

MAY 5 2014

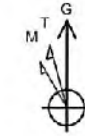


**Antero**  
**Wentz Unit 2H**  
**Doddridge County WV**  
**Northing: 14272993.14**  
**Easting: 1692783.84**  
**As Drilled**

WELL DETAILS: Wentz Unit 2H							
+N/-S 0.0	+E/-W 0.0	Northing 14272993.14	Easting 1692783.84	Ground Level 1171.0	Latitude 39° 18' 17.534 N	Longitude 80° 48' 53.556 W	Slot
PROJECT DETAILS: Doddridge County WV							
Geodetic System: Universal Transverse Mercator (US Survey Feet)							
Datum: NAD 1983 (NADCON CONUS)							
Ellipsoid: Clarke 1858							
Zone: Zone 17N (84 W to 78 W)							
System Datum: Mean Sea Level							
REFERENCE INFORMATION							
Co-ordinate (N/E) Reference: Well Wentz Unit 2H, Grid North							
Vertical (TV) Reference: Reference 117.02, 1171.02, 868 @ 1154 Offset							
Section (VS) Reference: SRT - (3004, 0.02)							
Measured Depth Reference: Reference 217.02, 1171.02 TR3 @ 1154 Offset							
Calculation Method: Minimum Curvature							
LEGEND							
Wentz Unit 2H, Original Wellpath, Plan 9 V0 As Drilled							
DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL Wentz Unit 2H	0.0	0.0	0.0	14272993.14	1692783.84	39° 18' 17.534 N	80° 48' 53.556 W
BHL Wentz Unit 2H	6832.3	-9352.0	4694.2	14263641.17	1697478.06	39° 16' 44.966 N	80° 47' 54.081 W

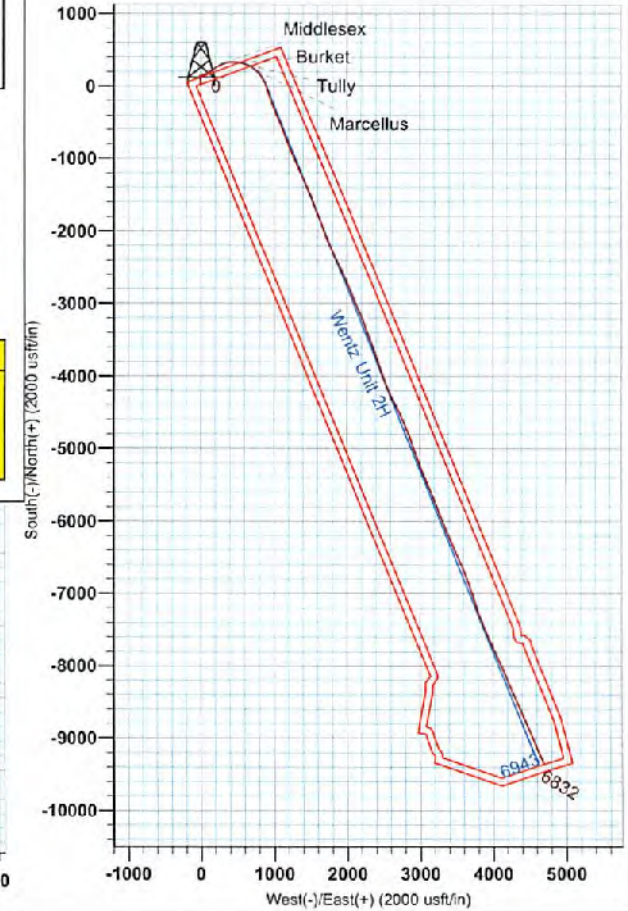
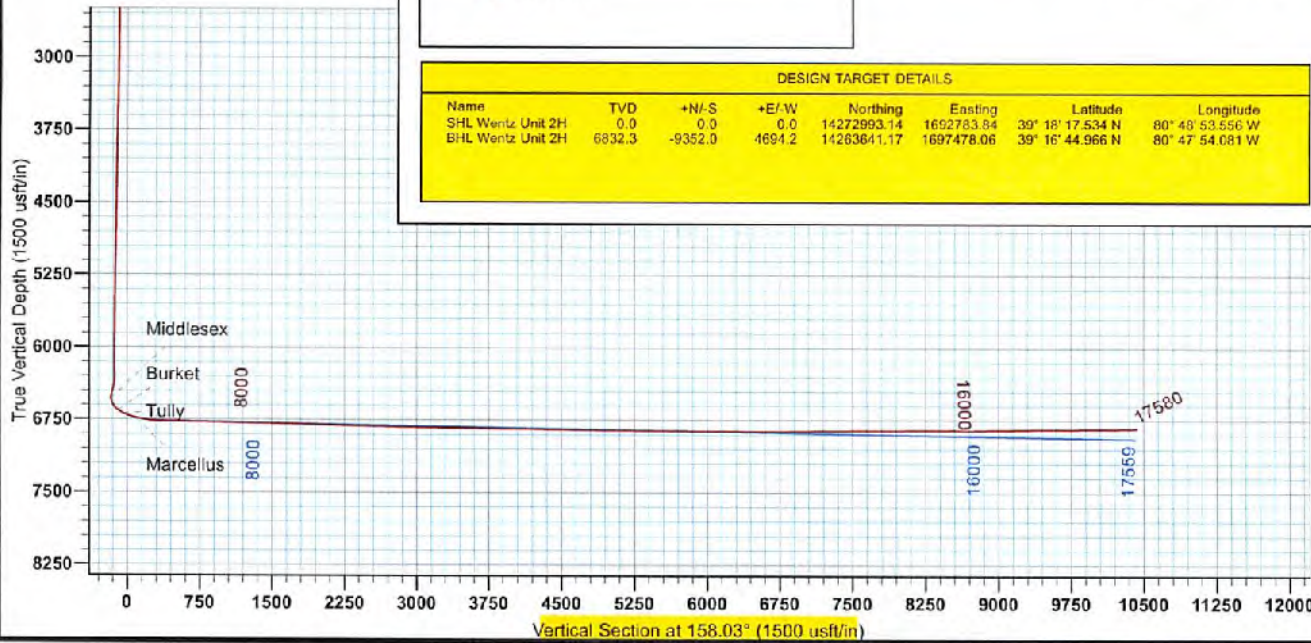


Genie Lightfoot  
10:53, January 08 2015  
Scientific Drilling  
11220 N.W. 10th Street  
Yukon, OK 73099



To convert Magnetic North to Grid, Subtract 8.58°  
To convert True North to Grid, Subtract 0.12°

Azimuths to Grid North  
True North: +0.12°  
Magnetic North: -8.58°  
Magnetic Field  
Strength: 52228.0amT  
Dip Angle: 66.86°  
Date: 10/10/2014  
Model: BGGM2014



Operator logo**Actual Wellpath Report**

Wentz Unit 2H AWP Proj: 17580.03'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #03
Area	Doddridge Co., WV	Well	Wentz Unit 2H
Field	Doddridge	Wellbore	Wentz Unit 2H AWB
Facility	Rock Run Pad		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 5.0
North Reference	Grid	User	Lhare
Scale	0.999603	Report Generated	5/1/2017 at 2:27:02 PM
Convergence at slot	0.12° East	Database/Source file	Well Architect DB/Wentz_Unit_2H_AWP_Proj_17580.03_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	1692783.84	14272993.14	39°18'17.534"N	80°48'53.556"W
Facility Reference Pt			1692783.84	14272993.14	39°18'17.534"N	80°48'53.556"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.301"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Patterson 317 (RKB) to Facility Vertical Datum	23.00ft
Horizontal Reference Pt	Slot	Patterson 317 (RKB) to Mean Sea Level	1194.00ft
Vertical Reference Pt	Patterson 317 (RKB)	Patterson 317 (RKB) to Mud Line at Slot (Slot #03)	23.00ft
MD Reference Pt	Patterson 317 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	158.03°

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# Actual Wellpath Report

Wentz Unit 2H AWP Proj: 17580.03'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Slot	Slot #03
Area	Doddridge Co., WV		Well	Wentz Unit 2H
Field	Doddridge		Wellbore	Wentz Unit 2H AWB
Facility	Rock Run Pad			

WELLPATH DATA (219 stations) † = interpolated/extrapolated station																
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS ["/100ft]	Build Rate ["/100ft]	Turn Rate ["/100ft]	Comments
0.00	0.00	335.490	0.00	0.00	0.00	0.00	1692783.84	14272993.14	39°18'17.534"N	80°48'53.556"W	0.00	0.000	0.00	0.00	0.00	
23.00	0.000	335.490	23.00	0.00	0.00	0.00	1692783.84	14272993.14	39°18'17.534"N	80°48'53.556"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.850	335.490	100.00	-0.57	0.52	-0.24	1692783.60	14272993.66	39°18'17.539"N	80°48'53.559"W	0.57	335.490	1.10	1.10	-31.83	
200.00	0.890	343.940	199.99	-2.08	1.94	-0.76	1692783.08	14272995.08	39°18'17.554"N	80°48'53.566"W	2.08	338.629	0.13	0.04	8.45	
300.00	0.790	343.410	299.97	-3.54	3.35	-1.17	1692782.67	14272996.49	39°18'17.567"N	80°48'53.571"W	3.55	340.719	0.10	-0.10	-0.53	
400.00	0.870	338.640	399.96	-4.99	4.72	-1.64	1692782.20	14272997.85	39°18'17.581"N	80°48'53.577"W	4.99	340.774	0.11	0.08	-4.77	
500.00	1.320	344.930	499.95	-6.89	6.53	-2.22	1692781.62	14272999.67	39°18'17.599"N	80°48'53.584"W	6.90	341.232	0.47	0.45	6.28	
600.00	3.730	350.280	599.84	-11.21	10.85	-3.07	1692780.77	14273003.99	39°18'17.642"N	80°48'53.595"W	11.28	344.210	2.42	2.41	5.35	
700.00	5.950	348.060	699.48	-19.50	19.13	-4.69	1692779.15	14273012.26	39°18'17.724"N	80°48'53.615"W	19.70	346.223	2.23	2.22	-2.22	
800.00	6.240	349.550	798.91	-29.93	29.55	-6.75	1692777.09	14273022.68	39°18'17.827"N	80°48'53.641"W	30.31	347.134	0.33	0.28	1.49	
900.00	6.390	349.160	898.31	-40.71	40.36	-8.78	1692775.06	14273033.48	39°18'17.933"N	80°48'53.667"W	41.30	347.724	0.16	0.15	-0.39	
1000.00	3.780	354.320	997.91	-49.34	49.10	-10.15	1692773.69	14273042.22	39°18'18.020"N	80°48'53.684"W	50.14	348.316	2.65	-2.61	5.16	
1100.00	3.160	357.970	1097.72	-55.09	55.14	-10.58	1692773.27	14273048.26	39°18'18.080"N	80°48'53.689"W	56.14	349.140	0.66	-0.62	3.65	
1200.00	2.750	359.160	1197.59	-59.92	60.29	-10.71	1692773.13	14273053.41	39°18'18.130"N	80°48'53.691"W	61.24	349.926	0.41	-0.41	1.18	
1300.00	2.710	359.090	1297.47	-64.37	65.05	-10.78	1692773.06	14273058.17	39°18'18.178"N	80°48'53.692"W	65.94	350.587	0.04	-0.04	-0.06	
1400.00	2.490	358.960	1397.37	-68.60	69.59	-10.86	1692772.98	14273062.70	39°18'18.222"N	80°48'53.693"W	70.43	351.129	0.22	-0.22	-0.13	
1500.00	2.080	359.540	1497.29	-72.32	73.58	-10.92	1692772.93	14273066.69	39°18'18.262"N	80°48'53.693"W	74.38	351.561	0.41	-0.41	0.58	
1600.00	1.970	2.970	1597.23	-75.56	77.11	-10.84	1692773.00	14273070.22	39°18'18.297"N	80°48'53.692"W	77.87	351.997	0.16	-0.11	3.43	
1700.00	1.760	10.010	1697.18	-78.43	80.34	-10.49	1692773.36	14273073.44	39°18'18.329"N	80°48'53.688"W	81.02	352.564	0.31	-0.21	7.04	
1800.00	1.380	1.620	1797.14	-80.83	83.05	-10.18	1692773.65	14273076.16	39°18'18.355"N	80°48'53.684"W	83.67	353.009	0.44	-0.38	-8.39	
1900.00	1.350	359.600	1897.11	-83.03	85.43	-10.16	1692773.69	14273078.54	39°18'18.379"N	80°48'53.683"W	86.04	353.219	0.06	-0.03	-2.02	
2000.00	1.300	354.920	1997.08	-85.21	87.74	-10.27	1692773.58	14273080.85	39°18'18.402"N	80°48'53.685"W	88.34	353.326	0.12	-0.05	-4.68	
2100.00	1.190	353.480	2097.06	-87.30	89.90	-10.49	1692773.36	14273083.01	39°18'18.423"N	80°48'53.687"W	90.51	353.348	0.11	-0.11	-1.44	
2200.00	1.050	349.710	2197.04	-89.20	91.84	-10.77	1692773.08	14273084.94	39°18'18.442"N	80°48'53.691"W	92.47	353.313	0.16	-0.14	-3.77	
2300.00	0.970	356.540	2297.03	-90.90	93.58	-11.00	1692772.85	14273086.69	39°18'18.460"N	80°48'53.694"W	94.23	353.298	0.13	-0.08	5.83	
2400.00	0.890	347.840	2397.01	-92.47	95.19	-11.23	1692772.62	14273088.29	39°18'18.475"N	80°48'53.697"W	95.85	353.274	0.15	-0.08	-7.70	
2500.01	0.890	352.220	2497.01	-93.99	95.71	-11.49	1692772.35	14273089.82	39°18'18.490"N	80°48'53.700"W	97.40	353.222	0.07	0.00	4.38	
2600.01	0.780	352.610	2597.00	-95.39	98.14	-11.68	1692772.16	14273091.24	39°18'18.505"N	80°48'53.702"W	98.83	353.210	0.13	-0.13	0.39	
2700.01	0.720	356.680	2696.99	-96.62	99.43	-11.81	1692772.04	14273092.53	39°18'18.517"N	80°48'53.704"W	100.13	353.228	0.07	-0.04	4.07	
2800.01	0.790	329.410	2796.98	-97.90	100.65	-12.19	1692771.65	14273093.75	39°18'18.529"N	80°48'53.709"W	101.38	353.092	0.36	0.07	-27.27	

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# Actual Wellpath Report

Wentz Unit 2H AWP Proj: 17580.03'

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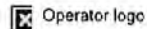
REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #03
Area	Doddridge Co., WV	Well	Wentz Unit 2H
Field	Doddridge	Wellbore	Wentz Unit 2H AWB
Facility	Rock Run Pad		

WELLPATH DATA (219 stations)																
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
2900.01	0.650	321.480	2896.98	-99.13	101.68	-12.90	1692770.95	14273094.78	39°18'18.540"N	80°48'53.718"W	102.50	352.771	0.17	-0.14	-7.93	
3000.01	0.680	321.840	2996.97	-100.24	102.59	-13.62	1692770.23	14273095.69	39°18'18.549"N	80°48'53.727"W	103.49	352.439	0.03	0.03	0.36	
3100.01	0.760	325.430	3096.96	-101.46	103.61	-14.36	1692769.48	14273096.71	39°18'18.559"N	80°48'53.736"W	104.60	352.109	0.09	0.08	3.59	
3200.01	0.760	320.030	3196.95	-102.73	104.66	-15.16	1692768.68	14273097.76	39°18'18.569"N	80°48'53.746"W	105.75	351.756	0.07	0.00	-5.40	
3300.01	0.690	326.900	3296.94	-103.93	105.65	-15.90	1692767.94	14273098.75	39°18'18.579"N	80°48'53.756"W	106.84	351.440	0.13	-0.10	6.87	
3400.01	0.740	327.390	3396.94	-105.13	106.68	-16.57	1692767.28	14273099.78	39°18'18.589"N	80°48'53.764"W	107.96	351.173	0.08	0.08	0.49	
3500.01	0.580	336.070	3496.93	-106.27	107.69	-17.12	1692766.73	14273100.78	39°18'18.599"N	80°48'53.771"W	109.04	350.967	0.19	-0.16	8.68	
3600.01	0.750	330.920	3596.92	-107.43	108.72	-17.64	1692766.20	14273101.82	39°18'18.609"N	80°48'53.778"W	110.14	350.782	0.18	0.17	-5.15	
3700.01	0.700	332.940	3696.92	-108.68	109.84	-18.24	1692765.61	14273102.93	39°18'18.620"N	80°48'53.785"W	111.34	350.572	0.06	-0.06	2.02	
3800.01	0.690	330.730	3796.91	-109.89	110.91	-18.81	1692765.04	14273104.00	39°18'18.631"N	80°48'53.793"W	112.48	350.373	0.03	-0.01	-2.21	
3900.01	0.770	330.000	3896.90	-111.15	112.01	-19.44	1692764.41	14273105.11	39°18'18.642"N	80°48'53.801"W	113.69	350.154	0.08	0.08	-0.73	
4000.01	0.800	325.140	3996.89	-112.50	113.17	-20.18	1692763.67	14273106.26	39°18'18.653"N	80°48'53.810"W	114.95	349.891	0.07	0.03	-4.86	
4100.01	0.740	335.050	4096.88	-113.82	114.33	-20.85	1692763.00	14273107.42	39°18'18.665"N	80°48'53.818"W	116.21	349.665	0.15	-0.06	9.91	
4200.01	0.860	341.060	4196.87	-115.22	115.62	-21.36	1692762.48	14273108.71	39°18'18.678"N	80°48'53.825"W	117.58	349.531	0.15	0.12	6.01	
4300.01	0.850	346.970	4296.86	-116.70	117.05	-21.77	1692762.07	14273110.15	39°18'18.692"N	80°48'53.830"W	119.06	349.462	0.09	-0.01	5.91	
4400.01	0.910	354.720	4396.85	-118.19	118.57	-22.02	1692761.83	14273111.66	39°18'18.707"N	80°48'53.833"W	120.59	349.481	0.13	0.06	7.75	
4500.01	0.820	348.910	4496.84	-119.66	120.06	-22.23	1692761.62	14273113.15	39°18'18.721"N	80°48'53.836"W	122.10	349.512	0.13	-0.09	-5.81	
4600.01	0.890	3.510	4596.83	-121.06	121.54	-22.32	1692761.53	14273114.63	39°18'18.736"N	80°48'53.837"W	123.57	349.596	0.23	0.07	14.60	
4700.01	0.860	2.670	4696.82	-122.44	123.06	-22.23	1692761.62	14273116.15	39°18'18.751"N	80°48'53.836"W	125.05	349.759	0.03	-0.03	-0.84	
4800.01	0.800	5.520	4796.80	-123.74	124.51	-22.13	1692761.72	14273117.60	39°18'18.765"N	80°48'53.835"W	126.46	349.921	0.07	-0.06	2.85	
4900.01	0.910	10.860	4896.79	-125.03	125.98	-21.91	1692761.93	14273119.07	39°18'18.780"N	80°48'53.832"W	127.87	350.132	0.14	0.11	5.34	
5000.01	1.120	22.770	4996.78	-126.39	127.66	-21.39	1692762.46	14273120.75	39°18'18.797"N	80°48'53.825"W	129.44	350.490	0.30	0.21	11.91	
5100.01	0.910	16.710	5096.76	-127.71	129.32	-20.78	1692763.07	14273122.41	39°18'18.813"N	80°48'53.817"W	130.98	350.872	0.24	-0.21	-6.06	
5200.01	0.940	21.310	5196.75	-128.92	130.85	-20.25	1692763.59	14273123.94	39°18'18.828"N	80°48'53.811"W	132.41	351.201	0.08	0.03	4.60	
5300.01	0.810	17.360	5296.74	-130.07	132.29	-19.74	1692764.10	14273125.37	39°18'18.842"N	80°48'53.804"W	133.75	351.511	0.14	-0.13	-3.96	
5400.01	0.850	11.570	5396.73	-131.23	133.69	-19.39	1692764.46	14273126.78	39°18'18.856"N	80°48'53.799"W	135.09	351.749	0.09	0.04	-5.78	
5500.01	0.750	6.440	5496.72	-132.43	135.07	-19.16	1692764.68	14273128.15	39°18'18.870"N	80°48'53.797"W	136.42	351.925	0.12	-0.10	-5.13	
5600.01	0.920	15.510	5596.71	-133.64	136.49	-18.87	1692764.97	14273129.58	39°18'18.884"N	80°48'53.793"W	137.79	352.127	0.21	0.17	9.07	
5700.01	0.700	34.570	5696.70	-134.61	137.77	-18.31	1692765.53	14273130.85	39°18'18.896"N	80°48'53.786"W	138.98	352.428	0.34	-0.22	19.06	
5800.01	0.700	43.280	5796.69	-135.21	138.71	-17.55	1692766.30	14273131.80	39°18'18.906"N	80°48'53.776"W	139.82	352.790	0.11	0.00	8.71	

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# Actual Wellpath Report

Wentz Unit 2H AWP Proj: 17580.03'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #03
Area	Doddridge Co., WV	Well	Wentz Unit 2H
Field	Doddridge	Wellbore	Wentz Unit 2H AWB
Facility	Rock Run Pad		

WELLPATH DATA (219 stations) † = interpolated/extrapolated station																
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[ft]	[°]	["/100ft]	["/100ft]	["/100ft]	
5900.01	0.710	56.840	5895.58	-135.53	139.50	-16.61	1692767.24	14273132.58	39°18'18.913"N	80°48'53.764"W	140.48	353.209	0.17	0.01	13.56	
5986.55	0.530	44.700	5983.22	-135.84	140.08	-15.88	1692767.97	14273133.16	39°18'18.919"N	80°48'53.755"W	140.97	353.532	0.26	-0.21	-14.03	
6042.01	1.100	62.170	6038.67	-136.00	140.51	-15.23	1692768.62	14273133.59	39°18'18.923"N	80°48'53.746"W	141.33	353.814	1.11	1.03	31.50	
6074.01	5.890	64.980	6070.60	-136.12	141.34	-13.47	1692770.38	14273134.43	39°18'18.932"N	80°48'53.724"W	141.98	354.557	14.97	14.97	8.78	
6106.01	10.290	63.220	6102.28	-136.45	143.33	-9.43	1692774.42	14273136.41	39°18'18.951"N	80°48'53.672"W	143.64	356.237	13.77	13.75	-5.50	
6137.01	14.330	66.040	6132.56	-136.81	146.13	-3.45	1692780.39	14273139.22	39°18'18.979"N	80°48'53.596"W	146.18	358.649	13.17	13.03	9.10	
6169.01	17.410	69.380	6163.33	-136.84	149.43	4.65	1692788.49	14273142.51	39°18'19.011"N	80°48'53.493"W	149.50	1.784	10.04	9.62	10.44	
6200.01	20.660	70.520	6192.64	-136.49	152.89	14.15	1692797.99	14273145.97	39°18'19.045"N	80°48'53.372"W	153.54	5.289	10.55	10.48	3.68	
6232.01	24.010	71.050	6222.23	-135.90	156.89	25.64	1692809.47	14273149.96	39°18'19.084"N	80°48'53.226"W	158.97	9.280	10.49	10.47	1.66	
6264.01	26.440	71.070	6251.18	-135.18	161.31	38.53	1692822.36	14273154.39	39°18'19.128"N	80°48'53.062"W	165.85	13.435	7.59	7.59	0.06	
6295.01	28.370	69.720	6278.70	-134.60	166.10	51.97	1692835.79	14273159.18	39°18'19.175"N	80°48'52.891"W	174.04	17.374	6.54	6.23	-4.35	
6327.01	30.950	66.120	6305.50	-134.65	172.07	66.63	1692850.45	14273165.14	39°18'19.234"N	80°48'52.704"W	184.52	21.168	9.79	8.06	-11.25	
6359.01	34.080	62.670	6333.49	-135.76	179.52	82.13	1692865.93	14273172.59	39°18'19.307"N	80°48'52.507"W	197.41	24.583	11.37	9.76	-10.78	
6390.01	37.900	60.240	6358.57	-137.86	188.24	98.11	1692881.92	14273181.30	39°18'19.393"N	80°48'52.303"W	212.27	27.530	13.15	12.32	-7.84	
6422.01	41.860	58.830	6383.12	-140.90	198.65	115.79	1692899.58	14273191.71	39°18'19.495"N	80°48'52.078"W	229.93	30.237	12.69	12.37	-4.41	
6453.01	45.810	57.420	6405.48	-144.50	209.99	134.01	1692917.80	14273203.05	39°18'19.607"N	80°48'51.846"W	249.11	32.545	13.12	12.74	-4.55	
6485.01	49.800	56.330	6428.97	-149.20	222.95	153.86	1692937.64	14273216.00	39°18'19.735"N	80°48'51.593"W	270.89	34.610	12.72	12.47	-3.41	
6516.01	53.460	56.900	6446.20	-154.00	236.32	174.15	1692957.92	14273229.36	39°18'19.867"N	80°48'51.335"W	293.56	36.388	11.89	11.81	1.64	
6548.01	57.240	57.510	6464.40	-158.94	250.57	196.28	1692980.04	14273243.61	39°18'20.007"N	80°48'51.053"W	318.29	38.072	11.92	11.81	1.91	
6579.01	60.590	58.390	6480.40	-163.59	264.65	218.78	1693002.53	14273257.69	39°18'20.146"N	80°48'50.766"W	343.37	39.579	11.08	10.81	2.64	
6611.01	62.520	59.620	6495.64	-168.00	279.14	242.90	1693026.64	14273272.17	39°18'20.288"N	80°48'50.459"W	370.02	41.029	6.91	6.03	3.84	
6643.01	61.990	62.430	6510.54	-171.45	292.86	267.67	1693051.40	14273285.88	39°18'20.423"N	80°48'50.144"W	396.75	42.427	7.95	-1.66	8.78	
6674.01	60.760	67.620	6525.40	-172.88	304.35	292.32	1693076.04	14273297.37	39°18'20.536"N	80°48'49.830"W	421.99	43.845	15.22	-3.97	16.74	
6688.01†	60.195	69.949	6532.30	-172.72	308.78	303.67	1693087.39	14273301.77	39°18'20.580"N	80°48'49.685"W	433.07	44.524	15.03	-4.03	16.63	Middlesex: 6688.01' MD
6706.01	59.530	72.980	6541.34	-171.79	313.71	318.43	1693102.14	14273306.72	39°18'20.628"N	80°48'49.497"W	447.00	45.428	15.03	-3.70	16.84	
6738.01	59.200	77.250	6557.65	-168.40	320.78	345.03	1693128.73	14273313.79	39°18'20.698"N	80°48'49.159"W	471.11	47.086	11.53	-1.03	13.34	
6769.01	59.000	80.600	6573.57	-163.37	325.89	371.13	1693154.82	14273318.90	39°18'20.748"N	80°48'48.827"W	493.90	48.714	9.29	-0.65	10.81	
6801.01	58.920	84.950	6590.08	-156.42	329.36	398.32	1693182.00	14273322.37	39°18'20.782"N	80°48'48.481"W	516.85	50.413	11.38	-0.25	13.28	
6833.01	60.470	89.070	6605.23	-147.46	330.82	425.89	1693209.57	14273323.82	39°18'20.795"N	80°48'48.130"W	539.28	52.162	12.37	4.84	13.19	
6864.01	62.500	92.190	6621.03	-136.98	330.51	453.13	1693236.79	14273323.52	39°18'20.792"N	80°48'47.783"W	560.65	53.893	11.00	6.55	10.06	

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# Actual Wellpath Report

Wentz Unit 2H AWP Proj: 17580.03'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #03
Area	Doddridge Co., WV	Well	Wentz Unit 2H
Field	Doddridge	Wellbore	Wentz Unit 2H AWB
Facility	Rock Run Pad		

**WELLPATH DATA (219 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
6696.01	64.370	94.510	6635.34	-124.74	328.83	481.69	1693265.34	14273321.84	39°18'20.775"N	80°48'47.420"W	583.23	55.680	8.73	5.84	7.25	
6928.01	66.090	97.190	6648.75	-111.18	325.87	610.59	1693294.23	14273318.88	39°18'20.745"N	80°48'47.052"W	605.72	57.454	9.31	5.37	8.37	
6956.01†	67.885	99.659	6659.70	-98.14	322.09	536.08	1693319.71	14273315.10	39°18'20.707"N	80°48'46.728"W	625.40	59.002	10.34	6.41	8.82	Burket: 6956.01' MD
6959.01	68.080	99.920	6660.82	-96.67	321.61	538.82	1693322.45	14273314.83	39°18'20.702"N	80°48'46.693"W	627.51	59.168	10.34	6.49	8.69	
6991.01	70.430	103.830	6672.16	-80.00	315.45	568.10	1693351.71	14273308.46	39°18'20.641"N	80°48'46.321"W	649.80	60.958	13.58	7.34	12.22	
7022.01	71.300	107.880	6682.33	-62.05	307.45	596.26	1693379.87	14273300.47	39°18'20.561"N	80°48'45.963"W	670.85	62.723	12.66	2.81	13.06	
7054.01†	72.282	111.767	6692.33	-41.79	297.14	624.85	1693408.44	14273290.16	39°18'20.458"N	80°48'45.800"W	691.90	64.567	11.94	3.07	12.15	Tully: 7054.01' MD
7096.01	73.340	115.610	6701.79	-19.93	284.86	652.84	1693435.42	14273277.88	39°18'20.336"N	80°48'45.244"W	712.28	66.427	11.94	3.31	12.01	
7117.01	74.130	119.650	6710.48	2.73	271.06	679.20	1693462.77	14273264.09	39°18'20.200"N	80°48'44.909"W	731.29	68.244	12.77	2.55	13.03	
7149.01	75.120	123.330	6718.96	27.51	254.94	705.50	1693489.06	14273247.98	39°18'20.040"N	80°48'44.575"W	750.15	70.132	11.51	3.09	11.50	
7180.01	77.120	127.300	6726.40	52.83	237.55	730.06	1693513.60	14273230.59	39°18'19.887"N	80°48'44.263"W	767.72	71.976	14.01	6.45	12.81	
7212.01	78.700	131.430	6733.11	80.28	217.70	754.23	1693537.77	14273210.76	39°18'19.671"N	80°48'43.958"W	785.02	73.900	13.55	4.94	12.91	
7221.01†	78.694	132.678	6734.87	88.21	211.79	760.78	1693544.32	14273204.85	39°18'19.612"N	80°48'43.873"W	789.71	74.444	13.60	-0.07	13.87	Marcellus: 7221.01' MD
7243.01	78.700	135.730	6739.18	107.95	196.75	776.25	1693559.78	14273189.81	39°18'19.463"N	80°48'43.676"W	800.79	75.777	13.60	0.03	13.87	
7275.01	79.140	140.130	6745.34	137.43	173.45	797.28	1693580.80	14273165.52	39°18'19.232"N	80°48'43.409"W	815.93	77.727	13.56	1.38	13.75	
7307.01	78.790	143.640	6751.46	167.59	148.74	816.67	1693600.18	14273141.82	39°18'18.988"N	80°48'43.163"W	830.10	79.878	10.82	-1.09	10.97	
7338.01	79.930	147.690	6757.19	197.35	123.59	833.84	1693617.35	14273116.68	39°18'18.739"N	80°48'42.945"W	842.95	81.569	13.36	3.68	13.06	
7370.01	81.160	150.680	6762.45	228.53	96.48	850.01	1693633.51	14273089.58	39°18'18.471"N	80°48'42.741"W	855.47	83.524	9.99	3.84	9.34	
7433.01	87.490	156.480	6768.68	290.98	40.38	877.86	1693661.35	14273033.51	39°18'17.916"N	80°48'42.388"W	878.79	87.366	13.59	10.05	9.21	
7476.33†	88.995	160.660	6770.01	334.26	0.09	893.68	1693677.16	14272993.23	39°18'17.517"N	80°48'42.188"W	893.68	89.995	10.25	3.47	9.65	Landing Pt. Wentz Unit 2H: 7476.33' MD
7504.02	89.960	163.330	6770.26	361.88	-26.24	902.24	1693685.72	14272968.91	39°18'17.257"N	80°48'42.079"W	902.62	91.666	10.25	3.49	9.64	
7535.02	90.840	164.300	6770.04	392.73	-56.01	910.88	1693694.35	14272937.15	39°18'16.962"N	80°48'41.970"W	912.60	93.519	4.22	2.84	3.13	
7630.02	88.550	159.900	6770.55	487.45	-146.39	840.07	1693723.53	14272846.81	39°18'16.068"N	80°48'41.601"W	951.40	98.851	5.22	-2.41	-4.83	
7725.02	89.250	160.610	6772.37	582.36	-235.78	972.15	1693755.81	14272757.45	39°18'15.184"N	80°48'41.196"W	1000.34	103.633	1.05	0.74	0.75	
7821.02	88.480	157.620	6774.29	678.32	-325.45	1006.37	1693789.80	14272667.82	39°18'14.297"N	80°48'40.763"W	1057.68	107.921	3.22	-0.82	-3.11	
7915.02	89.080	157.440	6776.31	772.29	-412.29	1042.28	1693825.71	14272581.01	39°18'13.438"N	80°48'40.308"W	1120.87	111.582	0.69	0.66	-0.19	
8010.02	88.900	157.270	6777.98	867.27	-499.95	1078.86	1693862.27	14272493.39	39°18'12.571"N	80°48'39.845"W	1189.07	114.864	0.26	-0.19	-0.18	
8105.02	88.810	158.940	6779.88	962.25	-588.08	1114.27	1693897.67	14272405.29	39°18'11.699"N	80°48'39.397"W	1259.94	117.824	1.76	-0.09	1.76	
8200.02	89.080	159.640	6781.63	1057.21	-676.93	1147.86	1693931.25	14272316.48	39°18'10.820"N	80°48'38.972"W	1332.60	120.529	0.79	0.28	0.74	
8294.02	87.670	159.020	6784.30	1151.14	-764.64	1181.03	1693964.40	14272228.61	39°18'09.951"N	80°48'38.552"W	1407.06	122.927	1.64	-1.50	-0.66	

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## Actual Wellpath Report

Wentz Unit 2H AWP Proj: 17580.03'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #03
Area	Doddridge Co., WV	Well	Wentz Unit 2H
Field	Doddridge	Wellbore	Wentz Unit 2H AWB
Facility	Rock Run Pad		

WELLPATH DATA (219 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
8389.02	90.130	159.290	6786.12	1246.10	-853.60	1214.83	1693998.18	14272139.89	39°18'09.073"N	80°48'38.125"W	1484.73	125.094	2.61	2.59	0.28	
8483.02	88.460	156.120	6787.28	1340.08	-940.55	1250.48	1694033.82	14272052.97	39°18'08.213"N	80°48'37.674"W	1564.71	125.949	3.81	-1.78	-3.37	
8578.02	88.990	154.810	6789.39	1434.95	-1026.95	1289.92	1694073.24	14271966.60	39°18'07.358"N	80°48'37.174"W	1648.79	128.525	1.49	0.56	-1.38	
8673.02	88.720	155.950	6791.29	1529.83	-1113.29	1329.48	1694112.79	14271880.29	39°18'06.504"N	80°48'36.673"W	1734.05	129.942	1.23	-0.28	1.20	
8768.02	90.220	157.530	6792.17	1624.80	-1200.56	1367.00	1694150.29	14271793.06	39°18'05.640"N	80°48'36.198"W	1819.35	131.291	2.29	1.58	1.66	
8863.02	87.490	155.330	6794.07	1719.73	-1287.60	1404.97	1694188.25	14271708.05	39°18'04.779"N	80°48'35.718"W	1905.74	132.504	3.69	-2.87	-2.32	
8958.02	88.550	155.770	6797.35	1814.58	-1374.03	1444.27	1694227.53	14271619.66	39°18'03.924"N	80°48'35.220"W	1993.48	133.572	1.21	1.12	0.46	
9052.02	88.990	157.000	6799.37	1908.52	-1460.14	1481.91	1694265.16	14271533.58	39°18'03.072"N	80°48'34.744"W	2080.40	134.576	1.39	0.47	1.31	
9147.02	87.930	156.670	6801.92	2003.48	-1548.08	1517.74	1694300.97	14271445.68	39°18'02.202"N	80°48'34.290"W	2167.97	135.567	2.08	-1.12	1.76	
9242.02	88.020	160.430	6805.28	2098.38	-1637.04	1550.91	1694334.13	14271356.76	39°18'01.323"N	80°48'33.871"W	2255.04	136.548	1.85	0.09	1.85	
9337.02	87.490	159.550	6809.00	2193.25	-1726.23	1583.39	1694366.60	14271267.60	39°18'00.440"N	80°48'33.480"W	2342.43	137.471	1.08	-0.56	-0.93	
9431.02	87.930	158.850	6812.76	2287.16	-1814.03	1616.74	1694399.94	14271179.83	39°17'59.572"N	80°48'33.038"W	2429.93	138.291	0.88	0.47	-0.74	
9526.02	88.990	159.380	6815.31	2382.10	-1902.76	1650.60	1694433.78	14271091.14	39°17'58.694"N	80°48'32.610"W	2518.92	139.059	1.25	1.12	0.56	
9621.02	88.810	161.310	6817.13	2477.00	-1992.20	1682.54	1694465.71	14271001.73	39°17'57.809"N	80°48'32.206"W	2607.65	139.817	2.04	-0.19	2.03	
9716.02	88.810	160.250	6819.11	2571.67	-2081.89	1713.80	1694496.96	14270912.08	39°17'56.922"N	80°48'31.811"W	2696.55	140.539	1.11	0.00	-1.11	
9810.02	87.670	155.860	6821.99	2665.80	-2169.02	1748.90	1694532.04	14270824.99	39°17'56.061"N	80°48'31.367"W	2786.27	141.120	4.83	-1.21	-4.68	
9905.02	88.890	154.950	6824.85	2760.66	-2255.36	1786.42	1694571.54	14270738.68	39°17'55.206"N	80°48'30.866"W	2878.38	141.587	1.60	1.28	-0.96	
9999.02	89.930	154.580	6825.81	2854.50	-2340.36	1828.49	1694611.60	14270653.69	39°17'54.365"N	80°48'30.359"W	2969.98	142.000	1.17	1.11	-0.39	
10095.02	88.810	154.720	6826.87	2950.32	-2427.13	1869.59	1694652.68	14270566.98	39°17'53.507"N	80°48'29.838"W	3063.71	142.393	1.18	-1.17	0.15	
10189.02	89.340	154.450	6828.39	3044.14	-2512.02	1909.93	1694693.00	14270482.12	39°17'52.667"N	80°48'29.327"W	3156.64	142.754	0.63	0.56	-0.29	
10284.02	89.340	156.120	6829.48	3139.02	-2598.31	1949.64	1694732.70	14270395.87	39°17'51.813"N	80°48'28.825"W	3248.43	143.117	1.76	0.00	1.76	
10379.02	90.310	155.690	6829.77	3233.95	-2685.03	1988.42	1694771.47	14270309.18	39°17'50.955"N	80°48'28.334"W	3341.14	143.478	1.12	1.02	-0.45	
10474.02	88.370	156.560	6830.87	3328.89	-2771.89	2026.87	1694809.80	14270222.35	39°17'50.096"N	80°48'27.847"W	3433.89	143.825	2.24	-2.04	0.92	
10568.02	89.160	159.020	6832.89	3422.65	-2858.89	2062.39	1694845.41	14270135.39	39°17'49.235"N	80°48'27.397"W	3525.15	144.193	2.75	0.84	2.62	
10663.02	89.520	168.780	6833.99	3517.84	-2947.51	2096.60	1694879.61	14270046.81	39°17'48.359"N	80°48'26.855"W	3617.12	144.575	0.47	0.38	-0.27	
10758.02	88.200	153.140	6835.88	3612.72	-3034.21	2135.29	1694918.28	14269950.14	39°17'47.501"N	80°48'26.475"W	3710.24	144.864	6.08	-1.39	-5.92	
10853.02	89.700	159.370	6837.62	3707.61	-3121.11	2173.52	1694956.49	14269873.28	39°17'46.641"N	80°48'25.991"W	3803.35	145.147	6.74	1.58	6.56	
10948.02	89.250	156.480	6838.49	3802.60	-3209.13	2209.22	1694992.18	14269785.29	39°17'45.771"N	80°48'25.539"W	3896.04	145.456	3.08	-0.47	-3.04	
11043.02	89.250	161.840	6839.74	3897.54	-3297.87	2243.00	1695025.94	14269696.58	39°17'44.893"N	80°48'25.112"W	3988.36	145.779	5.64	0.00	5.64	
11138.02	90.130	161.650	6840.25	3992.33	-3388.09	2272.75	1695055.68	14269608.40	39°17'44.001"N	80°48'24.736"W	4079.78	146.146	0.95	0.93	-0.19	

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# Actual Wellpath Report

Wentz Unit 2H AWP Proj: 17580.03'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #03
Area	Doddridge Co., WV	Well	Wentz Unit 2H
Field	Doddridge	Wellbore	Wentz Unit 2H AWB
Facility	Rock Run Pad		

WELLPATH DATA (219 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
11233.02	90.750	160.430	6839.52	4087.20	-3477.94	2303.61	1695086.53	14269516.59	39°17'43.112"N	80°48'24.346"W	4171.65	146.482	1.45	0.65	-1.29	
11327.02	87.490	159.270	6840.96	4181.12	-3566.16	2335.98	1695118.89	14269428.40	39°17'42.239"N	80°48'23.937"W	4263.13	146.774	3.68	-3.47	-1.23	
11419.02	87.490	158.320	6844.99	4273.03	-3651.85	2369.22	1695152.12	14269342.75	39°17'41.392"N	80°48'23.518"W	4353.07	147.026	1.03	0.00	-1.03	
11511.02	88.460	159.020	6848.24	4364.96	-3737.49	2402.66	1695185.55	14269257.14	39°17'40.544"N	80°48'23.093"W	4443.16	147.265	1.30	1.05	0.76	
11603.02	90.400	162.280	6849.16	4456.84	-3824.27	2433.14	1695216.01	14269170.39	39°17'39.686"N	80°48'22.708"W	4532.69	147.534	4.12	2.11	3.54	
11694.02	88.370	160.340	6850.14	4547.68	-3910.46	2462.30	1695245.15	14269084.24	39°17'38.834"N	80°48'22.339"W	4621.11	147.803	3.09	-2.23	-2.13	
11784.02	88.640	161.050	6852.48	4637.55	-3995.37	2492.04	1695274.89	14268999.36	39°17'37.994"N	80°48'21.963"W	4708.85	148.047	0.84	0.30	0.79	
11876.02	89.080	158.500	6854.31	4729.48	-4081.67	2523.84	1695306.67	14268913.09	39°17'37.140"N	80°48'21.561"W	4798.94	148.270	2.81	0.48	-2.77	
11968.02	90.130	159.460	6854.95	4821.47	-4167.55	2556.83	1695339.65	14268827.25	39°17'36.291"N	80°48'21.144"W	4889.36	148.470	1.56	1.14	1.04	
12059.02	89.080	154.190	6855.58	4912.41	-4251.17	2592.63	1695375.44	14268743.66	39°17'35.463"N	80°48'20.691"W	4979.38	148.623	5.90	-1.15	-5.79	
12150.02	89.780	154.020	6856.48	5003.19	-4333.03	2632.37	1695415.16	14268661.84	39°17'34.653"N	80°48'20.188"W	5069.96	148.721	0.79	0.77	-0.19	
12241.02	89.870	150.940	6856.76	5093.75	-4413.72	2674.41	1695457.19	14268581.18	39°17'33.855"N	80°48'19.655"W	5160.78	148.787	3.39	0.10	-3.38	
12332.02	90.310	154.720	6856.62	5184.36	-4494.67	2715.96	1695498.72	14268500.26	39°17'33.054"N	80°48'19.129"W	5251.52	148.857	4.18	0.48	4.15	
12423.02	90.220	157.090	6856.20	5275.29	-4577.73	2753.11	1695535.85	14268417.23	39°17'32.232"N	80°48'18.659"W	5341.84	148.977	2.61	-0.10	2.60	
12518.03	88.990	156.920	6856.85	5370.28	-4665.19	2790.22	1695572.95	14268329.81	39°17'31.367"N	80°48'18.189"W	5435.93	149.117	1.31	-1.29	-0.18	
12613.03	88.990	160.170	6858.53	5465.25	-4753.58	2824.96	1695607.67	14268241.46	39°17'30.493"N	80°48'17.750"W	5529.64	149.278	3.42	0.00	3.42	
12708.03	88.840	158.750	6860.49	5560.20	-4842.52	2858.28	1695640.98	14268152.55	39°17'29.613"N	80°48'17.328"W	5623.15	149.449	1.53	-0.37	-1.48	
12803.03	89.960	160.780	6861.65	5655.14	-4931.65	2891.12	1695673.81	14268063.46	39°17'28.731"N	80°48'16.913"W	5716.62	149.620	2.54	1.39	2.13	
12898.03	90.920	159.730	6860.92	5750.06	-5021.06	2923.21	1695705.89	14267974.08	39°17'27.847"N	80°48'16.507"W	5810.01	149.792	1.50	1.01	-1.11	
12993.03	90.040	160.690	6860.13	5844.99	-5110.44	2955.38	1695738.04	14267884.74	39°17'26.963"N	80°48'16.101"W	5903.46	149.959	1.37	-0.98	1.01	
13088.03	90.840	160.340	6859.40	5939.90	-5200.00	2987.06	1695769.71	14267795.22	39°17'26.077"N	80°48'15.700"W	5996.88	150.125	0.92	0.84	-0.37	
13182.03	89.160	158.940	6859.40	6033.85	-5288.12	3019.76	1695802.40	14267707.13	39°17'25.205"N	80°48'15.287"W	6089.60	150.272	2.33	-1.79	-1.49	
13277.03	89.890	157.530	6860.35	6128.85	-5376.34	3054.99	1695837.61	14267618.94	39°17'24.333"N	80°48'14.841"W	6183.69	150.394	1.59	0.56	-1.48	
13372.03	90.400	156.210	6860.27	6223.82	-5463.70	3092.30	1695874.91	14267531.62	39°17'23.468"N	80°48'14.369"W	6278.09	150.491	1.58	0.75	-1.39	
13466.03	88.900	156.950	6860.85	6317.77	-5549.62	3130.42	1695913.01	14267445.73	39°17'22.618"N	80°48'13.887"W	6371.64	150.574	1.62	-1.60	-0.28	
13562.03	88.020	157.440	6863.43	6413.70	-5637.76	3168.38	1695950.96	14267357.63	39°17'21.747"N	80°48'13.406"W	6467.07	150.664	1.80	-0.92	1.55	
13657.03	89.160	159.110	6865.77	6508.67	-5725.98	3203.53	1695986.10	14267269.45	39°17'20.874"N	80°48'12.962"W	6561.21	150.774	2.13	1.20	1.76	
13752.03	89.960	158.850	6866.50	6603.65	-5814.65	3237.61	1696020.16	14267180.81	39°17'19.997"N	80°48'12.531"W	6655.25	150.891	0.89	0.84	-0.27	
13847.03	91.190	158.150	6865.54	6698.64	-5903.04	3272.42	1696054.96	14267092.46	39°17'19.122"N	80°48'12.090"W	6749.41	150.998	1.49	1.29	-0.74	
13941.03	90.750	158.670	6863.95	6792.62	-5990.43	3307.01	1696089.53	14267005.10	39°17'18.258"N	80°48'11.653"W	6842.63	151.099	0.72	-0.47	0.56	

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Field	Doddridge	Wellbore	Wentz Unit 2H AWB
Facility	Rock Run Pad		

WELLPATH DATA (219 stations)																
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [ft/100ft]	Build Rate [ft/100ft]	Turn Rate [ft/100ft]	Comments
14035.03	91.630	157.790	6861.98	6887.60	-9078.63	3342.23	1696124.74	14266916.93	39°17'17.385"N	80°48'11.207"W	6936.88	151.197	1.31	0.93	-0.93	
14131.03	89.600	157.440	6860.96	6982.59	-6166.46	3378.41	1696160.90	14266829.14	39°17'16.516"N	80°48'10.750"W	7031.28	151.283	2.17	-2.14	-0.37	
14226.03	89.690	156.390	6861.55	7077.57	-9253.85	3415.65	1696198.13	14266741.78	39°17'15.652"N	80°48'10.278"W	7125.82	151.358	1.11	0.09	-1.11	
14321.03	90.670	157.440	6861.25	7172.54	-6341.24	3452.90	1696235.36	14266654.43	39°17'14.787"N	80°48'09.807"W	7220.38	151.431	1.51	1.03	1.11	
14415.03	91.710	156.480	6859.30	7266.51	-6427.72	3489.68	1696272.13	14266567.98	39°17'13.932"N	80°48'09.342"W	7313.93	151.502	1.51	1.11	-1.02	
14510.03	90.570	158.060	6857.41	7361.47	-6515.32	3526.38	1696308.81	14266480.41	39°17'13.065"N	80°48'08.877"W	7408.43	151.576	2.05	-1.20	1.66	
14605.03	89.960	155.330	6856.96	7457.44	-6603.48	3564.36	1696346.77	14266392.29	39°17'12.193"N	80°48'08.397"W	7504.04	151.641	2.91	-0.64	-2.84	
14701.03	90.040	157.530	6856.96	7552.39	-6690.55	3602.34	1696384.74	14266305.26	39°17'11.332"N	80°48'07.916"W	7598.71	151.701	2.32	0.08	2.32	
14795.03	90.570	160.170	6856.46	7647.37	-6779.14	3636.61	1696419.00	14266216.70	39°17'10.455"N	80°48'07.483"W	7692.97	151.789	2.83	0.56	2.78	
14890.03	90.920	160.080	6855.23	7741.30	-6867.54	3668.57	1696450.95	14266128.34	39°17'09.581"N	80°48'07.079"W	7785.98	151.889	0.38	0.37	-0.10	
14985.03	90.920	161.650	6853.71	7836.17	-6957.28	3699.70	1696482.06	14266038.64	39°17'08.693"N	80°48'06.685"W	7879.81	151.997	1.66	0.00	1.66	
15080.03	89.690	161.570	6853.20	7930.98	-7047.42	3729.66	1696512.01	14265948.53	39°17'07.802"N	80°48'06.307"W	7973.49	152.111	1.30	-1.29	-0.09	
15175.03	90.570	162.890	6852.99	8025.72	-7137.89	3758.65	1696540.99	14265858.10	39°17'06.907"N	80°48'05.941"W	8067.03	152.230	1.67	0.93	1.39	
15270.03	90.480	161.130	6852.12	8120.49	-7228.24	3787.99	1696570.32	14265767.79	39°17'06.013"N	80°48'05.570"W	8160.65	152.343	1.85	-0.09	-1.85	
15365.03	89.600	157.380	6852.05	8215.45	-7317.06	3821.63	1696603.95	14265679.00	39°17'05.135"N	80°48'05.145"W	8254.95	152.422	4.05	-0.93	-3.95	
15460.03	91.100	160.430	6851.47	8310.42	-7405.68	3855.82	1696638.12	14265590.41	39°17'04.258"N	80°48'04.712"W	8349.34	152.496	3.58	1.58	3.21	
15555.03	90.040	157.620	6850.53	8405.39	-7494.37	3889.82	1696672.11	14265501.76	39°17'03.381"N	80°48'04.283"W	8443.71	152.569	3.16	-1.12	-2.96	
15649.03	90.480	155.690	6850.10	8499.36	-7580.67	3927.07	1696709.34	14265415.49	39°17'02.527"N	80°48'03.811"W	8537.47	152.614	2.11	0.47	-2.05	
15744.03	88.200	154.630	6851.19	8594.23	-7666.87	3966.97	1696749.23	14265329.33	39°17'01.674"N	80°48'03.305"W	8632.36	152.642	2.65	-2.40	-1.12	
15839.03	88.990	156.600	6853.52	8689.07	-7753.02	4006.93	1696789.17	14265243.21	39°17'00.822"N	80°48'02.800"W	8727.25	152.669	1.32	0.83	1.02	
15934.03	90.840	156.300	6853.66	8784.00	-7839.77	4045.65	1696827.87	14265156.50	39°16'59.964"N	80°48'02.310"W	8822.09	152.704	2.08	1.95	0.74	
16029.03	91.360	155.420	6851.84	8878.92	-7926.44	4084.49	1696866.70	14265069.86	39°16'59.106"N	80°48'01.819"W	8916.93	152.738	1.08	0.55	-0.93	
16124.03	90.920	157.180	6849.95	8973.85	-8013.41	4122.67	1696904.86	14264982.93	39°16'58.245"N	80°48'01.336"W	9011.72	152.776	1.91	-0.46	1.85	
16218.03	90.270	158.300	6848.97	9067.84	-8100.40	4158.27	1696940.45	14264895.97	39°16'57.385"N	80°48'00.885"W	9105.37	152.827	1.38	-0.69	1.19	
16312.03	90.920	158.500	6848.00	9161.84	-8187.79	4192.87	1696975.04	14264808.61	39°16'56.521"N	80°48'00.448"W	9198.92	152.884	0.72	0.69	0.21	
16408.03	90.480	156.920	6846.85	9255.82	-8274.76	4228.52	1697010.68	14264721.58	39°16'55.660"N	80°47'59.997"W	9292.58	152.932	1.74	-0.47	-1.68	
16500.03	91.450	156.300	6845.27	9349.78	-8361.02	4265.83	1697047.97	14264635.45	39°16'54.807"N	80°47'59.525"W	9386.37	152.969	1.22	1.03	-0.66	
16594.03	90.130	156.390	6843.97	9443.73	-8447.11	4303.54	1697085.67	14264549.40	39°16'53.955"N	80°47'59.048"W	9480.20	153.003	1.41	-1.40	0.10	
16689.03	90.570	155.250	6843.39	9538.65	-8533.77	4342.46	1697124.55	14264462.77	39°16'53.098"N	80°47'58.555"W	9575.08	153.030	1.29	0.46	-1.20	
16783.03	89.960	155.770	6842.95	9632.56	-8619.32	4381.42	1697163.51	14264377.26	39°16'52.251"N	80°47'58.062"W	9668.99	153.055	0.85	-0.65	0.55	

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WELLPATH DATA (219 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
15377.03	90.200	155.970	6842.82	9726.52	-8705.43	4419.10	1697201.18	14264291.18	39°16'51.399"N	80°47'57.586"W	9762.84	153.086	1.30	0.26	1.28	
15971.03	91.800	157.880	6841.18	9820.50	-8792.21	4455.18	1697237.24	14264204.43	39°16'50.541"N	80°47'57.129"W	9856.55	153.128	1.96	1.70	0.97	
17065.03	90.570	157.440	6839.24	9914.47	-8879.14	4490.90	1697272.95	14264117.54	39°16'49.681"N	80°47'56.677"W	9950.24	153.171	1.39	-1.31	-0.47	
17159.03	90.840	155.390	6838.08	10008.45	-8965.60	4527.75	1697309.79	14264031.11	39°16'48.826"N	80°47'56.211"W	10044.03	153.206	1.15	0.29	-1.12	
17253.03	90.130	155.120	6837.29	10102.40	-9051.64	4565.60	1697347.62	14263945.11	39°16'47.974"N	80°47'55.732"W	10137.90	153.234	0.81	-0.76	-0.29	
17347.03	90.310	157.270	6836.93	10196.37	-9137.97	4602.79	1697384.79	14263858.81	39°16'47.120"N	80°47'55.262"W	10231.72	153.266	1.24	0.19	1.22	
17441.03	91.010	157.710	6835.84	10290.36	-9224.80	4638.77	1697420.76	14263772.02	39°16'46.261"N	80°47'54.807"W	10325.46	153.304	0.88	0.74	0.47	
17522.04	91.630	155.950	6833.98	10371.33	-9299.25	4670.64	1697452.62	14263697.59	39°16'45.525"N	80°47'54.404"W	10406.30	153.331	2.30	0.77	-2.17	
17580.03	91.630	155.950	6832.33	10429.25	-9352.19	4694.26	1697476.23	14263644.68	39°16'45.001"N	80°47'54.105"W	10464.20	153.346	0.00	0.00	0.00	

WELLPATH COMPOSITION - Ref Wellbore: Wentz Unit 2H AWB Ref Wellpath: Wentz Unit 2H AWP Proj: 17580.03'				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
23.00	5986.55	SDI Keeper v1.04	01 SDI Std Keeper Gyro v1.04 (100'- 5986.55')	Wentz Unit 2H AWB
5986.55	17522.04	SDI gMWD v1.05 (Standard)	02 SDI MWD (5986.55')(6042.01'-17522.04')	Wentz Unit 2H AWB
17522.04	17580.03	Blind Drilling (std)	Projection to bit	Wentz Unit 2H AWB

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Field	Doddridge	Wellbore	Wentz Unit 2H AWB
Facility	Rock Run Pad		

WELLPATH COMMENTS					
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment	
6688.01	60.195	69.949	6532.30	Middlesex: 6688.01' MD	
6956.01	67.885	99.659	6659.70	Burket: 6956.01' MD	
7054.01	72.282	111.767	6692.33	Tully: 7054.01' MD	
7221.01	78.694	132.678	6734.87	Marcellus: 7221.01' MD	
7476.33	88.995	160.660	6770.01	Landing Pt. Wentz Unit 2H: 7476.33' MD	

COMMENTS
<p><b>Wellpath general comments</b> Rig: Patterson 317</p> <p>Survey Tools 01_SDI Std Keeper Gyro v1.04 (100'- 5986.55') 02_SDI MWD (5986.55')(6042.01'-17522.04')</p> <p>Middlesex: 6688.01' MD Burket: 6956.01' MD Tully: 7054.01' MD Marcellus: 7221.01' MD Landing Pt. Wentz Unit 2H: 7476.33' MD</p>

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