



ANTERO RESOURCES CORPORATION

Location: Doddridge Co., WV
 Facility: Doddridge
 Well: Ridge Unit 2H
 Wellbore: Ridge Unit 2H PWB



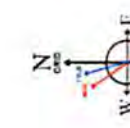
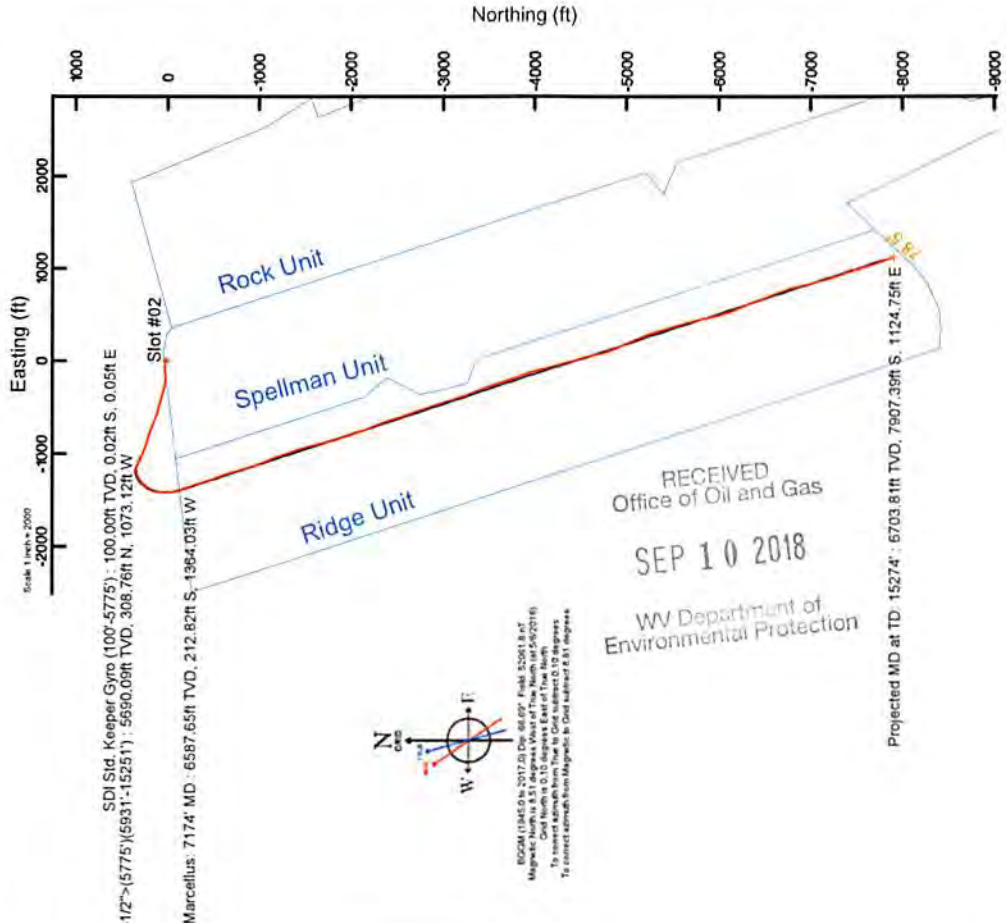
Location Information			
Facility Name	Grid East (US ft)	Grid North (US ft)	Longitude
Ball Pad	1684490.110	14272033.240	80°50'30.128"W
Slot	Local N (ft)	Local E (ft)	Latitude
Slot #02	0.00	40.00	39°18'08.198"N
Comment: Ridge Unit 2H			Grid East (US ft)
Frontier 32 (RKB) to Mud line (At Slot Slot #02)			14272034.140
Mean Sea Level to Mean Sea Level			80°50'30.617"W
Frontier 32 (RKB) to Mean Sea Level			32ft
			-1135ft
			1167ft

SDI Slot: Keeper Gyro (100'-5775') : 0.10" Inc. 100.00ft MD, 100.00ft TVD, 0.04ft VS

Well Data	
Slot	Wellbore
Slot #02	Ridge Unit 2H PWB
Slot #03	Ridge Unit 2H PWB

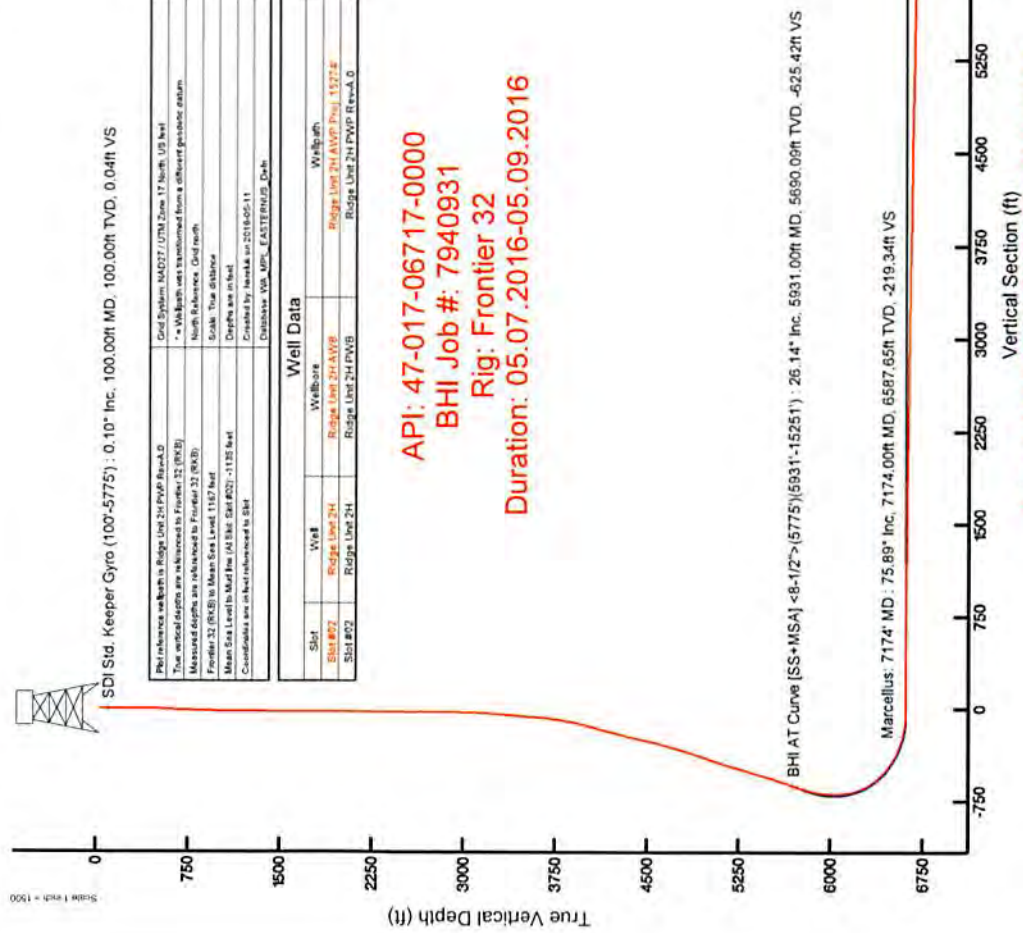
Well Data	
Well	Wellbore
Ridge Unit 2H	Ridge Unit 2H PWB
Ridge Unit 2H	Ridge Unit 2H PWB

API: 47-017-06717-0000
 BHI Job #: 7940931
 Rig: Frontier 32
 Duration: 05.07.2016-05.09.2016



850M (1545 to 1612) is the...
 Magnetic North is 4.51 degrees East of True North (at 5/6/2016)
 Grid North is 0.10 degrees East of True North
 To convert azimuth from True to Grid, subtract 0.10 degrees
 To convert azimuth from Magnetic to Grid, subtract 4.61 degrees

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Azimuth 161.99° with reference 0.00 N, 0.00 E



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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Doddridge Co., WV	Well	Ridge Unit 2H
Field	Doddridge	Wellbore	Ridge Unit 2H AWB
Facility	Balli Pad		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect@ 5.0
North Reference	Grid	User	Hareluk
Scale	0.999602	Report Generated	5/11/2016 at 9:55:49 AM
Converge at slot	0.10° East	Database/Source file	WA_MPL_EASTERNUS_Defn/Ridge_Unit_2H_AWP_Proj_15274.xml

WELLPATH LOCATION					
Local coordinates		Grid coordinates		Geographic coordinates	
North [ft]	East [ft]	Easting [US ft]	Northing [US ft]	Latitude	Longitude
0.90	40.00	1684530.09	14272034.14	39°18'08.206"N	80°50'38.617"W
Facility Reference Pt		1684490.11	14272033.24	39°18'08.198"N	80°50'39.126"W
Field Reference Pt				0°00'00.000"	85°29'19.301"W

WELLPATH DATUM					
Calculation method		Minimum curvature			
Horizontal Reference Pt	Slot	Frontier 32 (RKB) to Facility Vertical Datum			
Vertical Reference Pt	Frontier 32 (RKB)	Frontier 32 (RKB) to Mean Sea Level			
MD Reference Pt	Frontier 32 (RKB)	Frontier 32 (RKB) to Mud Line at Slot (Slot #02)			
Field Vertical Reference	Mean Sea Level	Section Origin		Section Azimuth	
		N 0.00, E 0.00 ft		161.99°	

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Doddrige Co., WV	Well	Ridge Unit 2H
Field	Doddrige	Wellbore	Ridge Unit 2H AWP
Facility	Balli Pad		

WELLPATH DATA (350 stations) † = interpolated/extrapolated station														
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Comments
[m]	[°]	[m]	[m]	[m]	[m]	[m]	[m]	[m]	[m]	[m]	[m]	[°]	[m]	[m]
0.00	113.680	0.00	0.00	0.00	0.00	0.00	1684530.09	14272034.14	39°18'08.206"N	80°50'38.617"W	0.00	0.00	0.00	
32.00	113.680	32.00	0.00	0.00	0.00	0.00	1684530.09	14272034.14	39°18'08.206"N	80°50'38.617"W	0.00	0.00	0.00	
100.00	113.680	100.00	0.04	-0.02	0.05	1684530.14	14272034.12	39°18'08.206"N	80°50'38.616"W	0.06	113.680	0.15	SDI Std. Keeper Gyro (100-5775)	
125.00	113.680	125.00	0.08	-0.05	0.10	1684530.19	14272034.09	39°18'08.205"N	80°50'38.616"W	0.12	117.218	0.30		
150.00	113.680	150.00	0.12	-0.08	0.16	1684530.25	14272034.06	39°18'08.205"N	80°50'38.616"W	0.17	115.899	0.40		
175.00	113.680	175.00	0.16	-0.10	0.21	1684530.30	14272034.04	39°18'08.205"N	80°50'38.615"W	0.23	115.865	0.40		
200.00	113.680	200.00	0.22	-0.14	0.27	1684530.36	14272034.00	39°18'08.205"N	80°50'38.614"W	0.31	117.338	0.24		
225.00	113.680	225.00	0.30	-0.20	0.36	1684530.45	14272033.94	39°18'08.204"N	80°50'38.613"W	0.41	119.283	0.45		
250.00	113.680	250.00	0.37	-0.25	0.43	1684530.52	14272033.89	39°18'08.203"N	80°50'38.612"W	0.50	120.176	0.68		
275.00	113.680	275.00	0.41	-0.27	0.49	1684530.58	14272033.87	39°18'08.203"N	80°50'38.611"W	0.57	118.928	0.04		
300.00	113.680	300.00	0.43	-0.28	0.54	1684530.63	14272033.86	39°18'08.203"N	80°50'38.610"W	0.61	117.158	0.41		
325.00	113.680	325.00	0.41	-0.25	0.57	1684530.66	14272033.89	39°18'08.204"N	80°50'38.610"W	0.62	113.540	0.32		
350.00	113.680	350.00	0.38	-0.19	0.62	1684530.71	14272033.95	39°18'08.204"N	80°50'38.609"W	0.65	107.389	0.54		
375.00	113.680	375.00	0.29	-0.08	0.69	1684530.78	14272034.05	39°18'08.205"N	80°50'38.608"W	0.70	96.633	1.00		
400.00	113.680	400.00	0.13	0.13	0.84	1684530.93	14272034.27	39°18'08.207"N	80°50'38.606"W	0.85	81.129	1.71		
425.00	113.680	424.99	-0.14	0.51	1.12	1684531.21	14272034.65	39°18'08.211"N	80°50'38.603"W	1.23	65.223	2.56		
450.00	113.680	449.98	-0.69	1.22	1.52	1684531.61	14272035.36	39°18'08.218"N	80°50'38.598"W	1.95	51.220	3.90		
475.00	113.680	474.95	-1.47	2.22	2.06	1684532.15	14272036.35	39°18'08.228"N	80°50'38.591"W	3.02	42.882	1.77		
500.00	113.680	499.92	-2.37	3.36	2.67	1684532.76	14272037.50	39°18'08.239"N	80°50'38.583"W	4.29	38.522	1.45		
525.00	113.680	524.88	-3.40	4.67	3.36	1684533.44	14272038.81	39°18'08.252"N	80°50'38.574"W	5.75	35.711	1.81		
550.00	113.680	549.82	-4.54	6.11	4.10	1684534.19	14272040.24	39°18'08.266"N	80°50'38.565"W	7.36	33.897	0.86		
575.00	113.680	574.77	-5.65	7.55	4.95	1684535.04	14272041.69	39°18'08.281"N	80°50'38.554"W	9.03	33.266	1.49		
600.00	113.680	599.70	-6.80	9.08	5.92	1684536.01	14272043.21	39°18'08.296"N	80°50'38.542"W	10.84	33.122	2.08		
625.00	113.680	624.63	-7.98	10.66	6.99	1684537.08	14272044.80	39°18'08.311"N	80°50'38.528"W	12.75	33.247	1.38		
650.00	113.680	649.56	-9.07	12.18	8.14	1684538.23	14272046.32	39°18'08.326"N	80°50'38.513"W	14.65	33.763	0.62		
675.00	113.680	674.49	-10.15	13.68	9.25	1684539.34	14272047.82	39°18'08.341"N	80°50'38.499"W	16.52	34.058	1.34		
700.00	113.680	699.42	-11.17	15.09	10.29	1684540.37	14272049.22	39°18'08.355"N	80°50'38.486"W	18.26	34.279	1.84		
725.00	113.680	724.37	-12.03	16.32	11.29	1684541.38	14272050.46	39°18'08.367"N	80°50'38.473"W	19.85	34.676	1.49		
750.00	113.680	749.33	-12.83	17.47	12.23	1684542.32	14272051.60	39°18'08.378"N	80°50'38.461"W	21.33	35.001	0.62		
775.00	113.680	774.29	-13.64	18.59	13.08	1684543.17	14272052.73	39°18'08.390"N	80°50'38.450"W	22.73	35.125	1.19		

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Doddrige Co., WV	Well	Ridge Unit 2H
Field	Doddrige	Wellbore	Ridge Unit 2H AWB
Facility	Balli Pad		

MD	Inclination	Azimuth	TVD	Vert Sect	North	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Comments
800.00	2.770	33.430	799.26	-14.42	19.65	13.80	1684543.89	14272053.78	39°18'08.400"N	80°50'38.441"W	24.02	35.086	1.41		
825.00	2.420	28.250	824.23	-15.16	20.62	14.39	1684544.47	14272054.75	39°18'08.410"N	80°50'38.434"W	25.14	34.903	1.68		
850.00	2.180	30.830	849.21	-15.84	21.49	14.88	1684544.96	14272055.63	39°18'08.418"N	80°50'38.427"W	26.14	34.695	1.05		
875.00	2.100	30.020	874.19	-16.46	22.30	15.35	1684545.44	14272056.43	39°18'08.426"N	80°50'38.421"W	27.07	34.549	0.34		
900.00	1.900	27.330	899.18	-17.06	23.06	15.77	1684545.86	14272057.19	39°18'08.434"N	80°50'38.416"W	27.94	34.368	0.88		
925.00	2.000	16.350	924.16	-17.71	23.85	16.09	1684546.17	14272057.98	39°18'08.441"N	80°50'38.412"W	28.77	33.998	1.54		
950.00	1.460	27.100	949.15	-18.29	16.35	16.55	1684546.44	14272058.68	39°18'08.448"N	80°50'38.409"W	29.50	33.667	2.51		
975.00	1.420	21.180	974.14	-18.76	25.13	16.61	1684546.69	14272059.26	39°18'08.454"N	80°50'38.405"W	30.12	33.470	0.62		
1000.00	1.260	21.850	999.14	-19.21	25.67	16.83	1684546.91	14272059.80	39°18'08.459"N	80°50'38.403"W	30.69	33.243	0.64		
1025.00	1.070	28.720	1024.13	-19.58	26.13	17.04	1684547.12	14272060.26	39°18'08.464"N	80°50'38.400"W	31.19	33.110	0.94		
1050.00	1.040	19.480	1049.13	-19.92	26.55	17.23	1684547.31	14272060.68	39°18'08.468"N	80°50'38.397"W	31.65	32.981	0.69		
1075.00	1.040	4.810	1074.12	-20.31	26.99	17.32	1684547.41	14272061.12	39°18'08.472"N	80°50'38.396"W	32.07	32.695	1.06		
1100.00	0.900	20.800	1099.12	-20.67	27.40	17.41	1684547.49	14272061.53	39°18'08.476"N	80°50'38.395"W	32.46	32.436	1.21		
1125.00	0.690	31.410	1124.12	-20.92	27.71	17.56	1684547.64	14272061.84	39°18'08.480"N	80°50'38.393"W	32.80	32.362	1.02		
1150.00	0.620	11.490	1149.12	-21.14	27.97	17.67	1684547.75	14272062.10	39°18'08.482"N	80°50'38.392"W	33.08	32.279	0.89		
1175.00	0.620	11.640	1174.12	-21.37	28.23	17.72	1684547.81	14272062.36	39°18'08.485"N	80°50'38.391"W	33.34	32.120	0.05		
1200.00	0.790	1.470	1199.11	-21.65	28.54	17.76	1684547.84	14272062.67	39°18'08.488"N	80°50'38.391"W	33.61	31.889	0.84		
1225.00	0.660	2.960	1224.11	-21.95	28.85	17.77	1684547.85	14272062.98	39°18'08.491"N	80°50'38.390"W	33.89	31.624	0.53		
1250.00	0.840	350.070	1249.11	-22.26	29.18	17.74	1684547.83	14272063.31	39°18'08.494"N	80°50'38.391"W	34.15	31.304	0.98		
1275.00	0.580	11.690	1274.11	-22.55	29.48	17.74	1684547.82	14272063.61	39°18'08.497"N	80°50'38.391"W	34.41	31.032	1.48		
1300.00	0.630	358.370	1299.11	-22.80	29.74	17.76	1684547.84	14272063.87	39°18'08.500"N	80°50'38.391"W	34.64	30.840	0.60		
1325.00	0.440	13.570	1324.11	-23.01	29.98	17.78	1684547.86	14272064.10	39°18'08.502"N	80°50'38.390"W	34.85	30.672	0.94		
1350.00	0.530	359.240	1349.10	-23.20	30.18	17.80	1684547.88	14272064.31	39°18'08.504"N	80°50'38.390"W	35.04	30.527	0.60		
1375.00	0.490	2.600	1374.10	-23.41	30.41	17.80	1684547.89	14272064.53	39°18'08.506"N	80°50'38.390"W	35.24	30.348	0.20		
1400.00	0.450	359.050	1399.10	-23.61	30.61	17.81	1684547.89	14272064.74	39°18'08.508"N	80°50'38.390"W	35.41	30.185	0.20		
1425.00	0.460	356.540	1424.10	-23.80	30.81	17.80	1684547.88	14272064.94	39°18'08.510"N	80°50'38.390"W	35.58	30.014	0.09		
1450.00	0.340	357.000	1449.10	-23.97	30.98	17.79	1684547.87	14272065.11	39°18'08.512"N	80°50'38.390"W	35.73	29.860	0.48		
1475.00	0.300	349.680	1474.10	-24.10	31.12	17.77	1684547.86	14272065.25	39°18'08.513"N	80°50'38.390"W	35.84	29.729	0.23		
1500.00	0.300	358.390	1499.10	-24.23	31.25	17.76	1684547.84	14272065.38	39°18'08.515"N	80°50'38.391"W	35.95	29.607	0.18		
1525.00	0.240	341.250	1524.10	-24.35	31.37	17.74	1684547.82	14272065.50	39°18'08.516"N	80°50'38.391"W	36.04	29.491	0.40		

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Operator	ANTERO RESOURCES CORPORATION
Area	Doddridge Co., WV
Field	Doddridge
Facility	Balli Pad
Slot	Ridge Unit 2H AWP
Slot #02	Ridge Unit 2H

REFERENCE WELLPATH IDENTIFICATION

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Comments
1550.00	0.170	349.140	1549.10	-24.43	31.45	17.72	1684547.80	14272065.58	39°18'08.517"N	80°50'38.391"W	36.10	29.391	0.30	
1575.00	0.190	3.010	1574.10	-24.51	31.53	17.71	1684547.79	14272065.66	39°18'08.517"N	80°50'38.391"W	36.17	29.324	0.19	
1600.00	0.150	359.670	1599.10	-24.58	31.61	17.71	1684547.80	14272065.73	39°18'08.518"N	80°50'38.391"W	36.23	29.269	0.16	
1625.00	0.230	345.930	1624.10	-24.66	31.69	17.70	1684547.78	14272065.81	39°18'08.519"N	80°50'38.391"W	36.30	29.189	0.37	
1650.00	0.240	343.900	1649.10	-24.76	31.79	17.67	1684547.76	14272065.91	39°18'08.520"N	80°50'38.392"W	36.37	29.076	0.05	
1675.00	0.210	338.730	1674.10	-24.86	31.88	17.64	1684547.73	14272066.01	39°18'08.521"N	80°50'38.392"W	36.44	28.963	0.14	
1700.00	0.190	342.420	1699.10	-24.95	31.96	17.61	1684547.70	14272066.09	39°18'08.522"N	80°50'38.392"W	36.49	28.860	0.10	
1725.00	0.250	335.040	1724.10	-25.04	32.05	17.58	1684547.66	14272066.18	39°18'08.522"N	80°50'38.393"W	36.55	28.744	0.26	
1750.00	0.140	334.590	1749.10	-25.13	32.13	17.54	1684547.63	14272066.25	39°18'08.523"N	80°50'38.393"W	36.60	28.636	0.44	
1775.00	0.170	353.530	1774.10	-25.20	32.19	17.53	1684547.61	14272066.32	39°18'08.524"N	80°50'38.393"W	36.65	28.564	0.24	
1800.00	0.150	337.120	1799.10	-25.26	32.26	17.51	1684547.59	14272066.39	39°18'08.525"N	80°50'38.394"W	36.70	28.491	0.20	
1825.00	0.160	326.720	1824.10	-25.33	32.32	17.48	1684547.56	14272066.44	39°18'08.525"N	80°50'38.394"W	36.74	28.403	0.12	
1850.00	0.330	318.090	1849.10	-25.43	32.40	17.41	1684547.49	14272066.53	39°18'08.526"N	80°50'38.395"W	36.78	28.250	0.69	
1875.00	0.120	328.780	1874.10	-25.52	32.48	17.35	1684547.43	14272066.60	39°18'08.527"N	80°50'38.396"W	36.82	28.110	0.85	
1900.00	0.160	300.400	1899.10	-25.57	32.52	17.30	1684547.39	14272066.64	39°18'08.527"N	80°50'38.396"W	36.83	28.020	0.32	
1925.00	0.160	310.800	1924.10	-25.63	32.56	17.25	1684547.33	14272066.68	39°18'08.527"N	80°50'38.397"W	36.84	27.913	0.12	
1950.00	0.180	328.600	1949.10	-25.70	32.61	17.20	1684547.28	14272066.74	39°18'08.528"N	80°50'38.398"W	36.87	27.808	0.22	
1975.00	0.120	306.230	1974.10	-25.76	32.66	17.16	1684547.24	14272066.79	39°18'08.529"N	80°50'38.398"W	36.90	27.715	0.33	
2000.00	0.160	300.070	1999.10	-25.80	32.70	17.11	1684547.19	14272066.82	39°18'08.529"N	80°50'38.399"W	36.90	27.621	0.17	
2025.00	0.060	270.770	2024.10	-25.83	32.71	17.06	1684547.15	14272066.84	39°18'08.529"N	80°50'38.399"W	36.90	27.548	0.45	
2050.00	0.170	308.760	2049.10	-25.87	32.74	17.02	1684547.11	14272066.86	39°18'08.529"N	80°50'38.400"W	36.90	27.474	0.51	
2075.00	0.410	317.740	2074.10	-25.98	32.83	16.93	1684547.02	14272066.95	39°18'08.530"N	80°50'38.401"W	36.94	27.287	0.97	
2100.00	0.220	296.870	2099.10	-26.10	32.91	16.83	1684546.91	14272067.04	39°18'08.531"N	80°50'38.402"W	36.97	27.083	0.88	
2125.00	0.150	301.120	2124.10	-26.16	32.95	16.76	1684546.84	14272067.08	39°18'08.531"N	80°50'38.403"W	36.97	26.958	0.29	
2150.00	0.150	266.160	2149.10	-26.19	32.97	16.70	1684546.78	14272067.10	39°18'08.532"N	80°50'38.404"W	36.96	26.853	0.34	
2175.00	0.270	289.600	2174.10	-26.23	32.99	16.61	1684546.69	14272067.11	39°18'08.532"N	80°50'38.405"W	36.93	26.728	0.57	
2200.00	0.240	277.580	2199.10	-26.29	33.01	16.50	1684546.59	14272067.14	39°18'08.532"N	80°50'38.406"W	36.91	26.560	0.24	
2225.00	0.230	273.910	2224.10	-26.33	33.02	16.40	1684546.48	14272067.15	39°18'08.532"N	80°50'38.408"W	36.87	26.411	0.07	
2250.00	0.150	259.380	2249.10	-26.36	33.02	16.32	1684546.40	14272067.15	39°18'08.532"N	80°50'38.409"W	36.83	26.299	0.37	
2275.00	0.210	265.890	2274.10	-26.37	33.01	16.24	1684546.32	14272067.14	39°18'08.532"N	80°50'38.410"W	36.79	26.196	0.25	

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Doddrige Co., WV	Well	Ridge Unit 2H
Field	Doddrige	Wellbore	Ridge Unit 2H AWB
Facility	Balli Pad		

WELLPATH DATA (350 stations)													
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	Comments
2300.00	0.160	266.070	2299.10	-26.39	33.01	16.16	1684546.24	14272067.13	39°18'08.532"N	80°50'38.411"W	36.75	26.088	0.20
2325.00	0.170	264.260	2324.10	-26.41	33.00	16.09	1684546.17	14272067.13	39°18'08.532"N	80°50'38.412"W	36.71	25.991	0.05
2350.00	0.160	248.910	2349.10	-26.41	32.98	16.02	1684546.10	14272067.11	39°18'08.532"N	80°50'38.413"W	36.67	25.905	0.18
2375.00	0.230	289.970	2374.10	-26.44	32.99	15.94	1684546.02	14272067.12	39°18'08.532"N	80°50'38.414"W	36.64	25.789	0.61
2400.00	0.210	266.170	2399.09	-26.49	33.00	15.85	1684545.93	14272067.13	39°18'08.532"N	80°50'38.415"W	36.61	25.649	0.37
2425.00	0.200	254.870	2424.09	-26.50	32.99	15.76	1684545.84	14272067.12	39°18'08.532"N	80°50'38.416"W	36.56	25.535	0.17
2450.00	0.130	237.370	2449.09	-26.49	32.96	15.69	1684545.78	14272067.09	39°18'08.531"N	80°50'38.417"W	36.51	25.459	0.34
2475.00	0.190	251.710	2474.09	-26.49	32.93	15.63	1684545.71	14272067.06	39°18'08.531"N	80°50'38.418"W	36.45	25.369	0.29
2500.00	0.210	281.150	2499.09	-26.51	32.93	15.55	1684545.63	14272067.06	39°18'08.531"N	80°50'38.419"W	36.41	25.272	0.41
2525.00	0.270	298.020	2524.09	-26.57	32.97	15.45	1684545.53	14272067.09	39°18'08.532"N	80°50'38.420"W	36.41	25.109	0.37
2550.00	0.230	282.990	2549.09	-26.64	33.00	15.35	1684545.43	14272067.13	39°18'08.532"N	80°50'38.421"W	36.40	24.939	0.31
2575.00	0.210	252.760	2574.09	-26.67	33.00	15.26	1684545.34	14272067.13	39°18'08.532"N	80°50'38.422"W	36.36	24.808	0.47
2600.00	0.300	286.280	2599.09	-26.71	33.01	15.15	1684545.23	14272067.13	39°18'08.532"N	80°50'38.424"W	36.32	24.653	0.68
2625.00	0.330	280.530	2624.09	-26.78	33.04	15.01	1684545.10	14272067.17	39°18'08.532"N	80°50'38.425"W	36.29	24.440	0.17
2650.00	0.400	281.030	2649.09	-26.85	33.07	14.86	1684544.94	14272067.20	39°18'08.533"N	80°50'38.427"W	36.25	24.196	0.28
2675.00	0.340	275.520	2674.09	-26.93	33.09	14.70	1684544.78	14272067.22	39°18'08.533"N	80°50'38.429"W	36.21	23.950	0.28
2700.00	0.310	293.390	2699.09	-27.00	33.13	14.56	1684544.65	14272067.25	39°18'08.533"N	80°50'38.431"W	36.19	23.731	0.42
2725.00	0.370	285.360	2724.09	-27.09	33.17	14.42	1684544.51	14272067.30	39°18'08.534"N	80°50'38.433"W	36.17	23.498	0.31
2750.00	0.380	290.390	2749.09	-27.19	33.22	14.27	1684544.35	14272067.35	39°18'08.534"N	80°50'38.435"W	36.16	23.240	0.14
2775.00	0.350	288.560	2774.09	-27.28	33.28	14.12	1684544.20	14272067.40	39°18'08.535"N	80°50'38.437"W	36.15	22.988	0.13
2800.00	0.320	290.310	2799.09	-27.37	33.33	13.98	1684544.06	14272067.45	39°18'08.535"N	80°50'38.439"W	36.14	22.757	0.13
2825.00	0.490	280.930	2824.09	-27.47	33.37	13.81	1684543.89	14272067.50	39°18'08.536"N	80°50'38.441"W	36.12	22.480	0.73
2850.00	1.320	267.910	2849.09	-27.60	33.38	13.42	1684543.50	14272067.51	39°18'08.536"N	80°50'38.446"W	35.98	21.896	3.40
2875.00	1.960	262.230	2874.08	-27.75	33.31	12.71	1684542.79	14272067.44	39°18'08.535"N	80°50'38.455"W	35.65	20.877	2.64
2900.00	2.980	258.040	2899.05	-27.90	33.12	11.65	1684541.73	14272067.25	38°18'08.533"N	80°50'38.468"W	35.11	19.373	4.14
2925.00	4.700	262.120	2923.99	-28.15	32.84	10.00	1684540.08	14272066.97	39°18'08.530"N	80°50'38.489"W	34.33	16.926	6.96
2950.00	4.830	262.160	2948.91	-28.51	32.56	7.94	1684538.02	14272066.69	39°18'08.528"N	80°50'38.515"W	33.51	13.701	0.52
2975.00	5.640	265.620	2973.80	-28.99	32.32	5.67	1684535.76	14272066.45	39°18'08.525"N	80°50'38.544"W	32.82	9.950	3.48
3000.00	6.250	267.370	2998.67	-29.64	32.17	3.09	1684533.17	14272066.29	39°18'08.524"N	80°50'38.577"W	32.31	5.480	2.55
3025.00	6.470	267.710	3023.52	-30.38	32.05	0.32	1684530.41	14272066.18	39°18'08.523"N	80°50'38.612"W	32.05	0.571	0.89

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Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Doddrige Co., WV	Well	Ridge Unit 2H
Field	Doddrige	Wellbore	Ridge Unit 2H AWB
Facility	Balli Pad		

REFERENCE WELLPATH IDENTIFICATION

WELLPATH DATA (350 stations)		MD	Inclination	Azimuth	TVD	Vent Sect	North	East	Grnd East	Grnd North	Longitude	Closure Dist	Closure Dir	DLS	Comments
		(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)		(ft)	(ft)	(ft)	
3050.00	6.860	267.900	3048.35	-31.17	31.94	-2.58	1684527.51	14272066.06	39°18'08.522"N	80°50'38.649"W	32.04	355.381	32.04	355.381	1.56
3075.00	7.440	269.380	3073.15	-32.06	31.87	-5.69	1684524.40	14272065.99	39°18'08.521"N	80°50'38.689"W	32.37	349.875	32.37	349.875	2.43
3100.00	7.790	269.950	3097.93	-33.07	31.85	-9.00	1684521.09	14272065.97	39°18'08.521"N	80°50'38.731"W	33.09	344.214	33.09	344.214	1.43
3125.00	7.950	269.820	3122.70	-34.12	31.84	-12.43	1684517.67	14272065.97	39°18'08.521"N	80°50'38.775"W	34.18	338.680	34.18	338.680	0.64
3150.00	8.370	270.830	3147.44	-35.24	31.86	-15.97	1684514.12	14272065.99	39°18'08.521"N	80°50'38.820"W	35.64	333.371	35.64	333.371	1.78
3175.00	9.010	271.090	3172.16	-36.47	31.92	-19.75	1684510.35	14272066.05	39°18'08.522"N	80°50'38.868"W	37.54	328.255	37.54	328.255	2.56
3200.00	9.600	271.090	3196.83	-37.79	32.00	-23.79	1684506.31	14272066.13	39°18'08.523"N	80°50'38.919"W	39.88	323.369	39.88	323.369	2.36
3225.00	10.410	271.410	3221.45	-39.22	32.10	-28.14	1684501.97	14272066.22	39°18'08.524"N	80°50'38.974"W	42.68	318.752	42.68	318.752	3.25
3250.00	11.230	272.500	3246.00	-40.83	32.26	-32.83	1684497.28	14272066.38	39°18'08.525"N	80°50'39.034"W	46.02	314.500	46.02	314.500	3.38
3275.00	11.930	272.270	3270.49	-42.57	32.47	-37.84	1684492.27	14272066.59	39°18'08.527"N	80°50'39.098"W	49.86	310.650	49.86	310.650	2.61
3300.00	12.850	273.010	3294.91	-44.47	32.71	-43.20	1684486.91	14272066.84	39°18'08.530"N	80°50'39.166"W	54.19	307.138	54.19	307.138	3.73
3325.00	13.630	273.240	3319.25	-46.53	33.03	-48.91	1684481.19	14272067.15	39°18'08.533"N	80°50'39.239"W	59.02	304.027	59.02	304.027	3.13
3350.00	14.320	272.980	3343.51	-48.71	33.35	-54.94	1684475.17	14272067.48	39°18'08.537"N	80°50'39.315"W	64.27	301.261	64.27	301.261	2.77
3375.00	14.910	272.660	3367.70	-50.90	33.61	-61.25	1684468.87	14272067.73	39°18'08.539"N	80°50'39.395"W	69.86	298.755	69.86	298.755	2.71
3400.00	15.640	269.950	3391.81	-53.02	33.70	-67.83	1684462.29	14272067.82	39°18'08.540"N	80°50'39.479"W	75.74	296.418	75.74	296.418	3.43
3425.00	16.400	268.810	3415.84	-55.08	33.62	-74.73	1684455.39	14272067.75	39°18'08.540"N	80°50'39.567"W	81.94	294.224	81.94	294.224	3.29
3450.00	17.320	267.810	3439.77	-57.12	33.41	-81.88	1684448.15	14272067.53	39°18'08.538"N	80°50'39.659"W	88.52	292.172	88.52	292.172	3.86
3475.00	18.530	266.370	3463.55	-59.12	33.01	-89.66	1684440.47	14272067.14	39°18'08.534"N	80°50'39.757"W	95.54	290.214	95.54	290.214	5.15
3500.00	19.120	264.390	3487.22	-60.98	32.36	-97.70	1684432.43	14272066.49	39°18'08.527"N	80°50'39.859"W	102.92	288.327	102.92	288.327	3.48
3525.00	19.770	263.040	3510.79	-62.67	31.45	-105.97	1684424.16	14272065.58	39°18'08.519"N	80°50'39.964"W	110.54	286.529	110.54	286.529	3.16
3550.00	20.550	262.260	3534.26	-64.26	30.35	-114.52	1684415.62	14272064.47	39°18'08.508"N	80°50'40.073"W	118.47	284.842	118.47	284.842	3.30
3575.00	21.460	262.450	3557.60	-65.88	29.15	-123.40	1684406.74	14272063.28	39°18'08.496"N	80°50'40.186"W	126.79	283.293	126.79	283.293	3.65
3600.00	21.950	262.370	3580.82	-67.55	27.93	-132.56	1684397.58	14272062.06	39°18'08.484"N	80°50'40.303"W	135.47	281.899	135.47	281.899	1.96
3625.00	22.420	263.240	3603.97	-69.32	26.75	-141.93	1684388.22	14272060.88	39°18'08.473"N	80°50'40.422"W	144.43	280.674	144.43	280.674	2.29
3650.00	22.490	264.210	3627.08	-71.26	25.71	-151.42	1684378.73	14272059.84	39°18'08.463"N	80°50'40.543"W	153.59	279.635	153.59	279.635	1.51
3675.00	22.390	265.450	3650.19	-73.38	24.85	-160.92	1684369.23	14272058.98	39°18'08.454"N	80°50'40.664"W	162.83	278.777	162.83	278.777	1.94
3700.00	22.440	267.100	3673.30	-75.74	24.23	-170.43	1684359.72	14272058.36	39°18'08.444"N	80°50'40.785"W	172.15	278.091	172.15	278.091	2.52
3725.00	21.970	268.850	3696.44	-78.34	23.89	-179.88	1684350.29	14272058.02	39°18'08.445"N	80°50'40.905"W	181.46	277.566	181.46	277.566	3.25
3750.00	21.710	271.170	3719.65	-81.21	23.89	-189.17	1684340.99	14272058.02	39°18'08.445"N	80°50'41.023"W	190.68	277.198	190.68	277.198	3.61
3775.00	21.780	273.440	3742.87	-84.43	24.27	-198.43	1684331.74	14272058.40	39°18'08.449"N	80°50'41.141"W	199.81	276.972	199.81	276.972	3.38

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REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Area	Doddrige Co., WV
Field	Doddrige
Facility	Balli Pad
Operator	Slot #02
Area	Ridge Unit 2H
Field	Ridge Unit 2H AWP
Facility	

WELLPATH DATA (350 stations)														
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grnd East	Grnd North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Comments
3800.00	21.570	3766.10	-87.86	24.88	-207.64	1684322.55	14272059.01	39°18'08.455"N	80°50'41.258"W	209.13	276.833	1.41		
3825.00	21.700	3789.34	-91.49	25.71	-216.82	1684313.36	14272059.84	39°18'08.464"N	80°50'41.375"W	218.34	276.764	2.91		
3850.00	21.940	3812.55	-95.36	26.78	-226.05	1684304.13	14272060.91	39°18'08.475"N	80°50'41.492"W	227.63	276.757	1.66		
3875.00	22.120	3835.73	-99.46	28.08	-235.34	1684294.85	14272062.21	39°18'08.487"N	80°50'41.610"W	237.00	276.803	2.69		
3900.00	22.300	3858.87	-103.86	29.67	-244.65	1684285.54	14272063.80	39°18'08.503"N	80°50'41.729"W	246.44	276.916	2.86		
3925.00	22.590	3881.98	-108.49	31.50	-254.02	1684276.17	14272065.63	39°18'08.522"N	80°50'41.848"W	255.96	277.069	1.73		
3950.00	22.910	3905.03	-113.29	33.47	-263.48	1684266.71	14272067.59	39°18'08.541"N	80°50'41.968"W	265.60	277.239	1.56		
3975.00	23.310	3928.03	-118.25	35.56	-273.07	1684257.13	14272069.69	39°18'08.562"N	80°50'42.090"W	275.37	277.420	1.86		
4000.00	23.630	3950.96	-123.36	37.78	-282.77	1684247.43	14272071.91	39°18'08.584"N	80°50'42.213"W	285.29	277.611	1.49		
4025.00	23.920	3973.84	-128.68	40.08	-292.69	1684237.62	14272074.21	39°18'08.607"N	80°50'42.338"W	295.32	277.801	1.19		
4050.00	24.180	3996.67	-133.93	42.49	-302.49	1684227.72	14272076.61	39°18'08.631"N	80°50'42.464"W	305.46	277.995	1.54		
4075.00	24.730	4019.42	-139.53	45.12	-312.49	1684217.72	14272079.24	39°18'08.657"N	80°50'42.591"W	315.74	278.216	3.34		
4100.00	25.130	4042.09	-145.46	48.07	-322.61	1684207.61	14272082.19	39°18'08.687"N	80°50'42.720"W	326.17	278.475	2.99		
4125.00	25.740	4064.67	-151.70	51.30	-332.85	1684197.37	14272085.42	39°18'08.719"N	80°50'42.850"W	336.78	278.762	3.00		
4150.00	25.770	4087.19	-158.09	54.66	-343.18	1684187.05	14272088.78	39°18'08.752"N	80°50'42.981"W	347.61	279.049	0.16		
4175.00	25.850	4109.69	-164.50	58.03	-353.53	1684176.70	14272092.15	39°18'08.786"N	80°50'43.113"W	358.26	279.322	0.46		
4200.00	25.540	4132.22	-170.87	61.99	-363.84	1684166.40	14272095.50	39°18'08.819"N	80°50'43.244"W	368.98	279.577	1.33		
4225.00	25.030	4154.83	-177.13	64.66	-374.00	1684156.24	14272098.77	39°18'08.851"N	80°50'43.373"W	379.55	279.809	2.05		
4250.00	24.690	4177.51	-183.24	67.83	-384.02	1684146.22	14272101.95	39°18'08.883"N	80°50'43.501"W	389.97	280.017	1.52		
4275.00	24.770	4200.22	-189.26	70.92	-394.01	1684136.23	14272105.03	39°18'08.914"N	80°50'43.628"W	400.35	280.203	0.85		
4300.00	25.060	4222.89	-195.19	73.86	-404.13	1684126.13	14272107.97	39°18'08.943"N	80°50'43.756"W	410.82	280.357	2.57		
4325.00	25.270	4245.52	-201.01	76.65	-414.38	1684115.87	14272110.76	39°18'08.971"N	80°50'43.887"W	421.41	280.479	1.46		
4350.00	25.220	4268.13	-206.78	79.35	-424.70	1684105.56	14272113.46	39°18'08.997"N	80°50'44.018"W	432.05	280.584	0.49		
4375.00	25.050	4290.76	-212.47	82.00	-434.98	1684095.28	14272116.11	39°18'08.024"N	80°50'44.149"W	442.64	280.676	0.85		
4400.00	25.290	4313.39	-218.15	84.63	-445.28	1684084.98	14272118.73	39°18'08.050"N	80°50'44.280"W	453.25	280.761	0.86		
4425.00	24.890	4336.03	-223.81	87.23	-455.56	1684074.71	14272121.33	39°18'08.076"N	80°50'44.410"W	463.84	280.840	1.61		
4450.00	24.990	4358.70	-229.48	89.87	-465.76	1684064.51	14272123.98	39°18'08.102"N	80°50'44.540"W	474.36	280.922	1.31		
4475.00	24.870	4381.37	-235.22	92.60	-475.94	1684054.34	14272126.70	39°18'08.129"N	80°50'44.669"W	484.87	281.010	0.58		
4500.00	23.490	4404.18	-240.76	95.21	-485.85	1684044.44	14272129.31	39°18'08.155"N	80°50'44.795"W	495.09	281.087	5.63		
4525.00	23.100	4427.14	-245.97	97.57	-495.45	1684034.84	14272131.67	39°18'08.179"N	80°50'44.917"W	504.96	281.141	2.47		

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Ridge Unit 2H AWP Proj: 15274
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION
Area	Doddridge Co., WV
Field	Doddridge
Facility	Ballii Pad
Operator	Slot
Area	Ridge Unit 2H
Field	Ridge Unit 2H AWP
Facility	Slot #02

WELLPATH DATA (350 stations)

MD	Inclination	Azimuth	TVD	Vent Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Comments
4550.00	22.570	283.650	4450.18	-251.03	99.82	-504.88	1684025.41	14272133.92	39°18'09.201"N	80°50'45.037"W	514.66	281.184	2.23	
4575.00	22.620	284.050	4473.26	-256.10	102.12	-514.21	1684016.09	14272136.22	39°18'09.224"N	80°50'45.156"W	524.26	281.233	0.65	
4600.00	22.530	284.090	4496.34	-261.20	104.45	-523.52	1684006.78	14272138.55	39°18'09.247"N	80°50'45.274"W	533.84	281.284	0.37	
4625.00	22.430	284.030	4519.44	-266.27	106.78	-532.79	1683997.51	14272140.87	39°18'09.270"N	80°50'45.392"W	543.38	281.332	0.41	
4650.00	22.720	284.470	4542.53	-271.40	109.14	-542.09	1683988.21	14272143.23	39°18'09.294"N	80°50'45.511"W	552.97	281.383	1.34	
4675.00	22.890	286.300	4565.57	-276.73	111.71	-551.43	1683978.88	14272145.80	39°18'09.319"N	80°50'45.629"W	562.64	281.452	2.92	
4700.00	22.630	287.300	4588.63	-282.25	114.50	-560.69	1683969.52	14272148.60	39°18'09.347"N	80°50'45.747"W	572.27	281.542	1.86	
4725.00	23.230	288.080	4611.65	-287.93	117.46	-569.97	1683960.35	14272151.56	39°18'09.377"N	80°50'45.865"W	581.95	281.645	2.69	
4750.00	23.980	289.500	4634.56	-293.93	120.69	-579.45	1683950.87	14272154.78	39°18'09.409"N	80°50'45.986"W	591.88	281.766	3.76	
4775.00	24.690	290.930	4657.34	-300.31	124.25	-588.11	1683941.21	14272158.34	39°18'09.444"N	80°50'46.108"W	602.07	281.910	3.69	
4800.00	24.810	291.680	4680.04	-306.94	128.05	-598.86	1683931.46	14272162.14	39°18'09.482"N	80°50'46.232"W	612.40	282.070	1.34	
4825.00	25.030	291.860	4702.72	-313.68	131.96	-608.65	1683921.69	14272166.05	39°18'09.521"N	80°50'46.357"W	622.79	282.233	0.93	
4850.00	25.210	292.050	4725.35	-320.50	135.93	-618.49	1683911.85	14272170.01	39°18'09.560"N	80°50'46.482"W	633.25	282.395	0.79	
4875.00	25.300	291.140	4747.96	-327.37	139.94	-628.37	1683901.97	14272174.03	39°18'09.600"N	80°50'46.608"W	643.77	282.555	0.39	
4900.00	24.480	291.220	4770.64	-334.09	143.83	-638.15	1683892.19	14272177.91	39°18'09.638"N	80°50'46.732"W	654.16	282.701	3.63	
4925.00	24.780	291.680	4793.36	-340.71	147.64	-647.85	1683882.50	14272181.72	39°18'09.676"N	80°50'46.855"W	664.46	282.838	1.42	
4950.00	25.550	292.260	4815.99	-347.54	151.62	-657.71	1683872.65	14272185.70	39°18'09.716"N	80°50'46.980"W	674.96	282.981	3.23	
4975.00	26.280	292.370	4838.48	-354.61	155.77	-667.81	1683862.54	14272189.84	39°18'09.757"N	80°50'47.109"W	685.74	283.129	2.93	
5000.00	26.410	292.080	4860.88	-361.78	159.96	-678.08	1683852.28	14272194.04	39°18'09.798"N	80°50'47.239"W	696.70	283.274	0.73	
5025.00	26.980	291.960	4883.22	-369.00	164.17	-688.49	1683841.87	14272198.25	39°18'09.840"N	80°50'47.372"W	707.80	283.412	2.29	
5050.00	27.610	291.890	4905.43	-376.36	168.45	-699.13	1683831.24	14272202.53	39°18'09.883"N	80°50'47.507"W	719.14	283.547	2.52	
5075.00	27.900	291.520	4927.56	-383.80	172.76	-709.95	1683820.43	14272206.83	39°18'09.925"N	80°50'47.644"W	730.66	283.677	1.35	
5100.00	28.460	291.180	4949.59	-391.28	177.06	-720.94	1683809.44	14272211.13	39°18'09.968"N	80°50'47.784"W	742.37	283.798	2.33	
5125.00	28.980	291.240	4971.52	-398.88	181.40	-732.14	1683798.24	14272215.47	39°18'10.011"N	80°50'47.927"W	754.28	283.916	2.08	
5150.00	29.690	290.960	4993.31	-406.61	185.81	-743.57	1683786.82	14272219.88	39°18'10.055"N	80°50'48.072"W	766.43	284.030	2.89	
5175.00	29.570	290.560	5015.04	-414.35	190.19	-755.13	1683775.27	14272224.26	39°18'10.099"N	80°50'48.219"W	778.71	284.137	0.93	
5200.00	29.170	289.840	5036.83	-421.93	194.43	-766.63	1683763.76	14272228.49	39°18'10.141"N	80°50'48.365"W	790.90	284.231	2.13	
5225.00	29.150	288.920	5058.66	-429.33	198.47	-778.12	1683752.28	14272232.53	39°18'10.181"N	80°50'48.511"W	803.04	284.309	1.79	
5250.00	28.830	287.940	5080.53	-436.52	202.30	-789.62	1683740.79	14272236.36	39°18'10.219"N	80°50'48.657"W	815.12	284.370	2.29	
5275.00	28.350	287.030	5102.48	-443.47	206.90	-801.03	1683729.38	14272239.95	39°18'10.255"N	80°50'48.802"W	827.07	284.415	2.59	

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REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #02
Operator	ANTERO RESOURCES CORPORATION	Well	Ridge Unit 2H
Area	Doddridge Co., WV	Wellbore	Ridge Unit 2H AWB
Field	Doddridge		
Facility	Balli Pad		

WELLPATH DATA (350 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (ft/100ft)	Comments
5300.00	28.360	286.730	124.48	-450.26	209.34	-812.39	1683718.02	14272243.40	39°18'10.289"N	80°50'48.947"W	838.93	284.450	0.57	
5325.00	28.610	286.380	5146.45	-457.03	212.74	-823.82	1683706.60	14272246.80	39°18'10.323"N	80°50'49.092"W	850.84	284.480	1.20	
5350.00	28.140	285.550	5168.45	-463.67	216.01	-835.24	1683695.18	14272250.06	39°18'10.355"N	80°50'49.237"W	862.72	284.500	2.45	
5375.00	27.420	285.080	5190.57	-470.07	219.09	-846.48	1683683.95	14272253.14	39°18'10.386"N	80°50'49.380"W	874.37	284.511	3.01	
5400.00	27.140	286.040	5212.79	-476.40	222.16	-857.52	1683672.92	14272256.21	39°18'10.416"N	80°50'49.521"W	885.83	284.524	2.09	
5425.00	26.860	288.240	5235.06	-482.94	225.50	-868.36	1683662.08	14272259.55	39°18'10.449"N	80°50'49.659"W	897.16	284.557	4.15	
5450.00	26.440	288.910	5257.41	-489.62	229.07	-878.99	1683651.45	14272263.12	39°18'10.485"N	80°50'49.794"W	908.35	284.507	2.07	
5475.00	26.190	289.280	5279.82	-496.31	232.70	-889.46	1683640.98	14272266.75	39°18'10.521"N	80°50'49.927"W	919.40	284.661	1.20	
5500.00	26.380	290.460	5302.23	-503.10	236.46	-899.88	1683630.57	14272270.51	39°18'10.558"N	80°50'50.059"W	930.42	284.723	2.22	
5525.00	26.930	291.430	5324.58	-510.15	240.47	-910.35	1683620.11	14272274.52	39°18'10.598"N	80°50'50.192"W	941.57	284.797	2.81	
5550.00	27.370	292.080	5346.82	-517.45	244.70	-920.94	1683609.51	14272278.74	39°18'10.640"N	80°50'50.327"W	952.90	284.880	2.12	
5575.00	26.960	291.430	5369.06	-524.75	248.93	-931.54	1683598.92	14272282.97	39°18'10.682"N	80°50'50.462"W	964.23	284.961	2.02	
5600.00	26.070	290.620	5391.43	-531.78	252.94	-941.96	1683588.51	14272286.98	39°18'10.722"N	80°50'50.594"W	975.33	285.031	3.84	
5625.00	25.740	289.530	5413.92	-538.52	256.69	-952.22	1683578.25	14272290.72	39°18'10.759"N	80°50'50.725"W	986.21	285.086	2.32	
5650.00	24.820	288.330	5436.53	-544.94	260.15	-962.32	1683568.16	14272294.19	39°18'10.793"N	80°50'50.853"W	996.86	285.128	4.21	
5675.00	24.400	289.310	5459.26	-551.18	263.51	-972.17	1683558.31	14272297.54	39°18'10.827"N	80°50'50.978"W	1007.25	285.166	2.34	
5700.00	25.300	291.990	5481.94	-557.74	267.22	-982.00	1683548.48	14272301.25	39°18'10.864"N	80°50'51.103"W	1017.71	285.223	5.77	
5725.00	25.950	292.810	5504.48	-564.75	271.34	-991.99	1683538.49	14272305.37	39°18'10.905"N	80°50'51.230"W	1028.43	285.298	2.96	
5750.00	25.620	293.110	5526.99	-571.88	275.58	-1002.01	1683528.48	14272309.61	39°18'10.947"N	80°50'51.358"W	1039.21	285.378	1.42	
5775.00	25.330	293.910	5549.56	-579.01	279.87	-1011.87	1683518.63	14272313.90	39°18'10.989"N	80°50'51.483"W	1049.86	285.461	1.80	
5800.00	26.140	296.550	5572.09	-585.42	284.27	-1021.72	1683508.92	14272318.24	39°18'11.031"N	80°50'51.608"W	1060.41	285.544	2.12	
5825.00	24.350	294.780	5594.78	-591.84	288.59	-1031.54	1683499.41	14272322.63	39°18'11.073"N	80°50'51.733"W	1070.86	285.627	3.04	
5850.00	24.030	294.490	5617.94	-598.38	292.91	-1041.33	1683490.51	14272327.06	39°18'11.115"N	80°50'51.858"W	1081.21	285.710	4.21	
5875.00	24.150	289.080	5641.68	-605.92	297.24	-1051.09	1683481.61	14272331.53	39°18'11.157"N	80°50'51.983"W	1091.56	285.793	5.77	
5900.00	24.860	292.690	5665.38	-613.46	301.57	-1060.82	1683472.71	14272336.04	39°18'11.200"N	80°50'52.108"W	1101.91	285.876	7.33	
5925.00	25.760	295.870	5689.07	-621.00	305.90	-1070.53	1683463.81	14272340.59	39°18'11.242"N	80°50'52.233"W	1112.26	285.959	8.89	
5950.00	26.660	299.050	5712.76	-628.54	310.23	-1080.22	1683454.91	14272345.17	39°18'11.284"N	80°50'52.358"W	1122.61	286.042	10.45	
5975.00	27.560	302.230	5736.45	-636.08	314.56	-1089.89	1683446.01	14272349.74	39°18'11.326"N	80°50'52.483"W	1132.96	286.125	12.01	
6000.00	28.460	305.410	5760.14	-643.62	318.89	-1099.56	1683437.11	14272354.32	39°18'11.368"N	80°50'52.608"W	1143.31	286.208	13.57	
6025.00	29.360	308.590	5783.83	-651.16	323.22	-1109.22	1683428.21	14272358.90	39°18'11.410"N	80°50'52.733"W	1153.66	286.291	15.13	
6050.00	30.260	311.770	5807.52	-658.70	327.55	-1118.89	1683419.31	14272363.47	39°18'11.452"N	80°50'52.858"W	1164.01	286.374	16.69	
6075.00	31.160	314.950	5831.21	-666.24	331.88	-1128.55	1683410.41	14272368.05	39°18'11.494"N	80°50'52.983"W	1174.36	286.457	18.25	
6100.00	32.060	318.130	5854.90	-673.78	336.21	-1138.22	1683401.51	14272372.63	39°18'11.536"N	80°50'53.108"W	1184.71	286.540	19.81	
6125.00	32.960	321.310	5878.59	-681.32	340.54	-1147.89	1683392.61	14272377.21	39°18'11.578"N	80°50'53.233"W	1195.06	286.623	21.37	
6150.00	33.860	324.490	5902.28	-688.86	344.87	-1157.55	1683383.71	14272381.79	39°18'11.620"N	80°50'53.358"W	1205.41	286.706	22.93	
6175.00	34.760	327.670	5925.97	-696.40	349.20	-1167.22	1683374.81	14272386.37	39°18'11.662"N	80°50'53.483"W	1215.76	286.789	24.49	
6200.00	35.660	330.850	5949.66	-703.94	353.53	-1176.89	1683365.91	14272390.95	39°18'11.704"N	80°50'53.608"W	1226.11	286.872	26.05	
6225.00	36.560	334.030	5973.35	-711.48	357.86	-1186.55	1683357.01	14272395.53	39°18'11.746"N	80°50'53.733"W	1236.46	286.955	27.61	
6250.00	37.460	337.210	5997.04	-719.02	362.19	-1196.22	1683348.11	14272400.11	39°18'11.788"N	80°50'53.858"W	1246.81	287.038	29.17	
6275.00	38.360	340.390	6020.73	-726.56	366.52	-1205.89	1683339.21	14272404.69	39°18'11.830"N	80°50'53.983"W	1257.16	287.121	30.73	
6300.00	39.260	343.570	6044.42	-734.10	370.85	-1215.55	1683330.31	14272409.27	39°18'11.872"N	80°50'54.108"W	1267.51	287.204	32.29	
6325.00	40.160	346.750	6068.11	-741.64	375.18	-1225.22	1683321.41	14272413.85	39°18'11.914"N	80°50'54.233"W	1277.86	287.287	33.85	
6350.00	41.060	349.930	6091.80	-749.18	379.51	-1234.89	1683312.51	14272418.43	39°18'11.956"N	80°50'54.358"W	1288.21	287.370	35.41	
6375.00	41.960	353.110	6115.49	-756.72	383.84	-1244.55	1683303.61	14272423.01	39°18'12.000"N	80°50'54.483"W	1298.56	287.453	36.97	
6400.00	42.860	356.290	6139.18	-764.26	388.17	-1254.22	1683294.71	14272427.59	39°18'12.042"N	80°50'54.608"W	1308.91	287.536	38.53	
6425.00	43.760	359.470	6162.87	-771.80	392.50	-1263.89	1683285.81	14272432.17	39°18'12.084"N	80°50'54.733"W	1319.26	287.619	40.09	
6450.00	44.660	362.650	6186.56	-779.34	396.83	-1273.55	1683276.91	14272436.75	39°18'12.126"N	80°50'54.858"W	1329.61	287.702	41.65	
6475.00	45.560	365.830	6210.25	-786.88	401.16	-1283.22	1683268.01	14272441.33	39°18'12.168"N	80°50'54.983"W	1340.00	287.785	43.21	
6500.00	46.460	369.010	6233.94	-794.42	405.49	-1292.89	1683259.11	14272445.91	39°18'12.210"N	80°50'55.108"W	1350.35	287.868	44.77	
6525.00	47.360	372.190	6257.63	-801.96	409.82	-1302.55	1683250.21	14272450.49	39°18'12.252"N	80°50'55.233"W	1360.70	287.951	46.33	
6550.00	48.260	375.370	6281.32	-809.50	414.15	-1312.22	1683241.31	14272455.07	39°18'12.294"N	80°50'55.358"W	1371.05	288.034	47.89	
6575.00	49.160	378.550	6305.01	-817.04	418.48	-1321.89	1683232.41	14272459.65	39°18'12.336"N	80°50'55.483"W	1381.40	288.117	49.45	
6600.00	50.060	381.730	6328.70	-824.58	422.81	-1331.55	1683223.51	14272464.23	39°18'12.378"N	80°50'55.608"W	1391.75	288.200	51.01	
6625.00	50.960	384.910	6352.39	-832.12	427.14	-1341.22	1683214.61	14272468.81	39°18'12.420"N	80°50'55.733"W	1402.10	288.283	52.57	
6650.00	51.860	388.090	6376.08	-839.66	431.47	-1350.89	1683205.71	14272473.39	39°18'12.462"N	80°50'55.858"W	1412.45	288.366	54.13	
6675.00	52.760	391.270	6400.00	-847.20	435.80	-1360.55	1683196.81	14272477.97	39°18'12.504"N	80°50'55.983"W	1422.80	288.449	55.69	
6700.00	53.660	394.450	6423.69	-854.74	440.13	-1370.22	1683187.91	14272482.55	39°18'12.546"N	80°50'56.108"W	1433.15	288.532	57.25	
6725.00	54.560	397.630	6447.38	-862.28	444.46	-1379.89	1683179.01	14272487.13	39°18'12.588"N	80°50'56.233"W	1443.50	288.615	58.81	
6750.00	55.460	400.810	6471.07	-869.82	448.79	-1389.55	1683170.11	14272491.71	39°18'12.630"N	80°50'56.358"W	1453.85	288.698	60.37	
6775.00	56.360	403.990	6494.76	-877.36	453.12	-1399.22	1683161.21	14272496.29	39°18'12.672"N	80°50'56.483"W	1464.20	288.781	61.93	
6800.00	57.260	407.170	6518.45	-884.90	457.45	-1408.89	1683152.31	14272500.87	39°18'12.714"N	80°50'56.608"W	1474.55	288.864	63.49	
6825.00	58.160	410												



Actual Wellpath Report

Ridge Unit 2H AWP Proj: 15274
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Doddridge Co., WV	Well	Ridge Unit 2H
Field	Doddridge	Wellbore	Ridge Unit 2H AWP
Facility	Balli Pad		

WELLPATH DATA (350 stations) † = interpolated/extrapolated station												
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Gnd East	Gnd North	Latitude	Longitude	Closure Dist	Closure Dir
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)			(ft)	(°)
6421.00	30.730	236.190	6132.05	-687.59	309.79	-1271.02	1683259.57	14272343.80	39°18'11.28"N	80°50'54.77"W	1308.23	283.698
6468.00	33.010	229.950	6171.97	-679.51	294.86	-1290.81	1683239.80	14272328.88	39°18'11.14"N	80°50'55.03"W	1324.06	282.667
6516.00	35.640	225.020	6211.62	-668.26	276.56	-1310.72	1683219.90	14272310.59	39°18'10.96"N	80°50'55.28"W	1339.58	281.914
6563.00	38.500	220.720	6249.12	-654.45	255.78	-1329.96	1683200.67	14272289.82	39°18'10.75"N	80°50'55.53"W	1354.33	280.886
6614.00	41.370	215.820	6288.23	-636.25	230.07	-1350.18	1683180.45	14272264.12	39°18'10.50"N	80°50'55.78"W	1369.65	279.670
6657.00	43.830	209.690	6318.90	-617.84	205.60	-1365.88	1683164.75	14272239.66	39°18'10.26"N	80°50'55.98"W	1381.27	278.560
6702.00	46.130	203.280	6355.28	-592.63	173.99	-1381.59	1683149.05	14272208.06	39°18'09.94"N	80°50'56.18"W	1392.50	277.178
6751.00	47.480	199.140	6385.40	-567.78	144.09	-1393.18	1683137.47	14272178.17	39°18'09.65"N	80°50'56.36"W	1400.61	275.905
6779.00	48.885	195.864	6404.07	-550.79	124.19	-1399.45	1683131.20	14272158.28	39°18'09.45"N	80°50'56.47"W	1404.95	275.071
6801.00	50.070	193.390	6418.37	-536.71	108.01	-1403.67	1683126.98	14272142.11	39°18'09.29"N	80°50'56.47"W	1407.82	274.400
6846.00	52.830	188.550	6446.42	-505.93	73.48	-1410.33	1683120.32	14272107.59	39°18'08.96"N	80°50'56.56"W	1412.25	272.982
6895.00	55.930	182.590	6474.97	-469.44	33.86	-1414.16	1683116.50	14272067.99	39°18'08.66"N	80°50'56.60"W	1414.56	271.372
6941.00	58.740	177.150	6499.81	-422.60	-4.83	-1414.04	1683116.62	14272029.31	39°18'08.18"N	80°50'56.60"W	1414.05	269.804
6988.00	62.110	171.890	6523.01	-392.72	-45.49	-1410.11	1683120.55	14271988.66	39°18'07.78"N	80°50'56.56"W	1410.84	268.152
6997.00	62.804	171.009	6527.18	-384.84	-53.39	-1408.92	1683121.73	14271980.78	39°18'07.70"N	80°50'56.54"W	1409.93	267.830
7034.00	65.710	167.480	6543.25	-351.79	-86.11	-1402.69	1683127.96	14271948.06	39°18'07.37"N	80°50'56.46"W	1405.33	266.487
7061.00	68.056	165.298	6563.85	-327.04	-110.24	-1396.84	1683133.81	14271923.94	39°18'07.14"N	80°50'56.38"W	1401.19	265.487
7082.00	69.900	163.650	6561.38	-307.45	-129.13	-1391.59	1683139.05	14271905.06	39°18'06.95"N	80°50'56.32"W	1397.57	264.699
7129.00	73.980	161.120	6575.95	-262.79	-171.70	-1378.06	1683152.58	14271862.51	39°18'06.53"N	80°50'56.15"W	1388.72	262.898
7174.00	75.895	161.191	6587.65	-219.34	-212.82	-1364.03	1683166.61	14271821.40	39°18'06.12"N	80°50'55.97"W	1380.53	261.132
7180.00	76.150	161.200	6589.10	-213.52	-218.34	-1362.15	1683168.48	14271815.89	39°18'06.07"N	80°50'55.94"W	1379.54	260.894
7224.00	79.370	161.430	6598.42	-170.52	-259.06	-1348.38	1683182.25	14271775.18	39°18'05.66"N	80°50'55.77"W	1373.04	259.124
7274.00	83.510	162.290	6605.86	-121.09	-306.04	-1332.99	1683197.63	14271728.22	39°18'05.20"N	80°50'55.58"W	1367.67	257.070
7318.00	87.370	162.700	6609.36	-77.24	-347.87	-1319.82	1683210.79	14271686.41	39°18'04.79"N	80°50'55.47"W	1364.90	255.234
7365.00	90.050	162.770	6610.42	-30.26	-392.74	-1305.90	1683224.71	14271641.55	39°18'04.34"N	80°50'55.23"W	1363.68	253.262
7413.00	90.110	161.430	6610.35	17.74	-438.42	-1291.15	1683239.46	14271595.90	39°18'03.89"N	80°50'55.05"W	1363.55	251.245
7507.00	90.330	160.510	6609.99	111.72	-527.28	-1260.50	1683270.09	14271507.07	39°18'03.01"N	80°50'54.66"W	1366.34	247.300
7601.00	90.140	161.740	6609.61	205.71	-616.22	-1230.09	1683300.49	14271418.16	39°18'02.13"N	80°50'54.27"W	1375.81	243.991
7696.00	90.200	161.640	6609.32	300.70	-706.41	-1200.25	1683330.32	14271328.01	39°18'01.24"N	80°50'53.90"W	1392.70	239.521
7790.00	90.020	164.280	6609.14	394.68	-796.28	-1172.70	1683357.86	14271238.18	39°18'00.36"N	80°50'53.56"W	1417.49	235.823

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Doddrige Co., WV	Well	Ridge Unit 2H
Field	Doddrige	Wellbore	Ridge Unit 2H AWB
Facility	Balli Pad		

WELLPATH DATA (350 stations)												
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Comments
7884.00	90.510	163.450	6608.71	488.63	-886.57	-1146.58	1683383.97	14271147.92	39°17'59.463"N	80°50'53.221"W	1449.37	1.03
7797.00	90.600	159.460	6607.79	583.60	-976.62	-1116.37	1683414.16	14271057.91	39°17'58.572"N	80°50'52.839"W	1483.26	4.20
8074.00	89.680	157.880	6607.56	678.44	-1065.11	-1081.82	1683448.70	14270969.46	39°17'57.697"N	80°50'52.402"W	1518.15	1.92
8169.00	89.620	160.780	6608.14	773.32	-1153.98	-1048.29	1683482.22	14270880.62	39°17'56.818"N	80°50'51.977"W	1559.03	3.05
8264.00	89.400	161.400	6608.95	868.31	-1243.85	-1017.50	1683512.99	14270790.79	39°17'55.929"N	80°50'51.587"W	1607.01	0.68
8359.00	89.640	159.580	6609.74	963.27	-1333.39	-985.78	1683544.70	14270701.29	39°17'55.044"N	80°50'51.186"W	1658.22	1.93
8453.00	89.430	160.880	6610.51	1057.22	-1421.84	-953.99	1683576.48	14270612.87	39°17'54.169"N	80°50'50.783"W	1712.23	1.40
8548.00	89.460	164.160	6611.43	1152.20	-1512.44	-925.46	1683605.00	14270522.31	39°17'53.273"N	80°50'50.422"W	1773.12	3.45
8642.00	89.740	167.310	6612.08	1245.98	-1603.53	-902.30	1683628.15	14270431.26	39°17'52.372"N	80°50'50.128"W	1839.96	3.36
8737.00	89.710	167.980	6612.54	1340.52	-1696.02	-881.97	1683648.47	14270338.49	39°17'51.455"N	80°50'49.873"W	1911.91	0.71
8832.00	90.040	164.840	6612.75	1435.22	-1788.65	-859.65	1683670.78	14270246.20	39°17'50.542"N	80°50'49.591"W	1984.51	3.32
8927.00	89.920	162.690	6612.78	1530.17	-1879.86	-833.09	1683697.33	14270155.03	39°17'49.640"N	80°50'49.255"W	2056.19	2.27
9022.00	88.970	161.220	6613.70	1625.16	-1970.18	-803.67	1683726.74	14270064.75	39°17'48.747"N	80°50'48.883"W	2127.79	1.84
9116.00	89.580	160.010	6614.89	1719.13	-2058.84	-772.47	1683757.93	14269976.12	39°17'47.870"N	80°50'48.488"W	2198.98	1.44
9160.00	89.580	160.010	6614.89	1719.13	-2058.84	-772.47	1683757.93	14269976.12	39°17'47.870"N	80°50'48.488"W	2198.98	1.44
9211.00	89.030	159.050	6616.04	1814.03	-2147.83	-739.25	1683791.13	14269887.17	39°17'46.990"N	80°50'48.067"W	2271.49	1.16
9305.00	89.000	158.470	6617.66	1907.87	-2235.43	-705.20	1683825.17	14269799.60	39°17'46.124"N	80°50'47.636"W	2344.03	0.62
9400.00	88.970	158.850	6619.34	2002.69	-2323.91	-670.54	1683859.72	14269711.16	39°17'45.249"N	80°50'47.198"W	2418.74	0.40
9494.00	88.600	162.230	6621.34	2096.63	-2412.50	-639.33	1683891.01	14269622.60	39°17'44.372"N	80°50'46.802"W	2495.78	3.62
9589.00	89.240	162.680	6623.13	2191.61	-2503.07	-610.70	1683919.63	14269532.07	39°17'43.477"N	80°50'46.440"W	2576.49	0.82
9684.00	89.000	159.720	6624.58	2286.68	-2592.98	-580.09	1683950.23	14269442.20	39°17'42.588"N	80°50'46.052"W	2657.08	3.13
9779.00	89.270	161.120	6626.02	2381.53	-2682.47	-548.26	1683982.05	14269352.74	39°17'41.703"N	80°50'45.650"W	2737.93	1.50
9873.00	89.340	162.880	6627.16	2475.52	-2771.86	-519.22	1684011.08	14269263.39	39°17'40.819"N	80°50'45.282"W	2820.07	1.87
9968.00	89.710	160.820	6627.95	2570.51	-2862.13	-489.63	1684040.66	14269173.16	39°17'39.926"N	80°50'44.908"W	2903.71	2.20
10063.00	89.270	162.000	6628.79	2665.50	-2952.17	-459.34	1684070.93	14269083.15	39°17'39.035"N	80°50'44.524"W	2987.69	1.33
10158.00	89.060	162.870	6630.18	2760.48	-3042.75	-430.75	1684099.51	14268992.61	39°17'38.140"N	80°50'44.163"W	3073.09	1.04
10253.00	89.370	164.130	6631.48	2855.44	-3133.85	-403.86	1684128.40	14268901.54	39°17'37.239"N	80°50'43.823"W	3159.77	1.26
10347.00	89.400	161.880	6632.49	2949.41	-3223.74	-376.38	1684153.86	14268811.69	39°17'36.350"N	80°50'43.475"W	3245.63	2.39
10442.00	89.180	158.100	6633.67	3044.33	-3312.98	-343.88	1684186.34	14268722.49	39°17'35.467"N	80°50'43.064"W	3330.78	3.99
10538.00	89.120	157.840	6635.09	3140.08	-3401.96	-307.88	1684222.33	14268633.54	39°17'34.587"N	80°50'42.608"W	3415.86	0.28
10633.00	89.090	159.820	6636.57	3234.92	-3490.66	-273.66	1684256.54	14268544.97	39°17'33.711"N	80°50'42.174"W	3501.27	2.19

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Actual Wellpath Report

Ridge Unit 2H AWP Proj: 15274'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION
Area	Doddrige Co., WV
Field	Doddrige
Facility	Balli Pad
Slot	Slot #02
Well	Ridge Unit 2H
Wellbore	Ridge Unit 2H AWB

WELLPATH DATA (350 stations)

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Comments
10728.00	89.370	162.660	6637.85	3329.90	-3580.52	-243.19	1684287.00	14268455.05	39°17'32.82"N	80°50'41.78"W	3588.77	183.886	2.90	
10823.00	89.550	161.860	6638.75	3424.89	-3671.00	-214.24	1684315.93	14268364.61	39°17'31.92"N	80°50'41.42"W	3677.25	183.340	0.86	
10917.00	88.540	160.920	6640.31	3518.87	-3760.07	-184.25	1684345.91	14268275.57	39°17'31.04"W	80°50'41.04"W	3764.58	182.805	1.47	
11012.00	89.210	160.560	6642.18	3613.83	-3849.74	-152.92	1684377.23	14268185.94	39°17'30.15"W	80°50'40.64"W	3852.77	182.275	0.80	
11107.00	88.970	161.440	6643.69	3708.80	-3939.55	-121.99	1684408.14	14268096.16	39°17'29.27"N	80°50'40.25"W	3941.44	181.774	0.96	
11202.00	88.870	166.710	6645.48	3803.69	-4030.86	-95.94	1684434.19	14268004.90	39°17'28.36"W	80°50'39.92"W	4032.00	181.363	5.55	
11296.00	89.120	167.080	6647.13	3897.33	-4122.39	-74.63	1684455.49	14267913.39	39°17'27.46"W	80°50'39.65"W	4123.07	181.037	0.47	
11391.00	89.640	163.820	6648.16	3992.14	-4214.33	-50.77	1684479.34	14267821.50	39°17'26.55"W	80°50'39.35"W	4214.63	180.690	3.47	
11486.00	88.970	163.930	6649.31	4087.08	-4305.58	-24.39	1684505.71	14267730.28	39°17'25.65"N	80°50'39.02"W	4305.65	180.325	0.71	
11580.00	89.180	164.660	6650.83	4180.99	-4396.06	1.05	1684531.14	14267639.64	39°17'24.75"N	80°50'38.70"W	4396.06	179.986	0.81	
11675.00	89.210	162.960	6652.16	4275.93	-4487.28	27.54	1684557.62	14267548.65	39°17'23.85"W	80°50'38.35"W	4487.37	179.648	1.79	
11769.00	88.930	166.530	6653.69	4369.79	-4577.94	52.26	1684582.33	14267458.03	39°17'22.95"W	80°50'38.05"W	4578.24	179.346	3.81	
11864.00	89.520	169.020	6654.97	4464.29	-4670.77	72.38	1684602.44	14267365.23	39°17'22.04"W	80°50'37.79"W	4671.33	179.112	2.69	
11959.00	89.270	162.480	6655.98	4559.03	-4762.79	95.75	1684625.80	14267273.25	39°17'21.13"W	80°50'37.50"W	4763.76	178.848	6.89	
12054.00	89.060	165.770	6657.36	4653.95	-4852.10	128.03	1684658.07	14267183.98	39°17'20.24"N	80°50'37.09"W	4853.79	178.489	4.96	
12149.00	89.030	155.190	6658.94	4748.49	-4939.19	165.93	1684695.96	14267096.93	39°17'19.38"W	80°50'36.61"W	4941.98	178.076	2.72	
12243.00	89.030	157.160	6660.54	4841.98	-5025.16	203.90	1684733.91	14267010.99	39°17'18.53"W	80°50'36.13"W	5029.30	177.676	2.10	
12338.00	88.870	156.540	6662.28	4936.59	-5112.50	241.24	1684771.23	14266923.69	39°17'17.67"N	80°50'35.66"W	5118.19	177.298	0.67	
12433.00	89.000	158.020	6664.04	5031.25	-5200.11	277.92	1684807.90	14266836.11	39°17'16.80"W	80°50'35.19"W	5207.53	176.941	1.56	
12528.00	88.750	162.370	6665.91	5126.16	-5289.45	310.10	1684840.06	14266746.80	39°17'15.92"N	80°50'34.78"W	5298.53	176.645	4.58	
12622.00	89.120	164.820	6667.66	5220.10	-5379.60	336.64	1684866.59	14266656.69	39°17'15.03"N	80°50'34.45"W	5390.12	176.419	2.64	
12716.00	89.430	164.230	6668.85	5314.00	-5470.19	361.72	1684891.66	14266566.14	39°17'14.13"W	80°50'33.80"W	5482.13	176.217	0.71	
12811.00	89.060	163.220	6670.10	5408.94	-5561.37	388.34	1684918.27	14266474.99	39°17'13.23"N	80°50'33.80"W	5574.91	176.006	1.13	
12906.00	88.930	164.640	6671.76	5503.87	-5652.64	414.63	1684944.55	14266383.76	39°17'12.33"N	80°50'33.48"W	5667.83	175.805	1.50	
13000.00	88.630	165.330	6673.77	5597.72	-5743.41	438.98	1684968.89	14266293.03	39°17'11.43"N	80°50'33.160"W	5760.16	175.629	0.80	
13095.00	89.060	169.220	6675.68	5692.27	-5836.06	459.81	1684989.72	14266200.42	39°17'10.516"N	80°50'32.89"W	5854.14	175.495	4.22	
13189.00	89.090	168.200	6677.20	5785.60	-5928.24	478.13	1685008.03	14266108.27	39°17'09.605"N	80°50'32.666"W	5947.49	175.389	1.19	
13285.00	89.090	163.730	6678.72	5881.34	-6021.34	501.41	1685031.30	14266015.21	39°17'08.684"N	80°50'32.372"W	6042.18	175.240	4.66	
13379.00	89.150	160.880	6680.17	5975.31	-6110.87	529.97	1685059.85	14265925.71	39°17'07.799"N	80°50'32.011"W	6133.81	175.043	3.03	
13474.00	89.000	158.040	6681.70	6070.20	-6199.81	563.29	1685093.16	14265836.81	39°17'06.919"N	80°50'31.589"W	6225.35	174.809	2.99	

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Ridge Unit 2H AWP Proj: 15274'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Doddridge Co., WV	Well	Ridge Unit 2H
Field	Doddridge	Wellbore	Ridge Unit 2H AWB
Facility	Balli Pad		

TARGETS								
Name	TVD (ft)	North (ft)	East (ft)	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Ridge Unit 2H POE Rev-3	6587.00	-181.73	-1379.08	1683151.56	14271852.48	39°18'06.433"N	80°50'56.164"W	point
Ridge Unit 2H BHL Rev-1	6608.00	-7804.46	1099.18	1685628.83	14264232.80	39°16'51.050"N	80°50'24.810"W	point
Ridge Unit 2H LP Rev-1	6608.00	-320.97	-1333.81	1683196.81	14271713.30	39°18'05.056"N	80°50'55.591"W	point

WELLPATH COMPOSITION - Ref Wellbore: Ridge Unit 2H AWB Ref Wellpath: Ridge Unit 2H AWP Proj: 15274'				
Start MD (ft)	End MD (ft)	Positional Uncertainty Model	Log Name/Comment	Wellbore
32.00	5775.00	SDI Keeper v1.04	03 SDI Std. Keeper Gyro (100'-5775')	Ridge Unit 2H AWB
5775.00	15251.00	BHI AutoTrak Curve w/ Surcon (MagCAD, Short spacing)	04 BHI AT Curve [SS+MSA] <8-1/2">(5775')(5931'-15251')	Ridge Unit 2H AWB
15251.00	15274.00	Blind Drilling (std)	Projection to bit	Ridge Unit 2H AWB

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Actual Wellpath Report

Ridge Unit 2H AWP Proj: 15274'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Doddridge Co., WV	Well	Ridge Unit 2H
Field	Doddridge	Wellbore	Ridge Unit 2H AWB
Facility	Balli Pad		

WELLPATH COMMENTS					
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment	
100.00	0.100	113.680	100.00	SDI Std. Keeper Gyro (100'-5775')	
5931.00	26.140	296.550	5690.09	BHI AT Curve [SS+MSA] <8-1/2">(5775')(5931'-15251')	
6779.00	48.895	195.864	6404.07	Middlesex: 6779' MD	
6997.00	62.804	171.005	6527.18	Burkett: 6997' MD	
7061.00	68.056	165.298	6553.85	Tully: 7061' MD	
7174.00	75.895	161.191	6587.65	Marcellus: 7174' MD	
15274.00	89.210	158.180	6703.81	Projected MD at TD: 15274'	

COMMENTS
<p>Wellpath general comments API: 47-017-06717-0000 BHI Job #: 7940931 Rig: Frontier 32 Duration: 05.07.2016-05.09.2016 SDI Std. Keeper Gyro (100'-5775') BHI AT Curve [SS+MSA] <8-1/2">(5775')(5931'-15251') Middlesex: 6779' MD Burkett: 6997' MD Tully: 7061' MD Marcellus: 7174' MD Projected MD at TD: 15274'</p>

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