1650561.90	14295889.32	39°22'04.433"N	80°57'50.772"W	0.00	0.000	0.00	0.00	0.00	
25.00	0.000	209.310	25.00	0.00	0.00	0.00	1650561.90	14295889.32	39°22'04.433"N	80°57'50.772"W	0.00	0.000	0.00	0.00	0.00	
50.00	0.310	209.310	50.00	0.04	-0.06	-0.03	1650561.87	14295889.27	39°22'04.432"N	80°57'50.772"W	0.07	209.310	1.24	1.24	-602.76	Gyrodata Cont. Gyro <8-3/4"> (50'-5597')
75.00	0.550	183.790	75.00	0.19	-0.24	-0.07	1650561.83	14295889.09	39°22'04.431"N	80°57'50.773"W	0.25	197.326	1.21	0.96	-102.08	
100.00	0.580	184.160	100.00	0.42	-0.48	-0.09	1650561.81	14295888.84	39°22'04.428"N	80°57'50.773"W	0.49	190.686	0.12	0.12	1.48	
125.00	0.600	181.680	125.00	0.65	-0.74	-0.10	1650561.80	14295888.58	39°22'04.426"N	80°57'50.773"W	0.75	188.014	0.13	0.08	-9.92	
150.00	0.540	181.750	150.00	0.88	-0.99	-0.11	1650561.79	14295888.34	39°22'04.423"N	80°57'50.773"W	1.00	186.443	0.24	-0.24	0.28	
175.00	0.480	189.960	174.99	1.08	-1.21	-0.13	1650561.77	14295888.12	39°22'04.421"N	80°57'50.774"W	1.22	186.292	0.38	-0.24	32.84	
200.00	0.420	194.780	199.99	1.24	-1.40	-0.17	1650561.73	14295887.92	39°22'04.419"N	80°57'50.774"W	1.41	187.112	0.28	-0.24	19.28	
225.00	0.390	193.670	224.99	1.39	-1.57	-0.22	1650561.68	14295887.75	39°22'04.417"N	80°57'50.775"W	1.59	187.904	0.12	-0.12	-4.44	
250.00	0.330	197.110	249.99	1.51	-1.72	-0.26	1650561.64	14295887.60	39°22'04.416"N	80°57'50.775"W	1.74	188.563	0.25	-0.24	13.76	
275.00	0.320	200.560	274.99	1.62	-1.86	-0.31	1650561.60	14295887.47	39°22'04.415"N	80°57'50.776"W	1.88	189.330	0.09	-0.04	13.80	
300.00	0.290	198.870	299.99	1.72	-1.98	-0.35	1650561.55	14295887.34	39°22'04.413"N	80°57'50.776"W	2.01	190.015	0.13	-0.12	-6.76	
325.00	0.170	203.790	324.99	1.79	-2.08	-0.39	1650561.52	14295887.25	39°22'04.412"N	80°57'50.777"W	2.11	190.518	0.49	-0.48	19.68	
350.00	0.170	212.080	349.99	1.84	-2.14	-0.42	1650561.48	14295887.18	39°22'04.412"N	80°57'50.777"W	2.18	191.099	0.10	0.00	33.16	
375.00	0.170	201.110	374.99	1.89	-2.21	-0.45	1650561.45	14295887.12	39°22'04.411"N	80°57'50.778"W	2.26	191.600	0.13	0.00	-43.88	
400.00	0.140	203.330	399.99	1.94	-2.27	-0.48	1650561.42	14295887.05	39°22'04.411"N	80°57'50.778"W	2.32	191.905	0.12	-0.12	8.88	
425.00	0.150	186.260	424.99	1.99	-2.33	-0.49	1650561.41	14295886.99	39°22'04.410"N	80°57'50.778"W	2.38	191.973	0.18	0.04	-68.28	
450.00	0.110	173.640	449.99	2.04	-2.39	-0.50	1650561.41	14295886.94	39°22'04.409"N	80°57'50.778"W	2.44	191.719	0.20	-0.16	-50.48	
475.00	0.140	169.510	474.99	2.10	-2.44	-0.49	1650561.42	14295886.88	39°22'04.409"N	80°57'50.778"W	2.49	191.282	0.13	0.12	-16.52	
500.00	0.150	174.500	499.99	2.16	-2.51	-0.48	1650561.42	14295886.82	39°22'04.408"N	80°57'50.778"W	2.55	190.815	0.06	0.04	19.96	
525.00	0.120	154.240	524.99	2.22	-2.56	-0.46	1650561.44	14295886.76	39°22'04.408"N	80°57'50.778"W	2.60	190.270	0.22	-0.12	-81.04	
550.00	0.210	92.720	549.99	2.26	-2.59	-0.41	1650561.50	14295886.74	39°22'04.407"N	80°57'50.777"W	2.62	188.939	0.74	0.36	-246.08	
575.00	0.860	56.920	574.99	2.24	-2.49	-0.20	1650561.70	14295886.84	39°22'04.408"N	80°57'50.775"W	2.50	184.689	2.80	2.60	-143.20	
600.00	1.780	56.140	599.98	2.12	-2.17	0.28	1650562.18	14295887.16	39°22'04.412"N	80°57'50.769"W	2.19	172.755	3.68	3.68	-3.12	
625.00	2.520	55.800	624.96	1.91	-1.64	1.05	1650562.96	14295887.68	39°22'04.417"N	80°57'50.759"W	1.95	147.352	2.96	2.96	-1.36	
650.00	3.170	55.990	649.93	1.64	-0.95	2.08	1650563.98	14295888.38	39°22'04.424"N	80°57'50.746"W	2.29	114.487	2.60	2.60	0.76	
675.00	3.760	56.850	674.89	1.32	-0.11	3.34	1650565.24	14295889.21	39°22'04.432"N	80°57'50.729"W	3.34	91.930	2.37	2.36	3.44	
700.00	4.090	57.110	699.83	0.98	0.82	4.77	1650566.68	14295890.14	39°22'04.441"N	80°57'50.711"W	4.84	80.256	1.32	1.32	1.04	
725.00	4.470	57.330	724.76	0.61	1.83	6.34	1650568.24	14295891.15	39°22'04.451"N	80°57'50.691"W	6.60	73.908	1.52	1.52	0.88	



Actual Wellpath Report

Dillon Unit 1H AWP Proj: 16055'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #10
Area	Tyler County, WV	Well	Dillon Unit 1H
Field	Tyler	Wellbore	Dillon Unit 1H AWB
Facility	Terry Snider Pad		

WELLPATH DATA (353 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
750.00	4.900	57.760	749.68	0.22	2.93	8.07	1650569.97	14295892.25	39°22'04.462"N	80°57'50.669"W	8.58	70.066	1.73	1.72	1.72	
775.00	5.470	58.490	774.57	-0.20	4.12	9.99	1650571.88	14295893.44	39°22'04.474"N	80°57'50.645"W	10.80	67.590	2.30	2.28	2.92	
800.00	5.540	58.880	799.46	-0.61	5.36	12.03	1650573.93	14295894.69	39°22'04.486"N	80°57'50.619"W	13.18	65.976	0.32	0.28	1.56	
825.00	5.570	59.260	824.34	-1.01	6.61	14.11	1650576.01	14295895.93	39°22'04.498"N	80°57'50.592"W	15.58	64.906	0.19	0.12	1.52	
850.00	5.330	64.590	849.23	-1.29	7.73	16.20	1650578.10	14295897.05	39°22'04.509"N	80°57'50.566"W	17.95	64.504	2.24	-0.96	21.32	
875.00	5.090	70.480	874.13	-1.34	8.60	18.30	1650580.19	14295897.92	39°22'04.518"N	80°57'50.539"W	20.21	64.836	2.34	-0.96	23.56	
900.00	4.860	74.900	899.03	-1.19	9.24	20.36	1650582.26	14295898.56	39°22'04.524"N	80°57'50.513"W	22.36	65.590	1.79	-0.92	17.68	
925.00	4.570	76.950	923.95	-0.93	9.74	22.36	1650584.25	14295899.06	39°22'04.529"N	80°57'50.487"W	24.39	66.453	1.34	-1.16	8.20	
950.00	4.150	79.070	948.87	-0.62	10.14	24.21	1650586.11	14295899.46	39°22'04.533"N	80°57'50.464"W	26.25	67.281	1.80	-1.68	8.48	
975.00	3.780	80.170	973.81	-0.29	10.45	25.91	1650587.81	14295899.77	39°22'04.536"N	80°57'50.442"W	27.94	68.037	1.51	-1.48	4.40	
1000.00	3.500	80.720	998.76	0.04	10.71	27.48	1650589.37	14295900.04	39°22'04.539"N	80°57'50.422"W	29.50	68.699	1.13	-1.12	2.20	
1025.00	3.310	79.780	1023.72	0.33	10.97	28.94	1650590.83	14295900.29	39°22'04.541"N	80°57'50.403"W	30.95	69.250	0.79	-0.76	-3.76	
1050.00	3.110	77.940	1048.68	0.58	11.24	30.32	1650592.21	14295900.56	39°22'04.544"N	80°57'50.386"W	32.33	69.665	0.90	-0.80	-7.36	
1075.00	3.040	76.890	1073.64	0.79	11.53	31.63	1650593.52	14295900.85	39°22'04.547"N	80°57'50.369"W	33.66	69.973	0.36	-0.28	-4.20	
1100.00	2.660	70.240	1098.61	0.90	11.87	32.82	1650594.71	14295901.19	39°22'04.550"N	80°57'50.354"W	34.90	70.109	2.01	-1.52	-26.60	
1125.00	2.160	58.880	1123.59	0.84	12.31	33.77	1650595.66	14295901.63	39°22'04.555"N	80°57'50.342"W	35.94	69.964	2.76	-2.00	-45.44	
1150.00	1.880	39.230	1148.58	0.56	12.87	34.43	1650596.32	14295902.19	39°22'04.560"N	80°57'50.334"W	36.76	69.497	2.97	-1.12	-78.60	
1175.00	1.700	33.370	1173.56	0.14	13.50	34.89	1650596.78	14295902.82	39°22'04.566"N	80°57'50.328"W	37.41	68.845	1.03	-0.72	-23.44	
1200.00	1.260	19.580	1198.56	-0.28	14.07	35.19	1650597.08	14295903.39	39°22'04.572"N	80°57'50.324"W	37.90	68.205	2.25	-1.76	-55.16	
1225.00	0.910	357.100	1223.55	-0.68	14.53	35.27	1650597.16	14295903.85	39°22'04.576"N	80°57'50.323"W	38.15	67.613	2.18	-1.40	-89.92	
1250.00	0.740	329.740	1248.55	-1.02	14.87	35.18	1650597.07	14295904.18	39°22'04.580"N	80°57'50.324"W	38.19	67.092	1.69	-0.68	-109.44	
1275.00	0.670	312.480	1273.55	-1.32	15.10	34.99	1650596.88	14295904.42	39°22'04.582"N	80°57'50.326"W	38.11	66.652	0.89	-0.28	-69.04	
1300.00	0.700	266.890	1298.55	-1.49	15.19	34.73	1650596.62	14295904.51	39°22'04.583"N	80°57'50.330"W	37.91	66.370	2.13	0.12	-182.36	
1325.00	0.890	250.500	1323.54	-1.55	15.12	34.39	1650596.28	14295904.44	39°22'04.582"N	80°57'50.334"W	37.57	66.267	1.18	0.76	-65.56	
1350.00	1.010	242.220	1348.54	-1.53	14.95	34.02	1650595.91	14295904.27	39°22'04.581"N	80°57'50.339"W	37.16	66.269	0.73	0.48	-33.12	
1375.00	1.060	239.510	1373.54	-1.47	14.73	33.62	1650595.51	14295904.05	39°22'04.578"N	80°57'50.344"W	36.71	66.336	0.28	0.20	-10.84	
1400.00	1.110	229.820	1398.53	-1.35	14.46	33.24	1650595.13	14295903.78	39°22'04.576"N	80°57'50.349"W	36.25	66.488	0.76	0.20	-38.76	
1425.00	1.160	222.650	1423.53	-1.17	14.12	32.88	1650594.77	14295903.44	39°22'04.572"N	80°57'50.353"W	35.78	66.763	0.60	0.20	-28.68	
1450.00	1.200	217.600	1448.52	-0.92	13.72	32.55	1650594.44	14295903.04	39°22'04.569"N	80°57'50.357"W	35.33	67.138	0.45	0.16	-20.20	
1475.00	1.220	215.650	1473.52	-0.64	13.30	32.24	1650594.13	14295902.62	39°22'04.564"N	80°57'50.361"W	34.87	67.578	0.18	0.08	-7.80	



Actual Wellpath Report

Dillon Unit 1H AWP Proj: 16055'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #10
Area	Tyler County, WV	Well	Dillon Unit 1H
Field	Tyler	Wellbore	Dillon Unit 1H AWB
Facility	Terry Snider Pad		

WELLPATH DATA (353 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
1500.00	1.150	214.710	1498.51	-0.36	12.88	31.94	1650593.83	14295902.20	39°22'04.560"N	80°57'50.365"W	34.44	68.039	0.29	-0.28	-3.76	
1525.00	0.770	212.330	1523.51	-0.12	12.53	31.70	1650593.60	14295901.85	39°22'04.557"N	80°57'50.368"W	34.09	68.436	1.53	-1.52	-9.52	
1550.00	0.560	206.650	1548.50	0.07	12.28	31.56	1650593.45	14295901.60	39°22'04.554"N	80°57'50.370"W	33.86	68.741	0.88	-0.84	-22.72	
1575.00	0.490	204.460	1573.50	0.22	12.07	31.46	1650593.35	14295901.39	39°22'04.552"N	80°57'50.371"W	33.70	69.007	0.29	-0.28	-8.76	
1600.00	0.460	210.790	1598.50	0.36	11.89	31.37	1650593.26	14295901.21	39°22'04.550"N	80°57'50.373"W	33.54	69.241	0.24	-0.12	25.32	
1625.00	0.440	206.770	1623.50	0.48	11.72	31.27	1650593.16	14295901.04	39°22'04.549"N	80°57'50.374"W	33.39	69.459	0.15	-0.08	-16.08	
1650.00	0.440	209.670	1648.50	0.61	11.55	31.18	1650593.07	14295900.87	39°22'04.547"N	80°57'50.375"W	33.25	69.677	0.09	0.00	11.60	
1675.00	0.470	213.570	1673.50	0.73	11.38	31.08	1650592.97	14295900.70	39°22'04.545"N	80°57'50.376"W	33.09	69.889	0.17	0.12	15.60	
1700.00	0.480	221.110	1698.50	0.83	11.21	30.95	1650592.84	14295900.53	39°22'04.544"N	80°57'50.378"W	32.92	70.082	0.25	0.04	30.16	
1725.00	0.510	224.900	1723.50	0.93	11.06	30.80	1650592.69	14295900.38	39°22'04.542"N	80°57'50.380"W	32.73	70.254	0.18	0.12	15.16	
1750.00	0.540	230.410	1748.50	1.01	10.90	30.63	1650592.52	14295900.22	39°22'04.541"N	80°57'50.382"W	32.52	70.408	0.23	0.12	22.04	
1775.00	0.520	232.030	1773.50	1.08	10.76	30.45	1650592.34	14295900.08	39°22'04.539"N	80°57'50.384"W	32.30	70.543	0.10	-0.08	6.48	
1800.00	0.500	238.990	1798.50	1.13	10.63	30.27	1650592.16	14295899.95	39°22'04.538"N	80°57'50.387"W	32.08	70.647	0.26	-0.08	27.84	
1825.00	0.500	249.660	1823.49	1.15	10.54	30.07	1650591.97	14295899.86	39°22'04.537"N	80°57'50.389"W	31.87	70.690	0.37	0.00	42.68	
1850.00	0.510	254.980	1848.49	1.13	10.47	29.87	1650591.76	14295899.79	39°22'04.536"N	80°57'50.392"W	31.65	70.678	0.19	0.04	21.28	
1875.00	0.480	258.290	1873.49	1.10	10.42	29.66	1650591.55	14295899.74	39°22'04.536"N	80°57'50.394"W	31.43	70.638	0.17	-0.12	13.24	
1900.00	0.470	257.170	1898.49	1.07	10.38	29.45	1650591.34	14295899.70	39°22'04.535"N	80°57'50.397"W	31.23	70.591	0.05	-0.04	-4.48	
1925.00	0.380	254.120	1923.49	1.05	10.33	29.27	1650591.16	14295899.65	39°22'04.535"N	80°57'50.399"W	31.04	70.559	0.37	-0.36	-12.20	
1950.00	0.270	240.590	1948.49	1.05	10.28	29.14	1650591.03	14295899.60	39°22'04.534"N	80°57'50.401"W	30.90	70.569	0.53	-0.44	-54.12	
1975.00	0.230	219.510	1973.49	1.08	10.21	29.06	1650590.95	14295899.53	39°22'04.534"N	80°57'50.402"W	30.80	70.636	0.40	-0.16	-84.32	
2000.00	0.210	220.410	1998.49	1.12	10.14	29.00	1650590.89	14295899.46	39°22'04.533"N	80°57'50.403"W	30.72	70.727	0.08	-0.08	3.60	
2025.00	0.190	201.730	2023.49	1.18	10.07	28.95	1650590.84	14295899.39	39°22'04.532"N	80°57'50.403"W	30.65	70.829	0.27	-0.08	-74.72	
2050.00	0.220	187.850	2048.49	1.25	9.98	28.93	1650590.82	14295899.30	39°22'04.532"N	80°57'50.404"W	30.60	70.968	0.23	0.12	-55.52	
2075.00	0.250	164.820	2073.49	1.34	9.88	28.94	1650590.83	14295899.20	39°22'04.531"N	80°57'50.403"W	30.58	71.150	0.39	0.12	-92.12	
2100.00	0.310	159.370	2098.49	1.47	9.76	28.98	1650590.87	14295899.08	39°22'04.529"N	80°57'50.403"W	30.58	71.379	0.26	0.24	-21.80	
2125.00	0.270	155.620	2123.49	1.59	9.65	29.02	1650590.92	14295898.97	39°22'04.528"N	80°57'50.402"W	30.59	71.615	0.18	-0.16	-15.00	
2150.00	0.310	158.100	2148.49	1.72	9.53	29.07	1650590.96	14295898.85	39°22'04.527"N	80°57'50.402"W	30.60	71.851	0.17	0.16	9.92	
2175.00	0.300	148.680	2173.49	1.85	9.41	29.13	1650591.02	14295898.73	39°22'04.526"N	80°57'50.401"W	30.62	72.097	0.20	-0.04	-37.68	
2200.00	0.330	139.330	2198.49	1.98	9.30	29.21	1650591.11	14295898.62	39°22'04.525"N	80°57'50.400"W	30.66	72.340	0.24	0.12	-37.40	
2225.00	0.390	128.530	2223.49	2.13	9.19	29.33	1650591.22	14295898.51	39°22'04.524"N	80°57'50.399"W	30.73	72.595	0.36	0.24	-43.20	



Actual Wellpath Report

Dillon Unit 1H AWP Proj: 16055'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #10
Area	Tyler County, WV	Well	Dillon Unit 1H
Field	Tyler	Wellbore	Dillon Unit 1H AWB
Facility	Terry Snider Pad		

WELLPATH DATA (353 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
2250.00	0.440	111.760	2248.49	2.26	9.10	29.48	1650591.37	14295898.43	39°22'04.523"N	80°57'50.397"W	30.86	72.839	0.52	0.20	-67.08	
2275.00	0.480	109.290	2273.49	2.40	9.03	29.67	1650591.56	14295898.36	39°22'04.522"N	80°57'50.394"W	31.02	73.065	0.18	0.16	-9.88	
2300.00	0.480	109.660	2298.49	2.54	8.96	29.87	1650591.76	14295898.29	39°22'04.521"N	80°57'50.392"W	31.18	73.293	0.01	0.00	1.48	
2325.00	0.510	110.150	2323.48	2.68	8.89	30.07	1650591.96	14295898.21	39°22'04.521"N	80°57'50.389"W	31.36	73.529	0.12	0.12	1.96	
2350.00	0.450	107.170	2348.48	2.81	8.82	30.27	1650592.16	14295898.14	39°22'04.520"N	80°57'50.387"W	31.53	73.748	0.26	-0.24	-11.92	
2375.00	0.490	111.850	2373.48	2.95	8.76	30.46	1650592.35	14295898.08	39°22'04.519"N	80°57'50.384"W	31.70	73.965	0.22	0.16	18.72	
2400.00	0.470	112.960	2398.48	3.09	8.68	30.66	1650592.55	14295898.00	39°22'04.519"N	80°57'50.382"W	31.86	74.199	0.09	-0.08	4.44	
2425.00	0.470	111.930	2423.48	3.23	8.60	30.85	1650592.74	14295897.92	39°22'04.518"N	80°57'50.379"W	32.02	74.426	0.03	0.00	-4.12	
2450.00	0.520	113.330	2448.48	3.38	8.51	31.05	1650592.94	14295897.84	39°22'04.517"N	80°57'50.377"W	32.19	74.664	0.21	0.20	5.60	
2475.00	0.430	112.060	2473.48	3.53	8.43	31.24	1650593.13	14295897.75	39°22'04.516"N	80°57'50.374"W	32.35	74.891	0.36	-0.36	-5.08	
2500.00	0.460	111.340	2498.48	3.66	8.36	31.42	1650593.31	14295897.68	39°22'04.516"N	80°57'50.372"W	32.51	75.096	0.12	0.12	-2.88	
2525.00	0.480	113.420	2523.48	3.80	8.28	31.61	1650593.50	14295897.61	39°22'04.515"N	80°57'50.370"W	32.67	75.314	0.11	0.08	8.32	
2550.00	0.460	118.200	2548.48	3.95	8.19	31.79	1650593.68	14295897.52	39°22'04.514"N	80°57'50.367"W	32.83	75.546	0.18	-0.08	19.12	
2575.00	0.400	116.480	2573.48	4.09	8.11	31.96	1650593.85	14295897.43	39°22'04.513"N	80°57'50.365"W	32.97	75.763	0.25	-0.24	-6.88	
2600.00	0.370	118.180	2598.48	4.22	8.03	32.11	1650594.00	14295897.35	39°22'04.512"N	80°57'50.363"W	33.10	75.956	0.13	-0.12	6.80	
2625.00	0.310	110.140	2623.47	4.33	7.97	32.24	1650594.13	14295897.27	39°22'04.512"N	80°57'50.361"W	33.21	76.115	0.31	-0.24	-32.16	
2650.00	0.670	33.620	2648.47	4.29	8.07	32.39	1650594.28	14295897.39	39°22'04.513"N	80°57'50.360"W	33.38	76.010	2.68	1.44	-306.08	
2675.00	1.210	15.520	2673.47	3.99	8.44	32.54	1650594.43	14295897.77	39°22'04.516"N	80°57'50.358"W	33.62	75.451	2.44	2.16	-72.40	
2700.00	1.360	14.120	2698.46	3.54	8.99	32.68	1650594.57	14295898.31	39°22'04.522"N	80°57'50.356"W	33.89	74.625	0.61	0.60	-5.60	
2725.00	1.450	12.120	2723.46	3.03	9.58	32.82	1650594.71	14295898.90	39°22'04.528"N	80°57'50.354"W	34.19	73.722	0.41	0.36	-8.00	
2750.00	2.770	8.400	2748.44	2.25	10.49	32.97	1650594.86	14295899.81	39°22'04.537"N	80°57'50.352"W	34.60	72.352	5.31	5.28	-14.88	
2775.00	3.590	6.400	2773.40	1.03	11.87	33.15	1650595.04	14295901.19	39°22'04.550"N	80°57'50.350"W	35.21	70.305	3.31	3.28	-8.00	
2800.00	3.950	4.810	2798.35	-0.44	13.50	33.31	1650595.20	14295902.82	39°22'04.566"N	80°57'50.348"W	35.94	67.935	1.50	1.44	-6.36	
2825.00	4.150	4.510	2823.28	-2.02	15.26	33.45	1650595.34	14295904.58	39°22'04.584"N	80°57'50.346"W	36.77	65.476	0.80	0.80	-1.20	
2850.00	5.290	4.900	2848.20	-3.87	17.31	33.62	1650595.51	14295906.63	39°22'04.604"N	80°57'50.344"W	37.82	62.756	4.56	4.56	1.56	
2875.00	5.620	4.120	2873.09	-6.01	19.68	33.81	1650595.70	14295909.00	39°22'04.627"N	80°57'50.341"W	39.12	59.795	1.35	1.32	-3.12	
2900.00	5.740	3.630	2897.96	-8.25	22.15	33.98	1650595.86	14295911.47	39°22'04.652"N	80°57'50.339"W	40.56	56.898	0.52	0.48	-1.96	
2925.00	5.890	4.970	2922.83	-10.53	24.68	34.17	1650596.05	14295913.99	39°22'04.677"N	80°57'50.337"W	42.14	54.162	0.81	0.60	5.36	
2950.00	6.390	9.750	2947.69	-12.87	27.32	34.51	1650596.40	14295916.64	39°22'04.703"N	80°57'50.332"W	44.02	51.630	2.86	2.00	19.12	
2975.00	6.490	10.190	2972.53	-15.26	30.09	35.00	1650596.89	14295919.40	39°22'04.730"N	80°57'50.326"W	46.15	49.316	0.45	0.40	1.76	



Actual Wellpath Report

Dillon Unit 1H AWP Proj: 16055'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #10
Area	Tyler County, WV	Well	Dillon Unit 1H
Field	Tyler	Wellbore	Dillon Unit 1H AWB
Facility	Terry Snider Pad		

WELLPATH DATA (353 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
3000.00	6.520	10.200	2997.37	-17.68	32.87	35.50	1650597.39	14295922.18	39°22'04.758"N	80°57'50.320"W	48.38	47.199	0.12	0.12	0.04	
3025.00	6.720	14.200	3022.21	-20.08	35.69	36.11	1650598.00	14295925.00	39°22'04.786"N	80°57'50.312"W	50.77	45.336	2.01	0.80	16.00	
3050.00	7.030	19.360	3047.03	-22.43	38.55	36.98	1650598.86	14295927.86	39°22'04.814"N	80°57'50.301"W	53.42	43.806	2.76	1.24	20.64	
3075.00	7.040	19.400	3071.84	-24.75	41.44	37.99	1650599.88	14295930.75	39°22'04.842"N	80°57'50.288"W	56.22	42.515	0.04	0.04	0.16	
3100.00	7.110	19.480	3096.65	-27.08	44.34	39.02	1650600.90	14295933.65	39°22'04.871"N	80°57'50.275"W	59.06	41.344	0.28	0.28	0.32	
3125.00	7.360	24.350	3121.45	-29.36	47.26	40.19	1650602.08	14295936.56	39°22'04.900"N	80°57'50.260"W	62.04	40.380	2.65	1.00	19.48	
3150.00	7.600	27.300	3146.24	-31.57	50.19	41.61	1650603.50	14295939.49	39°22'04.929"N	80°57'50.242"W	65.19	39.662	1.81	0.96	11.80	
3175.00	7.620	27.540	3171.02	-33.76	53.13	43.14	1650605.02	14295942.43	39°22'04.958"N	80°57'50.223"W	68.43	39.075	0.15	0.08	0.96	
3200.00	7.730	27.410	3195.79	-35.95	56.09	44.68	1650606.56	14295945.39	39°22'04.987"N	80°57'50.203"W	71.71	38.538	0.45	0.44	-0.52	
3225.00	8.250	26.390	3220.55	-38.27	59.19	46.25	1650608.13	14295948.49	39°22'05.018"N	80°57'50.183"W	75.11	38.003	2.16	2.08	-4.08	
3250.00	8.490	25.350	3245.28	-40.74	62.46	47.83	1650609.72	14295951.76	39°22'05.050"N	80°57'50.163"W	78.67	37.445	1.13	0.96	-4.16	
3275.00	8.570	24.180	3270.01	-43.31	65.83	49.39	1650611.27	14295955.13	39°22'05.083"N	80°57'50.143"W	82.30	36.878	0.76	0.32	-4.68	
3300.00	8.600	23.740	3294.73	-45.93	69.24	50.90	1650612.79	14295958.54	39°22'05.117"N	80°57'50.124"W	85.94	36.322	0.29	0.12	-1.76	
3325.00	8.970	23.140	3319.43	-48.64	72.74	52.42	1650614.30	14295962.04	39°22'05.152"N	80°57'50.104"W	89.66	35.778	1.52	1.48	-2.40	
3350.00	8.990	22.540	3344.13	-51.44	76.34	53.94	1650615.82	14295965.63	39°22'05.187"N	80°57'50.085"W	93.47	35.242	0.38	0.08	-2.40	
3375.00	8.940	21.580	3368.82	-54.27	79.95	55.40	1650617.28	14295969.24	39°22'05.223"N	80°57'50.066"W	97.27	34.719	0.63	-0.20	-3.84	
3400.00	8.900	22.060	3393.52	-57.09	83.55	56.84	1650618.72	14295972.84	39°22'05.259"N	80°57'50.048"W	101.05	34.228	0.34	-0.16	1.92	
3425.00	9.110	26.610	3418.21	-59.82	87.11	58.45	1650620.33	14295976.40	39°22'05.294"N	80°57'50.027"W	104.90	33.863	2.97	0.84	18.20	
3450.00	9.110	27.000	3442.90	-62.46	90.64	60.24	1650622.12	14295979.93	39°22'05.329"N	80°57'50.005"W	108.83	33.606	0.25	0.00	1.56	
3475.00	9.030	26.620	3467.58	-65.09	94.16	62.02	1650623.89	14295983.45	39°22'05.363"N	80°57'49.982"W	112.75	33.369	0.40	-0.32	-1.52	
3500.00	9.220	28.080	3492.27	-67.70	97.68	63.84	1650625.71	14295986.97	39°22'05.398"N	80°57'49.959"W	116.69	33.166	1.20	0.76	5.84	
3525.00	9.560	29.230	3516.93	-70.32	101.26	65.79	1650627.67	14295990.54	39°22'05.434"N	80°57'49.934"W	120.76	33.014	1.55	1.36	4.60	
3550.00	9.650	29.490	3541.58	-72.96	104.90	67.84	1650629.71	14295994.18	39°22'05.469"N	80°57'49.908"W	124.92	32.892	0.40	0.36	1.04	
3575.00	9.610	27.000	3566.23	-75.67	108.58	69.82	1650631.69	14295997.86	39°22'05.506"N	80°57'49.882"W	129.09	32.742	1.67	-0.16	-9.96	
3600.00	10.040	25.090	3590.86	-78.56	112.41	71.69	1650633.56	14296001.69	39°22'05.544"N	80°57'49.859"W	133.33	32.527	2.16	1.72	-7.64	
3625.00	10.370	23.320	3615.47	-81.66	116.45	73.50	1650635.38	14296005.73	39°22'05.584"N	80°57'49.836"W	137.71	32.260	1.82	1.32	-7.08	
3650.00	10.470	22.510	3640.05	-84.90	120.62	75.26	1650637.14	14296009.89	39°22'05.625"N	80°57'49.813"W	142.17	31.964	0.71	0.40	-3.24	
3675.00	10.410	21.600	3664.64	-88.19	124.81	76.97	1650638.84	14296014.09	39°22'05.666"N	80°57'49.791"W	146.64	31.660	0.70	-0.24	-3.64	
3700.00	10.510	22.670	3689.23	-91.48	129.02	78.68	1650640.55	14296018.29	39°22'05.708"N	80°57'49.770"W	151.11	31.375	0.87	0.40	4.28	
3725.00	10.440	22.740	3713.81	-94.74	133.21	80.43	1650642.30	14296022.48	39°22'05.749"N	80°57'49.747"W	155.61	31.123	0.28	-0.28	0.28	



Actual Wellpath Report

Dillon Unit 1H AWP Proj: 16055'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #10
Area	Tyler County, WV	Well	Dillon Unit 1H
Field	Tyler	Wellbore	Dillon Unit 1H AWB
Facility	Terry Snider Pad		

WELLPATH DATA (353 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
3750.00	10.340	22.230	3738.40	-98.00	137.38	82.15	1650644.02	14296026.65	39°22'05.790"N	80°57'49.725"W	160.07	30.880	0.54	-0.40	-2.04	
3775.00	10.330	22.050	3762.99	-101.25	141.53	83.84	1650645.71	14296030.80	39°22'05.832"N	80°57'49.704"W	164.50	30.643	0.14	-0.04	-0.72	
3800.00	10.560	21.820	3787.58	-104.55	145.74	85.54	1650647.41	14296035.00	39°22'05.873"N	80°57'49.682"W	168.98	30.410	0.93	0.92	-0.92	
3825.00	10.710	21.580	3812.15	-107.92	150.02	87.24	1650649.11	14296039.29	39°22'05.915"N	80°57'49.660"W	173.55	30.180	0.63	0.60	-0.96	
3850.00	10.700	19.790	3836.71	-111.37	154.37	88.88	1650650.75	14296043.63	39°22'05.958"N	80°57'49.639"W	178.13	29.933	1.33	-0.04	-7.16	
3875.00	10.770	18.880	3861.28	-114.90	158.76	90.43	1650652.29	14296048.02	39°22'06.002"N	80°57'49.620"W	182.71	29.665	0.73	0.28	-3.64	
3900.00	11.180	20.090	3885.82	-118.49	163.25	92.01	1650653.88	14296052.51	39°22'06.046"N	80°57'49.600"W	187.39	29.408	1.88	1.64	4.84	
3925.00	11.210	20.040	3910.34	-122.13	167.81	93.68	1650655.54	14296057.06	39°22'06.091"N	80°57'49.578"W	192.18	29.173	0.13	0.12	-0.20	
3950.00	11.280	19.400	3934.86	-125.81	172.40	95.32	1650657.19	14296061.65	39°22'06.137"N	80°57'49.557"W	196.99	28.940	0.57	0.28	-2.56	
3975.00	11.400	21.120	3959.38	-129.48	177.01	97.03	1650658.89	14296066.26	39°22'06.182"N	80°57'49.536"W	201.85	28.729	1.44	0.48	6.88	
4000.00	11.600	24.100	3983.87	-133.07	181.61	98.94	1650660.81	14296070.86	39°22'06.228"N	80°57'49.511"W	206.81	28.583	2.51	0.80	11.92	
4025.00	11.740	24.190	4008.36	-136.61	186.22	101.01	1650662.87	14296075.47	39°22'06.273"N	80°57'49.485"W	211.85	28.477	0.56	0.56	0.36	
4050.00	11.650	24.000	4032.84	-140.16	190.85	103.08	1650664.94	14296080.09	39°22'06.319"N	80°57'49.459"W	216.90	28.374	0.39	-0.36	-0.76	
4075.00	11.420	26.700	4057.33	-143.59	195.36	105.22	1650667.08	14296084.61	39°22'06.363"N	80°57'49.431"W	221.90	28.306	2.35	-0.92	10.80	
4100.00	11.150	28.360	4081.85	-146.81	199.70	107.48	1650669.34	14296088.95	39°22'06.406"N	80°57'49.402"W	226.79	28.289	1.69	-1.08	6.64	
4125.00	10.800	28.750	4106.39	-149.87	203.88	109.75	1650671.61	14296093.12	39°22'06.448"N	80°57'49.373"W	231.55	28.295	1.43	-1.40	1.56	
4150.00	10.700	28.800	4130.95	-152.86	207.97	112.00	1650673.86	14296097.21	39°22'06.488"N	80°57'49.345"W	236.21	28.304	0.40	-0.40	0.20	
4175.00	10.940	32.040	4155.51	-155.76	212.01	114.38	1650676.23	14296101.25	39°22'06.528"N	80°57'49.315"W	240.90	28.346	2.62	0.96	12.96	
4200.00	11.100	32.470	4180.05	-158.59	216.06	116.93	1650678.78	14296105.29	39°22'06.568"N	80°57'49.282"W	245.67	28.422	0.72	0.64	1.72	
4225.00	11.170	31.800	4204.58	-161.47	220.14	119.49	1650681.35	14296109.38	39°22'06.608"N	80°57'49.249"W	250.48	28.493	0.59	0.28	-2.68	
4250.00	11.190	31.960	4229.10	-164.37	224.26	122.05	1650683.91	14296113.49	39°22'06.649"N	80°57'49.217"W	255.32	28.557	0.15	0.08	0.64	
4275.00	11.480	32.170	4253.62	-167.29	228.42	124.66	1650686.52	14296117.66	39°22'06.690"N	80°57'49.184"W	260.23	28.624	1.17	1.16	0.84	
4300.00	11.530	31.610	4278.11	-170.28	232.66	127.30	1650689.15	14296121.89	39°22'06.732"N	80°57'49.150"W	265.21	28.685	0.49	0.20	-2.24	
4325.00	11.480	30.170	4302.61	-173.33	236.94	129.86	1650691.71	14296126.17	39°22'06.774"N	80°57'49.117"W	270.19	28.726	1.17	-0.20	-5.76	
4350.00	11.370	29.480	4327.12	-176.43	241.23	132.32	1650694.17	14296130.46	39°22'06.817"N	80°57'49.086"W	275.14	28.745	0.70	-0.44	-2.76	
4375.00	11.240	28.730	4351.63	-179.55	245.51	134.70	1650696.55	14296134.74	39°22'06.859"N	80°57'49.056"W	280.04	28.752	0.79	-0.52	-3.00	
4400.00	10.790	26.030	4376.17	-182.70	249.75	136.90	1650698.75	14296138.98	39°22'06.901"N	80°57'49.028"W	284.81	28.729	2.74	-1.80	-10.80	
4425.00	10.590	22.800	4400.74	-185.93	253.97	138.82	1650700.67	14296143.20	39°22'06.943"N	80°57'49.003"W	289.44	28.660	2.53	-0.80	-12.92	
4450.00	10.590	23.940	4425.31	-189.19	258.19	140.64	1650702.49	14296147.41	39°22'06.984"N	80°57'48.980"W	294.01	28.578	0.84	0.00	4.56	
4475.00	10.650	26.280	4449.88	-192.36	262.36	142.60	1650704.44	14296151.58	39°22'07.026"N	80°57'48.955"W	298.61	28.524	1.74	0.24	9.36	



Actual Wellpath Report

Dillon Unit 1H AWP Proj: 16055'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION		Slot #10
Area	Tyler County, WV		Well
Field	Tyler		Wellbore
Facility	Terry Snider Pad		Dillon Unit 1H AWB

WELLPATH DATA (353 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
4500.00	10.840	25.930	4474.45	-195.51	266.55	144.65	1650706.49	14296155.76	39°22'07.067"N	80°57'48.929"W	303.27	28.487	0.80	0.76	-1.40	
4525.00	10.960	26.100	4498.99	-198.71	270.80	146.72	1650708.56	14296160.01	39°22'07.109"N	80°57'48.902"W	307.99	28.449	0.50	0.48	0.68	
4550.00	11.410	28.330	4523.52	-201.92	275.11	148.94	1650710.78	14296164.32	39°22'07.151"N	80°57'48.874"W	312.84	28.431	2.50	1.80	8.92	
4575.00	11.800	29.120	4548.01	-205.15	279.52	151.36	1650713.20	14296168.73	39°22'07.195"N	80°57'48.843"W	317.87	28.435	1.68	1.56	3.16	
4600.00	11.970	29.440	4572.47	-208.41	284.01	153.88	1650715.72	14296173.22	39°22'07.239"N	80°57'48.811"W	323.01	28.449	0.73	0.68	1.28	
4625.00	12.080	29.510	4596.92	-211.70	288.54	156.44	1650718.28	14296177.75	39°22'07.284"N	80°57'48.779"W	328.22	28.465	0.44	0.44	0.28	
4650.00	12.150	31.140	4621.37	-214.95	293.07	159.09	1650720.93	14296182.28	39°22'07.329"N	80°57'48.745"W	333.46	28.494	1.40	0.28	6.52	
4675.00	12.230	31.560	4645.80	-218.15	297.58	161.83	1650723.67	14296186.78	39°22'07.373"N	80°57'48.710"W	338.74	28.539	0.48	0.32	1.68	
4700.00	12.320	30.680	4670.23	-221.38	302.13	164.58	1650726.42	14296191.33	39°22'07.418"N	80°57'48.675"W	344.05	28.579	0.83	0.36	-3.52	
4725.00	12.330	29.770	4694.66	-224.70	306.74	167.27	1650729.10	14296195.94	39°22'07.464"N	80°57'48.641"W	349.38	28.604	0.78	0.04	-3.64	
4750.00	12.630	29.110	4719.06	-228.11	311.44	169.92	1650731.76	14296200.64	39°22'07.511"N	80°57'48.607"W	354.78	28.617	1.33	1.20	-2.64	
4775.00	12.890	28.380	4743.45	-231.65	316.29	172.58	1650734.41	14296205.48	39°22'07.558"N	80°57'48.573"W	360.30	28.618	1.22	1.04	-2.92	
4800.00	12.560	30.180	4767.83	-235.15	321.09	175.27	1650737.10	14296210.28	39°22'07.606"N	80°57'48.539"W	365.81	28.628	2.06	-1.32	7.20	
4825.00	12.450	28.750	4792.24	-238.56	325.80	177.93	1650739.76	14296214.99	39°22'07.652"N	80°57'48.505"W	371.22	28.640	1.31	-0.44	-5.72	
4850.00	11.720	28.800	4816.69	-241.92	330.39	180.45	1650742.28	14296219.58	39°22'07.698"N	80°57'48.473"W	376.46	28.642	2.92	-2.92	0.20	
4875.00	11.490	28.700	4841.18	-245.14	334.80	182.87	1650744.70	14296223.99	39°22'07.741"N	80°57'48.442"W	381.49	28.644	0.92	-0.92	-0.40	
4900.00	11.310	28.620	4865.68	-248.32	339.13	185.24	1650747.07	14296228.32	39°22'07.784"N	80°57'48.412"W	386.43	28.644	0.72	-0.72	-0.32	
4925.00	10.370	28.300	4890.24	-251.35	343.27	187.48	1650749.31	14296232.45	39°22'07.825"N	80°57'48.383"W	391.13	28.642	3.77	-3.76	-1.28	
4950.00	9.800	27.900	4914.85	-254.19	347.13	189.54	1650751.37	14296236.31	39°22'07.863"N	80°57'48.357"W	395.51	28.636	2.30	-2.28	-1.60	
4975.00	9.620	27.200	4939.49	-256.97	350.87	191.49	1650753.32	14296240.05	39°22'07.900"N	80°57'48.332"W	399.72	28.624	0.86	-0.72	-2.80	
5000.00	9.330	27.140	4964.15	-259.69	354.53	193.37	1650755.20	14296243.71	39°22'07.936"N	80°57'48.308"W	403.84	28.610	1.16	-1.16	-0.24	
5025.00	8.560	26.960	4988.85	-262.27	357.99	195.14	1650756.97	14296247.17	39°22'07.970"N	80°57'48.285"W	407.72	28.595	3.08	-3.08	-0.72	
5050.00	8.310	25.980	5013.58	-264.73	361.27	196.78	1650758.60	14296250.45	39°22'08.003"N	80°57'48.265"W	411.39	28.576	1.15	-1.00	-3.92	
5075.00	8.410	26.270	5038.31	-267.19	364.54	198.38	1650760.20	14296253.71	39°22'08.035"N	80°57'48.244"W	415.02	28.555	0.43	0.40	1.16	
5100.00	8.630	25.110	5063.03	-269.71	367.87	199.98	1650761.80	14296257.05	39°22'08.068"N	80°57'48.224"W	418.72	28.529	1.12	0.88	-4.64	
5125.00	8.760	25.150	5087.75	-272.31	371.30	201.59	1650763.41	14296260.47	39°22'08.102"N	80°57'48.203"W	422.49	28.499	0.52	0.52	0.16	
5150.00	8.760	24.860	5112.45	-274.94	374.75	203.20	1650765.02	14296263.92	39°22'08.136"N	80°57'48.183"W	426.29	28.468	0.18	0.00	-1.16	
5175.00	8.790	24.670	5137.16	-277.58	378.21	204.79	1650766.61	14296267.38	39°22'08.170"N	80°57'48.162"W	430.10	28.435	0.17	0.12	-0.76	
5200.00	8.800	25.610	5161.87	-280.21	381.67	206.42	1650768.24	14296270.84	39°22'08.204"N	80°57'48.142"W	433.91	28.406	0.58	0.04	3.76	
5225.00	8.730	28.010	5186.58	-282.75	385.07	208.13	1650769.95	14296274.24	39°22'08.238"N	80°57'48.120"W	437.72	28.392	1.49	-0.28	9.60	



Actual Wellpath Report

Dillon Unit 1H AWP Proj: 16055'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Slot	Slot #10
Area	Tyler County, WV		Well	Dillon Unit 1H
Field	Tyler		Wellbore	Dillon Unit 1H AWB
Facility	Terry Snider Pad			

WELLPATH DATA (353 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
5250.00	8.610	28.310	5211.29	-285.20	388.39	209.91	1650771.73	14296277.56	39°22'08.271"N	80°57'48.097"W	441.49	28.390	0.51	-0.48	1.20	
5275.00	8.590	28.640	5236.01	-287.61	391.68	211.70	1650773.51	14296280.84	39°22'08.303"N	80°57'48.075"W	445.23	28.391	0.21	-0.08	1.32	
5300.00	8.430	27.650	5260.73	-290.01	394.94	213.44	1650775.26	14296284.10	39°22'08.336"N	80°57'48.052"W	448.93	28.389	0.87	-0.64	-3.96	
5325.00	8.320	25.630	5285.47	-292.45	398.19	215.07	1650776.89	14296287.36	39°22'08.368"N	80°57'48.031"W	452.56	28.375	1.26	-0.44	-8.08	
5350.00	8.280	24.810	5310.21	-294.93	401.46	216.61	1650778.43	14296290.62	39°22'08.400"N	80°57'48.012"W	456.17	28.350	0.50	-0.16	-3.28	
5375.00	8.540	24.730	5334.94	-297.46	404.78	218.14	1650779.96	14296293.94	39°22'08.433"N	80°57'47.992"W	459.82	28.321	1.04	1.04	-0.32	
5400.00	9.110	24.600	5359.64	-300.12	408.26	219.74	1650781.56	14296297.42	39°22'08.467"N	80°57'47.972"W	463.64	28.291	2.28	2.28	-0.52	
5425.00	9.890	24.290	5384.30	-303.00	412.02	221.45	1650783.26	14296301.18	39°22'08.504"N	80°57'47.950"W	467.76	28.257	3.13	3.12	-1.24	
5450.00	10.180	24.980	5408.92	-306.02	415.98	223.27	1650785.08	14296305.14	39°22'08.543"N	80°57'47.927"W	472.11	28.224	1.26	1.16	2.76	
5475.00	10.320	26.470	5433.52	-309.05	419.99	225.20	1650787.01	14296309.14	39°22'08.583"N	80°57'47.902"W	476.55	28.200	1.20	0.56	5.96	
5500.00	10.710	27.410	5458.10	-312.09	424.05	227.27	1650789.08	14296313.21	39°22'08.623"N	80°57'47.876"W	481.11	28.188	1.70	1.56	3.76	
5525.00	10.780	27.740	5482.66	-315.15	428.18	229.42	1650791.23	14296317.34	39°22'08.664"N	80°57'47.849"W	485.77	28.183	0.37	0.28	1.32	
5550.00	10.910	28.110	5507.21	-318.21	432.34	231.63	1650793.44	14296321.49	39°22'08.705"N	80°57'47.821"W	490.48	28.180	0.59	0.52	1.48	
5575.00	10.790	27.490	5531.76	-321.29	436.50	233.82	1650795.63	14296325.65	39°22'08.746"N	80°57'47.793"W	495.18	28.177	0.67	-0.48	-2.48	
5597.00	10.620	26.940	5553.38	-323.99	440.14	235.69	1650797.50	14296329.29	39°22'08.782"N	80°57'47.769"W	499.27	28.169	0.90	-0.77	-2.50	
5731.00	12.380	27.020	5684.69	-341.75	463.94	247.81	1650809.61	14296353.08	39°22'09.017"N	80°57'47.614"W	525.98	28.108	1.31	1.31	0.06	BHI AT Curve <8-1/2"> (5597')(5731'-16030')
5777.00	12.410	39.190	5729.62	-347.45	472.17	253.18	1650814.98	14296361.30	39°22'09.099"N	80°57'47.546"W	535.76	28.200	5.67	0.07	26.46	
5824.00	12.060	60.110	5775.58	-350.66	478.53	260.63	1650822.43	14296367.67	39°22'09.162"N	80°57'47.451"W	544.90	28.574	9.41	-0.74	44.51	
5871.00	11.740	80.520	5821.59	-350.40	481.77	269.60	1650831.40	14296370.90	39°22'09.194"N	80°57'47.337"W	552.08	29.232	8.93	-0.68	43.43	
5918.00	11.230	97.960	5867.66	-347.18	481.92	278.86	1650840.65	14296371.05	39°22'09.195"N	80°57'47.219"W	556.79	30.055	7.44	-1.09	37.11	
5966.00	11.710	115.400	5914.72	-341.34	479.19	287.89	1650849.68	14296368.32	39°22'09.168"N	80°57'47.104"W	559.02	30.997	7.27	1.00	36.33	
6013.00	14.440	125.850	5960.50	-332.93	473.71	296.95	1650858.73	14296362.84	39°22'09.114"N	80°57'46.989"W	559.08	32.082	7.66	5.81	22.23	
6060.00	18.510	131.990	6005.56	-321.33	465.28	307.25	1650869.03	14296354.42	39°22'09.030"N	80°57'46.857"W	557.57	33.439	9.41	8.66	13.06	
6107.00	22.790	137.200	6049.54	-306.18	453.60	318.99	1650880.76	14296342.74	39°22'08.915"N	80°57'46.708"W	554.53	35.116	9.90	9.11	11.09	
6154.00	27.110	140.520	6092.14	-287.52	438.65	331.99	1650893.76	14296327.80	39°22'08.767"N	80°57'46.543"W	550.12	37.120	9.66	9.19	7.06	
6201.00	32.460	143.160	6132.92	-265.17	420.28	346.37	1650908.13	14296309.43	39°22'08.585"N	80°57'46.360"W	544.61	39.494	11.72	11.38	5.62	
6249.00	36.920	144.160	6172.38	-238.78	398.27	362.54	1650924.30	14296287.43	39°22'08.368"N	80°57'46.154"W	538.57	42.311	9.37	9.29	2.08	
6296.00	41.610	143.770	6208.76	-210.01	374.22	380.04	1650941.79	14296263.40	39°22'08.130"N	80°57'45.931"W	533.36	45.442	9.99	9.98	-0.83	
6343.00	46.210	143.200	6242.61	-178.56	348.04	399.44	1650961.18	14296237.22	39°22'07.871"N	80°57'45.684"W	529.79	48.934	9.82	9.79	-1.21	
6390.00	51.050	142.210	6273.66	-144.65	319.99	420.81	1650982.54	14296209.19	39°22'07.594"N	80°57'45.412"W	528.66	52.750	10.42	10.30	-2.11	



Actual Wellpath Report

Dillon Unit 1H AWP Proj: 16055'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #10
Area	Tyler County, WV	Well	Dillon Unit 1H
Field	Tyler	Wellbore	Dillon Unit 1H AWB
Facility	Terry Snider Pad		

WELLPATH DATA (353 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
6407.00†	52.493	141.956	6284.18	-131.85	309.46	429.02	1650990.75	14296198.66	39°22'07.490"N	80°57'45.308"W	528.98	54.196	8.57	8.49	-1.50	Middlesex: 6407' MD
6437.00	55.040	141.530	6301.91	-108.70	290.46	444.00	1651005.72	14296179.67	39°22'07.302"N	80°57'45.117"W	530.57	56.808	8.57	8.49	-1.42	
6483.00	58.730	141.730	6327.04	-71.86	260.26	467.91	1651029.63	14296149.48	39°22'07.003"N	80°57'44.813"W	535.42	60.917	8.03	8.02	0.43	
6532.00	62.630	142.330	6351.03	-30.93	226.58	494.19	1651055.89	14296115.81	39°22'06.670"N	80°57'44.478"W	543.65	65.369	8.03	7.96	1.22	
6577.00	66.650	142.510	6370.30	8.11	194.36	518.98	1651080.67	14296083.61	39°22'06.352"N	80°57'44.163"W	554.18	69.469	8.94	8.93	0.40	
6589.00†	67.079	142.456	6375.02	18.71	185.61	525.70	1651087.39	14296074.86	39°22'06.265"N	80°57'44.077"W	557.50	70.553	3.60	3.57	-0.45	Burket: 6589' MD
6626.00	68.400	142.290	6389.03	51.58	158.49	546.61	1651108.29	14296047.75	39°22'05.997"N	80°57'43.811"W	569.12	73.830	3.60	3.57	-0.45	
6651.00†	68.550	142.201	6398.20	73.90	140.10	560.85	1651122.52	14296029.37	39°22'05.815"N	80°57'43.630"W	578.08	75.974	0.69	0.60	-0.36	Tully: 6651' MD
6671.00	68.670	142.130	6405.50	91.76	125.39	572.27	1651133.94	14296014.67	39°22'05.670"N	80°57'43.485"W	585.85	77.641	0.69	0.60	-0.36	
6679.00†	69.450	142.491	6408.36	98.93	119.48	576.84	1651138.51	14296008.76	39°22'05.612"N	80°57'43.427"W	589.08	78.298	10.63	9.75	4.52	Marcellus POE: 6679' MD
6720.00	73.460	144.290	6421.40	136.42	88.28	600.01	1651161.67	14295977.57	39°22'05.303"N	80°57'43.132"W	606.47	81.630	10.63	9.78	4.39	
6765.00	78.820	147.360	6432.17	179.01	52.15	624.52	1651186.18	14295941.45	39°22'04.946"N	80°57'42.820"W	626.70	85.227	13.63	11.91	6.82	
6814.00	82.940	149.400	6439.94	226.60	10.96	649.88	1651211.52	14295900.28	39°22'04.539"N	80°57'42.497"W	649.97	89.034	9.36	8.41	4.16	
6860.00	86.000	151.100	6444.37	271.89	-28.79	672.59	1651234.23	14295860.55	39°22'04.146"N	80°57'42.208"W	673.21	92.451	7.60	6.65	3.70	
6909.00	89.660	153.430	6446.23	320.55	-72.12	695.37	1651257.00	14295817.24	39°22'03.717"N	80°57'41.918"W	699.10	95.921	8.85	7.47	4.76	
7003.00	89.820	154.660	6446.65	414.24	-156.63	736.51	1651298.12	14295732.75	39°22'02.882"N	80°57'41.395"W	752.98	102.006	1.32	0.17	1.31	
7098.00	90.030	156.980	6446.78	509.12	-243.29	775.42	1651337.01	14295646.13	39°22'02.025"N	80°57'40.900"W	812.69	107.420	2.45	0.22	2.44	
7192.00	89.630	158.300	6447.06	603.10	-330.22	811.18	1651372.76	14295559.23	39°22'01.166"N	80°57'40.445"W	875.82	112.151	1.47	-0.43	1.40	
7286.00	89.850	164.230	6447.48	696.96	-419.20	841.36	1651402.92	14295470.29	39°22'00.286"N	80°57'40.062"W	940.01	116.484	6.31	0.23	6.31	
7380.00	91.570	166.560	6446.32	790.29	-510.15	865.06	1651426.61	14295379.38	39°21'59.387"N	80°57'39.760"W	1004.28	120.529	3.08	1.83	2.48	
7474.00	91.690	159.220	6443.64	883.93	-599.89	892.68	1651454.23	14295289.68	39°21'58.500"N	80°57'39.409"W	1075.52	123.901	7.81	0.13	-7.81	
7569.00	89.970	156.730	6442.27	978.90	-687.94	928.30	1651489.83	14295201.66	39°21'57.630"N	80°57'38.956"W	1155.42	126.541	3.19	-1.81	-2.62	
7662.00	89.880	158.850	6442.39	1071.89	-774.03	963.45	1651524.97	14295115.60	39°21'56.779"N	80°57'38.509"W	1235.87	128.778	2.28	-0.10	2.28	
7757.00	90.710	157.840	6441.90	1166.88	-862.32	998.51	1651560.01	14295027.35	39°21'55.906"N	80°57'38.063"W	1319.33	130.814	1.38	0.87	-1.06	
7851.00	89.630	154.270	6441.62	1260.77	-948.22	1036.65	1651598.14	14294941.49	39°21'55.057"N	80°57'37.578"W	1404.91	132.449	3.97	-1.15	-3.80	
7945.00	89.350	154.940	6442.46	1354.53	-1033.13	1076.96	1651638.43	14294856.61	39°21'54.218"N	80°57'37.065"W	1492.38	133.810	0.77	-0.30	0.71	
8040.00	89.200	157.660	6443.66	1449.44	-1120.10	1115.14	1651676.60	14294769.67	39°21'53.358"N	80°57'36.580"W	1580.56	135.127	2.87	-0.16	2.86	
8134.00	89.380	160.000	6444.82	1543.42	-1207.75	1149.08	1651710.53	14294682.06	39°21'52.491"N	80°57'36.148"W	1667.05	136.426	2.50	0.19	2.49	
8228.00	89.880	162.910	6445.43	1637.30	-1296.85	1178.98	1651740.41	14294592.99	39°21'51.611"N	80°57'35.768"W	1752.66	137.726	3.14	0.53	3.10	
8323.00	90.310	156.870	6445.27	1732.23	-1386.02	1211.62	1651773.04	14294503.86	39°21'50.729"N	80°57'35.353"W	1840.95	138.841	6.37	0.45	-6.36	



Actual Wellpath Report

Dillon Unit 1H AWP Proj: 16055'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #10
Area	Tyler County, WV	Well	Dillon Unit 1H
Field	Tyler	Wellbore	Dillon Unit 1H AWB
Facility	Terry Snider Pad		

WELLPATH DATA (353 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
8417.00	91.940	151.150	6443.43	1825.86	-1470.46	1252.79	1651814.19	14294419.45	39°21'49.894"N	80°57'34.829"W	1931.77	139.570	6.33	1.73	-6.09	
8511.00	89.690	149.660	6442.09	1918.88	-1552.18	1299.20	1651860.58	14294337.77	39°21'49.086"N	80°57'34.239"W	2024.15	140.070	2.87	-2.39	-1.59	
8605.00	89.110	155.680	6443.07	2012.32	-1635.65	1342.34	1651903.70	14294254.34	39°21'48.261"N	80°57'33.690"W	2115.94	140.625	6.43	-0.62	6.40	
8700.00	89.720	161.330	6444.04	2107.28	-1724.00	1377.13	1651938.48	14294166.02	39°21'47.388"N	80°57'33.247"W	2206.50	141.382	5.98	0.64	5.95	
8794.00	88.710	165.030	6445.33	2200.96	-1813.95	1404.32	1651965.66	14294076.10	39°21'46.499"N	80°57'32.902"W	2294.02	142.254	4.08	-1.07	3.94	
8889.00	90.370	168.720	6446.10	2294.95	-1906.45	1425.89	1651987.22	14293983.64	39°21'45.584"N	80°57'32.628"W	2380.69	143.206	4.26	1.75	3.88	
8983.00	91.290	160.770	6444.73	2388.33	-1997.05	1450.60	1652011.92	14293893.08	39°21'44.689"N	80°57'32.314"W	2468.29	144.006	8.51	0.98	-8.46	
9077.00	89.450	160.700	6444.13	2482.26	-2085.78	1481.61	1652042.92	14293804.38	39°21'43.812"N	80°57'31.919"W	2558.45	144.612	1.96	-1.96	-0.07	
9171.00	89.720	160.490	6444.81	2576.20	-2174.44	1512.84	1652074.14	14293715.76	39°21'42.935"N	80°57'31.522"W	2648.94	145.172	0.36	0.29	-0.22	
9266.00	89.570	156.530	6445.40	2671.18	-2262.82	1547.64	1652108.92	14293627.42	39°21'42.062"N	80°57'31.080"W	2741.45	145.630	4.17	-0.16	-4.17	
9360.00	90.490	155.830	6445.35	2765.10	-2348.81	1585.60	1652146.87	14293541.46	39°21'41.212"N	80°57'30.597"W	2833.91	145.978	1.23	0.98	-0.74	
9453.00	89.750	154.590	6445.15	2857.93	-2433.24	1624.59	1652185.84	14293457.07	39°21'40.377"N	80°57'30.101"W	2925.74	146.270	1.55	-0.80	-1.33	
9547.00	90.400	162.200	6445.03	2951.86	-2520.57	1659.18	1652220.42	14293369.77	39°21'39.514"N	80°57'29.661"W	3017.64	146.645	8.13	0.69	8.10	
9641.00	90.340	159.340	6444.42	3045.78	-2609.31	1690.14	1652251.36	14293281.06	39°21'38.636"N	80°57'29.267"W	3108.87	147.068	3.04	-0.06	-3.04	
9735.00	89.420	157.620	6444.62	3139.77	-2696.75	1724.62	1652285.83	14293193.65	39°21'37.772"N	80°57'28.829"W	3201.06	147.400	2.08	-0.98	-1.83	
9829.00	90.000	159.310	6445.09	3233.77	-2784.19	1759.12	1652320.31	14293106.26	39°21'36.908"N	80°57'28.390"W	3293.36	147.714	1.90	0.62	1.80	
9924.00	90.180	161.360	6444.94	3328.72	-2873.64	1791.09	1652352.27	14293016.84	39°21'36.023"N	80°57'27.984"W	3386.12	148.066	2.17	0.19	2.16	
10018.00	90.430	156.370	6444.44	3422.69	-2961.29	1824.97	1652386.14	14292929.23	39°21'35.157"N	80°57'27.553"W	3478.47	148.356	5.32	0.27	-5.31	
10112.00	89.570	155.370	6444.44	3516.58	-3047.07	1863.39	1652424.55	14292843.48	39°21'34.309"N	80°57'27.064"W	3571.68	148.553	1.40	-0.91	-1.06	
10206.00	89.510	161.000	6445.20	3610.54	-3134.30	1898.31	1652459.45	14292756.28	39°21'33.447"N	80°57'26.620"W	3664.35	148.799	5.99	-0.06	5.99	
10301.00	90.650	165.430	6445.07	3705.21	-3225.23	1925.74	1652486.87	14292665.39	39°21'32.548"N	80°57'26.272"W	3756.41	149.159	4.82	1.20	4.66	
10395.00	90.030	157.660	6444.51	3799.01	-3314.33	1955.47	1652516.59	14292576.33	39°21'31.667"N	80°57'25.894"W	3848.20	149.459	8.29	-0.66	-8.27	
10489.00	89.850	158.240	6444.61	3893.00	-3401.45	1990.76	1652551.86	14292489.24	39°21'30.806"N	80°57'25.445"W	3941.19	149.661	0.65	-0.19	0.62	
10584.00	90.280	160.090	6444.50	3987.99	-3490.24	2024.55	1652585.64	14292400.49	39°21'29.928"N	80°57'25.015"W	4034.92	149.884	2.00	0.45	1.95	
10678.00	90.860	152.500	6443.56	4081.84	-3576.24	2062.31	1652623.38	14292314.52	39°21'29.078"N	80°57'24.535"W	4128.27	150.029	8.10	0.62	-8.07	
10773.00	89.820	149.250	6443.00	4175.96	-3659.21	2108.54	1652669.60	14292231.58	39°21'28.258"N	80°57'23.947"W	4223.24	150.048	3.59	-1.09	-3.42	
10867.00	89.940	156.210	6443.19	4269.40	-3742.71	2151.58	1652712.62	14292148.12	39°21'27.432"N	80°57'23.400"W	4317.08	150.107	7.41	0.13	7.40	
10961.00	90.620	156.990	6442.74	4363.34	-3828.98	2188.91	1652749.94	14292061.88	39°21'26.579"N	80°57'22.925"W	4410.49	150.245	1.10	0.72	0.83	
11055.00	91.200	153.350	6441.24	4457.14	-3914.26	2228.37	1652789.38	14291976.63	39°21'25.736"N	80°57'22.423"W	4504.12	150.347	3.92	0.62	-3.87	
11150.00	89.260	155.570	6440.86	4551.88	-3999.97	2269.33	1652830.32	14291890.96	39°21'24.889"N	80°57'21.902"W	4598.87	150.432	3.10	-2.04	2.34	



Actual Wellpath Report

Dillon Unit 1H AWP Proj: 16055'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #10
Area	Tyler County, WV	Well	Dillon Unit 1H
Field	Tyler	Wellbore	Dillon Unit 1H AWB
Facility	Terry Snider Pad		

WELLPATH DATA (353 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
11244.00	88.830	160.310	6442.43	4645.83	-4087.05	2304.62	1652865.59	14291803.91	39°21'24.028"N	80°57'21.453"W	4692.04	150.582	5.06	-0.46	5.04	
11338.00	90.340	163.380	6443.11	4739.67	-4176.36	2333.90	1652894.87	14291714.65	39°21'23.145"N	80°57'21.081"W	4784.25	150.802	3.64	1.61	3.27	
11432.00	90.620	159.590	6442.32	4833.53	-4265.47	2363.74	1652924.70	14291625.57	39°21'22.264"N	80°57'20.702"W	4876.63	151.007	4.04	0.30	-4.03	
11527.00	89.750	156.970	6442.01	4928.52	-4353.72	2398.90	1652959.84	14291537.36	39°21'21.392"N	80°57'20.255"W	4970.87	151.145	2.91	-0.92	-2.76	
11620.00	89.260	161.210	6442.82	5021.49	-4440.57	2432.08	1652993.01	14291450.54	39°21'20.533"N	80°57'19.833"W	5062.97	151.291	4.59	-0.53	4.56	
11714.00	90.000	160.490	6443.43	5115.42	-4529.37	2462.92	1653023.83	14291361.78	39°21'19.656"N	80°57'19.441"W	5155.69	151.464	1.10	0.79	-0.77	
11809.00	90.180	157.340	6443.28	5210.40	-4617.99	2497.09	1653057.99	14291273.19	39°21'18.780"N	80°57'19.006"W	5249.89	151.599	3.32	0.19	-3.32	
11903.00	89.780	158.860	6443.31	5304.40	-4705.21	2532.15	1653093.03	14291186.01	39°21'17.917"N	80°57'18.561"W	5343.29	151.713	1.67	-0.43	1.62	
11997.00	90.180	159.400	6443.34	5398.39	-4793.04	2565.63	1653126.51	14291098.21	39°21'17.049"N	80°57'18.135"W	5436.52	151.841	0.71	0.43	0.57	
12092.00	90.340	157.250	6442.91	5493.39	-4881.32	2600.72	1653161.58	14291009.97	39°21'16.176"N	80°57'17.689"W	5530.91	151.952	2.27	0.17	-2.26	
12186.00	89.910	155.160	6442.71	5587.30	-4967.32	2638.64	1653199.49	14290924.00	39°21'15.326"N	80°57'17.207"W	5624.65	152.023	2.27	-0.46	-2.22	
12280.00	90.000	157.990	6442.78	5681.23	-5053.57	2676.01	1653236.84	14290837.79	39°21'14.474"N	80°57'16.732"W	5718.35	152.097	3.01	0.10	3.01	
12374.00	89.970	157.940	6442.80	5775.22	-5140.70	2711.28	1653272.09	14290750.69	39°21'13.612"N	80°57'16.283"W	5811.87	152.192	0.06	-0.03	-0.05	
12468.00	89.420	162.040	6443.30	5869.17	-5229.00	2743.43	1653304.23	14290662.42	39°21'12.739"N	80°57'15.874"W	5904.99	152.316	4.40	-0.59	4.36	
12563.00	89.750	164.800	6443.99	5963.83	-5320.04	2770.54	1653331.33	14290571.42	39°21'11.839"N	80°57'15.530"W	5998.23	152.491	2.93	0.35	2.91	
12657.00	90.740	160.890	6443.59	6057.55	-5409.84	2798.26	1653359.04	14290481.66	39°21'10.952"N	80°57'15.178"W	6090.70	152.650	4.29	1.05	-4.16	
12751.00	90.830	156.400	6442.30	6151.52	-5497.36	2832.48	1653393.24	14290394.18	39°21'10.087"N	80°57'14.743"W	6184.16	152.741	4.78	0.10	-4.78	
12845.00	89.720	155.520	6441.85	6245.41	-5583.20	2870.77	1653431.52	14290308.37	39°21'09.238"N	80°57'14.256"W	6278.01	152.789	1.51	-1.18	-0.94	
12939.00	88.950	157.240	6442.94	6339.33	-5669.32	2908.43	1653469.16	14290222.29	39°21'08.387"N	80°57'13.777"W	6371.82	152.842	2.00	-0.82	1.83	
13033.00	89.110	159.870	6444.53	6433.31	-5756.79	2942.79	1653503.51	14290134.85	39°21'07.522"N	80°57'13.340"W	6465.34	152.925	2.80	0.17	2.80	
13127.00	89.170	163.740	6445.95	6527.14	-5846.06	2972.13	1653532.84	14290045.61	39°21'06.639"N	80°57'12.967"W	6558.20	153.051	4.12	0.06	4.12	
13221.00	89.260	164.460	6447.23	6620.70	-5936.46	2997.88	1653558.58	14289955.25	39°21'05.746"N	80°57'12.640"W	6650.47	153.206	0.77	0.10	0.77	
13316.00	89.110	163.070	6448.58	6715.31	-6027.66	3024.43	1653585.12	14289864.09	39°21'04.844"N	80°57'12.302"W	6743.87	153.354	1.47	-0.16	-1.46	
13410.00	89.140	158.250	6450.02	6809.21	-6116.31	3055.55	1653616.23	14289775.47	39°21'03.968"N	80°57'11.907"W	6837.08	153.454	5.13	0.03	-5.13	
13504.00	89.140	155.160	6451.43	6903.13	-6202.63	3092.72	1653653.38	14289689.19	39°21'03.115"N	80°57'11.434"W	6930.91	153.499	3.29	0.00	-3.29	
13598.00	88.800	155.130	6453.12	6996.94	-6287.91	3132.22	1653692.87	14289603.94	39°21'02.272"N	80°57'10.932"W	7024.86	153.521	0.36	-0.36	-0.03	
13693.00	88.550	159.500	6455.32	7091.87	-6375.52	3168.84	1653729.47	14289516.37	39°21'01.406"N	80°57'10.466"W	7119.60	153.571	4.61	-0.26	4.60	
13787.00	89.450	162.300	6456.96	7185.77	-6464.32	3199.59	1653760.21	14289427.60	39°21'00.528"N	80°57'10.076"W	7212.82	153.666	3.13	0.96	2.98	
13881.00	89.630	159.030	6457.72	7279.70	-6553.00	3230.71	1653791.31	14289338.96	39°20'59.651"N	80°57'09.680"W	7306.11	153.756	3.48	0.19	-3.48	
13976.00	89.380	156.200	6458.54	7374.67	-6640.83	3266.88	1653827.47	14289251.16	39°20'58.783"N	80°57'09.220"W	7400.89	153.806	2.99	-0.26	-2.98	



Actual Wellpath Report

Dillon Unit 1H AWP Proj: 16055'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Slot	Slot #10
Area	Tyler County, WV		Well	Dillon Unit 1H
Field	Tyler		Wellbore	Dillon Unit 1H AWB
Facility	Terry Snider Pad			

WELLPATH DATA (353 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
14070.00	89.480	159.990	6459.47	7468.64	-6728.02	3301.94	1653862.52	14289164.00	39°20'57.921"N	80°57'08.775"W	7494.61	153.859	4.03	0.11	4.03	
14164.00	89.910	162.960	6459.97	7562.52	-6817.14	3331.80	1653892.37	14289074.92	39°20'57.040"N	80°57'08.395"W	7587.78	153.953	3.19	0.46	3.16	
14258.00	90.220	158.380	6459.87	7656.43	-6905.82	3362.91	1653923.46	14288986.28	39°20'56.163"N	80°57'08.000"W	7681.11	154.035	4.88	0.33	-4.87	
14352.00	89.540	157.660	6460.06	7750.42	-6992.99	3398.09	1653958.63	14288899.15	39°20'55.302"N	80°57'07.552"W	7774.89	154.084	1.05	-0.72	-0.77	
14446.00	90.000	153.590	6460.44	7844.27	-7078.59	3436.88	1653997.40	14288813.58	39°20'54.455"N	80°57'07.059"W	7868.83	154.102	4.36	0.49	-4.33	
14540.00	89.260	150.680	6461.05	7937.66	-7161.68	3480.81	1654041.31	14288730.52	39°20'53.634"N	80°57'06.501"W	7962.77	154.079	3.19	-0.79	-3.10	
14634.00	89.540	153.690	6462.03	8031.05	-7244.80	3524.66	1654085.15	14288647.43	39°20'52.812"N	80°57'05.943"W	8056.70	154.057	3.22	0.30	3.20	
14728.00	90.000	156.800	6462.41	8124.87	-7330.15	3564.02	1654124.49	14288562.12	39°20'51.968"N	80°57'05.443"W	8150.67	154.070	3.34	0.49	3.31	
14823.00	90.000	151.900	6462.41	8219.58	-7415.77	3605.13	1654165.58	14288476.54	39°20'51.122"N	80°57'04.920"W	8245.64	154.074	5.16	0.00	-5.16	
14917.00	89.780	157.420	6462.59	8313.32	-7500.69	3645.34	1654205.78	14288391.65	39°20'50.282"N	80°57'04.409"W	8339.60	154.080	5.88	-0.23	5.87	
15011.00	90.310	161.130	6462.52	8407.29	-7588.59	3678.60	1654239.03	14288303.78	39°20'49.413"N	80°57'03.986"W	8433.20	154.138	3.99	0.56	3.95	
15106.00	90.120	162.540	6462.16	8502.14	-7678.85	3708.22	1654268.63	14288213.56	39°20'48.521"N	80°57'03.609"W	8527.35	154.224	1.50	-0.20	1.48	
15200.00	90.120	163.900	6461.96	8595.84	-7768.85	3735.35	1654295.76	14288123.60	39°20'47.631"N	80°57'03.265"W	8620.20	154.321	1.45	0.00	1.45	
15293.00	90.340	163.810	6461.59	8688.45	-7858.18	3761.21	1654321.61	14288034.30	39°20'46.748"N	80°57'02.936"W	8711.93	154.423	0.26	0.24	-0.10	
15387.00	90.430	159.820	6460.96	8782.28	-7947.46	3790.54	1654350.92	14287945.05	39°20'45.866"N	80°57'02.563"W	8805.14	154.501	4.25	0.10	-4.24	
15482.00	90.150	160.650	6460.48	8877.24	-8036.87	3822.67	1654383.04	14287855.69	39°20'44.982"N	80°57'02.155"W	8899.66	154.562	0.92	-0.29	0.87	
15576.00	90.180	160.680	6460.21	8971.18	-8125.56	3853.79	1654414.15	14287767.03	39°20'44.105"N	80°57'01.760"W	8993.14	154.626	0.05	0.03	0.03	
15670.00	90.150	158.860	6459.93	9065.16	-8213.76	3886.29	1654446.64	14287678.86	39°20'43.233"N	80°57'01.347"W	9086.76	154.679	1.94	-0.03	-1.94	
15765.00	90.220	158.360	6459.63	9160.16	-8302.22	3920.94	1654481.27	14287590.44	39°20'42.359"N	80°57'00.906"W	9181.53	154.720	0.53	0.07	-0.53	
15859.00	90.120	159.040	6459.35	9254.16	-8389.79	3955.09	1654515.40	14287502.90	39°20'41.493"N	80°57'00.472"W	9275.31	154.760	0.73	-0.11	0.72	
15953.00	90.120	159.580	6459.15	9348.15	-8477.73	3988.30	1654548.60	14287415.00	39°20'40.624"N	80°57'00.050"W	9369.02	154.806	0.57	0.00	0.57	
16030.00	90.000	159.120	6459.07	9425.15	-8549.78	4015.45	1654575.74	14287342.98	39°20'39.911"N	80°56'59.705"W	9445.78	154.843	0.62	-0.16	-0.60	
16055.00	90.000	159.120	6459.07	9450.15	-8573.14	4024.36	1654584.65	14287319.63	39°20'39.680"N	80°56'59.592"W	9470.71	154.854	0.00	0.00	0.00	Projected MD at TD: 16055'



Actual Wellpath Report

Dillon Unit 1H AWP Proj: 16055'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #10
Area	Tyler County, WV	Well	Dillon Unit 1H
Field	Tyler	Wellbore	Dillon Unit 1H AWB
Facility	Terry Snider Pad		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Dillon Unit 1H POE - Rev-1	6409.00	142.83	587.68	1651149.35	14296032.10	39°22'05.842"N	80°57'43.289"W	point
Dillon Unit 1H BHL - Rev-1	6446.00	-8559.00	4022.79	1654583.07	14287333.76	39°20'39.820"N	80°56'59.612"W	point
Dillon Unit 1H LP - Rev-1	6446.00	-56.90	695.45	1651257.08	14295832.45	39°22'03.868"N	80°57'41.917"W	point

WELLPATH COMPOSITION - Ref Wellbore: Dillon Unit 1H AWB Ref Wellpath: Dillon Unit 1H AWP Proj: 16055'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	5597.00	Gyrodatta standard - Continuous gyro	01 Gyrodatta Cont. Gyro <8-3/4">(50'-5597')	Dillon Unit 1H AWB
5597.00	16030.00	BHI AutoTrak Curve (Short)	02_AT Curve <8-1/2"> (5597')(5731'-16030')	Dillon Unit 1H AWB
16030.00	16055.00	Blind Drilling (std)	Projection to bit	Dillon Unit 1H AWB



Actual Wellpath Report

Dillon Unit 1H AWP Proj: 16055'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #10
Area	Tyler County, WV	Well	Dillon Unit 1H
Field	Tyler	Wellbore	Dillon Unit 1H AWB
Facility	Terry Snider Pad		

COMMENTS
<p>Wellpath general comments API: 47-095-02373-0000 BHI Job #: 8278291 Rig: Patterson 342 Duration: 11/26/2016-11/29/2016 Gyrodata Cont. Gyro <8-3/4"> (50'-5597') BHI AT Curve <8-1/2"> (5597')(5731'-16030') Middlesex: 6407' MD Burket: 6589' MD Tully: 6651' MD Marcellus POE: 6679' MD Projected MD at TD: 16055'</p>