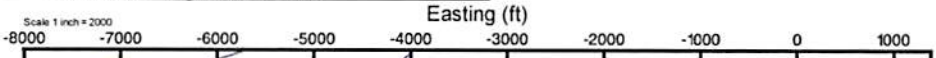


Location: Wetzel County, WV  
 Field: Wetzel  
 Facility: Big 177 Pad

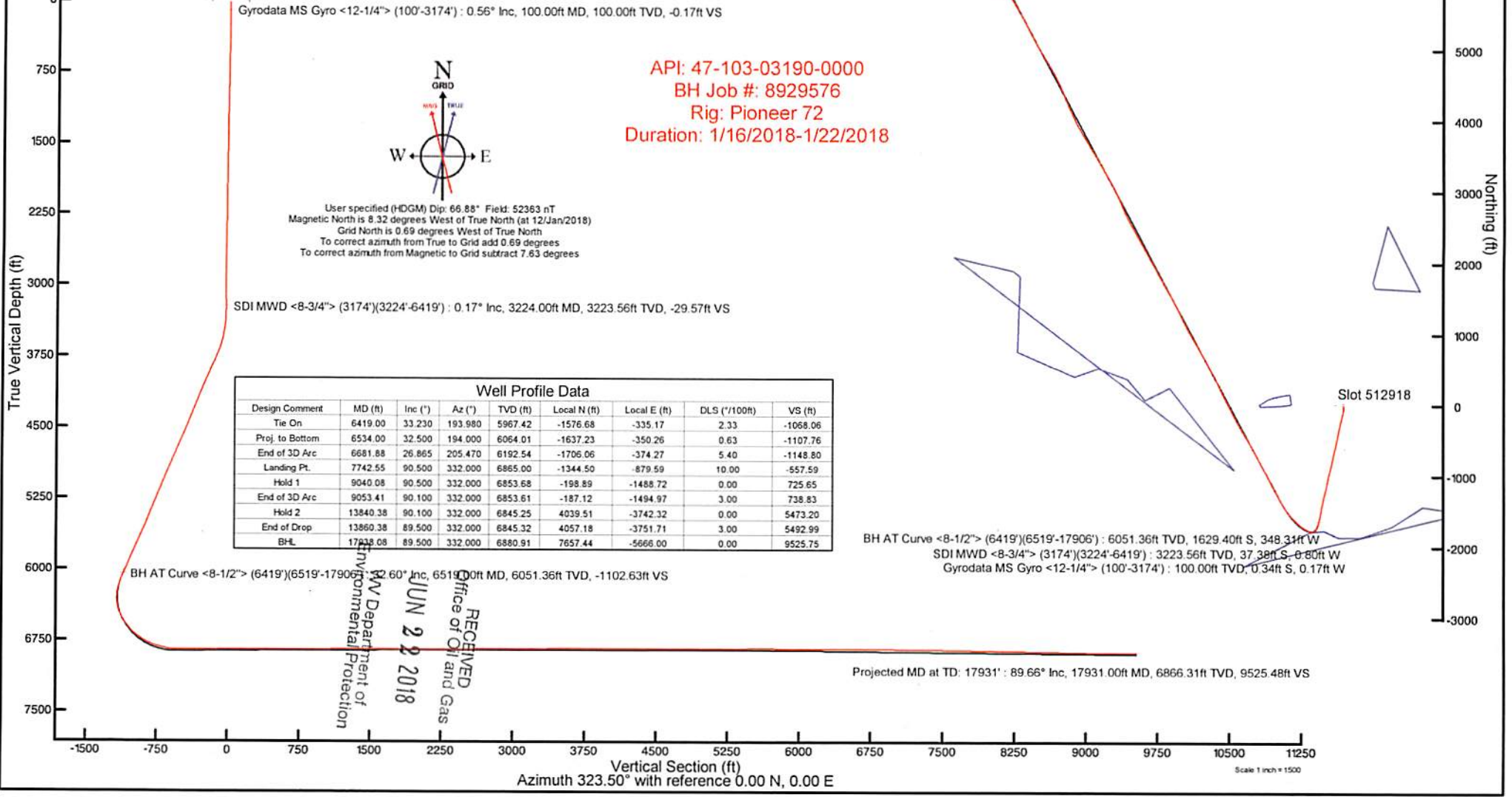
Slot: Slot 512918  
 Well: Big 177 H6  
 Wellbore: Big 177 H6 PWB

Plot reference wellpath is Big 177 H6 PWB Rev A.0	Grid System: NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet
True vertical depths are referenced to Pioneer 72 (RKB)	North Reference: Grid north
Measured depths are referenced to Pioneer 72 (RKB)	Scale: True distance
Pioneer 72 (RKB) to Mean Sea Level 834 feet	Depths are in feet
Mean Sea Level to Mud line (At Slot: Slot 512918) -811 feet	Created by: eduaray on 2018-01-29
Coordinates are in feet referenced to Slot	Database: WA_MPL_EASTERHUS_Delta

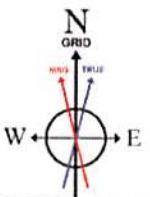


Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Big 177 Pad	1694484.910	396130.040	39°34'57.170"N	80°35'02.331"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot 512918	-24.67	-29.25	1694455.660	396105.370
Pioneer 72 (RKB) to Mud line (At Slot: Slot 512918)			23ft	
Mean Sea Level to Mud line (At Slot: Slot 512918)			-811ft	
Pioneer 72 (RKB) to Mean Sea Level			834ft	

Scale 1 inch = 1500



Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	6419.00	33.230	193.980	5967.42	-1576.68	-335.17	2.33	-1068.06
Proj. to Bottom	6534.00	32.500	194.000	6064.01	-1637.23	-350.26	0.63	-1107.76
End of 3D Arc	6681.88	26.865	205.470	6192.54	-1705.06	-374.27	5.40	-1148.80
Landing Pt.	7742.55	90.500	332.000	6865.00	-1344.50	-879.59	10.00	-557.59
Hold 1	9040.08	90.500	332.000	6853.68	-198.89	-1488.72	0.00	725.65
End of 3D Arc	9053.41	90.100	332.000	6853.61	-187.12	-1494.97	3.00	738.83
Hold 2	13840.38	90.100	332.000	6845.25	4039.51	-3742.32	0.00	5473.20
End of Drop	13860.38	89.500	332.000	6845.32	4057.18	-3751.71	3.00	5492.99
BHL	17938.08	89.500	332.000	6880.91	7657.44	-5666.00	0.00	9525.75



User specified (HDGM) Dip: 66.88° Field: 52363 nT  
 Magnetic North is 8.32 degrees West of True North (at 12/Jan/2018)  
 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 7.63 degrees

RECEIVED  
 Office of Oil and Gas  
 JUN 22 2018  
 WV Department of Environmental Protection

Vertical Section (ft)  
 Azimuth 323.50° with reference 0.00 N, 0.00 E

Scale 1 inch = 1500



Where energy meets innovation.

# Actual Wellpath Report

Big 177 H6 AWP Proj: 17931'

Page 1 of 11



## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT	Slot	Slot 512918
Area	Wetzel County, WV	Well	Big 177 H6
Field	Wetzel	Wellbore	Big 177 H6 AWB
Facility	Big 177 Pad	API:	47-103-03190

## REPORT SETUP INFORMATION

Projection System	NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchitect® 5.1
North Reference	Grid	User	Edsaryar
Scale	0.999941	Report Generated	29/Jan/2018 at 19:57
Convergence at slot	0.69° West	Database/Source file	WA_MPL_EASTERNUS_Defn/Big_177_H6_AWP_Proj_17931_.xml

## WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-24.67	-29.25	1694455.66	396105.37	39°34'56.923"N	80°35'02.701"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	Pioneer 72 (RKB) to Facility Vertical Datum	834.00ft
Horizontal Reference Pt	Slot	Pioneer 72 (RKB) to Mean Sea Level	834.00ft
Vertical Reference Pt	Pioneer 72 (RKB)	Pioneer 72 (RKB) to Mud Line at Slot (Slot 512918)	23.00ft
MD Reference Pt	Pioneer 72 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	323.50°

RECEIVED  
 Office of Oil and Gas  
 JUN 22 2018  
 WV Department of  
 Environmental Protection





Where energy meets innovation.

# Actual Wellpath Report

Big 177 H6 AWP Proj: 17931'

Page 2 of 11



## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT	Slot	Slot 512918
Area	Wetzel County, WV	Well	Big 177 H6
Field	Wetzel	Wellbore	Big 177 H6 AWB
Facility	Big 177 Pad		

## WELLPATH DATA (216 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	207.080	0.00	0.00	0.00	0.00	1694455.66	396105.37	39°34'56.923"N	80°35'02.701"W	0.00	0.000	0.00	0.00	0.00
23.00	0.000	207.080	23.00	0.00	0.00	0.00	1694455.66	396105.37	39°34'56.923"N	80°35'02.701"W	0.00	0.000	0.00	0.00	0.00
100.00	0.560	207.080	100.00	-0.17	-0.34	-0.17	1694455.49	396105.03	39°34'56.919"N	80°35'02.703"W	0.38	207.080	0.73	0.73	-198.60
200.00	0.730	195.900	199.99	-0.77	-1.38	-0.57	1694455.09	396103.99	39°34'56.909"N	80°35'02.708"W	1.50	202.341	0.21	0.17	-11.18
300.00	0.800	192.300	299.98	-1.62	-2.68	-0.89	1694454.77	396102.69	39°34'56.896"N	80°35'02.712"W	2.82	198.416	0.08	0.07	-3.60
400.00	1.070	186.630	399.97	-2.76	-4.29	-1.15	1694454.51	396101.08	39°34'56.880"N	80°35'02.715"W	4.44	194.992	0.29	0.27	-5.67
500.00	1.270	191.680	499.95	-4.18	-6.30	-1.48	1694454.18	396099.07	39°34'56.860"N	80°35'02.719"W	6.47	193.222	0.22	0.20	5.05
600.00	1.400	199.200	599.92	-5.61	-8.54	-2.11	1694453.55	396096.83	39°34'56.838"N	80°35'02.727"W	8.79	193.857	0.22	0.13	7.52
700.00	1.630	205.380	699.89	-6.97	-10.98	-3.12	1694452.54	396094.39	39°34'56.814"N	80°35'02.739"W	11.41	195.855	0.28	0.23	6.18
800.00	1.810	208.370	799.84	-8.31	-13.65	-4.48	1694451.18	396091.72	39°34'56.787"N	80°35'02.756"W	14.37	198.159	0.20	0.18	2.99
900.00	1.730	200.330	899.79	-9.81	-16.46	-5.75	1694449.91	396088.91	39°34'56.759"N	80°35'02.772"W	17.43	199.267	0.26	-0.08	-8.04
1000.00	1.680	194.140	999.75	-11.56	-19.29	-6.64	1694449.03	396086.08	39°34'56.731"N	80°35'02.783"W	20.40	198.978	0.19	-0.05	-6.19
1100.00	1.380	189.990	1099.71	-13.32	-21.90	-7.20	1694448.46	396083.47	39°34'56.705"N	80°35'02.790"W	23.06	198.203	0.32	-0.30	-4.15
1200.00	1.190	189.640	1199.69	-14.87	-24.11	-7.58	1694448.08	396081.26	39°34'56.684"N	80°35'02.794"W	25.28	197.463	0.19	-0.19	-0.35
1300.00	0.810	179.700	1299.67	-16.16	-25.84	-7.75	1694447.91	396079.53	39°34'56.666"N	80°35'02.796"W	26.98	196.704	0.42	-0.38	-9.94
1400.00	0.890	175.620	1399.66	-17.39	-27.32	-7.69	1694447.97	396078.05	39°34'56.652"N	80°35'02.795"W	28.38	195.723	0.10	0.08	-4.08
1500.00	0.830	169.320	1499.65	-18.70	-28.81	-7.50	1694448.16	396076.56	39°34'56.637"N	80°35'02.792"W	29.77	194.589	0.11	-0.06	-6.30
1600.00	0.780	165.170	1599.64	-19.98	-30.18	-7.19	1694448.47	396075.19	39°34'56.624"N	80°35'02.788"W	31.02	193.401	0.08	-0.05	-4.15
1700.00	0.850	164.410	1699.63	-21.31	-31.55	-6.82	1694448.84	396073.82	39°34'56.610"N	80°35'02.783"W	32.28	192.191	0.07	0.07	-0.76
1800.00	0.840	153.670	1799.62	-22.72	-32.92	-6.29	1694449.37	396072.45	39°34'56.597"N	80°35'02.776"W	33.52	190.820	0.16	-0.01	-10.74
1900.00	0.960	139.330	1899.61	-24.28	-34.21	-5.42	1694450.24	396071.16	39°34'56.584"N	80°35'02.765"W	34.64	189.003	0.25	0.12	-14.34
2000.00	0.980	132.030	1999.59	-25.95	-35.42	-4.24	1694451.42	396069.95	39°34'56.572"N	80°35'02.750"W	35.68	186.825	0.13	0.02	-7.30
2100.00	0.830	130.950	2099.58	-27.50	-36.47	-3.06	1694452.60	396068.90	39°34'56.562"N	80°35'02.734"W	36.60	184.792	0.15	-0.15	-1.08
2200.00	0.650	130.390	2199.57	-28.76	-37.31	-2.08	1694453.58	396068.06	39°34'56.554"N	80°35'02.722"W	37.37	183.188	0.18	-0.18	-0.56
2300.00	0.320	130.910	2299.57	-29.58	-37.86	-1.44	1694454.22	396067.51	39°34'56.548"N	80°35'02.713"W	37.89	182.171	0.33	-0.33	0.52
2400.00	0.280	128.380	2399.57	-30.09	-38.20	-1.03	1694454.63	396067.18	39°34'56.545"N	80°35'02.708"W	38.21	181.549	0.04	-0.04	-2.53
2500.00	0.180	123.940	2499.57	-30.47	-38.44	-0.71	1694454.95	396066.94	39°34'56.543"N	80°35'02.704"W	38.44	181.060	0.10	-0.10	-4.44
2600.00	0.110	129.800	2599.57	-30.72	-38.59	-0.51	1694455.15	396066.79	39°34'56.541"N	80°35'02.701"W	38.59	180.753	0.07	-0.07	5.86
2700.00	0.050	55.480	2699.57	-30.81	-38.62	-0.40	1694455.26	396066.75	39°34'56.541"N	80°35'02.700"W	38.62	180.589	0.11	-0.06	-74.32
2800.00	0.110	13.510	2799.57	-30.75	-38.50	-0.34	1694455.32	396066.87	39°34'56.542"N	80°35'02.699"W	38.51	180.504	0.08	0.06	-41.97

RECEIVED  
Office of Oil and Gas  
JUN 22 2018  
WV Department of  
Environmental Protection





Where energy meets innovation.

# Actual Wellpath Report

Big 177 H6 AWP Proj: 17931'

Page 3 of 11



## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT	Slot	Slot 512918
Area	Wetzel County, WV	Well	Big 177 H6
Field	Wetzel	Wellbore	Big 177 H6 AWB
Facility	Big 177 Pad		

## WELLPATH DATA (216 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	0.110	14.730	2899.57	-30.63	-38.32	-0.29	1694455.37	396067.05	39°34'56.544"N	80°35'02.699"W	38.32	180.437	0.00	0.00	1.22
3000.00	0.190	346.290	2999.57	-30.42	-38.06	-0.31	1694455.35	396067.31	39°34'56.547"N	80°35'02.699"W	38.07	180.462	0.11	0.08	-28.44
3100.00	0.270	328.510	3099.57	-30.03	-37.70	-0.47	1694455.19	396067.67	39°34'56.550"N	80°35'02.701"W	37.71	180.713	0.11	0.08	-17.78
3174.00	0.220	316.810	3173.57	-29.71	-37.45	-0.66	1694455.00	396067.92	39°34'56.553"N	80°35'02.704"W	37.46	181.006	0.10	-0.07	-15.81
3224.00	0.170	273.040	3223.56	-29.57	-37.38	-0.80	1694454.86	396068.00	39°34'56.553"N	80°35'02.705"W	37.38	181.222	0.31	-0.10	-87.54
3255.00	0.470	206.690	3254.56	-29.60	-37.49	-0.90	1694454.76	396067.89	39°34'56.552"N	80°35'02.707"W	37.50	181.376	1.39	0.97	-214.03
3287.00	1.240	198.520	3286.56	-29.86	-37.93	-1.07	1694454.59	396067.44	39°34'56.548"N	80°35'02.709"W	37.95	181.615	2.43	2.41	-25.53
3319.00	3.040	191.820	3318.54	-30.62	-39.09	-1.35	1694454.31	396066.28	39°34'56.536"N	80°35'02.712"W	39.12	181.982	5.67	5.62	-20.94
3350.00	5.040	189.130	3349.46	-32.12	-41.24	-1.74	1694453.92	396064.13	39°34'56.515"N	80°35'02.717"W	41.28	182.413	6.48	6.45	-8.68
3382.00	7.080	188.250	3381.28	-34.50	-44.58	-2.24	1694453.42	396060.79	39°34'56.482"N	80°35'02.723"W	44.64	182.881	6.38	6.37	-2.75
3414.00	9.100	187.390	3412.96	-37.73	-49.04	-2.85	1694452.81	396056.33	39°34'56.438"N	80°35'02.730"W	49.13	183.328	6.32	6.31	-2.69
3445.00	10.960	188.270	3443.48	-41.59	-54.39	-3.59	1694452.07	396050.98	39°34'56.385"N	80°35'02.738"W	54.51	183.778	6.02	6.00	2.84
3477.00	12.310	190.040	3474.82	-46.09	-60.76	-4.62	1694451.04	396044.61	39°34'56.322"N	80°35'02.751"W	60.94	184.352	4.36	4.22	5.53
3509.00	14.080	191.220	3505.98	-51.06	-67.94	-5.98	1694449.68	396037.44	39°34'56.251"N	80°35'02.767"W	68.20	185.027	5.59	5.53	3.69
3540.00	16.690	191.270	3535.87	-56.59	-76.00	-7.58	1694448.08	396029.37	39°34'56.171"N	80°35'02.786"W	76.38	185.695	8.42	8.42	0.16
3572.00	19.380	190.720	3566.29	-63.28	-85.73	-9.47	1694446.19	396019.65	39°34'56.074"N	80°35'02.809"W	86.25	186.301	8.42	8.41	-1.72
3604.00	22.300	190.730	3596.19	-71.01	-96.91	-11.58	1694444.08	396008.46	39°34'55.964"N	80°35'02.834"W	97.60	186.816	9.13	9.12	0.03
3635.00	25.220	191.180	3624.56	-79.46	-109.17	-13.96	1694441.70	395996.20	39°34'55.842"N	80°35'02.862"W	110.06	187.287	9.44	9.42	1.45
3667.00	27.670	192.580	3653.21	-88.91	-123.12	-16.90	1694438.76	395982.26	39°34'55.704"N	80°35'02.898"W	124.27	187.817	7.90	7.66	4.38
3699.00	30.960	194.710	3681.11	-98.94	-138.33	-20.61	1694435.05	395967.05	39°34'55.553"N	80°35'02.943"W	139.86	188.474	10.78	10.28	6.66
3730.00	33.550	195.120	3707.33	-109.26	-154.32	-24.87	1694430.79	395951.06	39°34'55.395"N	80°35'02.995"W	156.31	189.155	8.38	8.35	1.32
3762.00	34.130	195.680	3733.90	-120.25	-171.50	-29.60	1694426.06	395933.88	39°34'55.224"N	80°35'03.053"W	174.03	189.794	2.06	1.81	1.75
3857.00	34.340	193.910	3812.45	-153.67	-223.17	-43.25	1694412.41	395882.22	39°34'54.712"N	80°35'03.219"W	227.32	190.967	1.07	0.22	-1.86
3952.00	33.980	193.020	3891.06	-187.98	-275.04	-55.67	1694399.99	395830.34	39°34'54.198"N	80°35'03.370"W	280.62	191.442	0.65	-0.38	-0.94
4046.00	33.470	190.490	3969.24	-222.72	-326.13	-66.31	1694389.36	395779.26	39°34'53.692"N	80°35'03.497"W	332.80	191.493	1.59	-0.54	-2.69
4141.00	31.290	191.140	4049.47	-257.21	-376.10	-75.85	1694379.82	395729.30	39°34'53.197"N	80°35'03.612"W	383.67	191.402	2.32	-2.29	0.68
4236.00	31.130	191.020	4130.72	-290.42	-424.40	-85.31	1694370.36	395680.99	39°34'52.718"N	80°35'03.725"W	432.89	191.365	0.18	-0.17	-0.13
4331.00	31.260	190.670	4211.98	-323.76	-472.73	-94.56	1694361.10	395632.67	39°34'52.240"N	80°35'03.836"W	482.10	191.312	0.23	0.14	-0.37
4426.00	31.610	192.290	4293.04	-356.92	-521.28	-104.43	1694351.24	395584.12	39°34'51.759"N	80°35'03.954"W	531.64	191.328	0.96	0.37	1.71
4521.00	31.060	193.510	4374.18	-389.07	-569.44	-115.45	1694340.22	395535.97	39°34'51.282"N	80°35'04.088"W	581.02	191.461	0.88	-0.58	1.28





Where energy meets innovation.

# Actual Wellpath Report

Big 177 H6 AWP Proj: 17931'

Page 4 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT	Slot	Slot 512918
Area	Wetzel County, WV	Well	Big 177 H6
Field	Wetzel	Wellbore	Big 177 H6 AWB
Facility	Big 177 Pad		

WELLPATH DATA (216 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]	
4616.00	32.440	194.090	4454.96	-421.00	-617.98	-127.38	1694328.29	395487.43	39°34'50.800"N	80°35'04.232"W	630.97	191.647	1.49	1.45	0.61	
4711.00	33.270	191.870	4534.77	-454.49	-668.20	-138.94	1694316.72	395437.21	39°34'50.303"N	80°35'04.372"W	682.49	191.747	1.54	0.87	-2.34	
4805.00	33.010	191.220	4613.48	-488.84	-718.54	-149.23	1694306.44	395386.87	39°34'49.804"N	80°35'04.496"W	733.88	191.733	0.47	-0.28	-0.69	
4900.00	33.130	191.260	4693.09	-523.70	-769.39	-159.33	1694296.34	395336.03	39°34'49.300"N	80°35'04.617"W	785.71	191.700	0.13	0.13	0.04	
4995.00	33.070	193.130	4772.68	-557.94	-820.09	-170.29	1694285.38	395285.33	39°34'48.798"N	80°35'04.749"W	837.59	191.731	1.08	-0.06	1.97	
5090.00	33.670	193.060	4852.01	-591.81	-870.99	-182.13	1694273.54	395234.44	39°34'48.293"N	80°35'04.893"W	889.83	191.811	0.63	0.63	-0.07	
5185.00	33.660	194.280	4931.08	-625.54	-922.16	-194.57	1694261.10	395183.27	39°34'47.786"N	80°35'05.044"W	942.46	191.915	0.71	-0.01	1.28	
5280.00	32.800	193.940	5010.55	-658.58	-972.64	-207.27	1694248.41	395132.79	39°34'47.286"N	80°35'05.198"W	994.48	192.030	0.93	-0.91	-0.36	
5375.00	32.020	191.770	5090.75	-691.73	-1022.27	-218.60	1694237.07	395083.16	39°34'46.794"N	80°35'05.335"W	1045.39	192.070	1.47	-0.82	-2.28	
5470.00	31.440	191.250	5171.55	-725.15	-1071.23	-228.58	1694227.10	395034.20	39°34'46.309"N	80°35'05.455"W	1095.35	192.045	0.67	-0.61	-0.55	
5564.00	32.260	191.190	5251.40	-758.53	-1119.89	-238.23	1694217.45	394985.55	39°34'45.827"N	80°35'05.571"W	1144.94	192.009	0.87	0.87	-0.06	
5659.00	32.160	192.780	5331.78	-792.09	-1169.42	-248.74	1694206.94	394936.03	39°34'45.336"N	80°35'05.697"W	1195.58	192.008	0.90	-0.11	1.67	
5754.00	31.710	194.140	5412.40	-824.42	-1218.28	-260.43	1694195.24	394887.16	39°34'44.852"N	80°35'05.839"W	1245.81	192.066	0.89	-0.47	1.43	
5849.00	32.740	193.760	5492.77	-856.67	-1267.45	-272.64	1694183.03	394838.00	39°34'44.365"N	80°35'05.987"W	1296.44	192.140	1.10	1.08	-0.40	
5944.00	33.550	193.550	5572.31	-889.95	-1317.92	-284.90	1694170.77	394787.53	39°34'43.864"N	80°35'06.136"W	1348.37	192.198	0.86	0.85	-0.22	
6039.00	33.880	191.170	5651.33	-924.64	-1369.42	-296.18	1694159.49	394736.03	39°34'43.354"N	80°35'06.272"W	1401.09	192.204	1.43	0.35	-2.51	
6134.00	33.260	190.500	5730.49	-960.24	-1421.02	-306.06	1694149.62	394684.44	39°34'42.843"N	80°35'06.390"W	1453.60	192.155	0.76	-0.65	-0.71	
6229.00	34.030	189.310	5809.58	-996.54	-1472.86	-315.11	1694140.57	394632.60	39°34'42.330"N	80°35'06.498"W	1506.19	192.076	1.07	0.81	-1.25	
6324.00	34.030	190.260	5888.31	-1033.28	-1525.25	-324.14	1694131.54	394580.21	39°34'41.811"N	80°35'06.605"W	1559.32	191.998	0.56	0.00	1.00	
6419.00	33.230	193.980	5967.42	-1068.06	-1576.68	-335.17	1694120.51	394528.79	39°34'41.301"N	80°35'06.738"W	1611.91	192.001	2.33	-0.84	3.92	
6519.00	32.600	194.000	6051.36	-1102.63	-1629.40	-348.31	1694107.38	394476.07	39°34'40.779"N	80°35'06.898"W	1666.22	192.066	0.63	-0.63	0.02	
6535.00	32.890	194.800	6064.82	-1108.09	-1637.79	-350.46	1694105.22	394467.68	39°34'40.696"N	80°35'06.924"W	1674.86	192.078	3.26	1.81	5.00	
6583.00	30.610	194.910	6105.63	-1123.86	-1662.20	-356.93	1694098.75	394443.27	39°34'40.453"N	80°35'07.003"W	1700.09	192.119	4.75	-4.75	0.23	
6630.00	28.500	196.580	6146.52	-1138.06	-1684.51	-363.21	1694092.47	394420.96	39°34'40.232"N	80°35'07.080"W	1723.22	192.168	4.82	-4.49	3.55	
6677.00	26.760	200.500	6188.16	-1150.56	-1705.17	-370.12	1694085.56	394400.30	39°34'40.027"N	80°35'07.165"W	1744.88	192.246	5.35	-3.70	8.34	
6725.00	24.100	207.520	6231.51	-1160.74	-1723.99	-378.43	1694077.25	394381.48	39°34'39.840"N	80°35'07.268"W	1765.04	192.381	8.37	-5.54	14.62	
6772.00	22.730	220.760	6274.67	-1166.95	-1739.39	-388.80	1694066.88	394366.08	39°34'39.687"N	80°35'07.398"W	1782.32	192.600	11.54	-2.91	28.17	
6819.00	22.790	236.760	6318.06	-1168.44	-1751.27	-402.36	1694053.33	394354.20	39°34'39.568"N	80°35'07.569"W	1796.90	192.939	13.13	0.13	34.04	
6866.00	23.040	252.770	6361.39	-1164.88	-1758.99	-418.77	1694036.91	394346.48	39°34'39.490"N	80°35'07.778"W	1808.16	193.391	13.24	0.53	34.06	
6914.00	23.750	267.130	6405.48	-1156.42	-1762.26	-437.41	1694018.27	394343.21	39°34'39.455"N	80°35'08.015"W	1815.74	193.940	11.94	1.48	29.92	

RECEIVED  
Office of Oil and Gas  
JUN 22 2018  
WV Department of  
Environmental Protection





Where energy meets innovation.

# Actual Wellpath Report

Big 177 H6 AWP Proj: 17931'

Page 5 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT	Slot	Slot 512918
Area	Wetzel County, WV	Well	Big 177 H6
Field	Wetzel	Wellbore	Big 177 H6 AWB
Facility	Big 177 Pad		

WELLPATH DATA (216 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]
6961.00	26.230	277.520	6448.10	-1143.96	-1761.38	-457.18	1693998.51	394344.10	39°34'39.461"N	80°35'08.268"W	1819.74	194.550	10.71	5.28	22.11
7009.00	29.160	284.310	6490.60	-1127.51	-1757.10	-479.03	1693976.66	394348.38	39°34'39.501"N	80°35'08.547"W	1821.22	195.250	8.96	6.10	14.15
7057.00	32.510	290.760	6531.82	-1107.59	-1749.63	-502.44	1693953.25	394355.85	39°34'39.572"N	80°35'08.847"W	1820.34	196.022	9.80	6.98	13.44
7104.00	36.600	297.030	6570.54	-1084.41	-1738.78	-526.75	1693928.94	394366.70	39°34'39.676"N	80°35'09.160"W	1816.81	196.854	11.52	8.70	13.34
7152.00	40.770	302.650	6608.01	-1056.93	-1723.81	-552.71	1693902.98	394381.67	39°34'39.821"N	80°35'09.493"W	1810.25	197.778	11.35	8.69	11.71
7199.00	44.960	306.660	6642.46	-1026.68	-1705.60	-578.97	1693876.73	394399.87	39°34'39.998"N	80°35'09.832"W	1801.19	198.750	10.63	8.91	8.53
7246.00	49.150	309.850	6674.47	-993.49	-1684.28	-605.95	1693849.74	394421.19	39°34'40.205"N	80°35'10.179"W	1789.97	199.787	10.20	8.91	6.79
7294.00	52.890	312.320	6704.67	-957.06	-1659.75	-634.05	1693821.64	394445.72	39°34'40.445"N	80°35'10.542"W	1776.74	200.908	8.76	7.79	5.15
7339.00	56.630	313.850	6730.63	-920.91	-1634.65	-660.88	1693794.82	394470.82	39°34'40.689"N	80°35'10.889"W	1763.19	202.013	8.76	8.31	3.40
7390.00	60.400	315.770	6757.26	-877.93	-1603.99	-691.72	1693763.98	394501.48	39°34'40.989"N	80°35'11.287"W	1746.79	203.328	8.06	7.39	3.76
7437.00	64.590	318.200	6778.96	-836.52	-1573.51	-720.14	1693735.57	394531.96	39°34'41.287"N	80°35'11.655"W	1730.47	204.592	10.02	8.91	5.17
7485.00	68.740	320.520	6797.98	-792.58	-1540.07	-748.82	1693706.88	394565.40	39°34'41.614"N	80°35'12.026"W	1712.47	205.930	9.72	8.65	4.83
7531.00	72.890	323.150	6813.09	-749.16	-1505.91	-775.65	1693680.06	394599.55	39°34'41.948"N	80°35'12.374"W	1693.93	207.252	10.51	9.02	5.72
7580.00	75.820	324.200	6826.30	-701.99	-1467.90	-803.59	1693652.11	394637.56	39°34'42.320"N	80°35'12.737"W	1673.47	208.698	6.33	5.98	2.14
7625.00	77.400	325.930	6836.73	-658.23	-1432.01	-828.66	1693627.05	394673.44	39°34'42.672"N	80°35'13.062"W	1654.49	210.057	5.13	3.51	3.84
7675.00	81.480	329.380	6845.89	-609.22	-1390.50	-854.94	1693600.77	394714.96	39°34'43.079"N	80°35'13.404"W	1632.30	211.585	10.61	8.16	6.90
7744.00	89.510	331.030	6851.31	-540.97	-1330.85	-889.09	1693566.63	394774.60	39°34'43.664"N	80°35'13.850"W	1600.51	213.745	11.88	11.64	2.39
7770.00	90.680	331.360	6851.26	-515.20	-1308.07	-901.61	1693554.10	394797.38	39°34'43.888"N	80°35'14.013"W	1588.69	214.577	4.68	4.50	1.27
7865.00	90.580	330.720	6850.22	-421.03	-1224.95	-947.61	1693508.11	394880.49	39°34'44.704"N	80°35'14.613"W	1548.70	217.725	0.68	-0.11	-0.67
7959.00	90.550	332.830	6849.29	-328.02	-1142.14	-992.06	1693463.66	394963.30	39°34'45.517"N	80°35'15.194"W	1512.83	220.978	2.24	-0.03	2.24
8054.00	90.580	333.730	6848.35	-234.40	-1057.29	-1034.77	1693420.95	395048.15	39°34'46.350"N	80°35'15.752"W	1479.40	224.383	0.95	0.03	0.95
8149.00	90.430	333.000	6847.52	-140.81	-972.37	-1077.36	1693378.37	395133.06	39°34'47.185"N	80°35'16.309"W	1451.28	227.932	0.78	-0.16	-0.77
8244.00	90.580	331.500	6846.68	-46.92	-888.31	-1121.59	1693334.14	395217.12	39°34'48.010"N	80°35'16.887"W	1430.75	231.621	1.59	0.16	-1.58
8339.00	91.020	332.530	6845.35	47.02	-804.42	-1166.16	1693289.57	395301.00	39°34'48.834"N	80°35'17.469"W	1416.70	235.402	1.18	0.46	1.08
8434.00	90.620	332.910	6843.99	140.78	-720.00	-1209.70	1693246.03	395385.41	39°34'49.663"N	80°35'18.039"W	1407.75	239.239	0.58	-0.42	0.40
8529.00	89.880	331.700	6843.58	234.66	-635.89	-1253.85	1693201.89	395469.52	39°34'50.489"N	80°35'18.615"W	1405.88	243.108	1.49	-0.78	-1.27
8624.00	89.880	330.170	6843.78	328.86	-552.85	-1300.00	1693155.74	395552.55	39°34'51.304"N	80°35'19.218"W	1412.67	246.961	1.61	0.00	-1.61
8719.00	90.030	328.790	6843.85	423.34	-471.02	-1348.24	1693107.50	395634.38	39°34'52.107"N	80°35'19.846"W	1428.15	250.743	1.46	0.16	-1.45
8814.00	89.350	328.840	6844.37	517.93	-389.74	-1397.43	1693058.31	395715.65	39°34'52.904"N	80°35'20.487"W	1450.77	254.416	0.72	-0.72	0.05
8909.00	90.280	330.060	6844.67	612.41	-307.94	-1445.72	1693010.03	395797.45	39°34'53.707"N	80°35'21.116"W	1478.15	257.976	1.61	0.98	1.28

RECEIVED  
Office of Oil and Gas  
JUN 22 2018  
WV Department of  
Environmental Protection





Where energy meets innovation.

# Actual Wellpath Report

Big 177 H6 AWP Proj: 17931'

Page 6 of 11



## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT	Slot	Slot 512918
Area	Wetzel County, WV	Well	Big 177 H6
Field	Wetzel	Wellbore	Big 177 H6 AWB
Facility	Big 177 Pad		

## WELLPATH DATA (216 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]
9004.00	90.220	331.490	6844.26	706.64	-225.03	-1492.10	1692963.65	395880.35	39°34'54.521"N	80°35'21.722"W	1508.98	261.424	1.51	-0.06	1.51
9099.00	90.280	333.000	6843.84	800.54	-140.96	-1536.34	1692919.41	395964.41	39°34'55.346"N	80°35'22.300"W	1542.79	264.758	1.59	0.06	1.59
9194.00	90.340	333.410	6843.33	894.17	-56.17	-1579.17	1692876.59	396049.21	39°34'56.179"N	80°35'22.860"W	1580.16	267.963	0.44	0.06	0.43
9289.00	90.310	332.390	6842.79	987.90	28.40	-1622.44	1692833.32	396133.77	39°34'57.009"N	80°35'23.425"W	1622.69	271.003	1.07	-0.03	-1.07
9384.00	90.400	333.490	6842.20	1081.61	113.00	-1665.66	1692790.10	396218.36	39°34'57.840"N	80°35'23.990"W	1669.49	273.881	1.16	0.09	1.16
9479.00	90.340	333.520	6841.59	1175.16	198.02	-1708.04	1692747.73	396303.38	39°34'58.675"N	80°35'24.545"W	1719.48	276.613	0.07	-0.06	0.03
9574.00	90.000	335.370	6841.31	1268.43	283.72	-1749.02	1692706.75	396389.07	39°34'59.517"N	80°35'25.081"W	1771.88	279.214	1.98	-0.36	1.95
9669.00	90.060	335.420	6841.26	1361.39	370.10	-1788.57	1692667.20	396475.44	39°35'00.366"N	80°35'25.600"W	1826.46	281.691	0.08	0.06	0.05
9764.00	90.000	330.670	6841.21	1455.04	454.75	-1831.62	1692624.15	396560.09	39°35'01.198"N	80°35'26.163"W	1887.23	283.943	5.00	-0.06	-5.00
9859.00	89.940	331.280	6841.26	1549.24	537.82	-1877.71	1692578.06	396643.16	39°35'02.013"N	80°35'26.764"W	1953.22	285.983	0.65	-0.06	0.64
9954.00	89.910	331.970	6841.38	1643.28	621.41	-1922.86	1692532.92	396726.74	39°35'02.834"N	80°35'27.354"W	2020.78	287.909	0.73	-0.03	0.73
10048.00	89.880	331.590	6841.55	1736.30	704.23	-1967.31	1692488.47	396809.56	39°35'03.647"N	80°35'27.935"W	2089.56	289.696	0.41	-0.03	-0.40
10143.00	89.940	330.220	6841.70	1830.51	787.24	-2013.50	1692442.28	396892.56	39°35'04.462"N	80°35'28.537"W	2161.93	291.355	1.44	0.06	-1.44
10238.00	90.030	329.110	6841.73	1924.96	869.23	-2061.48	1692394.30	396974.55	39°35'05.266"N	80°35'29.163"W	2237.25	292.863	1.17	0.09	-1.17
10333.00	89.820	329.230	6841.85	2019.49	950.81	-2110.17	1692345.62	397056.12	39°35'06.067"N	80°35'29.797"W	2314.49	294.256	0.25	-0.22	0.13
10428.00	90.400	331.240	6841.67	2113.83	1033.27	-2157.33	1692298.46	397138.58	39°35'06.876"N	80°35'30.412"W	2392.01	295.592	2.20	0.61	2.12
10523.00	90.400	332.540	6841.01	2207.81	1117.06	-2202.09	1692253.71	397222.36	39°35'07.699"N	80°35'30.997"W	2469.21	296.897	1.37	0.00	1.37
10618.00	90.340	334.560	6840.39	2301.35	1202.11	-2244.40	1692211.40	397307.41	39°35'08.534"N	80°35'31.551"W	2546.06	298.174	2.13	-0.06	2.13
10713.00	90.710	334.680	6839.52	2394.56	1287.94	-2285.12	1692170.68	397393.23	39°35'09.377"N	80°35'32.084"W	2623.08	299.407	0.41	0.39	0.13
10808.00	90.830	333.380	6838.25	2487.95	1373.34	-2326.71	1692129.09	397478.62	39°35'10.216"N	80°35'32.628"W	2701.79	300.551	1.37	0.13	-1.37
10903.00	90.400	331.620	6837.23	2581.77	1457.59	-2370.57	1692085.23	397562.88	39°35'11.044"N	80°35'33.202"W	2782.84	301.586	1.91	-0.45	-1.85
10998.00	90.490	330.510	6836.49	2675.94	1540.73	-2416.54	1692039.27	397646.01	39°35'11.860"N	80°35'33.802"W	2865.92	302.521	1.17	0.09	-1.17
11093.00	90.580	330.650	6835.60	2770.21	1623.48	-2463.20	1691992.61	397728.75	39°35'12.672"N	80°35'34.410"W	2950.09	303.389	0.18	0.09	0.15
11188.00	90.490	331.140	6834.71	2864.41	1706.48	-2509.40	1691946.41	397811.74	39°35'13.486"N	80°35'35.014"W	3034.66	304.217	0.52	-0.09	0.52
11283.00	90.250	331.310	6834.10	2958.55	1789.74	-2555.13	1691900.68	397895.01	39°35'14.304"N	80°35'35.610"W	3119.60	305.009	0.31	-0.25	0.18
11378.00	90.180	331.860	6833.74	3052.61	1873.30	-2600.34	1691855.48	397978.55	39°35'15.124"N	80°35'36.201"W	3204.84	305.769	0.58	-0.07	0.58
11472.00	90.370	330.980	6833.29	3145.71	1955.84	-2645.31	1691810.51	398061.09	39°35'15.934"N	80°35'36.788"W	3289.83	306.478	0.96	0.20	-0.94
11567.00	90.280	330.830	6832.75	3239.91	2038.85	-2691.50	1691764.32	398144.10	39°35'16.749"N	80°35'37.391"W	3376.55	307.144	0.18	-0.09	-0.16
11662.00	90.340	330.010	6832.24	3334.22	2121.47	-2738.40	1691717.43	398226.71	39°35'17.560"N	80°35'38.003"W	3464.02	307.765	0.87	0.06	-0.86
11757.00	90.340	330.290	6831.68	3428.58	2203.87	-2785.68	1691670.15	398309.10	39°35'18.369"N	80°35'38.619"W	3552.05	308.349	0.29	0.00	0.29

RECEIVED  
Office of Oil and Gas  
JUN 22 2018  
WV Department of  
Environmental Protection





Where energy meets innovation.

# Actual Wellpath Report

Big 177 H6 AWP Proj: 17931  
Page 7 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT	Slot	Slot 512918
Area	Wetzel County, WV	Well	Big 177 H6
Field	Wetzel	Wellbore	Big 177 H6 AWP
Facility	Big 177 Pad		

WELLPATH DATA (216 stations)														
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Turn Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(US ft)	(US ft)	(ft)	(ft)	(ft)	(°)	(ft/100ft)	(°/100ft)
11852.00	90.310	331.120	3522.82	2286.71	-2832.16	1691623.67	398391.94	39°35'19.182"N	80°35'39.226"W	3640.08	308.918	0.87	-0.03	0.87
11947.00	90.460	6830.50	3617.00	2369.82	-2878.17	1691577.66	398475.05	39°35'19.998"N	80°35'39.827"W	3728.26	309.467	0.25	-0.16	-0.19
12042.00	90.340	330.540	6829.84	3711.24	-2452.70	1691531.23	398557.92	39°35'20.811"N	80°35'40.432"W	3816.94	309.985	0.44	-0.13	-0.42
12137.00	89.970	330.090	6829.58	3805.57	-2971.65	1691484.19	398640.45	39°35'21.621"N	80°35'41.046"W	3906.17	310.469	0.61	-0.39	-0.47
12232.00	89.970	333.420	6829.63	3899.57	-3016.60	1691439.24	398724.12	39°35'22.443"N	80°35'41.633"W	3994.82	310.963	3.51	0.00	3.51
12327.00	90.060	335.410	6829.60	3992.85	-3057.63	1691398.22	398809.80	39°35'23.284"N	80°35'42.171"W	4082.14	311.494	2.10	0.09	2.09
12422.00	89.880	337.350	6829.65	4085.46	-3095.69	1691360.16	398896.83	39°35'24.140"N	80°35'42.670"W	4168.51	312.043	2.05	-0.19	2.04
12517.00	89.850	336.910	6829.88	4177.78	-3132.61	1691323.24	398984.35	39°35'25.000"N	80°35'43.156"W	4254.74	312.586	0.46	-0.03	-0.46
12611.00	89.850	335.400	6830.12	4269.49	-3170.61	1691285.24	399070.32	39°35'25.846"N	80°35'43.654"W	4341.06	313.082	1.61	0.00	-1.61
12706.00	89.820	332.760	6830.40	4362.87	-3212.13	1691243.72	399155.75	39°35'26.685"N	80°35'44.198"W	4429.87	313.522	2.78	-0.03	-2.78
12801.00	90.180	330.810	6830.40	4456.87	-3257.04	1691198.81	399239.45	39°35'27.507"N	80°35'44.785"W	4520.18	313.900	2.09	0.38	-2.05
12896.00	90.150	330.840	6830.12	4551.10	-3303.35	1691152.51	399322.40	39°35'28.321"N	80°35'45.389"W	4611.15	314.243	0.04	-0.03	-0.14
12991.00	90.220	330.710	6829.82	4645.33	-3349.74	1691106.13	399405.30	39°35'29.135"N	80°35'45.994"W	4702.30	314.573	0.16	0.07	-0.14
13085.00	90.220	330.390	6829.46	4738.62	-3381.98	1691059.91	399487.15	39°35'29.938"N	80°35'46.597"W	4792.74	314.882	0.34	0.00	-0.34
13180.00	90.120	330.020	6829.17	4832.97	-3443.16	1691012.71	399569.58	39°35'30.747"N	80°35'47.213"W	4884.42	315.176	0.40	-0.11	-0.39
13275.00	90.280	329.400	6828.84	4927.41	-3491.07	1690964.80	399651.61	39°35'31.552"N	80°35'47.838"W	4976.44	315.451	0.67	0.17	-0.65
13370.00	90.280	328.960	6828.38	5021.94	-3528.04	1690916.13	399733.19	39°35'32.352"N	80°35'48.472"W	5068.77	315.706	0.46	0.00	-0.46
13465.00	90.180	329.300	6828.00	5116.49	-3579.58	1690867.39	399814.72	39°35'33.152"N	80°35'49.108"W	5161.22	315.951	0.37	-0.11	0.36
13560.00	90.150	328.980	6827.72	5211.02	-3637.22	1690818.66	399896.27	39°35'33.952"N	80°35'49.743"W	5253.76	316.187	0.34	-0.03	-0.34
13655.00	90.220	329.620	6827.42	5305.54	-3685.72	1690770.17	399977.95	39°35'34.754"N	80°35'50.375"W	5346.33	316.418	0.68	0.07	0.67
13750.00	90.060	333.000	6827.18	5399.64	-3731.32	1690724.57	400061.27	39°35'35.571"N	80°35'50.971"W	5438.18	316.675	3.56	-0.17	3.56
13845.00	90.120	335.800	6827.03	5492.92	-3772.36	1690683.53	400146.93	39°35'36.413"N	80°35'51.508"W	5528.73	316.975	2.95	0.06	2.95
13940.00	90.220	333.780	6826.75	5586.08	-3812.82	1690643.07	400232.87	39°35'37.258"N	80°35'52.038"W	5619.25	317.271	2.13	0.11	-2.13
14035.00	89.720	336.430	6826.80	5679.12	-3852.81	1690603.08	400319.03	39°35'38.104"N	80°35'52.563"W	5709.75	317.563	2.84	-0.53	2.79
14130.00	89.720	337.610	6827.27	5771.49	-3889.90	1690566.00	400406.48	39°35'38.964"N	80°35'53.050"W	5799.41	317.876	1.24	0.00	1.24
14224.00	89.690	338.050	6827.75	5862.56	-3925.37	1690530.53	400493.52	39°35'39.820"N	80°35'53.517"W	5887.85	318.188	0.47	-0.03	0.47
14319.00	89.720	336.160	6828.24	5954.89	-3962.33	1690493.57	400581.03	39°35'40.680"N	80°35'54.002"W	5977.79	318.483	1.99	0.03	-1.99
14414.00	89.850	334.100	6828.60	6047.94	-4002.28	1690453.63	400667.21	39°35'41.527"N	80°35'54.526"W	6068.87	318.740	2.17	0.14	-2.17
14509.00	89.750	331.620	6828.93	6141.66	-4045.61	1690410.30	400751.74	39°35'42.357"N	80°35'55.093"W	6161.03	318.956	2.61	-0.11	-2.61
14604.00	89.780	330.120	6829.32	6236.88	-4091.85	1690364.06	400834.71	39°35'43.172"N	80°35'55.696"W	6254.01	319.135	1.58	0.03	-1.58

RECEIVED  
Office of Oil and Gas  
JUN 2 2 2018  
WV Department of Environmental Protection





Where energy meets innovation.

# Actual Wellpath Report

Big 177 H6 AWP Proj: 17931'

Page 8 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT	Slot	Slot 512918
Area	Wetzel County, WV	Well	Big 177 H6
Field	Wetzel	Wellbore	Big 177 H6 AWB
Facility	Big 177 Pad		

WELLPATH DATA (216 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]
14699.00	89.940	329.610	6829.55	6330.29	4811.79	-4139.55	1690316.36	400916.87	39°35'43.978"N	80°35'56.318"W	6347.38	319.295	0.56	0.17	-0.54
14794.00	89.910	328.880	6829.67	6424.81	4893.43	-4188.13	1690267.79	400998.50	39°35'44.779"N	80°35'56.952"W	6440.97	319.441	0.77	-0.03	-0.77
14889.00	89.750	329.000	6829.96	6519.38	4974.81	-4237.14	1690218.78	401079.88	39°35'45.577"N	80°35'57.591"W	6534.68	319.578	0.21	-0.17	0.13
14984.00	89.880	330.140	6830.26	6613.85	5056.72	-4285.26	1690170.67	401161.78	39°35'46.381"N	80°35'58.218"W	6628.26	319.721	1.21	0.14	1.20
15078.00	89.880	331.040	6830.46	6707.13	5138.61	-4331.41	1690124.51	401243.66	39°35'47.185"N	80°35'58.820"W	6720.60	319.872	0.96	0.00	0.96
15173.00	89.750	332.910	6830.77	6801.09	5222.46	-4376.05	1690079.88	401327.51	39°35'48.008"N	80°35'59.404"W	6813.51	320.039	1.97	-0.14	1.97
15268.00	89.600	332.500	6831.31	6894.86	5306.88	-4419.61	1690036.32	401411.93	39°35'48.837"N	80°35'59.973"W	6906.23	320.212	0.46	-0.16	-0.43
15363.00	89.570	331.690	6831.99	6988.79	5390.83	-4464.07	1689991.86	401495.88	39°35'49.661"N	80°36'00.554"W	6999.22	320.372	0.85	-0.03	-0.85
15458.00	89.480	330.840	6832.78	7082.92	5474.13	-4509.74	1689946.19	401579.17	39°35'50.479"N	80°36'01.151"W	7092.52	320.517	0.90	-0.09	-0.89
15553.00	89.480	330.560	6833.64	7177.16	5556.98	-4556.23	1689899.71	401662.01	39°35'51.292"N	80°36'01.757"W	7186.04	320.651	0.29	0.00	-0.29
15648.00	89.380	330.290	6834.59	7271.46	5639.59	-4603.12	1689852.82	401744.62	39°35'52.103"N	80°36'02.369"W	7279.68	320.778	0.30	-0.11	-0.28
15743.00	89.420	326.340	6835.58	7366.11	5720.41	-4653.00	1689802.94	401825.43	39°35'52.895"N	80°36'03.019"W	7373.84	320.875	4.16	0.04	-4.16
15837.00	89.230	328.980	6836.69	7459.84	5799.82	-4703.28	1689752.67	401904.84	39°35'53.674"N	80°36'03.674"W	7467.18	320.960	2.82	-0.20	2.81
15932.00	89.080	332.910	6838.09	7554.01	5882.84	-4749.40	1689706.55	401987.85	39°35'54.489"N	80°36'04.276"W	7560.73	321.085	4.14	-0.16	4.14
16027.00	88.980	330.830	6839.70	7647.98	5966.60	-4794.18	1689661.77	402071.61	39°35'55.311"N	80°36'04.861"W	7654.05	321.218	2.19	-0.11	-2.19
16122.00	89.050	333.150	6841.33	7741.92	6050.46	-4838.79	1689617.17	402155.46	39°35'56.135"N	80°36'05.444"W	7747.38	321.349	2.44	0.07	2.44
16217.00	88.580	335.730	6843.30	7835.17	6136.13	-4879.76	1689576.19	402241.13	39°35'56.976"N	80°36'05.981"W	7839.91	321.506	2.76	-0.49	2.72
16312.00	89.140	336.510	6845.19	7927.85	6222.98	-4918.21	1689537.75	402327.97	39°35'57.830"N	80°36'06.486"W	7931.86	321.680	1.01	0.59	0.82
16407.00	89.110	334.550	6846.64	8020.75	6309.43	-4957.56	1689498.40	402414.42	39°35'58.679"N	80°36'07.002"W	8024.11	321.842	2.06	-0.03	-2.06
16502.00	89.110	332.760	6848.12	8114.25	6394.55	-4999.71	1689456.25	402499.53	39°35'59.516"N	80°36'07.554"W	8117.11	321.979	1.88	0.00	-1.88
16597.00	89.110	331.100	6849.59	8208.21	6478.37	-5044.41	1689411.56	402583.34	39°36'00.338"N	80°36'08.138"W	8210.68	322.094	1.75	0.00	-1.75
16691.00	89.140	327.450	6851.03	8301.70	6559.15	-5092.42	1689363.55	402664.12	39°36'01.131"N	80°36'08.764"W	8303.92	322.175	3.88	0.03	-3.88
16786.00	89.110	327.670	6852.48	8396.45	6639.31	-5143.37	1689312.60	402744.28	39°36'01.917"N	80°36'09.427"W	8398.50	322.236	0.23	-0.03	0.23
16881.00	89.140	329.050	6853.93	8491.10	6720.18	-5193.20	1689262.78	402825.14	39°36'02.710"N	80°36'10.076"W	8492.95	322.304	1.45	0.03	1.45
16976.00	89.320	331.240	6855.21	8585.45	6802.56	-5240.48	1689215.50	402907.52	39°36'03.518"N	80°36'10.693"W	8587.06	322.390	2.31	0.19	2.31
17071.00	89.230	332.730	6856.41	8679.40	6886.42	-5285.10	1689170.88	402991.37	39°36'04.342"N	80°36'11.276"W	8680.73	322.495	1.57	-0.09	1.57
17166.00	88.950	334.780	6857.92	8772.86	6971.61	-5327.10	1689128.88	403076.56	39°36'05.179"N	80°36'11.826"W	8773.91	322.616	2.18	-0.29	2.16
17261.00	88.980	334.330	6859.63	8866.08	7057.38	-5367.91	1689088.07	403162.32	39°36'06.021"N	80°36'12.361"W	8866.86	322.743	0.47	0.03	-0.47
17356.00	88.830	334.190	6861.45	8959.40	7142.94	-5409.16	1689046.83	403247.88	39°36'06.862"N	80°36'12.901"W	8959.95	322.864	0.22	-0.16	-0.15
17451.00	89.350	334.300	6862.96	9052.72	7228.49	-5450.44	1689005.55	403333.42	39°36'07.702"N	80°36'13.442"W	9053.09	322.983	0.56	0.55	0.12

RECEIVED  
 Office of Oil and Gas  
 UN 2 2 2018  
 WV Department of Environmental Protection





Where energy meets innovation.

# Actual Wellpath Report

Big 177 H6 AWP Proj: 17931'

Page 9 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT	Slot	Slot 512918
Area	Wetzel County, WV	Well	Big 177 H6
Field	Wetzel	Wellbore	Big 177 H6 AWB
Facility	Big 177 Pad		

WELLPATH DATA (216 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]
17546.00	89.480	335.810	6863.93	9145.78	7314.62	-5490.50	1688965.49	403419.55	39°36'08.549"N	80°36'13.967"W	9146.00	323.107	1.60	0.14	1.59
17641.00	89.690	335.980	6864.62	9238.57	7401.34	-5529.30	1688926.70	403506.26	39°36'09.401"N	80°36'14.477"W	9238.66	323.238	0.28	0.22	0.18
17736.00	89.660	333.800	6865.15	9331.69	7487.35	-5569.61	1688886.39	403592.27	39°36'10.246"N	80°36'15.005"W	9331.72	323.356	2.29	-0.03	-2.29
17831.00	89.660	328.770	6865.72	9425.78	7570.64	-5615.24	1688840.77	403675.55	39°36'11.063"N	80°36'15.601"W	9425.79	323.435	5.29	0.00	-5.29
17906.00	89.660	327.420	6866.16	9500.54	7634.31	-5654.87	1688801.13	403739.21	39°36'11.688"N	80°36'16.117"W	9500.54	323.472	1.80	0.00	-1.80
17931.00	89.660	327.420	6866.31	9525.48	7655.37	-5668.34	1688787.67	403760.28	39°36'11.894"N	80°36'16.293"W	9525.48	323.482	0.00	0.00	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Big 177 H6 AWB Ref Wellpath: Big 177 H6 AWP Proj: 17931'									
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
26in Conductor	23.00	103.00	80.00	23.00	103.00	0.00	0.00	-0.36	-0.18
24in Open Hole	103.00	361.00	258.00	103.00	360.98	-0.36	-0.18	-3.60	-1.06
18.625in Casing Surface	23.00	361.00	338.00	23.00	360.98	0.00	0.00	-3.60	-1.06
17.5in Open Hole	361.00	770.00	409.00	360.98	769.86	-3.60	-1.06	-12.83	-4.04
13.375in Casing Intermediate	23.00	770.00	747.00	23.00	769.86	0.00	0.00	-12.83	-4.04
12.25in Open Hole	770.00	2738.00	1968.00	769.86	2737.57	-12.83	-4.04	-38.59	-0.37
9.625in Casing Intermediate	23.00	2738.00	2715.00	23.00	2737.57	0.00	0.00	-38.59	-0.37
8.75in Open Hole	2738.00	6534.00	3796.00	2737.57	6063.98	-38.59	-0.37	-1637.26	-350.32
8.5in Open Hole	6534.00	17931.00	11397.00	6063.98	6866.31	-1637.26	-350.32	7655.37	-5668.34
5.5in Casing Production	23.00	17931.00	17908.00	23.00	6866.31	0.00	0.00	7655.37	-5668.34

RECEIVED  
 Office of Oil and Gas  
 JUN 22 2018  
 WV Department of  
 Environmental Protection





Where energy meets innovation.

# Actual Wellpath Report

Big 177 H6 AWP Proj: 17931'

Page 10 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT	Slot	Slot 512918
Area	Wetzel County, WV	Well	Big 177 H6
Field	Wetzel	Wellbore	Big 177 H6 AWB
Facility	Big 177 Pad		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Big 177 H6 LP Rev-2	6865.00	-1344.50	-879.59	1693576.13	394760.95	39°34'43.531"N	80°35'13.726"W	point
Big 177 H6 BHL Rev-2	6880.91	7657.44	-5666.00	1688790.01	403762.34	39°36'11.915"N	80°36'16.263"W	point
Big 177 HL1 Rev-1	7000.00	0.00	0.00	1694455.66	396105.37	39°34'56.923"N	80°35'02.701"W	polygon
Big 177 HL2 Rev-1	7000.00	0.00	0.00	1694455.66	396105.37	39°34'56.923"N	80°35'02.701"W	polygon
Big 177 HL3 Rev-1	7000.00	0.00	0.00	1694455.66	396105.37	39°34'56.923"N	80°35'02.701"W	polygon
Big 177 HL4 Rev-1	7000.00	0.00	0.00	1694455.66	396105.37	39°34'56.923"N	80°35'02.701"W	polygon
Big 177 HL5 Rev-1	7000.00	0.00	0.00	1694455.66	396105.37	39°34'56.923"N	80°35'02.701"W	polygon

WELLPATH COMPOSITION - Ref Wellbore: Big 177 H6 AWB Ref Wellpath: Big 177 H6 AWP Proj: 17931'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	
23.00	3174.00	Gyrodata standard - Drop gyro or Multi-shot	02 Gyrodata MS Gyro <12-1/4"> (100'-3174')	Big 177 H6 AWB	
3174.00	6419.00	OWSG MWD rev2 - Standard	03 SDI MWD <8-3/4"> (3174')(3224'-6419')	Big 177 H6 AWB	
6419.00	17906.00	BHI AutoTrak Curve (Short)	04 BH AT Curve <8-1/2"> (6419')(6519'-17906')	Big 177 H6 AWB	
17906.00	17931.00	Blind Drilling (std)	Projection to bit	Big 177 H6 AWB	

RECEIVED  
 Office of Oil and Gas  
 JUN 22 2018  
 WV Department of  
 Environmental Protection





Where energy meets innovation.

# Actual Wellpath Report

Big 177 H6 AWP Proj: 17931'

Page 11 of 11



## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT	Slot	Slot 512918
Area	Wetzel County, WV	Well	Big 177 H6
Field	Wetzel	Wellbore	Big 177 H6 AWB
Facility	Big 177 Pad		

## COMMENTS

Wellpath general comments  
 API: 47-103-03190-0000  
 BH Job #: 8929576  
 Rig: Pioneer 72  
 Duration: 1/16/2018-1/22/2018  
 Gyrodata MS Gyro <12-1/4"> (100'-3174')  
 SDI MWD <8-3/4"> (3174')(3224'-6419')  
 BH AT Curve <8-1/2"> (6419')(6519'-17906')  
 Projected MD at TD: 17931'

RECEIVED  
 Office of Oil and Gas  
 JUN 22 2018  
 WV Department of  
 Environmental Protection