



Where energy meets innovation.

Actual Wellpath Report

Big 177 513845 ST01 AWP Proj: 17923'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT	Slot	Slot 513845
Area	Wetzel County, WV	Well	Big 177 513845 ST01
Field	Wetzel	Wellbore	Big 177 513845 ST01 AWP
Facility	Big 177 Pad	Sidetrack from	Big 177 513845 AWP Proj: 12565' at 11006.00 MD

REPORT SETUP INFORMATION			
Projection System	NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchitect® 5.0
North Reference	Grid	User	Edsaryar
Scale	0.999941	Report Generated	12/2/2016 at 3:05:45 PM
Convergence at slot	0.70° West	Database/Source file	WA_MPL_EASTERNUS_Defn/Big_177_513845_ST01_AWP_Proj__17923_.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	1694484.91	396130.04	39°34'57.170"N	80°35'02.331"W
Facility Reference Pt			1694484.91	396130.04	39°34'57.170"N	80°35'02.331"W
Field Reference Pt			1688243.35	385255.46	39°33'08.944"N	80°36'20.337"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Precision 110 (RKB) to Facility Vertical Datum	838.00ft
Horizontal Reference Pt	Slot	Precision 110 (RKB) to Mean Sea Level	838.00ft
Vertical Reference Pt	Precision 110 (RKB)	Precision 110 (RKB) to Mud Line at Slot (Slot 513845)	27.00ft
MD Reference Pt	Precision 110 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	331.55°



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Area	Wetzel County, WV	Well	Big 177 513845 ST01
Field	Wetzel	Wellbore	Big 177 513845 ST01 AWB
Facility	Big 177 Pad	Sidetrack from	Big 177 513845 AWP Proj: 12565' at 11006.00 MD

WELLPATH DATA (212 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]
0.00	0.000	258.760	0.00	0.00	0.00	0.00	1694484.91	396130.04	39°34'57.170"N	80°35'02.331"W	0.00	0.000	0.00	0.00	0.00
27.00	0.000	258.760	27.00	0.00	0.00	0.00	1694484.91	396130.04	39°34'57.170"N	80°35'02.331"W	0.00	0.000	0.00	0.00	0.00
100.00	0.400	258.760	100.00	0.08	-0.05	-0.25	1694484.66	396129.99	39°34'57.170"N	80°35'02.334"W	0.25	258.760	0.55	0.55	-138.68
200.00	0.430	257.010	200.00	0.28	-0.20	-0.96	1694483.95	396129.84	39°34'57.168"N	80°35'02.343"W	0.98	258.089	0.03	0.03	-1.75
300.00	0.210	233.940	300.00	0.35	-0.39	-1.47	1694483.44	396129.65	39°34'57.166"N	80°35'02.350"W	1.52	255.003	0.25	-0.22	-23.07
400.00	0.210	220.430	399.99	0.26	-0.64	-1.74	1694483.17	396129.40	39°34'57.164"N	80°35'02.353"W	1.85	249.744	0.05	0.00	-13.51
500.00	0.230	197.130	499.99	0.06	-0.97	-1.92	1694482.99	396129.07	39°34'57.160"N	80°35'02.356"W	2.15	243.087	0.09	0.02	-23.30
600.00	0.230	195.920	599.99	-0.23	-1.36	-2.03	1694482.88	396128.68	39°34'57.156"N	80°35'02.357"W	2.44	236.234	0.00	0.00	-1.21
700.00	0.230	200.430	699.99	-0.50	-1.74	-2.16	1694482.75	396128.30	39°34'57.153"N	80°35'02.358"W	2.77	231.112	0.02	0.00	4.51
800.00	0.220	202.200	799.99	-0.76	-2.10	-2.30	1694482.61	396127.94	39°34'57.149"N	80°35'02.360"W	3.12	227.521	0.01	-0.01	1.77
900.00	0.220	194.950	899.99	-1.02	-2.47	-2.42	1694482.49	396127.57	39°34'57.145"N	80°35'02.362"W	3.46	224.445	0.03	0.00	-7.25
1000.00	0.250	217.980	999.99	-1.24	-2.83	-2.60	1694482.31	396127.21	39°34'57.142"N	80°35'02.364"W	3.84	222.669	0.10	0.03	23.03
1100.00	0.370	236.310	1099.99	-1.36	-3.18	-3.01	1694481.90	396126.86	39°34'57.138"N	80°35'02.369"W	4.37	223.433	0.15	0.12	18.33
1200.00	0.530	250.300	1199.99	-1.32	-3.51	-3.71	1694481.20	396126.53	39°34'57.135"N	80°35'02.378"W	5.11	226.586	0.19	0.16	13.99
1300.00	0.550	247.860	1299.98	-1.20	-3.85	-4.59	1694480.32	396126.19	39°34'57.131"N	80°35'02.389"W	5.99	230.032	0.03	0.02	-2.44
1400.00	0.410	192.700	1399.98	-1.41	-4.38	-5.11	1694479.80	396125.66	39°34'57.126"N	80°35'02.396"W	6.73	229.436	0.46	-0.14	-55.16
1500.00	0.370	191.070	1499.98	-1.93	-5.04	-5.26	1694479.66	396125.00	39°34'57.120"N	80°35'02.398"W	7.28	226.175	0.04	-0.04	-1.63
1600.00	0.190	195.710	1599.97	-2.30	-5.52	-5.36	1694479.55	396124.52	39°34'57.115"N	80°35'02.399"W	7.70	224.166	0.18	-0.18	4.64
1700.00	0.180	186.610	1699.97	-2.55	-5.84	-5.43	1694479.49	396124.20	39°34'57.112"N	80°35'02.400"W	7.97	222.910	0.03	-0.01	-9.10
1800.00	0.140	157.580	1799.97	-2.80	-6.11	-5.40	1694479.51	396123.94	39°34'57.109"N	80°35'02.399"W	8.15	221.475	0.09	-0.04	-29.03
1900.00	0.120	133.480	1899.97	-3.02	-6.29	-5.27	1694479.64	396123.75	39°34'57.107"N	80°35'02.398"W	8.21	219.978	0.06	-0.02	-24.10
2000.00	0.110	136.950	1999.97	-3.21	-6.43	-5.13	1694479.78	396123.61	39°34'57.106"N	80°35'02.396"W	8.23	218.587	0.01	-0.01	3.47
2100.00	0.050	101.000	2099.97	-3.33	-6.51	-5.02	1694479.89	396123.53	39°34'57.105"N	80°35'02.394"W	8.22	217.656	0.08	-0.06	-35.95
2200.00	0.040	67.050	2199.97	-3.36	-6.51	-4.95	1694479.96	396123.53	39°34'57.105"N	80°35'02.393"W	8.17	217.263	0.03	-0.01	-33.95
2300.00	0.060	70.830	2299.97	-3.37	-6.47	-4.87	1694480.04	396123.57	39°34'57.105"N	80°35'02.392"W	8.10	216.935	0.02	0.02	3.78
2400.00	0.090	65.080	2399.97	-3.39	-6.42	-4.75	1694480.16	396123.62	39°34'57.106"N	80°35'02.391"W	7.99	216.460	0.03	0.03	-5.75
2500.00	0.080	69.090	2499.97	-3.40	-6.37	-4.61	1694480.30	396123.67	39°34'57.107"N	80°35'02.389"W	7.86	215.911	0.01	-0.01	4.01
2600.00	0.160	73.880	2599.97	-3.44	-6.30	-4.41	1694480.50	396123.74	39°34'57.107"N	80°35'02.387"W	7.69	214.987	0.08	0.08	4.79
2700.00	0.200	71.660	2699.97	-3.50	-6.21	-4.11	1694480.80	396123.83	39°34'57.108"N	80°35'02.383"W	7.45	213.510	0.04	0.04	-2.22
2800.00	0.200	66.180	2799.97	-3.55	-6.08	-3.79	1694481.12	396123.96	39°34'57.109"N	80°35'02.379"W	7.17	211.895	0.02	0.00	-5.48



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Field	Wetzel	Wellbore	Big 177 513845 ST01 AWB
Facility	Big 177 Pad	Sidetrack from	Big 177 513845 AWP Proj: 12565' at 11006.00 MD

WELLPATH DATA (212 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]	
2900.00	0.190	56.010	2899.97	-3.54	-5.92	-3.49	1694481.42	396124.12	39°34'57.111"N	80°35'02.375"W	6.87	210.510	0.04	-0.01	-10.17	
3000.00	0.240	55.620	2999.97	-3.51	-5.71	-3.18	1694481.73	396124.33	39°34'57.113"N	80°35'02.371"W	6.53	209.105	0.05	0.05	-0.39	
3100.00	0.200	59.920	3099.97	-3.48	-5.50	-2.85	1694482.06	396124.54	39°34'57.115"N	80°35'02.367"W	6.20	207.414	0.04	-0.04	4.30	
3200.00	0.230	47.080	3199.97	-3.42	-5.28	-2.56	1694482.35	396124.76	39°34'57.118"N	80°35'02.363"W	5.87	205.838	0.06	0.03	-12.84	
3300.00	0.270	34.810	3299.97	-3.27	-4.95	-2.28	1694482.63	396125.09	39°34'57.121"N	80°35'02.359"W	5.45	204.687	0.07	0.04	-12.27	
3400.00	0.310	30.050	3399.97	-3.02	-4.52	-2.01	1694482.90	396125.52	39°34'57.125"N	80°35'02.356"W	4.95	203.914	0.05	0.04	-4.76	
3500.00	0.300	25.830	3499.96	-2.73	-4.05	-1.76	1694483.15	396125.99	39°34'57.130"N	80°35'02.353"W	4.42	203.426	0.02	-0.01	-4.22	
3600.00	0.310	23.800	3599.96	-2.41	-3.57	-1.53	1694483.38	396126.47	39°34'57.135"N	80°35'02.350"W	3.88	203.238	0.01	0.01	-2.03	
3700.00	0.310	27.600	3699.96	-2.09	-3.08	-1.30	1694483.61	396126.96	39°34'57.139"N	80°35'02.347"W	3.34	202.840	0.02	0.00	3.80	
3800.00	0.350	26.170	3799.96	-1.76	-2.57	-1.04	1694483.87	396127.47	39°34'57.145"N	80°35'02.344"W	2.77	202.008	0.04	0.04	-1.43	
3900.00	0.400	43.790	3899.96	-1.48	-2.04	-0.66	1694484.25	396128.00	39°34'57.150"N	80°35'02.339"W	2.15	197.955	0.13	0.05	17.62	
4000.00	0.500	54.890	3999.96	-1.32	-1.54	-0.06	1694484.85	396128.50	39°34'57.155"N	80°35'02.332"W	1.54	182.350	0.13	0.10	11.10	
4100.00	0.610	64.130	4099.95	-1.30	-1.06	0.77	1694485.68	396128.98	39°34'57.160"N	80°35'02.321"W	1.31	143.793	0.14	0.11	9.24	
4200.00	0.830	79.160	4199.94	-1.54	-0.69	1.96	1694486.87	396129.35	39°34'57.163"N	80°35'02.306"W	2.08	109.291	0.29	0.22	15.03	
4300.00	0.910	83.450	4299.93	-2.05	-0.46	3.46	1694488.37	396129.58	39°34'57.166"N	80°35'02.287"W	3.49	97.571	0.10	0.08	4.29	
4400.00	1.010	85.320	4399.92	-2.71	-0.30	5.13	1694490.04	396129.74	39°34'57.168"N	80°35'02.266"W	5.14	93.322	0.10	0.10	1.87	
4500.00	1.110	89.390	4499.90	-3.51	-0.22	6.98	1694491.89	396129.82	39°34'57.169"N	80°35'02.242"W	6.98	91.770	0.13	0.10	4.07	
4600.00	1.210	91.160	4599.88	-4.49	-0.23	9.00	1694493.91	396129.81	39°34'57.169"N	80°35'02.216"W	9.00	91.442	0.11	0.10	1.77	
4700.00	1.290	94.720	4699.86	-5.63	-0.34	11.18	1694496.09	396129.70	39°34'57.168"N	80°35'02.188"W	11.18	91.745	0.11	0.08	3.56	
4800.00	1.390	95.700	4799.83	-6.92	-0.55	13.51	1694498.42	396129.49	39°34'57.166"N	80°35'02.159"W	13.52	92.348	0.10	0.10	0.98	
4900.00	1.530	97.320	4899.80	-8.38	-0.84	16.04	1694500.95	396129.20	39°34'57.164"N	80°35'02.126"W	16.06	93.013	0.15	0.14	1.62	
5000.00	1.630	97.870	4999.76	-10.01	-1.21	18.77	1694503.68	396128.83	39°34'57.160"N	80°35'02.091"W	18.81	93.685	0.10	0.10	0.55	
5100.00	1.680	98.040	5099.72	-11.72	-1.61	21.63	1694506.54	396128.43	39°34'57.157"N	80°35'02.055"W	21.69	94.254	0.05	0.05	0.17	
5200.00	1.700	97.280	5199.67	-13.46	-2.00	24.56	1694509.46	396128.04	39°34'57.153"N	80°35'02.017"W	24.64	94.661	0.03	0.02	-0.76	
5300.00	1.790	97.730	5299.63	-15.25	-2.40	27.57	1694512.48	396127.64	39°34'57.150"N	80°35'01.979"W	27.68	94.974	0.09	0.09	0.45	
5400.00	1.860	96.970	5399.58	-17.11	-2.81	30.73	1694515.64	396127.23	39°34'57.146"N	80°35'01.938"W	30.86	95.219	0.07	0.07	-0.76	
5500.00	2.060	98.450	5499.52	-19.13	-3.27	34.12	1694519.03	396126.77	39°34'57.142"N	80°35'01.895"W	34.28	95.471	0.21	0.20	1.48	
5600.00	2.450	99.900	5599.44	-21.53	-3.90	38.00	1694522.91	396126.14	39°34'57.136"N	80°35'01.845"W	38.20	95.859	0.39	0.39	1.45	
5700.00	2.670	99.890	5699.34	-24.30	-4.67	42.40	1694527.31	396125.37	39°34'57.129"N	80°35'01.789"W	42.66	96.281	0.22	0.22	-0.01	
5800.00	2.750	99.110	5799.23	-27.21	-5.45	47.07	1694531.98	396124.59	39°34'57.122"N	80°35'01.729"W	47.38	96.601	0.09	0.08	-0.78	



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5900.00	2.930	98.060	5899.10	-30.19	-6.19	51.97	1694536.87	396123.86	39°34'57.115"N	80°35'01.667"W	52.33	96.787	0.19	0.18	-1.05
6000.00	3.090	97.430	5998.97	-33.30	-6.89	57.17	1694542.08	396123.15	39°34'57.109"N	80°35'01.600"W	57.58	96.874	0.16	0.16	-0.63
6100.00	3.430	96.930	6098.80	-36.61	-7.60	62.81	1694547.72	396122.44	39°34'57.102"N	80°35'01.528"W	63.27	96.900	0.34	0.34	-0.50
6200.00	3.810	96.270	6198.61	-40.23	-8.33	69.08	1694553.99	396121.72	39°34'57.096"N	80°35'01.448"W	69.58	96.872	0.38	0.38	-0.66
6300.00	4.130	96.160	6298.36	-44.17	-9.07	75.97	1694560.87	396120.97	39°34'57.089"N	80°35'01.360"W	76.51	96.812	0.32	0.32	-0.11
6400.00	4.350	96.050	6398.09	-48.36	-9.86	83.32	1694568.22	396120.18	39°34'57.083"N	80°35'01.266"W	83.90	96.749	0.22	0.22	-0.11
6500.00	4.560	95.450	6497.79	-52.73	-10.64	91.05	1694575.95	396119.40	39°34'57.076"N	80°35'01.167"W	91.67	96.664	0.22	0.21	-0.60
6600.00	4.810	93.480	6597.45	-57.16	-11.27	99.19	1694584.09	396118.77	39°34'57.071"N	80°35'01.063"W	99.83	96.482	0.30	0.25	-1.97
6700.00	5.080	91.330	6697.08	-61.58	-11.63	107.80	1694592.70	396118.41	39°34'57.068"N	80°35'00.953"W	108.43	96.156	0.33	0.27	-2.15
6800.00	5.440	88.420	6796.66	-65.92	-11.60	116.97	1694601.87	396118.44	39°34'57.069"N	80°35'00.836"W	117.54	95.663	0.45	0.36	-2.91
6900.00	6.170	88.030	6896.15	-70.46	-11.28	127.07	1694611.98	396118.76	39°34'57.074"N	80°35'00.707"W	127.57	95.074	0.73	0.73	-0.39
7000.00	6.850	86.880	6995.50	-75.41	-10.77	138.40	1694623.30	396119.27	39°34'57.080"N	80°35'00.562"W	138.82	94.452	0.69	0.68	-1.15
7100.00	7.520	86.840	7094.72	-80.75	-10.09	150.89	1694635.79	396119.95	39°34'57.088"N	80°35'00.403"W	151.23	93.825	0.67	0.67	-0.04
7135.00	7.920	85.870	7129.40	-82.72	-9.79	155.58	1694640.48	396120.25	39°34'57.092"N	80°35'00.343"W	155.89	93.600	1.20	1.14	-2.77
7159.00	7.680	87.320	7153.18	-84.10	-9.60	158.83	1694643.73	396120.45	39°34'57.094"N	80°35'00.301"W	159.12	93.457	1.29	-1.00	6.04
7189.00	6.510	89.840	7182.95	-85.78	-9.50	162.53	1694647.43	396120.54	39°34'57.096"N	80°35'00.254"W	162.81	93.344	4.03	-3.90	8.40
7219.00	6.160	91.110	7212.76	-87.38	-9.52	165.84	1694650.74	396120.52	39°34'57.096"N	80°35'00.212"W	166.12	93.286	1.26	-1.17	4.23
7279.00	5.220	96.220	7272.47	-90.52	-9.88	171.78	1694656.68	396120.16	39°34'57.093"N	80°35'00.136"W	172.06	93.292	1.78	-1.57	8.52
7324.00	4.180	105.630	7317.32	-92.83	-10.54	175.39	1694660.29	396119.50	39°34'57.087"N	80°35'00.090"W	175.71	93.441	2.87	-2.31	20.91
7369.00	3.330	120.830	7362.22	-95.09	-11.66	178.09	1694662.99	396118.38	39°34'57.076"N	80°35'00.055"W	178.47	93.745	2.89	-1.89	33.78
7414.00	3.020	147.670	7407.15	-97.40	-13.33	179.85	1694664.75	396116.71	39°34'57.060"N	80°35'00.032"W	180.34	94.238	3.34	-0.69	59.64
7459.00	3.370	172.360	7452.09	-99.82	-15.64	180.66	1694665.56	396114.40	39°34'57.037"N	80°35'00.022"W	181.33	94.948	3.13	0.78	54.87
7503.00	4.220	194.260	7495.99	-102.22	-18.49	180.43	1694665.33	396111.55	39°34'57.009"N	80°35'00.024"W	181.38	95.852	3.78	1.93	49.77
7548.00	4.740	209.910	7540.86	-104.41	-21.71	179.10	1694664.00	396108.33	39°34'56.977"N	80°35'00.041"W	180.41	96.911	2.94	1.16	34.78
7593.00	4.850	230.870	7585.70	-105.74	-24.52	176.69	1694661.59	396105.52	39°34'56.949"N	80°35'00.071"W	178.39	97.901	3.88	0.24	46.58
7637.00	5.190	248.320	7629.54	-105.85	-26.43	173.40	1694658.30	396103.61	39°34'56.930"N	80°35'00.113"W	175.40	98.666	3.54	0.77	39.66
7728.00	5.670	275.870	7720.14	-102.82	-27.49	165.10	1694650.00	396102.55	39°34'56.918"N	80°35'00.218"W	167.38	99.453	2.88	0.53	30.27
7817.00	5.700	279.640	7808.70	-97.62	-26.30	156.37	1694641.27	396103.74	39°34'56.929"N	80°35'00.330"W	158.57	99.547	0.42	0.03	4.24
7907.00	6.460	280.630	7898.20	-91.67	-24.62	146.99	1694631.89	396105.42	39°34'56.944"N	80°35'00.450"W	149.04	99.508	0.85	0.84	1.10
7997.00	6.400	276.110	7987.63	-85.63	-23.15	137.03	1694621.93	396106.89	39°34'56.958"N	80°35'00.578"W	138.97	99.590	0.57	-0.07	-5.02



Where energy meets innovation.

Actual Wellpath Report

Big 177 513845 ST01 AWP Proj: 17923'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT	Slot	Slot 513845
Area	Wetzel County, WV	Well	Big 177 513845 ST01
Field	Wetzel	Wellbore	Big 177 513845 ST01 AWB
Facility	Big 177 Pad	Sidetrack from	Big 177 513845 AWP Proj: 12565' at 11006.00 MD

WELLPATH DATA (212 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)	
8087.00	6.610	271.800	8077.05	-80.18	-22.45	126.86	1694611.76	396107.59	39°34'56.963"N	80°35'00.708"W	128.83	100.037	0.59	0.23	-4.79	
8184.00	7.130	270.130	8173.36	-74.49	-22.27	115.26	1694600.16	396107.78	39°34'56.964"N	80°35'00.856"W	117.39	100.933	0.57	0.54	-1.72	
8319.00	5.450	267.980	8307.54	-67.62	-22.47	100.48	1694585.38	396107.57	39°34'56.960"N	80°35'01.045"W	102.96	102.607	1.26	-1.24	-1.59	
8364.00	5.030	267.230	8352.35	-65.82	-22.64	96.37	1694581.27	396107.40	39°34'56.958"N	80°35'01.097"W	98.99	103.222	0.95	-0.93	-1.67	
8453.00	5.370	267.910	8440.99	-62.28	-22.98	88.31	1694573.22	396107.06	39°34'56.953"N	80°35'01.200"W	91.25	104.588	0.39	0.38	0.76	
8543.00	4.830	263.580	8530.63	-58.99	-23.56	80.34	1694565.24	396106.48	39°34'56.947"N	80°35'01.302"W	83.72	106.345	0.74	-0.60	-4.81	
8632.00	4.360	261.280	8619.34	-56.44	-24.49	73.27	1694558.17	396105.55	39°34'56.937"N	80°35'01.392"W	77.25	108.484	0.57	-0.53	-2.58	
8812.00	3.620	272.720	8798.91	-51.19	-25.26	60.83	1694545.74	396104.78	39°34'56.928"N	80°35'01.550"W	65.87	112.551	0.60	-0.41	6.36	
8889.00	3.530	270.930	8875.76	-48.77	-25.11	56.03	1694540.94	396104.94	39°34'56.929"N	80°35'01.612"W	61.40	114.136	0.19	-0.12	-2.32	
9072.00	3.520	265.490	9058.41	-43.72	-25.46	44.80	1694529.71	396104.59	39°34'56.924"N	80°35'01.755"W	51.53	119.607	0.18	-0.01	-2.97	
9162.00	3.050	268.510	9148.26	-41.52	-25.74	39.65	1694524.56	396104.31	39°34'56.920"N	80°35'01.821"W	47.27	122.987	0.56	-0.52	3.36	
9251.00	2.780	271.600	9237.15	-39.36	-25.74	35.13	1694520.03	396104.30	39°34'56.920"N	80°35'01.879"W	43.55	126.231	0.35	-0.30	3.47	
9341.00	2.520	278.410	9327.05	-37.08	-25.39	30.99	1694515.89	396104.65	39°34'56.923"N	80°35'01.932"W	40.06	129.327	0.45	-0.29	7.57	
9431.00	2.330	284.340	9416.97	-34.65	-24.64	27.26	1694512.17	396105.40	39°34'56.930"N	80°35'01.979"W	36.75	132.118	0.35	-0.21	6.59	
9520.00	1.960	288.030	9505.91	-32.32	-23.73	24.06	1694508.97	396106.32	39°34'56.938"N	80°35'02.020"W	33.79	134.602	0.44	-0.42	4.15	
9789.00	1.240	276.710	9774.80	-27.31	-21.96	16.79	1694501.70	396108.08	39°34'56.955"N	80°35'02.113"W	27.65	142.598	0.29	-0.27	-4.21	
9879.00	1.120	273.500	9864.78	-26.28	-21.79	14.95	1694499.86	396108.25	39°34'56.956"N	80°35'02.137"W	26.43	145.557	0.15	-0.13	-3.57	
9969.00	0.710	246.030	9954.77	-25.77	-21.97	13.56	1694498.47	396108.07	39°34'56.955"N	80°35'02.155"W	25.81	148.314	0.65	-0.46	-30.52	
10059.00	0.970	156.900	10044.77	-26.49	-22.89	13.35	1694498.26	396107.15	39°34'56.945"N	80°35'02.157"W	26.50	149.755	1.33	0.29	-99.03	
10148.00	2.340	145.250	10133.73	-29.04	-25.08	14.68	1694499.59	396104.96	39°34'56.924"N	80°35'02.140"W	29.06	149.659	1.58	1.54	-13.09	
10238.00	3.470	142.220	10223.61	-33.56	-28.74	17.40	1694502.30	396101.30	39°34'56.888"N	80°35'02.105"W	33.60	148.816	1.27	1.26	-3.37	
10328.00	4.530	146.780	10313.39	-39.79	-33.87	21.01	1694505.92	396096.17	39°34'56.838"N	80°35'02.058"W	39.86	148.185	1.23	1.18	5.07	
10417.00	5.090	146.700	10402.08	-47.22	-40.11	25.10	1694510.01	396089.93	39°34'56.777"N	80°35'02.004"W	47.32	147.957	0.63	0.63	-0.09	
10507.00	5.580	150.270	10491.69	-55.58	-47.25	29.47	1694514.37	396082.80	39°34'56.707"N	80°35'01.948"W	55.68	148.048	0.66	0.54	3.97	
10605.00	5.850	155.640	10589.20	-65.32	-55.93	33.89	1694518.80	396074.11	39°34'56.621"N	80°35'01.890"W	65.40	148.788	0.61	0.28	5.48	
10686.00	5.800	156.280	10669.78	-73.52	-63.44	37.24	1694522.15	396066.60	39°34'56.548"N	80°35'01.846"W	73.56	149.587	0.10	-0.06	0.79	
10776.00	6.030	160.380	10759.30	-82.72	-72.06	40.66	1694525.56	396057.99	39°34'56.463"N	80°35'01.801"W	82.73	150.568	0.53	0.26	4.56	
10866.00	6.400	159.660	10848.77	-92.36	-81.21	43.99	1694528.89	396048.83	39°34'56.373"N	80°35'01.757"W	92.36	151.559	0.42	0.41	-0.80	
11006.00	7.840	160.860	10987.69	-109.51	-97.55	49.83	1694534.74	396032.50	39°34'56.212"N	80°35'01.680"W	109.54	152.942	1.03	1.03	0.86	
11138.00	9.200	165.000	11118.23	-128.66	-116.25	55.51	1694540.42	396013.80	39°34'56.028"N	80°35'01.604"W	128.82	154.474	1.13	1.03	3.14	



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REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT	Slot	Slot 513845
Area	Wetzel County, WV	Well	Big 177 513845 ST01
Field	Wetzel	Wellbore	Big 177 513845 ST01 AWP
Facility	Big 177 Pad	Sidetrack from	Big 177 513845 AWP Proj: 12565' at 11006.00 MD

WELLPATH DATA (212 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]
11227.00	8.900	167.200	11206.12	-142.20	-129.83	58.88	1694543.79	396000.21	39°34'55.894"N	80°35'01.559"W	142.56	155.606	0.51	-0.34	2.47
11287.00	6.180	163.780	11265.60	-149.83	-137.46	60.81	1694545.72	395992.59	39°34'55.819"N	80°35'01.533"W	150.31	156.137	4.59	-4.53	-5.70
11332.00	3.080	132.520	11310.45	-153.34	-140.61	62.38	1694547.28	395989.44	39°34'55.788"N	80°35'01.513"W	153.82	156.076	8.64	-6.89	-69.47
11377.00	3.020	107.400	11355.39	-155.34	-141.78	64.40	1694549.31	395988.27	39°34'55.777"N	80°35'01.487"W	155.72	155.571	2.95	-0.13	-55.82
11421.00	4.810	102.840	11399.29	-157.39	-142.54	67.31	1694552.21	395987.51	39°34'55.769"N	80°35'01.450"W	157.63	154.723	4.13	4.07	-10.36
11466.00	6.340	102.050	11444.07	-160.24	-143.47	71.58	1694556.48	395986.58	39°34'55.761"N	80°35'01.395"W	160.34	153.487	3.40	3.40	-1.76
11511.00	3.530	98.650	11488.90	-162.69	-144.20	75.38	1694560.28	395985.85	39°34'55.754"N	80°35'01.346"W	162.71	152.403	6.28	-6.24	-7.56
11556.00	0.480	306.320	11533.88	-163.36	-144.30	76.59	1694561.50	395985.75	39°34'55.753"N	80°35'01.331"W	163.37	152.040	8.80	-6.78	-338.51
11601.00	5.670	304.540	11578.80	-161.21	-142.92	74.61	1694569.51	395987.12	39°34'55.766"N	80°35'01.356"W	161.23	152.435	11.53	11.53	-3.96
11645.00	8.480	312.350	11622.46	-156.21	-139.51	70.42	1694555.33	395990.54	39°34'55.800"N	80°35'01.410"W	156.27	153.216	6.74	6.39	17.75
11690.00	11.110	319.920	11666.80	-148.82	-133.95	65.18	1694550.08	395996.10	39°34'55.854"N	80°35'01.478"W	148.97	154.054	6.50	5.84	16.82
11735.00	12.800	319.750	11710.82	-139.70	-126.83	59.16	1694544.07	396003.22	39°34'55.924"N	80°35'01.556"W	139.95	154.992	3.76	3.76	-0.38
11780.00	16.100	318.930	11754.39	-128.73	-118.32	51.84	1694536.75	396011.73	39°34'56.007"N	80°35'01.651"W	129.18	156.340	7.35	7.33	-1.82
11825.00	21.060	320.240	11797.04	-114.70	-107.39	42.56	1694527.47	396022.65	39°34'56.114"N	80°35'01.771"W	115.52	158.379	11.06	11.02	2.91
11870.00	24.910	324.340	11838.46	-97.36	-93.47	31.86	1694516.77	396036.57	39°34'56.250"N	80°35'01.910"W	98.75	161.176	9.26	8.56	9.11
11915.00	26.430	327.240	11879.02	-77.97	-77.35	20.92	1694505.83	396052.70	39°34'56.408"N	80°35'02.052"W	80.13	164.866	4.38	3.38	6.44
11960.00	28.440	325.610	11918.95	-57.33	-60.08	9.45	1694494.36	396069.96	39°34'56.577"N	80°35'02.201"W	60.82	171.065	4.77	4.47	-3.62
12004.00	31.720	323.040	11957.02	-35.46	-42.19	-3.43	1694481.48	396087.86	39°34'56.753"N	80°35'02.368"W	42.33	184.649	8.01	7.45	-5.84
12049.00	36.720	323.350	11994.22	-10.43	-21.93	-18.58	1694466.33	396108.11	39°34'56.951"N	80°35'02.565"W	28.74	220.280	11.12	11.11	0.69
12094.00	41.500	326.310	12029.13	17.75	1.29	-34.89	1694450.02	396131.33	39°34'57.179"N	80°35'02.777"W	34.92	272.110	11.40	10.62	6.58
12139.00	46.100	330.500	12061.61	48.83	27.82	-51.16	1694433.75	396157.86	39°34'57.439"N	80°35'02.989"W	58.24	298.537	12.08	10.22	9.31
12184.00	50.840	329.910	12091.44	82.50	57.04	-67.90	1694417.01	396187.08	39°34'57.726"N	80°35'03.207"W	88.68	310.034	10.58	10.53	-1.31
12228.00	56.300	327.570	12117.56	117.84	87.28	-86.28	1694398.63	396217.31	39°34'58.022"N	80°35'03.447"W	122.73	315.328	13.12	12.41	-5.32
12273.00	61.600	327.440	12140.76	156.28	119.78	-106.99	1694377.93	396249.81	39°34'58.341"N	80°35'03.716"W	160.61	318.229	11.78	11.78	-0.29
12318.00	67.000	329.600	12160.27	196.76	154.36	-128.14	1694356.78	396284.39	39°34'58.680"N	80°35'03.991"W	200.61	320.302	12.75	12.00	4.80
12363.00	72.010	333.190	12176.03	238.89	191.35	-148.29	1694336.63	396321.38	39°34'59.043"N	80°35'04.254"W	242.09	322.226	13.41	11.13	7.98
12408.00	78.120	333.850	12187.62	282.32	230.25	-167.66	1694317.26	396360.28	39°34'59.426"N	80°35'04.508"W	284.83	323.939	13.65	13.58	1.47
12453.00	78.930	333.850	12196.57	326.39	269.84	-187.10	1694297.82	396399.86	39°34'59.814"N	80°35'04.762"W	328.36	325.264	1.80	1.80	0.00
12497.00	81.860	332.770	12203.91	369.74	308.60	-206.59	1694278.34	396438.62	39°35'00.195"N	80°35'05.017"W	371.36	326.200	7.09	6.66	-2.45
12542.00	85.440	331.030	12208.89	414.46	348.04	-227.65	1694257.27	396478.06	39°35'00.582"N	80°35'05.292"W	415.88	326.812	8.83	7.96	-3.87



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REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT	Slot	Slot 513845
Area	Wetzel County, WV	Well	Big 177 513845 ST01
Field	Wetzel	Wellbore	Big 177 513845 ST01 AWP
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WELLPATH DATA (212 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]
12632.00	89.940	329.640	12212.51	504.34	426.16	-272.15	1694212.78	396556.17	39°35'01.349"N	80°35'05.872"W	505.64	327.438	5.23	5.00	-1.54
12722.00	88.990	332.410	12213.36	594.32	504.88	-315.74	1694169.19	396634.89	39°35'02.122"N	80°35'06.441"W	595.48	327.979	3.25	-1.06	3.08
12811.00	88.650	333.840	12215.19	683.27	584.25	-355.96	1694128.97	396714.25	39°35'02.901"N	80°35'06.967"W	684.14	328.648	1.65	-0.38	1.61
12901.00	88.830	334.620	12217.17	773.15	665.28	-395.08	1694089.86	396795.28	39°35'03.698"N	80°35'07.479"W	773.74	329.296	0.89	0.20	0.87
12990.00	88.880	334.250	12219.10	862.01	745.54	-433.48	1694051.46	396875.54	39°35'04.486"N	80°35'07.982"W	862.40	329.825	0.45	-0.17	-0.42
13080.00	89.510	331.650	12220.52	951.96	825.68	-474.40	1694010.54	396955.67	39°35'05.273"N	80°35'08.517"W	952.26	330.120	3.03	0.92	-2.89
13170.00	92.650	329.900	12218.83	1041.93	904.20	-518.32	1693966.62	397034.18	39°35'06.044"N	80°35'09.090"W	1042.23	330.177	3.99	3.49	-1.94
13259.00	94.220	331.420	12213.49	1130.75	981.64	-561.85	1693923.09	397111.62	39°35'06.804"N	80°35'09.658"W	1131.06	330.215	2.45	1.76	1.71
13349.00	90.060	331.490	12210.13	1220.67	1060.63	-604.82	1693880.13	397190.60	39°35'07.579"N	80°35'10.219"W	1220.95	330.306	4.62	-4.62	0.08
13439.00	89.690	331.950	12210.33	1310.67	1139.88	-647.46	1693837.49	397269.85	39°35'08.358"N	80°35'10.776"W	1310.93	330.403	0.66	-0.41	0.51
13528.00	89.750	332.590	12210.76	1399.66	1218.66	-688.87	1693796.08	397348.63	39°35'09.131"N	80°35'11.317"W	1399.88	330.522	0.72	0.07	0.72
13618.00	89.910	332.900	12211.03	1489.64	1298.67	-730.08	1693754.87	397428.63	39°35'09.917"N	80°35'11.856"W	1489.82	330.656	0.39	0.18	0.34
13708.00	90.220	330.590	12210.93	1579.63	1377.94	-772.69	1693712.27	397507.89	39°35'10.695"N	80°35'12.412"W	1579.80	330.718	2.59	0.34	-2.57
13797.00	90.800	329.720	12210.14	1668.60	1455.13	-816.98	1693667.98	397585.08	39°35'11.453"N	80°35'12.990"W	1668.79	330.688	1.17	0.65	-0.98
13887.00	90.650	331.310	12209.00	1758.57	1533.47	-861.27	1693623.69	397663.41	39°35'12.222"N	80°35'13.567"W	1758.78	330.679	1.77	-0.17	1.77
13977.00	90.800	332.070	12207.86	1848.57	1612.69	-903.95	1693581.02	397742.64	39°35'13.000"N	80°35'14.125"W	1848.76	330.728	0.86	0.17	0.84
14066.00	90.770	331.910	12206.64	1937.56	1691.26	-945.74	1693539.23	397821.20	39°35'13.771"N	80°35'14.671"W	1937.73	330.786	0.18	-0.03	-0.18
14156.00	90.770	331.600	12205.43	2027.55	1770.54	-988.33	1693496.64	397900.47	39°35'14.549"N	80°35'15.227"W	2027.71	330.829	0.34	0.00	-0.34
14246.00	90.680	332.980	12204.29	2117.53	1850.21	-1030.17	1693454.80	397980.13	39°35'15.332"N	80°35'15.774"W	2117.67	330.891	1.54	-0.10	1.53
14335.00	90.310	333.100	12203.52	2206.50	1929.53	-1070.52	1693414.45	398059.45	39°35'16.111"N	80°35'16.301"W	2206.61	330.978	0.44	-0.42	0.13
14425.00	90.180	332.820	12203.14	2296.47	2009.69	-1111.44	1693373.54	398139.61	39°35'16.898"N	80°35'16.836"W	2296.55	331.056	0.34	-0.14	-0.31
14514.00	90.620	332.510	12202.52	2385.45	2088.75	-1152.30	1693332.68	398218.67	39°35'17.674"N	80°35'17.370"W	2385.52	331.116	0.60	0.49	-0.35
14604.00	90.550	330.610	12201.60	2475.44	2167.88	-1195.16	1693289.82	398297.79	39°35'18.451"N	80°35'17.930"W	2475.51	331.132	2.11	-0.08	-2.11
14694.00	90.650	330.380	12200.66	2565.42	2246.21	-1239.48	1693245.50	398376.11	39°35'19.220"N	80°35'18.508"W	2565.50	331.110	0.28	0.11	-0.26
14783.00	90.580	330.770	12199.70	2654.40	2323.72	-1283.20	1693201.78	398453.62	39°35'19.981"N	80°35'19.079"W	2654.49	331.092	0.45	-0.08	0.44
14873.00	91.290	331.710	12198.23	2744.39	2402.61	-1326.50	1693158.49	398532.50	39°35'20.755"N	80°35'19.644"W	2744.47	331.097	1.31	0.79	1.04
14963.00	91.200	332.690	12196.28	2834.36	2482.20	-1368.47	1693116.53	398612.09	39°35'21.537"N	80°35'20.192"W	2834.43	331.132	1.09	-0.10	1.09
15052.00	91.380	332.840	12194.27	2923.32	2561.31	-1409.18	1693075.81	398691.20	39°35'22.314"N	80°35'20.724"W	2923.38	331.181	0.26	0.20	0.17
15142.00	92.770	333.070	12191.01	3013.23	2641.42	-1450.08	1693034.92	398771.30	39°35'23.100"N	80°35'21.259"W	3013.27	331.234	1.57	1.54	0.26
15232.00	92.990	332.030	12186.49	3103.10	2721.18	-1491.51	1692993.49	398851.06	39°35'23.884"N	80°35'21.801"W	3103.14	331.272	1.18	0.24	-1.16



Where energy meets innovation.

Actual Wellpath Report

Big 177 513845 ST01 AWP Proj: 17923'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT	Slot	Slot 513845
Area	Wetzel County, WV	Well	Big 177 513845 ST01
Field	Wetzel	Wellbore	Big 177 513845 ST01 AWP
Facility	Big 177 Pad	Sidetrack from	Big 177 513845 AWP Proj: 12565' at 11006.00 MD

WELLPATH DATA (212 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]
15321.00	93.080	331.320	12181.78	3191.97	2799.42	-1533.68	1692951.32	398929.29	39°35'24.652"N	80°35'22.351"W	3192.01	331.284	0.80	0.10	-0.80
15411.00	89.630	331.240	12179.65	3281.93	2878.31	-1576.91	1692908.09	399008.18	39°35'25.426"N	80°35'22.916"W	3281.97	331.283	3.83	-3.83	-0.09
15500.00	87.790	332.930	12181.66	3370.90	2956.93	-1618.56	1692866.44	399086.79	39°35'26.198"N	80°35'23.460"W	3370.93	331.305	2.81	-2.07	1.90
15590.00	87.750	332.210	12185.16	3460.82	3036.75	-1659.99	1692825.02	399166.60	39°35'26.982"N	80°35'24.001"W	3460.84	331.337	0.80	-0.04	-0.80
15680.00	87.660	331.510	12188.76	3550.74	3116.05	-1702.40	1692782.61	399245.90	39°35'27.761"N	80°35'24.555"W	3550.76	331.351	0.78	-0.10	-0.78
15769.00	89.420	330.670	12191.03	3639.71	3193.93	-1745.41	1692739.60	399323.77	39°35'28.525"N	80°35'25.117"W	3639.73	331.344	2.19	1.98	-0.94
15859.00	89.540	331.110	12191.85	3729.70	3272.55	-1789.20	1692695.82	399402.40	39°35'29.297"N	80°35'25.688"W	3729.72	331.333	0.51	0.13	0.49
15949.00	89.480	331.220	12192.62	3819.69	3351.39	-1832.60	1692652.42	399481.23	39°35'30.071"N	80°35'26.255"W	3819.72	331.329	0.14	-0.07	0.12
16038.00	89.510	330.750	12193.40	3908.68	3429.22	-1875.77	1692609.26	399559.05	39°35'30.835"N	80°35'26.818"W	3908.71	331.322	0.53	0.03	-0.53
16128.00	89.510	330.580	12194.17	3998.67	3507.68	-1919.86	1692565.17	399637.50	39°35'31.605"N	80°35'27.394"W	3998.71	331.307	0.19	0.00	-0.19
16218.00	90.220	330.540	12194.38	4088.66	3586.05	-1964.09	1692520.94	399715.87	39°35'32.374"N	80°35'27.971"W	4088.70	331.290	0.79	0.79	-0.04
16307.00	90.310	330.490	12193.97	4177.64	3663.53	-2007.90	1692477.13	399793.34	39°35'33.135"N	80°35'28.542"W	4177.69	331.274	0.12	0.10	-0.06
16397.00	90.180	330.540	12193.59	4267.62	3741.87	-2052.20	1692432.84	399871.68	39°35'33.903"N	80°35'29.120"W	4267.68	331.258	0.15	-0.14	0.06
16487.00	90.550	330.510	12193.01	4357.61	3820.22	-2096.48	1692388.56	399950.03	39°35'34.672"N	80°35'29.698"W	4357.67	331.243	0.41	0.41	-0.03
16577.00	90.710	329.640	12192.02	4447.57	3898.21	-2141.37	1692343.67	400028.02	39°35'35.438"N	80°35'30.284"W	4447.65	331.219	0.98	0.18	-0.97
16666.00	90.860	328.680	12190.80	4536.48	3974.62	-2186.99	1692298.05	400104.42	39°35'36.187"N	80°35'30.878"W	4536.58	331.179	1.09	0.17	-1.08
16755.00	91.380	327.620	12189.06	4625.31	4050.21	-2233.95	1692251.10	400180.00	39°35'36.929"N	80°35'31.490"W	4625.44	331.120	1.33	0.58	-1.19
16845.00	90.180	328.340	12187.84	4715.12	4126.50	-2281.66	1692203.39	400256.29	39°35'37.677"N	80°35'32.111"W	4715.30	331.061	1.55	-1.33	0.80
16888.00	89.780	329.300	12187.85	4758.08	4163.29	-2303.92	1692181.13	400293.08	39°35'38.038"N	80°35'32.401"W	4758.26	331.040	2.42	-0.93	2.23
16935.00	90.000	330.400	12187.94	4805.05	4203.93	-2327.53	1692157.52	400333.72	39°35'38.437"N	80°35'32.709"W	4805.25	331.029	2.39	0.47	2.34
17024.00	89.910	332.080	12188.01	4894.05	4281.95	-2370.35	1692114.70	400411.73	39°35'39.203"N	80°35'33.268"W	4894.25	331.032	1.89	-0.10	1.89
17114.00	88.950	332.870	12188.91	4984.03	4361.76	-2411.94	1692073.12	400491.53	39°35'39.986"N	80°35'33.811"W	4984.21	331.059	1.38	-1.07	0.88
17204.00	88.920	335.680	12190.58	5073.90	4442.82	-2450.99	1692034.06	400572.59	39°35'40.783"N	80°35'34.323"W	5074.05	331.116	3.12	-0.03	3.12
17293.00	90.060	337.060	12191.37	5162.58	4524.35	-2486.67	1691998.40	400654.11	39°35'41.584"N	80°35'34.791"W	5162.68	331.206	2.01	1.28	1.55
17383.00	90.000	339.510	12191.33	5251.96	4607.95	-2519.96	1691965.10	400737.71	39°35'42.406"N	80°35'35.230"W	5251.99	331.327	2.72	-0.07	2.72
17473.00	90.180	333.470	12191.19	5341.58	4690.44	-2555.85	1691929.22	400820.20	39°35'43.217"N	80°35'35.701"W	5341.59	331.414	6.71	0.20	-6.71
17562.00	90.400	335.450	12190.73	5430.46	4770.74	-2594.22	1691890.85	400900.49	39°35'44.006"N	80°35'36.203"W	5430.46	331.464	2.24	0.25	2.22
17652.00	90.460	335.950	12190.06	5520.22	4852.77	-2631.25	1691853.82	400982.51	39°35'44.812"N	80°35'36.689"W	5520.22	331.533	0.56	0.07	0.56
17741.00	90.460	333.210	12189.34	5609.08	4933.14	-2669.45	1691815.62	401062.88	39°35'45.602"N	80°35'37.190"W	5609.08	331.581	3.08	0.00	-3.08
17831.00	90.490	331.510	12188.60	5699.07	5012.86	-2711.20	1691773.88	401142.60	39°35'46.385"N	80°35'37.735"W	5699.07	331.593	1.89	0.03	-1.89



Where energy meets innovation.

Actual Wellpath Report

Big 177 513845 ST01 AWP Proj: 17923'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT	Slot	Slot 513845
Area	Wetzel County, WV	Well	Big 177 513845 ST01
Field	Wetzel	Wellbore	Big 177 513845 ST01 AWP
Facility	Big 177 Pad	Sidetrack from	Big 177 513845 AWP Proj: 12565' at 11006.00 MD

WELLPATH DATA (212 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]
17890.00	90.430	331.910	12188.12	5758.07	5064.81	-2739.16	1691745.92	401194.55	39°35'46.895"N	80°35'38.100"W	5758.07	331.595	0.69	-0.10	0.68
17923.00	90.430	331.910	12187.88	5791.06	5093.93	-2754.70	1691730.38	401223.66	39°35'47.181"N	80°35'38.303"W	5791.07	331.596	0.00	0.00	0.00

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Big 177 513845 BHL Rev-2	12018.65	5082.46	-2753.54	1691731.54	401212.19	39°35'47.068"N	80°35'38.287"W	point
Big 177 513845 LP Rev-2	12205.00	377.35	-235.58	1694249.35	396507.36	39°35'00.871"N	80°35'05.398"W	point
513845 HL Pt1	12500.00	3902.70	-3009.70	1691475.39	400032.50	39°35'35.378"N	80°35'41.375"W	point
513845 HL Pt10	12500.00	375.17	455.43	1694940.31	396505.19	39°35'00.932"N	80°34'56.573"W	point
513845 HL Pt11	12500.00	-169.70	582.93	1695067.80	395960.35	39°34'55.562"N	80°34'54.861"W	point
513845 HL Pt12	12500.00	14.20	-791.70	1693693.26	396144.24	39°34'57.216"N	80°35'12.444"W	point
513845 HL Pt13	12500.00	115.24	-807.11	1693677.85	396245.27	39°34'58.213"N	80°35'12.657"W	point
513845 HL Pt14	12500.00	100.37	-905.50	1693579.47	396230.40	39°34'58.054"N	80°35'13.911"W	point
513845 HL Pt15	12500.00	5140.00	-2493.70	1691991.36	401269.73	39°35'47.667"N	80°35'34.977"W	point
513845 HL Pt16	12500.00	5048.55	-3025.93	1691459.16	401178.28	39°35'46.700"N	80°35'41.761"W	point
513845 HL Pt17	12500.00	-1530.04	1643.53	1696128.34	394600.09	39°34'42.245"N	80°34'41.107"W	point
513845 HL Pt18	12500.00	-1445.40	1076.18	1695561.02	394684.73	39°34'43.014"N	80°34'48.365"W	point

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
513845 HL Pt19	12500.00	-1729.52	636.34	1695121.21	394400.63	39°34'40.154"N	80°34'53.939"W	point

TARGETS								
Name	TVD (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Shape
513845 HL P12	12500.00	4426.28	-3288.10	1691197.01	400556.05	39°35'40.518"N	80°35'45.013"W	point
513845 HL P120	12500.00	-1875.87	204.55	1694689.45	394254.28	39°34'38.656"N	80°34'59.430"W	point
513845 HL P121	12500.00	-1875.51	-105.75	1694379.17	394254.64	39°34'38.623"N	80°35'03.393"W	point
513845 HL P122	12500.00	-1781.95	-305.79	1694179.14	394348.20	39°34'39.523"N	80°35'05.962"W	point
513845 HL P123	12500.00	-1800.08	-505.70	1693979.24	394330.07	39°34'39.320"N	80°35'08.512"W	point
513845 HL P124	12500.00	-2257.28	-1381.36	1693103.63	393872.90	39°34'34.697"N	80°35'19.623"W	point
513845 HL P125	12500.00	-1572.16	-1892.53	1692592.50	394557.98	39°34'41.407"N	80°35'26.257"W	point
513845 HL P126	12500.00	-1391.46	-1891.67	1692593.36	394738.66	39°34'43.193"N	80°35'26.274"W	point
513845 HL P127	12500.00	-1040.53	-1421.30	1693063.70	395089.57	39°34'46.717"N	80°35'20.321"W	point
513845 HL P13	12500.00	7747.36	-6059.67	1688426.61	403876.93	39°36'13.003"N	80°36'20.937"W	point
513845 HL P14	12500.00	7573.43	-5303.25	1689181.98	403703.01	39°36'11.376"N	80°36'11.246"W	point

TARGETS								
Name	TVD (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Shape
513845 HL P15	12500.00	7664.97	-4607.22	1689877.97	404094.52	39°36'15.330"N	80°36'02.416"W	point
513845 HL P16	12500.00	8474.86	-4007.22	1690477.93	404604.38	39°36'20.442"N	80°35'54.831"W	point
513845 HL P17	12500.00	8815.88	-3178.15	1691308.95	404945.38	39°36'23.912"N	80°35'44.292"W	point
513845 HL P18	12500.00	1698.83	393.53	1694878.42	397828.77	39°35'14.006"N	80°34'57.567"W	point
513845 HL P19	12500.00	1418.42	-15.69	1694469.22	397548.37	39°35'11.186"N	80°35'02.750"W	point

WELLPATH COMPOSITION - Ref Wellbore: Big 177 513845 ST01 AWB				Ref Wellpath: Big 177 513845 ST01 AWP Proj: 17923			
Start MD (ft)	End MD (ft)	Positional Uncertainty Model	Log Name/Comment	Wellbore	Start MD (ft)	End MD (ft)	Positional Uncertainty Model
27.00	7135.00	Gyrodala standard - Drop gyro or Multi-shot	01_Gyrodala MS Gyro <12-1/4"> (100-7135)	Big 177 513845 AWB	7135.00	10866.00	ISCVSA MWD, Rev. 4 (Standard)
	10866.00	ISCVSA MWD, Rev. 4 (Standard)	02_ProDirectional MWD <12-1/4"> (7159-10866)	Big 177 513845 AWB	10866.00	11006.00	ISCVSA MWD, Rev. 4 (Standard)
	11006.00	ISCVSA MWD, Rev. 4 (Standard)	03_ProDirectional MWD <8-1/2"> (1006-12473)	Big 177 513845 AWB	11006.00	12497.00	OWSG EMS rev2 - Standard
	12497.00	OWSG EMS rev2 - Standard	04_Cathedral EM <8-1/2"> (11006)(1138-12497)	Big 177 513845 ST01 AWB	12497.00	17890.00	BHI AutoTrak Curve (Short)
	17890.00	BHI AutoTrak Curve (Short)	05_BHI AT Curve <8-1/2"> (12497)(12542-17890)	Big 177 513845 ST01 AWB	17890.00	17923.00	Blind Drilling (std)
	17923.00	Blind Drilling (std)	Projection to bit	Big 177 513845 ST01 AWB			



Where energy meets innovation.

Actual Wellpath Report

Big 177 513845 ST01 AWP Proj: 17923'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT	Slot	Slot 513845
Area	Wetzel County, WV	Well	Big 177 513845 ST01
Field	Wetzel	Wellbore	Big 177 513845 ST01 AWB
Facility	Big 177 Pad	Sidetrack from	Big 177 513845 AWP Proj: 12565' at 11006.00 MD

COMMENTS

Wellpath general comments

API: 47-103-03151-0100

BHI Job #: 8220432

Rig: Precision 110

Duration: 11/8/2016-11/23/2016

Gyrodata MS Gyro <12-1/4"> (100'-7135')

ProDirectional MWD <12-1/4"> (7135')(7159'-10866')

ProDirectional MWD <8-1/2"> (10866')(11006'-12473')

Cathedral EM <8-1/2"> (11006')(11138'-12497')

BHI AT Curve <8-1/2"> (12497')(12542'-17890')

Projected MD at TD: 17923'



EQT



Location: Weizel County, WV
Field: Weizel
Facility: Big 177 Pad

Slot: Slot 513845
Well: Big 177 513845 ST01
Wellbore: Big 177 513845 ST01 PWB

Gyrodata MS Gyro [OH] <12-1/4'> (100°-7135') : 0.40° Inc, 100.00ft MD, 100.00ft TVD, 0.08ft VS

Pit reference wellbore is Big 177 513845 ST01 PWB Rev 8.0	
True vertical depths are referenced to Precision 110 (RKB)	
North Reference: Grid North	
Measured depths are referenced to Precision 110 (RKB)	
Scale: True distance	
Precision 110 (RKB) to Mean Sea Level: 838 feet	
Mean Sea Level to Mud line (At Slot: Slot 513845): -811 feet	
Depths are in feet	
Created by: eschayze on 2016-12-02	
Contributors are in feet referenced to Slot	
Database: WA_MPL_EASTERNUS_Data	

Location Information			
Facility Name	Grid East (US ft)	Grid North (US ft)	Longitude
Big 177 Pad	1694464 910	39°34'57.170"N	80°35'02.331"W
Slot	Local E (ft)	Grid East (US ft)	Longitude
Slot 513845	0 00	1694464 910	80°35'02.331"W
Precision 110 (RKB) to Mud line (At Slot: Slot 513845)	27ft		
Mean Sea Level to Mud line (At Slot: Slot 513845)	-811ft		
Precision 110 (RKB) to Mean Sea Level	838ft		

Well Profile Data					
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)
The On	11006.00	7.840	160.860	10987.69	-97.55
Next Sky (proj)	11138.00	9.200	165.000	11118.23	-116.25
100' out of Csg/KOP	11165.00	9.108	165.652	11144.89	-120.40
End of 3D Arc	11265.00	6.444	124.458	11244.03	-131.26
Curve KOP	11500.25	6.444	124.458	11477.80	-146.19
Build	11975.08	31.830	322.760	11952.20	-58.32
Landing Pt	12581.12	92.000	331.846	12205.00	377.35
BHL	17820.87	92.000	331.846	12018.65	5062.46
					-2753.54
					0.00
					5760.43

Well Data	
Slot	Wellbore
Slot 513845	Big 177 513845 AWB
Slot 513845	Big 177 513845 ST01 AWB
Slot 513845	Big 177 513845 ST01 PWB
Slot 513845	Big 177 513845 ST01 PWB Rev-8.0

ProDirectional MWD [OH] <12-1/4'> (7135°)(159-10866') : 7.68° Inc, 7159.00ft MD, 7153.18ft TVD, -84.10ft VS

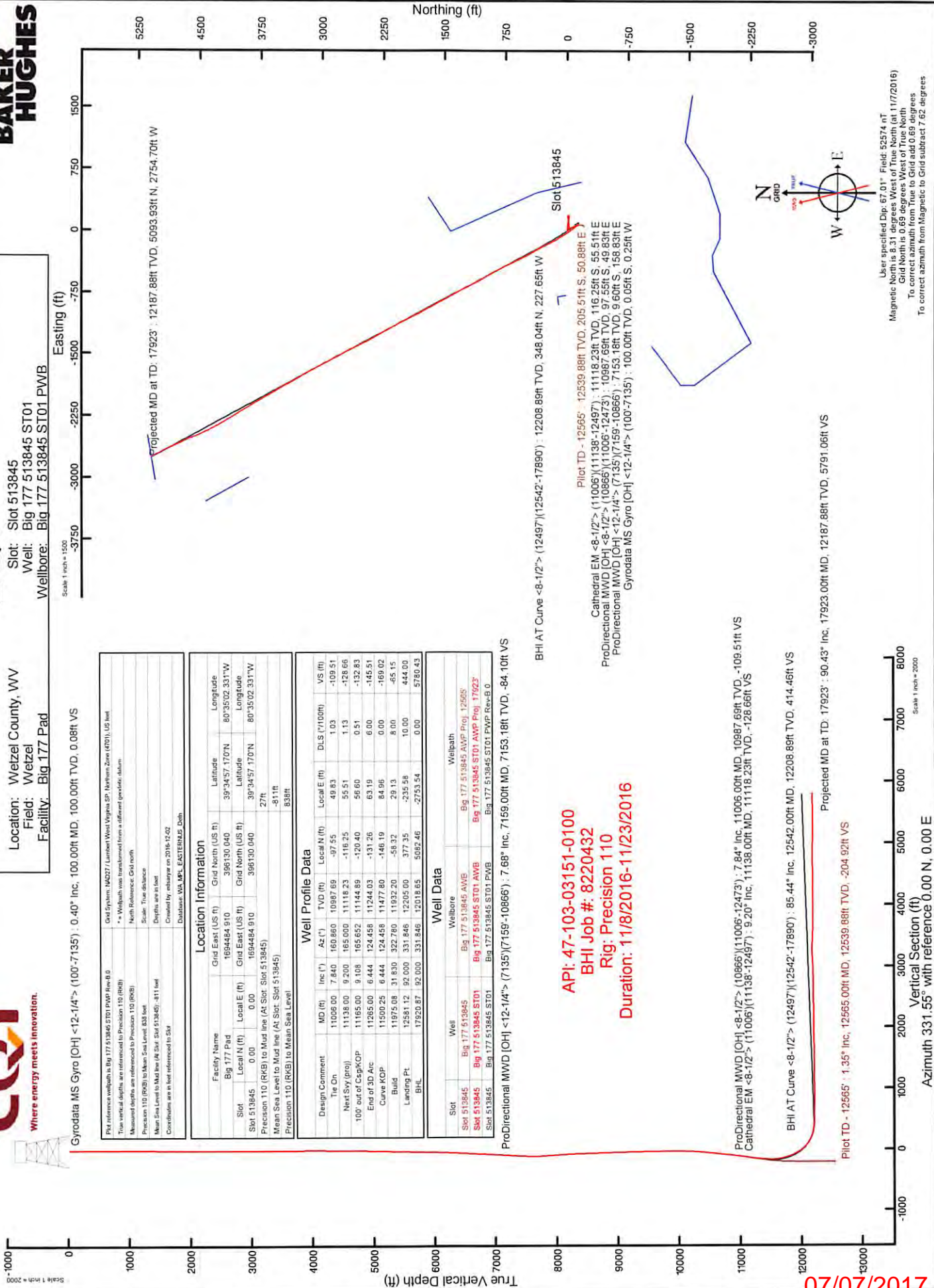
API: 47-103-03151-0100
BHI Job #: 8220432
Rig: Precision 110
Duration: 11/8/2016-11/23/2016

ProDirectional MWD [OH] <8-1/2'> (10866°)(11006-12473') : 7.84° Inc, 11006.00ft MD, 10987.69ft TVD, -109.51ft VS
Cathedral EM <8-1/2'> (11006°)(1138-12497') : 9.20° Inc, 11138.00ft MD, 11118.23ft TVD, -126.66ft VS

BHI AT Curve <8-1/2'> (12497°)(12542-17890') : 85.44° Inc, 12542.00ft MD, 12208.88ft TVD, 414.46ft VS

Projected MD at TD: 17923' : 90.43° Inc, 17923.00ft MD, 12187.88ft TVD, 5791.06ft VS

Pilot TD - 12565' : 1.35° Inc, 12565.00ft MD, 12539.88ft TVD, -204.92ft VS



User specified Dip: 67.01° Field: 52574 nt
Magnetic North is 8.31 degrees West of True North (at 11/7/2016)
Grid North is 0.69 degrees West of True North
To correct azimuth from True to Grid add 0.69 degrees
To correct azimuth from Magnetic to Grid subtract 7.62 degrees

07/07/2017