

Actual Wellpath Report

Glenn Didriksen OHI 206H AWP Proj: 15002'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	SOUTHWESTERN ENERGY	Slot	Slot #206
Area	Ohio County, WV	Well	Glenn Didriksen OHI 206H
Field	Ohio	Wellbore	Glenn Didriksen OHI 206H AWP
Facility	Glenn Didriksen OHI Pad 1		

REPORT SETUP INFORMATION			
Projection System	NAD83 / UTM Zone 17 North, US feet	Software System	WellArchitect® 5.1
North Reference	Grid	User	HilptHop
Scale	0.999615	Report Generated	29/Apr/2019 at 12:43
Convergence at slot	0.26° East	Database/Source file	WA_MPL_EASTERIUS_Defn/Glenn_Didriksen_OHI_206H_AWP_Proj_15002_.xml

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	10.37	-16.74	1753619.96	14568492.20	40°06'50.287"N	80°35'42.370"W
Facility Reference Pt			1753636.70	14568481.84	40°06'50.184"N	80°35'42.155"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.478"W

WELLPATH DATUM			
Calculation method	Minimum curvature	SDC 41 (RKB) to Facility Vertical Datum	1408.90ft
Horizontal Reference Pt	Slot	SDC 41 (RKB) to Mean Sea Level	1408.90ft
Vertical Reference Pt	SDC 41 (RKB)	SDC 41 (RKB) to Ground Level at Slot (Slot #206)	26.00ft
MD Reference Pt	SDC 41 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	166.73°

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Field	Ohio	Wellbore	Glenn Didriksen OHI 206H AWB
Facility	Glenn Didriksen OHI Pad 1		WV Department of Environmental Protection

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WELLPATH DATA (180 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	36.540	0.00	0.00	0.00	0.00	1753619.96	14568492.20	40°06'50.287"N	80°35'42.370"W	0.00	0.000	0.00	0.00	0.00
26.00	0.000	36.540	26.00	0.00	0.00	0.00	1753619.96	14568492.20	40°06'50.287"N	80°35'42.370"W	0.00	0.000	0.00	0.00	0.00
218.00	0.460	36.540	218.00	-0.50	0.62	0.46	1753620.42	14568492.82	40°06'50.293"N	80°35'42.364"W	0.77	36.540	0.24	0.24	19.03
308.00	0.190	75.350	308.00	-0.73	0.95	0.82	1753620.78	14568493.15	40°06'50.297"N	80°35'42.359"W	1.25	40.825	0.37	-0.30	43.12
399.00	0.210	330.320	399.00	-0.90	1.13	0.88	1753620.84	14568493.33	40°06'50.298"N	80°35'42.358"W	1.43	37.958	0.35	0.02	-115.42
490.00	0.070	247.670	490.00	-1.05	1.25	0.75	1753620.71	14568493.46	40°06'50.300"N	80°35'42.360"W	1.46	30.807	0.23	-0.15	-90.82
580.00	0.190	317.330	580.00	-1.17	1.34	0.60	1753620.56	14568493.54	40°06'50.300"N	80°35'42.362"W	1.47	23.924	0.20	0.13	77.40
671.00	0.220	324.760	671.00	-1.46	1.60	0.39	1753620.36	14568493.80	40°06'50.303"N	80°35'42.365"W	1.64	13.819	0.04	0.03	8.16
704.00	0.190	271.570	703.99	-1.54	1.65	0.30	1753620.26	14568493.85	40°06'50.303"N	80°35'42.366"W	1.68	10.355	0.56	-0.09	-161.18
791.00	0.300	341.940	790.99	-1.80	1.87	0.09	1753620.05	14568494.07	40°06'50.306"N	80°35'42.368"W	1.87	2.652	0.34	0.13	80.89
881.00	1.350	305.870	880.98	-2.84	2.72	-0.85	1753619.12	14568494.92	40°06'50.314"N	80°35'42.380"W	2.84	342.704	1.25	1.17	-40.08
972.00	3.590	294.380	971.89	-5.39	4.52	-4.31	1753615.66	14568496.72	40°06'50.332"N	80°35'42.425"W	6.25	316.364	2.51	2.46	-12.63
1062.00	5.940	285.370	1061.58	-9.34	6.92	-11.37	1753608.60	14568499.12	40°06'50.356"N	80°35'42.516"W	13.31	301.323	2.73	2.61	-10.01
1153.00	7.760	279.920	1151.93	-14.02	9.22	-21.96	1753598.01	14568501.42	40°06'50.379"N	80°35'42.652"W	23.82	292.784	2.12	2.00	-5.99
1246.00	9.490	274.590	1243.87	-18.84	10.92	-35.79	1753584.19	14568503.12	40°06'50.397"N	80°35'42.830"W	37.42	286.968	2.05	1.86	-5.73
1338.00	10.610	274.900	1334.46	-23.81	12.25	-51.79	1753568.20	14568504.45	40°06'50.411"N	80°35'43.036"W	53.22	283.308	1.22	1.22	0.34
1430.00	11.620	275.210	1424.73	-29.39	13.81	-69.45	1753550.54	14568506.01	40°06'50.447"N	80°35'43.263"W	70.81	281.250	1.10	1.10	0.34
1522.00	12.300	272.870	1514.73	-35.05	15.15	-88.47	1753531.53	14568507.34	40°06'50.441"N	80°35'43.507"W	89.76	279.716	0.91	0.74	-2.54
1615.00	13.680	274.850	1605.35	-41.22	16.57	-109.32	1753510.68	14568508.77	40°06'50.456"N	80°35'43.776"W	110.57	278.620	1.56	1.48	2.13
1708.00	15.260	277.080	1695.40	-48.90	19.01	-132.43	1753487.98	14568511.21	40°06'50.481"N	80°35'44.073"W	133.78	278.170	1.80	1.70	2.40
1800.00	17.420	279.160	1783.68	-58.37	22.70	-158.04	1753461.99	14568514.89	40°06'50.519"N	80°35'44.402"W	159.66	278.172	2.43	2.35	2.26
1892.00	19.220	279.940	1871.01	-69.59	27.50	-186.55	1753433.48	14568519.69	40°06'50.567"N	80°35'44.769"W	188.57	278.387	1.97	1.96	0.85
1985.00	20.700	280.050	1958.43	-82.13	33.01	-217.82	1753402.23	14568525.20	40°06'50.623"N	80°35'45.171"W	220.30	278.619	1.59	1.59	0.12
2077.00	21.920	277.980	2044.13	-94.79	38.24	-250.84	1753369.23	14568530.42	40°06'50.676"N	80°35'45.596"W	253.73	278.667	1.56	1.33	-2.25
2170.00	22.650	276.100	2130.19	-107.02	42.55	-285.83	1753334.24	14568534.73	40°06'50.721"N	80°35'46.046"W	288.98	278.467	1.10	0.78	-2.02
2263.00	24.100	274.790	2215.55	-118.85	46.04	-322.56	1753297.53	14568538.22	40°06'50.757"N	80°35'46.519"W	325.83	278.123	1.66	1.56	-1.41
2278.00	24.050	274.560	2229.25	-120.73	46.54	-328.66	1753291.43	14568538.72	40°06'50.762"N	80°35'46.597"W	331.94	278.059	0.71	-0.33	-1.53
2372.00	24.290	275.900	2315.01	-132.95	50.05	-366.99	1753253.12	14568542.23	40°06'50.798"N	80°35'47.090"W	370.38	277.766	0.64	0.26	1.43
2465.00	24.300	272.580	2399.78	-144.46	52.87	-405.13	1753214.99	14568545.06	40°06'50.828"N	80°35'47.581"W	408.57	277.436	1.47	0.01	-3.57
2557.00	25.000	273.760	2483.39	-155.32	55.00	-443.44	1753176.70	14568547.18	40°06'50.851"N	80°35'48.074"W	446.84	277.070	0.93	0.76	1.28



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WELLPATH DATA (180 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]
2650.00	25.480	276.620	2567.52	-167.88	58.60	-482.92	1753137.23	14568550.78	40°06'50.888"N	80°35'48.582"W	486.46	276.918	1.41	0.52	3.08
2742.00	26.430	277.730	2650.24	-181.95	63.63	-522.87	1753097.30	14568555.81	40°06'50.939"N	80°35'49.096"W	526.73	276.939	1.16	1.03	1.21
2835.00	26.600	281.320	2733.46	-198.03	70.50	-563.80	1753056.39	14568562.68	40°06'51.009"N	80°35'49.622"W	568.19	277.128	1.73	0.18	3.86
2928.00	26.240	276.840	2816.76	-213.77	77.04	-604.63	1753015.57	14568569.21	40°06'51.076"N	80°35'50.147"W	609.52	277.261	2.18	-0.39	-4.82
3021.00	25.760	278.640	2900.35	-228.38	82.52	-645.02	1752975.19	14568574.69	40°06'51.132"N	80°35'50.667"W	650.28	277.291	0.99	-0.52	1.94
3113.00	25.630	280.570	2983.25	-243.88	89.18	-684.35	1752935.88	14568581.34	40°06'51.199"N	80°35'51.173"W	690.13	277.424	0.92	-0.14	2.10
3206.00	24.720	278.290	3067.42	-259.16	95.67	-723.37	1752896.88	14568587.84	40°06'51.265"N	80°35'51.675"W	729.66	277.534	1.43	-0.98	-2.45
3298.00	24.040	282.640	3151.22	-274.42	102.54	-760.69	1752859.57	14568594.71	40°06'51.335"N	80°35'52.155"W	767.57	277.677	2.09	-0.74	4.73
3391.00	24.770	282.390	3235.91	-291.13	110.87	-798.20	1752822.07	14568603.03	40°06'51.419"N	80°35'52.637"W	805.87	277.908	0.79	0.78	-0.27
3484.00	26.270	281.220	3319.83	-308.10	119.06	-837.42	1752782.87	14568611.21	40°06'51.501"N	80°35'53.141"W	845.84	278.091	1.70	1.61	-1.26
3576.00	25.190	278.020	3402.71	-323.65	125.75	-876.78	1752743.52	14568617.90	40°06'51.569"N	80°35'53.647"W	885.75	278.162	1.91	-1.17	-3.48
3669.00	26.410	278.490	3486.44	-338.50	131.56	-916.84	1752703.48	14568623.72	40°06'51.628"N	80°35'54.163"W	926.23	278.166	1.33	1.31	0.51
3762.00	26.800	280.820	3569.60	-354.73	138.55	-957.89	1752662.45	14568630.70	40°06'51.699"N	80°35'54.691"W	967.86	278.230	1.20	0.42	2.51
3855.00	25.600	277.850	3653.04	-370.53	145.23	-998.39	1752621.96	14568637.38	40°06'51.767"N	80°35'55.211"W	1008.90	278.277	1.91	-1.29	-3.19
3947.00	25.930	278.690	3735.90	-385.21	150.99	-1037.96	1752582.40	14568643.13	40°06'51.826"N	80°35'55.720"W	1048.89	278.277	0.53	0.36	0.91
4041.00	25.890	278.010	3820.45	-400.34	156.95	-1078.60	1752541.78	14568649.09	40°06'51.887"N	80°35'56.243"W	1089.96	278.279	0.32	-0.04	-0.72
4133.00	26.270	277.130	3903.08	-414.73	162.28	-1118.69	1752501.70	14568654.42	40°06'51.941"N	80°35'56.759"W	1130.40	278.254	0.59	0.41	-0.96
4226.00	25.690	279.330	3986.69	-429.65	168.10	-1159.01	1752461.41	14568660.24	40°06'52.000"N	80°35'57.277"W	1171.13	278.253	1.21	-0.62	2.37
4319.00	25.580	278.420	4070.53	-444.82	174.31	-1198.76	1752421.67	14568666.44	40°06'52.063"N	80°35'57.789"W	1211.36	278.273	0.44	-0.12	-0.98
4412.00	26.000	278.200	4154.27	-459.70	180.16	-1238.80	1752381.47	14568672.29	40°06'52.123"N	80°35'58.304"W	1251.83	278.274	0.46	0.45	-0.24
4505.00	25.740	277.560	4237.95	-474.34	185.72	-1278.99	1752341.65	14568677.85	40°06'52.180"N	80°35'58.821"W	1292.40	278.262	0.41	-0.28	-0.69
4597.00	26.240	278.170	4320.65	-488.88	191.24	-1318.93	1752301.55	14568683.37	40°06'52.236"N	80°35'59.334"W	1332.72	278.250	0.62	0.54	0.66
4690.00	26.170	278.670	4404.09	-504.06	197.25	-1359.55	1752260.94	14568689.38	40°06'52.297"N	80°35'59.857"W	1373.78	278.255	0.25	-0.08	0.54
4783.00	27.150	278.060	4487.20	-519.44	203.32	-1400.83	1752219.67	14568695.44	40°06'52.359"N	80°36'00.388"W	1415.51	278.258	1.09	1.05	-0.66
4876.00	24.320	274.720	4570.97	-533.07	207.87	-1440.94	1752179.58	14568699.99	40°06'52.406"N	80°36'00.904"W	1455.86	278.209	3.42	-3.04	-3.59
4967.00	24.220	277.000	4653.93	-545.33	211.69	-1478.14	1752142.39	14568703.81	40°06'52.445"N	80°36'01.383"W	1493.22	278.150	1.04	-0.11	2.51
5060.00	25.610	280.230	4738.28	-559.95	217.58	-1516.86	1752103.69	14568709.70	40°06'52.505"N	80°36'01.881"W	1532.39	278.163	2.09	1.49	3.47
5153.00	25.470	279.510	4822.19	-575.71	224.46	-1556.36	1752064.21	14568716.57	40°06'52.575"N	80°36'02.389"W	1572.46	278.207	0.37	-0.15	-0.77
5245.00	25.480	276.640	4905.25	-590.11	230.01	-1595.53	1752025.05	14568722.13	40°06'52.631"N	80°36'02.892"W	1612.02	278.203	1.34	0.01	-3.12
5338.00	26.510	280.650	4988.84	-605.34	236.16	-1635.80	1751984.80	14568728.27	40°06'52.694"N	80°36'03.410"W	1652.76	278.215	2.19	1.11	4.31



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5431.00	27.090	280.700	5071.85	-622.36	243.93	-1677.01	1751943.61	14568736.04	40°06'52.773"N	80°36'03.940"W	1694.65	278.276	0.62	0.62	0.05
5524.00	27.210	280.200	5154.61	-639.43	251.63	-1718.74	1751901.89	14568743.73	40°06'52.851"N	80°36'04.477"W	1737.06	278.329	0.28	0.13	-0.54
5616.00	26.760	277.170	5236.59	-655.04	257.94	-1759.99	1751860.65	14568750.04	40°06'52.915"N	80°36'05.008"W	1778.79	278.338	1.57	-0.49	-3.29
5709.00	25.870	278.270	5319.96	-669.80	263.47	-1800.85	1751819.81	14568755.57	40°06'52.971"N	80°36'05.533"W	1820.02	278.324	1.09	-0.96	1.18
5802.00	24.900	278.220	5403.98	-684.42	269.19	-1840.30	1751780.37	14568761.29	40°06'53.029"N	80°36'06.041"W	1859.89	278.322	1.04	-1.04	-0.05
5894.00	24.130	277.310	5487.68	-698.13	274.35	-1878.12	1751742.57	14568766.45	40°06'53.082"N	80°36'06.527"W	1898.06	278.311	0.93	-0.84	-0.99
5940.00	24.190	270.900	5529.66	-703.74	275.69	-1896.88	1751723.82	14568767.79	40°06'53.096"N	80°36'06.768"W	1916.81	278.270	5.70	0.13	-13.93
5987.00	24.040	262.590	5572.57	-707.08	274.61	-1916.00	1751704.70	14568766.71	40°06'53.086"N	80°36'07.015"W	1935.58	278.156	7.23	-0.32	-17.68
6033.00	24.400	252.390	5614.54	-707.32	270.53	-1934.36	1751686.35	14568762.62	40°06'53.047"N	80°36'07.251"W	1953.19	277.961	9.12	0.78	-22.17
6078.00	24.870	245.500	5655.45	-704.77	263.79	-1951.83	1751668.89	14568755.89	40°06'52.981"N	80°36'07.476"W	1969.58	277.697	6.46	1.04	-15.31
6124.00	24.650	238.100	5697.23	-699.82	254.71	-1968.78	1751651.94	14568746.81	40°06'52.892"N	80°36'07.695"W	1985.19	277.372	6.75	-0.48	-16.09
6171.00	24.100	229.150	5740.06	-692.24	243.25	-1984.37	1751636.36	14568735.35	40°06'52.779"N	80°36'07.896"W	1999.22	276.988	7.94	-1.17	-19.04
6216.00	24.200	220.590	5781.13	-682.55	230.23	-1997.32	1751623.41	14568722.34	40°06'52.651"N	80°36'08.064"W	2010.55	276.575	7.78	0.22	-19.02
6262.00	24.170	213.040	5823.11	-670.48	215.17	-2008.59	1751612.15	14568707.29	40°06'52.503"N	80°36'08.210"W	2020.09	276.114	6.72	-0.07	-16.41
6307.00	24.780	205.850	5864.07	-656.80	198.96	-2017.73	1751603.01	14568691.08	40°06'52.343"N	80°36'08.328"W	2027.52	275.631	6.75	1.36	-15.98
6354.00	26.080	199.780	5906.52	-640.49	180.37	-2025.52	1751595.22	14568672.50	40°06'52.160"N	80°36'08.430"W	2033.54	275.089	6.19	2.77	-12.91
6400.00	28.010	194.420	5947.50	-622.45	160.39	-2031.64	1751589.11	14568652.53	40°06'51.963"N	80°36'08.510"W	2037.96	274.514	6.75	4.20	-11.65
6447.00	30.440	190.560	5988.52	-601.78	137.99	-2036.57	1751584.18	14568630.14	40°06'51.742"N	80°36'08.574"W	2041.24	273.876	6.54	5.17	-8.21
6493.00	32.950	186.730	6027.66	-579.36	114.10	-2040.17	1751580.58	14568606.26	40°06'51.506"N	80°36'08.622"W	2043.36	273.201	6.99	5.46	-8.33
6539.00	34.780	183.920	6066.86	-555.06	88.59	-2043.58	1751578.22	14568580.75	40°06'51.254"N	80°36'08.654"W	2044.45	272.483	5.23	3.98	-6.11
6586.00	37.700	180.130	6103.76	-528.27	60.83	-2042.43	1751577.27	14568553.01	40°06'50.979"N	80°36'08.668"W	2044.39	271.705	7.83	6.21	-8.06
6631.00	40.060	177.100	6138.79	-500.63	32.60	-2042.78	1751577.97	14568524.79	40°06'50.700"N	80°36'08.660"W	2043.04	270.914	6.73	5.24	-6.73
6676.00	43.800	173.880	6172.27	-470.92	2.64	-2040.39	1751580.37	14568494.84	40°06'50.404"N	80°36'08.631"W	2040.39	270.074	9.59	8.31	-7.16
6722.00	47.540	170.720	6204.41	-438.19	-29.95	-2035.95	1751584.80	14568462.27	40°06'50.082"N	80°36'08.576"W	2036.17	269.157	9.50	8.13	-6.87
6769.00	51.980	166.710	6234.77	-402.35	-65.10	-2028.90	1751591.85	14568427.13	40°06'49.734"N	80°36'08.487"W	2029.94	268.162	11.47	9.45	-8.53
6813.00	54.620	165.220	6261.07	-367.08	-99.32	-2020.33	1751600.41	14568392.92	40°06'49.396"N	80°36'08.379"W	2022.77	267.186	6.59	6.00	-3.39
6850.00	57.290	163.250	6281.78	-336.46	-128.82	-2012.00	1751608.74	14568363.44	40°06'49.104"N	80°36'08.273"W	2016.12	266.337	8.46	7.22	-5.32
6888.00	60.290	162.060	6301.47	-304.04	-159.83	-2002.31	1751618.43	14568332.43	40°06'48.797"N	80°36'08.150"W	2008.67	265.436	8.34	7.89	-3.13
6934.00	65.510	161.340	6322.42	-263.27	-198.70	-1989.45	1751631.29	14568293.58	40°06'48.412"N	80°36'07.987"W	1999.34	264.296	11.43	11.35	-1.57
6981.00	70.190	161.180	6340.13	-219.95	-239.91	-1975.46	1751645.27	14568252.39	40°06'48.005"N	80°36'07.810"W	1989.98	263.076	9.96	9.96	-0.34



Southwestern Energy

Actual Wellpath Report

Glenn Didriksen OHI 206H AWP Proj: 15002'

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Office of Oil and Gas

REFERENCE WELLPATH IDENTIFICATION

Operator	SOUTHWESTERN ENERGY	Slot	Slot #206
Area	Ohio County, WV	Well	Glenn Didriksen OHI 206H
Field	Ohio	Wellbore	Glenn Didriksen OHI 206H AWB
Facility	Glenn Didriksen OHI Pad 1		

WV Department of Environmental Protection

WELLPATH DATA (180 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)
7027.00	73.950	161.710	6354.29	-176.37	-281.39	-1961.54	1751659.18	14568210.92	40°06'47.594"N	80°36'07.633"W	1981.62	261.836	8.25	8.17	1.15
7074.00	76.930	161.520	6366.11	-131.07	-324.56	-1947.19	1751673.52	14568167.77	40°06'47.167"N	80°36'07.451"W	1974.06	260.537	6.35	6.34	-0.40
7120.00	79.290	161.470	6375.58	-86.25	-367.24	-1932.91	1751687.80	14568125.11	40°06'46.744"N	80°36'07.269"W	1967.49	259.242	5.13	5.13	-0.11
7166.00	83.520	160.770	6382.46	-40.99	-410.26	-1918.19	1751702.51	14568082.10	40°06'46.319"N	80°36'07.082"W	1961.58	257.927	9.32	9.20	-1.52
7258.00	88.710	159.700	6388.69	50.17	-496.61	-1887.16	1751733.53	14567995.78	40°06'45.464"N	80°36'06.688"W	1951.41	255.257	5.76	5.64	-1.16
7350.00	88.920	157.790	6390.59	141.26	-582.33	-1853.82	1751766.86	14567910.09	40°06'44.615"N	80°36'06.264"W	1943.13	252.561	2.09	0.23	-2.08
7442.00	88.890	154.730	6392.35	231.70	-666.52	-1816.79	1751803.88	14567825.94	40°06'43.782"N	80°36'05.792"W	1935.20	249.854	3.33	-0.03	-3.33
7534.00	88.980	149.920	6394.06	320.77	-747.96	-1774.08	1751846.57	14567744.53	40°06'42.975"N	80°36'05.247"W	1925.31	247.140	5.23	0.10	-5.23
7627.00	88.620	146.240	6396.01	408.85	-826.87	-1724.93	1751895.70	14567665.66	40°06'42.193"N	80°36'04.619"W	1912.87	244.389	3.98	-0.39	-3.98
7720.00	88.310	147.360	6398.50	496.24	-904.66	-1674.02	1751946.59	14567587.90	40°06'41.422"N	80°36'03.968"W	1902.83	241.613	1.25	-0.33	1.20
7813.00	88.310	148.680	6401.24	584.29	-983.51	-1624.79	1751995.80	14567509.08	40°06'40.641"N	80°36'03.339"W	1899.27	238.813	1.42	0.00	1.42
7904.00	88.370	149.900	6403.88	671.07	-1061.71	-1578.34	1752042.23	14567430.90	40°06'39.866"N	80°36'02.746"W	1902.20	236.072	1.34	0.07	1.34
7997.00	88.280	146.810	6406.60	759.28	-1140.84	-1529.57	1752090.98	14567351.81	40°06'39.082"N	80°36'02.123"W	1908.17	233.282	3.32	-0.10	-3.32
8090.00	88.180	145.620	6409.47	846.34	-1218.10	-1477.88	1752142.65	14567274.58	40°06'38.316"N	80°36'01.462"W	1915.18	230.504	1.28	-0.11	-1.28
8182.00	88.250	148.100	6412.34	932.81	-1295.09	-1427.62	1752192.90	14567197.62	40°06'37.553"N	80°36'00.819"W	1927.52	227.787	2.70	0.08	2.70
8275.00	88.340	151.100	6415.11	1021.64	-1375.26	-1380.58	1752239.92	14567117.48	40°06'36.759"N	80°36'00.219"W	1948.68	225.111	3.23	0.10	3.23
8368.00	88.280	154.110	6417.85	1111.77	-1457.78	-1337.81	1752282.67	14567034.99	40°06'35.941"N	80°35'59.673"W	1978.60	222.543	3.24	-0.06	3.24
8460.00	88.150	157.040	6420.72	1201.98	-1541.50	-1299.79	1752320.67	14566951.30	40°06'35.112"N	80°35'59.189"W	2016.35	220.138	3.19	-0.14	3.18
8553.00	88.340	158.570	6423.56	1293.81	-1627.56	-1264.68	1752355.77	14566865.27	40°06'34.260"N	80°35'58.742"W	2061.16	217.849	1.66	0.20	1.65
8645.00	88.280	157.280	6426.28	1384.69	-1712.78	-1230.12	1752390.32	14566780.09	40°06'33.416"N	80°35'58.302"W	2108.75	215.686	1.40	-0.07	-1.40
8737.00	88.310	156.310	6429.01	1475.26	-1797.30	-1193.89	1752426.54	14566695.60	40°06'32.580"N	80°35'57.840"W	2157.70	213.595	1.05	0.03	-1.05
8830.00	88.370	154.530	6431.71	1566.42	-1881.83	-1155.22	1752465.19	14566611.10	40°06'31.743"N	80°35'57.348"W	2208.13	211.545	1.91	0.06	-1.91
8923.00	88.340	152.620	6434.38	1656.93	-1965.08	-1113.85	1752506.54	14566527.89	40°06'30.918"N	80°35'56.820"W	2258.80	209.546	2.05	-0.03	-2.05
9015.00	88.310	151.920	6437.07	1745.98	-2046.48	-1071.06	1752549.32	14566446.52	40°06'30.112"N	80°35'56.274"W	2309.81	207.626	0.76	-0.03	-0.76
9107.00	88.310	152.070	6439.78	1834.92	-2127.67	-1027.88	1752592.48	14566365.36	40°06'29.308"N	80°35'55.723"W	2362.95	205.785	0.16	0.00	0.16
9200.00	88.280	151.110	6442.55	1924.65	-2209.43	-983.66	1752636.69	14566283.63	40°06'28.498"N	80°35'55.159"W	2418.50	203.999	1.03	-0.03	-1.03
9292.00	88.340	150.040	6445.26	2012.98	-2289.53	-938.48	1752681.85	14566203.56	40°06'27.704"N	80°35'54.582"W	2474.40	202.289	1.16	0.07	-1.16
9385.00	88.710	148.670	6447.66	2101.70	-2369.51	-891.09	1752729.22	14566123.61	40°06'26.912"N	80°35'53.977"W	2531.53	200.610	1.53	0.40	-1.47
9478.00	88.580	147.130	6449.86	2189.70	-2448.27	-841.69	1752778.60	14566044.88	40°06'26.131"N	80°35'53.345"W	2588.91	198.972	1.66	-0.14	-1.66
9571.00	88.710	146.720	6452.05	2277.17	-2526.18	-790.95	1752829.32	14565967.01	40°06'25.359"N	80°35'52.697"W	2647.10	197.385	0.46	0.14	-0.44



Southwestern Energy

Actual Wellpath Report

Glenn Didriksen OHI 206H AWP Proj: 15002'

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a GE company

Office of Oil and Gas



REFERENCE WELLPATH IDENTIFICATION

Operator	SOUTHWESTERN ENERGY	Slot	Slot #206
Area	Ohio County, WV	Well	Glenn Didriksen OHI 206H
Field	Ohio	Wellbore	Glenn Didriksen OHI 206H AWB
Facility	Glenn Didriksen OHI Pad 1		WV Department of Environmental Protection

OCT 21 2019

WELLPATH DATA (180 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]
9664.00	88.650	147.100	6454.20	2364.64	-2604.07	-740.19	1752880.06	14565889.14	40°06'24.587"N	80°35'52.048"W	2707.22	195.867	0.41	-0.06	0.41
9757.00	88.610	148.090	6456.42	2452.47	-2682.57	-690.36	1752929.87	14565810.68	40°06'23.809"N	80°35'51.412"W	2769.98	194.432	1.07	-0.04	1.06
9849.00	88.680	148.490	6458.60	2539.73	-2760.81	-642.02	1752978.19	14565732.46	40°06'23.034"N	80°35'50.794"W	2834.48	193.091	0.44	0.08	0.43
9942.00	88.740	152.350	6460.69	2628.94	-2841.65	-596.13	1753024.06	14565651.65	40°06'22.233"N	80°35'50.208"W	2903.51	191.848	4.15	0.06	4.15
10035.00	88.710	154.110	6462.76	2719.35	-2924.66	-554.26	1753065.92	14565568.67	40°06'21.410"N	80°35'49.674"W	2976.72	190.731	1.89	-0.03	1.89
10128.00	88.980	153.370	6464.63	2809.95	-3008.05	-513.12	1753107.05	14565485.32	40°06'20.585"N	80°35'49.149"W	3051.50	189.680	0.85	0.29	-0.80
10221.00	88.650	153.470	6466.56	2900.43	-3091.20	-471.51	1753148.63	14565402.20	40°06'19.761"N	80°35'48.619"W	3126.95	188.673	0.37	-0.35	0.11
10313.00	88.740	154.790	6468.65	2990.19	-3173.96	-431.38	1753188.75	14565319.48	40°06'18.941"N	80°35'48.107"W	3203.14	187.740	1.44	0.10	1.43
10406.00	88.610	156.280	6470.80	3081.39	-3258.58	-392.88	1753227.24	14565234.88	40°06'18.103"N	80°35'47.617"W	3282.18	186.875	1.61	-0.14	1.60
10499.00	88.580	155.690	6473.08	3172.73	-3343.51	-355.04	1753265.06	14565149.99	40°06'17.263"N	80°35'47.135"W	3362.30	186.061	0.64	-0.03	-0.63
10591.00	88.800	155.600	6475.19	3262.99	-3427.30	-317.11	1753302.97	14565066.23	40°06'16.433"N	80°35'46.651"W	3441.94	185.286	0.26	0.24	-0.10
10684.00	88.740	154.840	6477.18	3354.10	-3511.71	-278.14	1753341.93	14564981.85	40°06'15.597"N	80°35'46.155"W	3522.71	184.529	0.82	-0.06	-0.82
10777.00	88.740	155.860	6479.23	3445.25	-3596.22	-239.36	1753380.69	14564897.38	40°06'14.760"N	80°35'45.661"W	3604.17	183.808	1.10	0.00	1.10
10870.00	88.740	157.080	6481.27	3536.74	-3681.46	-202.24	1753417.80	14564812.17	40°06'13.916"N	80°35'45.188"W	3687.01	183.144	1.31	0.00	1.31
10962.00	88.650	155.380	6483.37	3627.17	-3765.63	-165.17	1753454.85	14564728.03	40°06'13.083"N	80°35'44.716"W	3769.25	182.512	1.85	-0.10	-1.85
11055.00	89.020	153.840	6485.26	3718.08	-3849.63	-125.31	1753494.71	14564644.06	40°06'12.251"N	80°35'44.208"W	3851.67	181.864	1.70	0.40	-1.66
11148.00	89.110	154.570	6486.78	3808.85	-3933.35	-84.84	1753535.15	14564560.38	40°06'11.422"N	80°35'43.692"W	3934.27	181.236	0.79	0.10	0.78
11241.00	88.980	154.100	6488.33	3899.67	-4017.16	-44.57	1753575.41	14564476.59	40°06'10.591"N	80°35'43.179"W	4017.41	180.636	0.52	-0.14	-0.51
11334.00	89.570	152.530	6489.50	3990.12	-4100.25	-2.91	1753617.15	14564393.54	40°06'09.769"N	80°35'42.646"W	4100.25	180.039	1.80	0.63	-1.69
11426.00	89.750	150.630	6490.05	4078.92	-4181.16	40.97	1753660.92	14564313.17	40°06'08.967"N	80°35'42.087"W	4181.36	179.439	2.07	0.20	-2.07
11519.00	89.170	146.950	6490.93	4167.38	-4260.68	89.15	1753709.08	14564232.67	40°06'08.179"N	80°35'41.472"W	4261.61	178.801	4.01	-0.62	-3.96
11611.00	89.230	146.070	6492.21	4253.70	-4337.40	139.91	1753759.82	14564156.49	40°06'07.419"N	80°35'40.823"W	4339.65	178.152	0.96	0.07	-0.96
11703.00	89.050	146.820	6493.59	4339.98	-4414.06	190.76	1753810.65	14564079.86	40°06'06.659"N	80°35'40.174"W	4418.18	177.525	0.84	-0.20	0.82
11796.00	89.350	150.160	6494.89	4428.29	-4493.32	239.35	1753859.22	14564000.62	40°06'05.873"N	80°35'39.553"W	4499.69	176.951	3.61	0.32	3.59
11888.00	89.260	154.840	6496.01	4517.44	-4574.90	281.82	1753901.67	14563919.07	40°06'05.065"N	80°35'39.011"W	4583.57	176.475	5.09	-0.10	5.09
11981.00	89.320	156.050	6497.16	4608.63	-4659.48	320.46	1753940.30	14563834.53	40°06'04.228"N	80°35'38.519"W	4670.49	176.066	1.30	0.06	1.30
12073.00	89.350	157.000	6498.23	4699.17	-4743.86	357.11	1753976.93	14563750.18	40°06'03.392"N	80°35'38.052"W	4757.28	175.695	1.03	0.03	1.03
12165.00	89.480	157.320	6499.17	4789.88	-4828.64	392.82	1754012.63	14563665.43	40°06'02.553"N	80°35'37.598"W	4844.59	175.349	0.38	0.14	0.35
12258.00	89.630	156.180	6499.89	4881.47	-4914.09	429.53	1754049.32	14563580.02	40°06'01.707"N	80°35'37.130"W	4932.82	175.005	1.24	0.16	-1.23
12349.00	89.630	153.830	6500.48	4970.56	-4996.56	467.97	1754087.76	14563497.58	40°06'00.890"N	80°35'36.640"W	5018.42	174.649	2.58	0.00	-2.58



Actual Wellpath Report

Glenn Didriksen OHI 206H AWP Proj: 15002'
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Office of Oil and Gas

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Operator	SOUTHWESTERN ENERGY	Slot	Slot #206
Area	Ohio County, WV	Well	Glenn Didriksen OHI 206H
Field	Ohio	Wellbore	Glenn Didriksen OHI 206H AWB
Facility	Glenn Didriksen OHI Pad 1		WV Department of Environmental Protection

WELLPATH DATA (180 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)
12440.00	90.120	149.560	6500.68	5058.43	-5076.66	511.11	1754130.88	14563417.51	40°06'00.096"N	80°35'36.090"W	5102.32	174.251	4.72	0.54	-4.69
12531.00	89.380	149.980	6501.07	5145.47	-5155.28	556.93	1754176.67	14563338.92	40°05'59.317"N	80°35'35.505"W	5185.28	173.834	0.94	-0.81	0.46
12624.00	89.260	154.200	6502.18	5235.42	-5237.44	600.45	1754220.18	14563326.79	40°05'58.504"N	80°35'34.950"W	5271.75	173.460	4.54	-0.13	4.54
12717.00	89.230	153.540	6503.40	5326.08	-5320.93	641.40	1754261.12	14563173.34	40°05'57.677"N	80°35'34.428"W	5359.44	173.127	0.71	-0.03	-0.71
12809.00	89.320	150.230	6504.57	5414.99	-5402.05	684.75	1754304.44	14563092.24	40°05'56.873"N	80°35'33.875"W	5445.28	172.776	3.60	0.10	-3.60
12902.00	89.380	146.460	6505.62	5503.22	-5481.20	733.54	1754353.22	14563013.13	40°05'56.089"N	80°35'33.252"W	5530.06	172.377	4.05	0.06	-4.05
12995.00	89.380	144.420	6506.63	5589.87	-5557.78	786.29	1754405.95	14562936.58	40°05'55.330"N	80°35'32.577"W	5613.12	171.947	2.19	0.00	-2.19
13088.00	89.480	142.510	6507.55	5675.29	-5632.49	841.65	1754461.29	14562861.89	40°05'54.589"N	80°35'31.869"W	5695.03	171.501	2.06	0.11	-2.05
13180.00	89.510	142.970	6508.37	5759.34	-5705.71	897.35	1754516.96	14562788.70	40°05'53.863"N	80°35'31.157"W	5775.85	171.062	0.50	0.03	0.50
13272.00	89.110	145.500	6509.47	5844.33	-5780.35	951.11	1754570.70	14562714.09	40°05'53.123"N	80°35'30.470"W	5858.08	170.656	2.78	-0.43	2.75
13365.00	88.950	152.530	6511.05	5932.85	-5860.02	998.95	1754618.53	14562634.45	40°05'52.333"N	80°35'29.859"W	5944.56	170.326	7.56	-0.17	7.56
13457.00	88.800	154.980	6512.86	6022.48	-5942.51	1039.62	1754659.18	14562551.99	40°05'51.516"N	80°35'29.340"W	6032.77	170.077	2.67	-0.16	2.66
13550.00	89.660	156.310	6514.11	6113.73	-6027.23	1077.97	1754697.52	14562467.31	40°05'50.677"N	80°35'28.852"W	6122.87	169.860	1.70	0.92	1.43
13643.00	89.690	156.530	6514.63	6205.23	-6112.46	1115.17	1754734.70	14562382.11	40°05'49.833"N	80°35'28.378"W	6213.36	169.661	0.24	0.03	0.24
13734.00	89.780	156.480	6515.06	6294.78	-6195.92	1151.45	1754770.97	14562298.69	40°05'49.007"N	80°35'27.916"W	6302.00	169.472	0.11	0.10	-0.05
13827.00	89.720	155.860	6515.46	6386.21	-6280.99	1189.02	1754808.53	14562213.65	40°05'48.164"N	80°35'27.438"W	6392.54	169.280	0.67	-0.06	-0.67
13920.00	89.820	154.750	6515.83	6477.36	-6365.48	1227.88	1754847.36	14562129.19	40°05'47.328"N	80°35'26.943"W	6482.82	169.082	1.20	0.11	-1.19
14011.00	89.350	156.470	6516.49	6566.65	-6448.35	1265.45	1754884.93	14562046.35	40°05'46.507"N	80°35'26.464"W	6571.35	168.897	1.96	-0.52	1.89
14102.00	89.350	155.720	6517.53	6656.08	-6531.54	1302.33	1754921.78	14561963.19	40°05'45.683"N	80°35'25.995"W	6660.11	168.724	0.82	0.00	-0.82
14195.00	89.320	154.200	6518.61	6747.11	-6615.79	1341.68	1754961.13	14561878.92	40°05'44.849"N	80°35'25.493"W	6750.47	168.536	1.63	-0.03	-1.63
14288.00	89.510	154.670	6519.45	6837.98	-6699.69	1381.81	1755001.24	14561795.12	40°05'44.018"N	80°35'24.982"W	6840.70	168.346	0.55	0.20	0.51
14381.00	89.420	154.550	6520.42	6928.90	-6783.68	1421.69	1755041.10	14561711.14	40°05'43.186"N	80°35'24.474"W	6931.07	168.164	0.16	-0.10	-0.13
14473.00	89.450	153.450	6521.33	7018.63	-6866.38	1462.02	1755081.41	14561628.48	40°05'42.367"N	80°35'23.960"W	7020.30	167.980	1.20	0.03	-1.20
14566.00	89.320	149.970	6522.33	7108.44	-6948.25	1506.08	1755125.46	14561546.64	40°05'41.556"N	80°35'23.397"W	7109.61	167.770	3.74	-0.14	-3.74
14659.00	89.380	148.580	6523.38	7197.15	-7028.19	1553.59	1755172.96	14561466.73	40°05'40.764"N	80°35'22.791"W	7197.86	167.535	1.50	0.06	-1.49
14752.00	89.320	146.980	6524.44	7285.10	-7106.86	1603.17	1755222.52	14561388.09	40°05'39.984"N	80°35'22.158"W	7285.44	167.288	1.72	-0.06	-1.72
14844.00	89.320	147.090	6525.53	7371.71	-7184.05	1653.23	1755272.55	14561310.94	40°05'39.219"N	80°35'21.518"W	7371.82	167.040	0.12	0.00	0.12
14937.00	89.910	147.040	6526.16	7459.28	-7262.10	1703.79	1755323.10	14561232.92	40°05'38.446"N	80°35'20.872"W	7459.29	166.796	0.64	0.63	-0.05
14977.00	89.320	147.110	6526.42	7496.95	-7292.67	1725.53	1755344.83	14561199.36	40°05'38.113"N	80°35'20.594"W	7496.95	166.693	1.49	-1.48	0.17
15002.00	89.320	147.110	6526.72	7520.50	-7316.66	1739.11	1755358.40	14561178.37	40°05'37.905"N	80°35'20.421"W	7520.51	166.629	0.00	0.00	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Glenn Didriksen OHI 206H AWB Ref Wellpath: Glenn Didriksen OHI 206H AWP Proj: 15002'											
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]		
20in Conductor	26.00	100.00	74.00	26.00	100.00	0.00	0.00	0.09	0.07		0.07
17.5in Open Hole	100.00	756.00	656.00	100.00	755.99	0.09	0.07	1.73	1.73		0.16
13.375in Casing Surface	26.00	756.00	730.00	26.00	755.99	0.00	0.00	1.73	1.73		0.16
12.25in Open Hole	756.00	2328.00	1572.00	755.99	2274.89	1.73	0.16	48.29	48.29		-349.01
9.625in Casing Intermediate	26.00	2328.00	2302.00	26.00	2274.89	0.00	0.00	48.29	48.29		-349.01
8.75in Open Hole	2328.00	6875.00	4547.00	2274.89	6294.93	48.29	-349.01	-149.13	-149.13		-2005.73
8.5in Open Hole	6875.00	15002.00	8127.00	6294.93	6526.72	-149.13	-2005.73	-7316.66	-7316.66		1739.11
5.5in Casing Production	26.00	15002.00	14976.00	26.00	6526.72	0.00	0.00	-7316.66	-7316.66		1739.11

TARGETS											
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape			
Glenn Didriksen OHI 206H LP Rev-5	6385.37	-426.12	-1901.53	1751719.17	14568066.25	40°06'46.161"N	80°36'06.869"W	point			
Glenn Didriksen OHI 206H LP Rev-4	6386.43	-474.65	-1878.92	1751741.77	14568017.74	40°06'45.681"N	80°36'06.581"W	point			
Glenn Didriksen OHI 206H BHL Rev-3	6531.00	-7334.27	1729.51	1755348.81	14561160.77	40°05'37.731"N	80°35'20.545"W	point			

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Actual Wellpath Report
 Glenn Didriksen OHI 206H AWP Proj: 15002'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SOUTHWESTERN ENERGY	Slot	Slot #206
Area	Ohio County, WV	Well	Glenn Didriksen OHI 206H
Field	Ohio	Wellbore	Glenn Didriksen OHI 206H AWP
Facility	Glenn Didriksen OHI Pad 1		

WELLPATH COMPOSITION - Ref Wellbore: Glenn Didriksen OHI 206H AWP Ref Wellpath: Glenn Didriksen OHI 206H AWP Proj: 15002'				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
26.00	704.00	OWSG MWD rev2 + HRGM	01_Premier MWD <17' 1/2"> (218'-704')	Glenn Didriksen OHI 206H AWP
704.00	2278.00	OWSG MWD rev2 + HRGM	02_Premier MWD <12' 1/4"> (791'-2278')	Glenn Didriksen OHI 206H AWP
2278.00	6813.00	OWSG MWD rev2 + HRGM	03_Premier MWD <8' 3/4"> (2372'-6813')	Glenn Didriksen OHI 206H AWP
6813.00	14977.00	BHI AutoTrak Curve (Short)	04_BH AT Curve <8' 1/2"> (6850'-14977')	Glenn Didriksen OHI 206H AWP
14977.00	15002.00	Blind Drilling (std)	Projection to bit	Glenn Didriksen OHI 206H AWP

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Actual Wellpath Report

Glenn Didriksen OHI 206H AWP Proj: 15002'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	SOUTHWESTERN ENERGY	Slot	Slot #206
Area	Ohio County, WV	Well	Glenn Didriksen OHI 206H
Field	Ohio	Wellbore	Glenn Didriksen OHI 206H AWP
Facility	Glenn Didriksen OHI Pad 1		

COMMENTS

Wellpath general comments
 API: 47-069-00292-0000
 BH Job #: 109742018
 Rig: SDC 41
 Duration: 4/17/2019 - 4/22/19
 Premier MWD <17 1/2"> (218'-704')
 Premier MWD <12 1/4"> (791'-2278')
 Premier MWD <8 3/4"> (2372'-6813')
 BH AT Curve <8 1/2"> (6850'-14977')
 Projected MD at TD: 15,002'

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Well Name:

Glenn Didriksen OHI 206H

47069002920000

LITHOLOGY/FORMATION	TOP DEPTH, MD (FT)	TOP DEPTH, TVD (FT)	BOTTOM DEPTH, MD (FT)	BOTTOM DEPTH, TVD (FT)	QUANTITY AND TYPE OF FLUID
Base of Fresh Water	0.00	0.00	284.00	284.00	
Top of Salt Water	801.00	801.00	NA	NA	
Pittsburgh Coal	684.00	684.00	701.00	701.00	
Pottsville (ss)	792.00	792.00	901.00	901.00	
Raven Cliff (ss)	1160.00	1160.00	1333.00	1333.00	
Maxton (ss)	1721.00	1721.00	2056.00	2024.00	
Big Injun (ss)	2056.00	2024.00	2418.00	2357.00	
Berea (siltstone)	2418.00	2357.00	6237.00	5800.00	
Rhinestreet (shale)	6237.00	5800.00	6478.00	6015.00	
Cashagua (shale)	6478.00	6015.00	6553.00	6077.00	
Middlesex (shale)	6553.00	6077.00	6649.00	6152.00	
Burket (shale)	6649.00	6152.00	6676.00	6172.00	
Tully (ls)	6676.00	6172.00	6744.00	6219.00	
Mahantango (shale)	6744.00	6219.00	7028.00	6355.00	
Marcellus (shale)	7028.00	6355.00	NA	NA	GAS

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