



Actual Wellpath Report

Alice Edge OHI 10H AWP Proj: 19220'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	SOUTHWESTERN ENERGY	Slot	Slot #10
Area	Ohio County, WV	Well	Alice Edge OHI 10H
Field	Ohio	Wellbore	Alice Edge OHI 10H AWB
Facility	Alice Edge OHI Pad A		

REPORT SETUP INFORMATION			
Projection System	NAD83 / UTM Zone 17 North, US feet	Software System	WellArchitect® 4.0.1
North Reference	Grid	User	Edsaryar
Scale	0.999617	Report Generated	02/Jun/2015 at 16:53
Convergence at slot	0.28° East	Database/Source file	WellArchitectEasternDB/Alice_Edge_OHI_10H_AWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-1.32	24.62	1763356.86	14563423.60	40°05'59.723"N	80°33'37.321"W
Facility Reference Pt			1763332.25	14563424.92	40°05'59.737"N	80°33'37.638"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.478"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rocket Rig 40 (RKB) to Facility Vertical Datum	1225.10ft
Horizontal Reference Pt	Slot	Rocket Rig 40 (RKB) to Mean Sea Level	1225.10ft
Vertical Reference Pt	Rocket Rig 40 (RKB)	Rocket Rig 40 (RKB) to Mud Line at Slot (Slot #10)	26.00ft
MD Reference Pt	Rocket Rig 40 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	157.11°



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WELLPATH DATA (222 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	220.950	0.00	0.00	0.00	0.00	1763356.86	14563423.60	40°05'59.723"N	80°33'37.321"W	0.00	0.000	0.00	0.00	0.00
26.00	0.000	220.950	26.00	0.00	0.00	0.00	1763356.86	14563423.60	40°05'59.723"N	80°33'37.321"W	0.00	0.000	0.00	0.00	0.00
100.00	0.660	220.950	100.00	0.19	-0.32	-0.28	1763356.58	14563423.28	40°05'59.720"N	80°33'37.325"W	0.43	220.950	0.89	0.89	0.00
200.00	0.280	221.750	199.99	0.55	-0.94	-0.82	1763356.04	14563422.66	40°05'59.714"N	80°33'37.332"W	1.25	221.107	0.38	-0.38	0.80
300.00	0.050	188.160	299.99	0.69	-1.16	-0.99	1763355.87	14563422.44	40°05'59.711"N	80°33'37.334"W	1.53	220.320	0.24	-0.23	-33.59
400.00	0.030	287.100	399.99	0.71	-1.20	-1.02	1763355.84	14563422.40	40°05'59.711"N	80°33'37.334"W	1.57	220.350	0.06	-0.02	98.94
500.00	0.080	12.000	499.99	0.63	-1.12	-1.03	1763355.83	14563422.48	40°05'59.712"N	80°33'37.335"W	1.52	222.500	0.08	0.05	84.90
600.00	0.100	33.090	599.99	0.53	-0.98	-0.97	1763355.89	14563422.62	40°05'59.713"N	80°33'37.334"W	1.38	224.565	0.04	0.02	21.09
674.00	0.250	62.240	673.99	0.48	-0.85	-0.79	1763356.07	14563422.75	40°05'59.714"N	80°33'37.331"W	1.16	222.782	0.23	0.20	39.39
798.00	0.510	50.410	797.99	0.30	-0.38	-0.13	1763356.73	14563423.22	40°05'59.719"N	80°33'37.323"W	0.40	198.425	0.22	0.21	-9.54
891.00	1.890	47.870	890.97	-0.33	0.92	1.33	1763358.19	14563424.52	40°05'59.732"N	80°33'37.304"W	1.62	55.445	1.48	1.48	-2.73
984.00	3.350	48.440	983.87	-1.70	3.75	4.50	1763361.36	14563427.35	40°05'59.760"N	80°33'37.263"W	5.86	50.219	1.57	1.57	0.61
1077.00	4.620	59.220	1076.64	-3.09	7.47	9.75	1763366.61	14563431.07	40°05'59.796"N	80°33'37.195"W	12.28	52.559	1.58	1.37	11.59
1169.00	5.960	61.780	1168.25	-4.04	11.62	17.15	1763374.00	14563435.22	40°05'59.837"N	80°33'37.100"W	20.71	55.867	1.48	1.46	2.78
1262.00	7.560	58.670	1260.60	-5.39	17.09	26.63	1763383.48	14563440.68	40°05'59.890"N	80°33'36.978"W	31.64	57.310	1.76	1.72	-3.34
1355.00	8.940	59.130	1352.64	-7.29	23.98	38.05	1763394.90	14563447.57	40°05'59.958"N	80°33'36.830"W	44.98	57.787	1.49	1.48	0.49
1448.00	9.860	61.650	1444.39	-9.05	31.47	51.27	1763408.11	14563455.05	40°06'00.031"N	80°33'36.660"W	60.15	58.460	1.08	0.99	2.71
1541.00	11.940	65.220	1535.70	-10.12	39.28	67.01	1763423.84	14563462.86	40°06'00.108"N	80°33'36.456"W	77.67	59.622	2.35	2.24	3.84
1633.00	12.360	64.720	1625.64	-10.85	47.47	84.55	1763441.38	14563471.05	40°06'00.188"N	80°33'36.230"W	96.97	60.688	0.47	0.46	-0.54
1726.00	13.070	66.340	1716.36	-11.40	55.94	103.19	1763460.01	14563479.52	40°06'00.271"N	80°33'35.990"W	117.38	61.535	0.85	0.76	1.74
1819.00	13.370	69.930	1806.90	-11.02	63.85	122.92	1763479.73	14563487.43	40°06'00.348"N	80°33'35.735"W	138.51	62.549	0.94	0.32	3.86
1912.00	12.410	74.850	1897.56	-9.14	70.16	142.66	1763499.47	14563493.73	40°06'00.409"N	80°33'35.481"W	158.98	63.814	1.57	-1.03	5.29
2005.00	9.440	76.890	1988.86	-6.50	74.50	159.74	1763516.54	14563498.07	40°06'00.451"N	80°33'35.261"W	176.26	64.997	3.22	-3.19	2.19
2079.00	7.430	79.160	2062.06	-4.47	76.78	170.35	1763527.15	14563500.35	40°06'00.473"N	80°33'35.124"W	186.85	65.740	2.75	-2.72	3.07
2188.00	6.240	74.700	2170.28	-2.21	79.66	182.99	1763539.78	14563503.23	40°06'00.501"N	80°33'34.961"W	199.58	66.474	1.19	-1.09	-4.09
2281.00	6.630	64.960	2262.70	-1.75	83.27	192.73	1763549.51	14563506.84	40°06'00.536"N	80°33'34.836"W	209.95	66.633	1.24	0.42	-10.47
2373.00	9.870	64.700	2353.73	-2.28	88.89	204.67	1763561.45	14563512.45	40°06'00.591"N	80°33'34.682"W	223.14	66.525	3.52	3.52	-0.28
2466.00	12.210	66.450	2445.01	-2.73	96.23	220.90	1763577.67	14563519.79	40°06'00.663"N	80°33'34.473"W	240.94	66.461	2.54	2.52	1.88
2559.00	9.530	62.780	2536.33	-3.42	103.68	236.76	1763593.53	14563527.24	40°06'00.736"N	80°33'34.268"W	258.47	66.351	2.97	-2.88	-3.95
2652.00	9.630	58.570	2628.04	-5.16	111.26	250.24	1763607.01	14563534.81	40°06'00.810"N	80°33'34.094"W	273.86	66.031	0.76	0.11	-4.53



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Facility	Alice Edge OHI Pad A		

WELLPATH DATA (222 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]
2745.00	9.540	64.820	2719.74	-6.62	118.59	263.86	1763620.61	14563542.15	40°06'00.882"N	80°33'33.918"W	289.28	65.798	1.12	-0.10	6.72
2837.00	8.800	65.610	2810.56	-7.11	124.74	277.17	1763633.92	14563548.29	40°06'00.942"N	80°33'33.747"W	303.94	65.769	0.82	-0.80	0.86
2930.00	7.480	60.570	2902.63	-7.99	130.65	288.92	1763645.67	14563554.20	40°06'01.000"N	80°33'33.595"W	317.09	65.667	1.61	-1.42	-5.42
3023.00	9.040	68.180	2994.66	-8.54	136.34	300.97	1763657.72	14563559.89	40°06'01.055"N	80°33'33.440"W	330.42	65.629	2.04	1.68	8.18
3116.00	8.700	74.010	3086.55	-7.56	141.00	314.52	1763671.26	14563564.54	40°06'01.101"N	80°33'33.265"W	344.68	65.853	1.03	-0.37	6.27
3209.00	9.990	71.920	3178.31	-6.04	145.44	328.95	1763685.68	14563568.98	40°06'01.144"N	80°33'33.079"W	359.67	66.148	1.43	1.39	-2.25
3301.00	11.200	69.630	3268.74	-4.97	151.03	344.91	1763701.64	14563574.57	40°06'01.198"N	80°33'32.873"W	376.53	66.353	1.39	1.32	-2.49
3394.00	10.900	66.540	3360.02	-4.67	157.67	361.44	1763718.17	14563581.21	40°06'01.263"N	80°33'32.660"W	394.34	66.432	0.71	-0.32	-3.32
3487.00	10.540	66.520	3451.40	-4.84	164.56	377.31	1763734.03	14563588.10	40°06'01.330"N	80°33'32.455"W	411.64	66.436	0.39	-0.39	-0.02
3580.00	9.940	61.640	3542.92	-5.69	171.76	392.18	1763748.89	14563595.30	40°06'01.401"N	80°33'32.264"W	428.14	66.348	1.13	-0.65	-5.25
3673.00	9.220	57.590	3634.62	-7.69	179.57	405.53	1763762.24	14563603.10	40°06'01.477"N	80°33'32.091"W	443.51	66.116	1.06	-0.77	-4.35
3765.00	9.960	57.550	3725.34	-10.23	187.79	418.47	1763775.17	14563611.31	40°06'01.558"N	80°33'31.924"W	458.67	65.832	0.80	0.80	-0.04
3858.00	11.080	63.900	3816.77	-12.07	196.03	433.28	1763789.97	14563619.56	40°06'01.639"N	80°33'31.733"W	475.56	65.656	1.73	1.20	6.83
3951.00	10.280	57.770	3908.16	-13.91	204.39	448.33	1763805.01	14563627.91	40°06'01.721"N	80°33'31.539"W	492.72	65.492	1.49	-0.86	-6.59
4044.00	10.740	59.730	3999.60	-16.37	213.19	462.83	1763819.51	14563636.70	40°06'01.807"N	80°33'31.352"W	509.57	65.269	0.63	0.49	2.11
4136.00	10.820	66.610	4089.98	-17.55	220.94	478.16	1763834.84	14563644.45	40°06'01.883"N	80°33'31.154"W	526.73	65.201	1.40	0.09	7.48
4229.00	10.380	61.330	4181.40	-18.47	228.42	493.52	1763850.19	14563651.93	40°06'01.956"N	80°33'30.956"W	543.82	65.164	1.15	-0.47	-5.68
4322.00	10.410	66.970	4272.88	-19.34	235.73	508.61	1763865.27	14563659.24	40°06'02.027"N	80°33'30.761"W	560.58	65.133	1.09	0.03	6.06
4415.00	10.800	65.050	4364.29	-19.67	242.69	524.24	1763880.90	14563666.20	40°06'02.095"N	80°33'30.560"W	577.69	65.159	0.57	0.42	-2.06
4507.00	10.110	60.160	4454.76	-20.96	250.34	539.06	1763895.71	14563673.85	40°06'02.170"N	80°33'30.369"W	594.35	65.089	1.22	-0.75	-5.32
4600.00	9.940	60.880	4546.34	-22.81	258.31	553.15	1763909.80	14563681.81	40°06'02.248"N	80°33'30.187"W	610.49	64.968	0.23	-0.18	0.77
4693.00	9.980	72.090	4637.95	-22.99	264.70	567.83	1763924.47	14563688.19	40°06'02.311"N	80°33'29.997"W	626.50	65.007	2.08	0.04	12.05
4785.00	9.940	71.920	4728.56	-21.63	269.61	582.97	1763939.60	14563693.11	40°06'02.359"N	80°33'29.802"W	642.29	65.180	0.05	-0.04	-0.18
4878.00	10.240	60.530	4820.13	-21.90	276.17	597.80	1763954.43	14563699.66	40°06'02.423"N	80°33'29.611"W	658.51	65.204	2.17	0.32	-12.25
4971.00	10.240	63.510	4911.65	-23.37	283.92	612.39	1763969.02	14563707.42	40°06'02.499"N	80°33'29.423"W	675.01	65.126	0.57	0.00	3.20
5063.00	10.210	72.550	5002.20	-23.11	290.02	627.49	1763984.11	14563713.51	40°06'02.558"N	80°33'29.228"W	691.27	65.194	1.74	-0.03	9.83
5156.00	10.290	71.310	5093.71	-21.72	295.15	643.22	1763999.83	14563718.64	40°06'02.608"N	80°33'29.025"W	707.71	65.351	0.25	0.09	-1.33
5249.00	9.920	67.390	5185.27	-21.07	300.89	658.48	1764015.09	14563724.38	40°06'02.664"N	80°33'28.828"W	723.97	65.442	0.84	-0.40	-4.22
5341.00	9.940	62.130	5275.89	-21.72	307.65	672.82	1764029.42	14563731.13	40°06'02.730"N	80°33'28.644"W	739.82	65.427	0.99	0.02	-5.72
5434.00	9.300	59.270	5367.59	-23.44	315.24	686.38	1764042.97	14563738.72	40°06'02.804"N	80°33'28.469"W	755.31	65.331	0.86	-0.69	-3.08

Environmental Protection
WV Department of
Office of Oil and Gas



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5527.00	9.930	67.390	5459.28	-24.43	322.17	700.24	1764056.83	14563745.64	40°06'02.872"N	80°33'28.290"W	770.79	65.294	1.61	0.68	8.73
5619.00	11.310	70.960	5549.71	-23.79	328.16	716.09	1764072.67	14563751.63	40°06'02.931"N	80°33'28.085"W	787.70	65.380	1.66	1.50	3.88
5712.00	12.020	70.630	5640.79	-22.58	334.35	733.85	1764090.42	14563757.82	40°06'02.991"N	80°33'27.857"W	806.42	65.506	0.77	0.76	-0.35
5775.00	12.150	68.610	5702.39	-22.00	338.94	746.21	1764102.78	14563762.41	40°06'03.036"N	80°33'27.697"W	819.58	65.572	0.70	0.21	-3.21
5868.00	12.240	65.050	5793.29	-22.10	346.67	764.26	1764120.83	14563770.13	40°06'03.111"N	80°33'27.464"W	839.21	65.601	0.81	0.10	-3.83
5915.00	11.260	82.940	5839.32	-21.03	349.33	773.33	1764129.90	14563772.80	40°06'03.137"N	80°33'27.347"W	848.58	65.690	7.99	-2.09	38.06
5961.00	13.520	104.480	5884.27	-16.54	348.54	783.00	1764139.56	14563772.01	40°06'03.129"N	80°33'27.223"W	857.07	66.004	11.10	4.91	46.83
6007.00	15.490	118.970	5928.82	-8.44	344.22	793.59	1764150.14	14563767.69	40°06'03.085"N	80°33'27.087"W	865.03	66.551	8.94	4.28	31.50
6054.00	15.670	127.060	5974.10	1.99	337.35	804.15	1764160.70	14563760.82	40°06'03.017"N	80°33'26.952"W	872.04	67.241	4.64	0.38	17.21
6100.00	18.300	127.050	6018.09	13.62	329.26	814.87	1764171.41	14563752.73	40°06'02.937"N	80°33'26.814"W	878.88	67.998	5.72	5.72	-0.02
6146.00	23.780	127.050	6061.00	27.91	319.31	828.04	1764184.59	14563742.79	40°06'02.838"N	80°33'26.645"W	887.48	68.912	11.91	11.91	0.00
6193.00	28.360	126.990	6103.21	45.78	306.88	844.53	1764201.07	14563730.36	40°06'02.714"N	80°33'26.434"W	898.56	70.030	9.74	9.74	-0.13
6239.00	32.200	127.320	6142.93	65.87	292.87	863.01	1764219.54	14563716.36	40°06'02.575"N	80°33'26.197"W	911.35	71.255	8.36	8.35	0.72
6286.00	37.620	129.820	6181.46	89.51	276.08	884.01	1764240.53	14563699.57	40°06'02.408"N	80°33'25.928"W	926.11	72.656	11.92	11.53	5.32
6332.00	42.710	131.020	6216.60	116.01	256.84	906.57	1764263.09	14563680.34	40°06'02.216"N	80°33'25.639"W	942.25	74.182	11.19	11.07	2.61
6378.00	47.610	132.580	6249.03	145.50	235.09	930.87	1764287.37	14563658.60	40°06'02.000"N	80°33'25.328"W	960.09	75.826	10.92	10.65	3.39
6425.00	51.420	133.010	6279.54	178.07	210.80	957.09	1764313.58	14563634.32	40°06'01.759"N	80°33'24.992"W	980.03	77.579	8.14	8.11	0.91
6471.00	55.400	133.400	6306.95	211.83	185.52	984.01	1764340.49	14563609.05	40°06'01.508"N	80°33'24.647"W	1001.34	79.323	8.68	8.65	0.85
6517.00	60.730	133.990	6331.27	247.64	158.56	1012.22	1764368.69	14563582.10	40°06'01.240"N	80°33'24.286"W	1024.56	81.097	11.64	11.59	1.28
6564.00	66.310	133.820	6352.22	286.29	129.40	1042.52	1764398.98	14563552.95	40°06'00.950"N	80°33'23.898"W	1050.52	82.925	11.88	11.87	-0.36
6610.00	71.970	133.760	6368.59	325.75	99.66	1073.53	1764429.98	14563523.23	40°06'00.655"N	80°33'23.500"W	1078.15	84.696	12.30	12.30	-0.13
6656.00	76.440	135.330	6381.11	366.61	68.62	1105.07	1764461.50	14563492.19	40°06'00.347"N	80°33'23.097"W	1107.19	86.447	10.26	9.72	3.41
6703.00	78.350	138.610	6391.37	409.67	35.09	1136.36	1764492.78	14563458.68	40°06'00.014"N	80°33'22.696"W	1136.90	88.231	7.93	4.06	6.98
6749.00	79.290	142.830	6400.30	452.95	0.17	1164.92	1764521.33	14563423.77	40°05'59.667"N	80°33'22.331"W	1164.92	89.992	9.23	2.04	9.17
6795.00	79.940	146.950	6408.59	497.16	-36.84	1190.93	1764547.33	14563386.78	40°05'59.300"N	80°33'21.998"W	1191.50	91.772	8.92	1.41	8.96
6842.00	83.190	149.350	6415.48	543.08	-76.32	1215.46	1764571.85	14563347.31	40°05'58.909"N	80°33'21.685"W	1217.85	93.593	8.56	6.91	5.11
6888.00	86.890	151.550	6419.46	588.59	-116.18	1238.05	1764594.43	14563307.47	40°05'58.514"N	80°33'21.397"W	1243.49	95.361	9.35	8.04	4.78
6935.00	88.830	154.840	6421.22	635.44	-158.09	1259.23	1764615.60	14563265.57	40°05'58.099"N	80°33'21.127"W	1269.11	97.156	8.12	4.13	7.00
6981.00	88.890	157.850	6422.13	681.42	-200.21	1277.68	1764634.05	14563223.46	40°05'57.682"N	80°33'20.893"W	1293.27	98.906	6.54	0.13	6.54
7074.00	88.990	160.330	6423.85	774.34	-287.07	1310.86	1764667.22	14563136.64	40°05'56.822"N	80°33'20.471"W	1341.93	102.352	2.67	0.11	2.67

WV Department of Environmental Protection



Actual Wellpath Report

Alice Edge OHI 10H AWP Proj: 19220'
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REFERENCE WELLPATH IDENTIFICATION

Operator	SOUTHWESTERN ENERGY	Slot	Slot #10
Area	Ohio County, WV	Well	Alice Edge OHI 10H
Field	Ohio	Wellbore	Alice Edge OHI 10H AWB
Facility	Alice Edge OHI Pad A		

WELLPATH DATA (222 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]
7167.00	89.110	161.490	6425.40	867.12	-374.94	1341.27	1764697.62	14563048.80	40°05'55.952"N	80°33'20.086"W	1392.69	105.618	1.25	0.13	1.25
7259.00	89.050	162.310	6426.87	958.79	-462.38	1369.85	1764726.18	14562961.40	40°05'55.086"N	80°33'19.723"W	1445.78	108.651	0.89	-0.07	0.89
7352.00	89.140	162.410	6428.34	1051.38	-550.99	1398.03	1764754.35	14562872.82	40°05'54.209"N	80°33'19.367"W	1502.69	111.510	0.14	0.10	0.11
7445.00	88.370	162.460	6430.36	1143.96	-639.63	1426.09	1764782.40	14562784.21	40°05'53.332"N	80°33'19.011"W	1562.97	114.157	0.83	-0.83	0.05
7538.00	88.460	162.330	6432.93	1236.53	-728.24	1454.21	1764810.51	14562695.64	40°05'52.455"N	80°33'18.655"W	1626.36	116.601	0.17	0.10	-0.14
7631.00	88.520	161.190	6435.39	1329.19	-816.54	1483.30	1764839.59	14562607.38	40°05'51.581"N	80°33'18.286"W	1693.20	118.832	1.23	0.06	-1.23
7724.00	88.340	161.530	6437.93	1421.90	-904.63	1513.02	1764869.30	14562519.32	40°05'50.709"N	80°33'17.910"W	1762.83	120.875	0.41	-0.19	0.37
7816.00	89.480	159.350	6439.68	1513.72	-991.30	1543.81	1764900.08	14562432.69	40°05'49.851"N	80°33'17.519"W	1834.67	122.705	2.67	1.24	-2.37
7909.00	89.780	161.480	6440.28	1606.56	-1078.91	1574.98	1764931.24	14562345.11	40°05'48.984"N	80°33'17.123"W	1909.09	124.412	2.31	0.32	2.29
8002.00	88.650	159.460	6441.56	1699.38	-1166.54	1606.07	1764962.31	14562257.51	40°05'48.116"N	80°33'16.729"W	1985.01	125.992	2.49	-1.22	-2.17
8095.00	90.650	161.880	6442.13	1792.19	-1254.29	1636.85	1764993.08	14562169.79	40°05'47.247"N	80°33'16.339"W	2062.16	127.462	3.38	2.15	2.60
8188.00	88.620	159.130	6442.72	1885.01	-1341.94	1667.88	1765024.10	14562082.17	40°05'46.380"N	80°33'15.945"W	2140.71	128.819	3.68	-2.18	-2.96
8280.00	88.150	157.700	6445.31	1976.95	-1427.45	1701.71	1765057.91	14561996.70	40°05'45.533"N	80°33'15.515"W	2221.13	129.991	1.64	-0.51	-1.55
8373.00	88.490	155.710	6448.04	2069.90	-1512.83	1738.47	1765094.66	14561911.35	40°05'44.687"N	80°33'15.048"W	2304.55	131.030	2.17	0.37	-2.14
8466.00	88.370	155.710	6450.59	2162.84	-1597.57	1776.71	1765132.89	14561826.65	40°05'43.848"N	80°33'14.561"W	2389.33	131.961	0.13	-0.13	0.00
8559.00	87.910	158.170	6453.61	2255.78	-1683.08	1813.12	1765169.28	14561741.16	40°05'43.001"N	80°33'14.098"W	2473.90	132.870	2.69	-0.49	2.65
8652.00	88.490	160.650	6456.53	2348.65	-1770.09	1845.80	1765201.95	14561654.19	40°05'42.140"N	80°33'13.683"W	2557.39	133.801	2.74	0.62	2.67
8745.00	88.340	162.560	6459.10	2441.33	-1858.30	1875.14	1765231.28	14561566.01	40°05'41.267"N	80°33'13.311"W	2639.97	134.742	2.06	-0.16	2.05
8837.00	89.170	165.830	6461.10	2532.59	-1946.79	1900.19	1765256.31	14561477.56	40°05'40.391"N	80°33'12.995"W	2720.42	135.694	3.67	0.90	3.55
8930.00	89.320	166.040	6462.33	2624.48	-2037.00	1922.78	1765278.91	14561387.39	40°05'39.498"N	80°33'12.710"W	2801.15	136.652	0.28	0.16	0.23
9023.00	89.170	163.510	6463.55	2716.63	-2126.72	1947.20	1765303.31	14561297.70	40°05'38.611"N	80°33'12.402"W	2883.49	137.523	2.72	-0.16	-2.72
9116.00	89.390	159.990	6464.72	2809.31	-2215.02	1976.32	1765332.42	14561209.43	40°05'37.737"N	80°33'12.033"W	2968.53	138.259	3.79	0.24	-3.78
9208.00	89.080	156.450	6465.95	2901.27	-2300.43	2010.45	1765366.53	14561124.06	40°05'36.891"N	80°33'11.599"W	3055.14	138.848	3.86	-0.34	-3.85
9301.00	89.450	157.740	6467.14	2994.26	-2386.09	2046.64	1765402.71	14561038.43	40°05'36.043"N	80°33'11.139"W	3143.59	139.379	1.44	0.40	1.39
9394.00	89.170	159.590	6468.26	3087.21	-2472.70	2080.47	1765436.53	14560951.85	40°05'35.185"N	80°33'10.709"W	3231.50	139.924	2.01	-0.30	1.99
9487.00	89.480	160.100	6469.36	3180.10	-2560.00	2112.51	1765468.56	14560864.58	40°05'34.321"N	80°33'10.302"W	3319.08	140.471	0.64	0.33	0.55
9580.00	89.450	157.600	6470.23	3273.05	-2646.73	2146.06	1765502.10	14560777.89	40°05'33.462"N	80°33'09.876"W	3407.46	140.964	2.69	-0.03	-2.69
9672.00	89.420	156.460	6471.13	3365.04	-2731.43	2181.97	1765537.99	14560693.22	40°05'32.623"N	80°33'09.420"W	3495.95	141.381	1.24	-0.03	-1.24
9765.00	89.540	157.060	6471.98	3458.03	-2816.88	2218.66	1765574.67	14560607.81	40°05'31.777"N	80°33'08.953"W	3585.70	141.775	0.66	0.13	0.65
9858.00	89.480	158.330	6472.77	3551.02	-2902.91	2253.95	1765609.95	14560521.80	40°05'30.925"N	80°33'08.505"W	3675.22	142.173	1.37	-0.06	1.37



Actual Wellpath Report

Alice Edge OHI 10H AWP Proj: 19220'
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REFERENCE WELLPATH IDENTIFICATION

Operator	SOUTHWESTERN ENERGY	Slot	Slot #10
Area	Ohio County, WV	Well	Alice Edge OHI 10H
Field	Ohio	Wellbore	Alice Edge OHI 10H AWB
Facility	Alice Edge OHI Pad A		

WELLPATH DATA (222 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]
9951.00	89.690	162.230	6473.45	3643.86	-2990.44	2285.33	1765641.31	14560434.31	40°05'30.059"N	80°33'08.107"W	3763.70	142.613	4.20	0.23	4.19
10044.00	89.390	162.270	6474.19	3736.48	-3079.01	2313.68	1765669.65	14560345.78	40°05'29.182"N	80°33'07.748"W	3851.42	143.077	0.33	-0.32	0.04
10136.00	89.420	162.410	6475.15	3828.10	-3166.67	2341.59	1765697.55	14560258.15	40°05'28.314"N	80°33'07.394"W	3938.38	143.519	0.16	0.03	0.15
10229.00	89.450	162.400	6476.07	3920.69	-3255.31	2369.70	1765725.65	14560169.54	40°05'27.437"N	80°33'07.038"W	4026.48	143.947	0.03	0.03	-0.01
10322.00	89.450	161.090	6476.96	4013.38	-3343.63	2398.83	1765754.77	14560081.26	40°05'26.563"N	80°33'06.669"W	4115.12	144.343	1.41	0.00	-1.41
10415.00	89.420	160.280	6477.88	4106.20	-3431.39	2429.59	1765785.51	14559993.53	40°05'25.694"N	80°33'06.279"W	4204.44	144.700	0.87	-0.03	-0.87
10508.00	89.480	160.170	6478.77	4199.06	-3518.90	2461.05	1765816.96	14559906.05	40°05'24.828"N	80°33'05.880"W	4294.12	145.032	0.13	0.06	-0.12
10600.00	89.540	159.950	6479.55	4290.93	-3605.38	2492.43	1765848.33	14559819.61	40°05'23.971"N	80°33'05.482"W	4383.03	145.344	0.25	0.07	-0.24
10693.00	89.420	160.320	6480.40	4383.80	-3692.84	2524.03	1765879.92	14559732.18	40°05'23.105"N	80°33'05.081"W	4473.01	145.648	0.42	-0.13	0.40
10786.00	89.380	159.960	6481.37	4476.66	-3780.31	2555.62	1765911.50	14559644.75	40°05'22.240"N	80°33'04.680"W	4563.10	145.940	0.39	-0.04	-0.39
10879.00	89.540	160.090	6482.25	4569.54	-3867.71	2587.39	1765943.25	14559557.38	40°05'21.374"N	80°33'04.277"W	4653.36	146.219	0.22	0.17	0.14
10972.00	89.380	159.500	6483.13	4662.43	-3954.98	2619.51	1765975.36	14559470.14	40°05'20.510"N	80°33'03.870"W	4743.81	146.482	0.66	-0.17	-0.63
11064.00	89.420	159.760	6484.09	4754.34	-4041.22	2651.53	1766007.37	14559383.93	40°05'19.656"N	80°33'03.463"W	4833.43	146.730	0.29	0.04	0.28
11157.00	89.450	159.590	6485.01	4847.24	-4128.43	2683.83	1766039.66	14559296.76	40°05'18.793"N	80°33'03.053"W	4924.11	146.973	0.19	0.03	-0.18
11250.00	89.260	157.760	6486.05	4940.19	-4215.05	2717.65	1766073.46	14559210.17	40°05'17.935"N	80°33'02.624"W	5015.20	147.188	1.98	-0.20	-1.97
11343.00	89.110	158.880	6487.38	5033.16	-4301.46	2752.00	1766107.80	14559123.79	40°05'17.080"N	80°33'02.187"W	5106.47	147.390	1.21	-0.16	1.20
11435.00	89.170	163.940	6488.76	5124.86	-4388.62	2781.31	1766137.10	14559036.66	40°05'16.217"N	80°33'01.816"W	5195.74	147.635	5.50	0.07	5.50
11528.00	89.450	165.110	6489.88	5217.08	-4478.24	2806.13	1766161.91	14558947.08	40°05'15.330"N	80°33'01.503"W	5284.79	147.928	1.29	0.30	1.26
11621.00	89.410	168.100	6490.80	5308.79	-4568.70	2827.67	1766183.44	14558856.66	40°05'14.435"N	80°33'01.231"W	5372.96	148.246	3.22	-0.04	3.22
11714.00	89.940	173.920	6491.33	5399.02	-4660.52	2842.19	1766197.96	14558764.88	40°05'13.527"N	80°33'01.050"W	5458.80	148.623	6.28	0.57	6.26
11807.00	89.380	175.250	6491.88	5487.73	-4753.10	2850.97	1766206.73	14558672.33	40°05'12.612"N	80°33'00.944"W	5542.56	149.044	1.55	-0.60	1.43
11899.00	92.250	171.900	6490.57	5575.92	-4844.49	2861.26	1766217.02	14558580.98	40°05'11.708"N	80°33'00.817"W	5626.35	149.433	4.79	3.12	-3.64
11992.00	89.750	167.920	6488.95	5666.57	-4936.01	2877.55	1766233.30	14558489.49	40°05'10.803"N	80°33'00.613"W	5713.53	149.759	5.05	-2.69	-4.28
12085.00	89.750	161.810	6489.36	5758.68	-5025.74	2901.82	1766257.56	14558399.79	40°05'09.915"N	80°33'00.307"W	5803.33	149.998	6.57	0.00	-6.57
12178.00	89.780	159.540	6489.74	5851.49	-5113.49	2932.59	1766288.32	14558312.07	40°05'09.046"N	80°32'59.917"W	5894.74	150.166	2.44	0.03	-2.44
12270.00	89.350	159.550	6490.44	5943.41	-5199.69	2964.74	1766320.46	14558225.91	40°05'08.193"N	80°32'59.509"W	5985.52	150.309	0.47	-0.47	0.01
12363.00	89.420	159.450	6491.43	6036.32	-5286.80	2997.31	1766353.01	14558138.84	40°05'07.330"N	80°32'59.095"W	6077.34	150.449	0.13	0.08	-0.11
12454.00	89.320	159.830	6492.44	6127.23	-5372.11	3028.97	1766384.66	14558053.56	40°05'06.486"N	80°32'58.694"W	6167.18	150.584	0.43	-0.11	0.42
12546.00	89.320	160.750	6493.53	6219.08	-5458.71	3059.99	1766415.67	14557966.99	40°05'05.628"N	80°32'58.300"W	6257.88	150.726	1.00	0.00	1.00
12642.00	89.290	162.400	6494.69	6314.78	-5549.78	3090.33	1766446.00	14557875.96	40°05'04.727"N	80°32'57.916"W	6352.18	150.889	1.72	-0.03	1.72



Actual Wellpath Report

Alice Edge OHI 10H AWP Proj: 19220'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SOUTHWESTERN ENERGY	Slot	Slot #10
Area	Ohio County, WV	Well	Alice Edge OHI 10H
Field	Ohio	Wellbore	Alice Edge OHI 10H AWB
Facility	Alice Edge OHI Pad A		

WELLPATH DATA (222 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]
12734.00	89.320	163.330	6495.81	6406.30	-5637.69	3117.43	1766473.09	14557788.08	40°05'03.857"N	80°32'57.573"W	6442.20	151.059	1.01	0.03	1.01
12827.00	89.200	165.800	6497.01	6498.50	-5727.32	3142.18	1766497.83	14557698.49	40°05'02.970"N	80°32'57.260"W	6532.65	151.249	2.66	-0.13	2.66
12920.00	89.350	166.330	6498.19	6590.36	-5817.57	3164.58	1766520.22	14557608.27	40°05'02.077"N	80°32'56.978"W	6622.59	151.455	0.59	0.16	0.57
13013.00	89.260	166.670	6499.31	6682.11	-5908.00	3186.28	1766541.92	14557517.88	40°05'01.182"N	80°32'56.705"W	6712.44	151.661	0.38	-0.10	0.37
13106.00	89.350	166.830	6500.44	6773.79	-5998.51	3207.60	1766563.22	14557427.39	40°05'00.287"N	80°32'56.436"W	6802.27	151.865	0.20	0.10	0.17
13198.00	89.290	165.100	6501.53	6864.68	-6087.76	3229.91	1766585.52	14557338.18	40°04'59.404"N	80°32'56.155"W	6891.52	152.051	1.88	-0.07	-1.88
13289.00	89.420	163.310	6502.56	6954.98	-6175.31	3254.67	1766610.28	14557250.66	40°04'58.537"N	80°32'55.842"W	6980.50	152.209	1.97	0.14	-1.97
13381.00	89.410	162.780	6503.50	7046.48	-6263.31	3281.50	1766637.10	14557162.70	40°04'57.666"N	80°32'55.503"W	7070.88	152.349	0.58	-0.01	-0.58
13474.00	89.570	164.070	6504.33	7138.91	-6352.44	3308.03	1766663.62	14557073.60	40°04'56.784"N	80°32'55.167"W	7162.16	152.492	1.40	0.17	1.39
13565.00	90.550	173.320	6504.23	7227.96	-6441.58	3325.85	1766681.43	14556984.50	40°04'55.902"N	80°32'54.944"W	7249.49	152.692	10.22	1.08	10.16
13657.00	90.220	175.900	6503.61	7315.69	-6533.16	3334.49	1766690.07	14556892.95	40°04'54.997"N	80°32'54.839"W	7334.92	152.960	2.83	-0.36	2.80
13748.00	90.920	169.200	6502.71	7403.35	-6623.33	3346.28	1766701.86	14556802.81	40°04'54.105"N	80°32'54.693"W	7420.66	153.196	7.40	0.77	-7.36
13841.00	90.920	161.880	6501.21	7495.27	-6713.32	3369.49	1766725.05	14556712.87	40°04'53.215"N	80°32'54.400"W	7511.46	153.347	7.87	0.00	-7.87
13932.00	90.430	156.080	6500.14	7586.18	-6798.22	3402.11	1766757.66	14556628.00	40°04'52.374"N	80°32'53.986"W	7601.98	153.415	6.40	-0.54	-6.37
14025.00	90.150	151.300	6499.67	7678.98	-6881.56	3443.32	1766798.85	14556544.69	40°04'51.548"N	80°32'53.462"W	7694.95	153.418	5.15	-0.30	-5.14
14117.00	90.180	150.480	6499.40	7770.44	-6961.94	3488.08	1766843.59	14556464.34	40°04'50.752"N	80°32'52.891"W	7786.86	153.388	0.89	0.03	-0.89
14210.00	90.150	151.500	6499.13	7862.91	-7043.27	3533.18	1766888.68	14556383.04	40°04'49.946"N	80°32'52.316"W	7879.78	153.360	1.10	-0.03	1.10
14303.00	90.180	153.190	6498.87	7955.58	-7125.64	3576.34	1766931.82	14556300.70	40°04'49.130"N	80°32'51.766"W	7972.76	153.348	1.82	0.03	1.82
14396.00	90.120	155.420	6498.62	8048.47	-7209.44	3616.66	1766972.13	14556216.94	40°04'48.300"N	80°32'51.253"W	8065.74	153.359	2.40	-0.06	2.40
14489.00	90.030	155.350	6498.50	8141.42	-7293.99	3655.40	1767010.85	14556132.42	40°04'47.462"N	80°32'50.760"W	8158.69	153.382	0.12	-0.10	-0.08
14581.00	89.850	157.980	6498.60	8233.41	-7378.45	3691.84	1767047.27	14556047.99	40°04'46.626"N	80°32'50.297"W	8250.53	153.419	2.87	-0.20	2.86
14674.00	89.600	157.880	6499.04	8326.40	-7464.64	3726.78	1767082.20	14555961.83	40°04'45.772"N	80°32'49.853"W	8343.24	153.469	0.29	-0.27	-0.11
14767.00	89.230	156.700	6499.99	8419.39	-7550.42	3762.68	1767118.09	14555876.08	40°04'44.923"N	80°32'49.397"W	8436.03	153.511	1.33	-0.40	-1.27
14860.00	89.110	156.440	6501.34	8512.38	-7635.74	3799.66	1767155.05	14555790.79	40°04'44.078"N	80°32'48.927"W	8528.89	153.544	0.31	-0.13	-0.28
14952.00	89.170	159.060	6502.72	8604.36	-7720.88	3834.48	1767189.87	14555705.69	40°04'43.235"N	80°32'48.484"W	8620.63	153.589	2.85	0.07	2.85
15045.00	88.860	159.930	6504.32	8697.26	-7807.97	3867.06	1767222.43	14555618.63	40°04'42.372"N	80°32'48.071"W	8713.12	153.652	0.99	-0.33	0.94
15138.00	88.710	159.350	6506.29	8790.15	-7895.14	3899.40	1767254.76	14555531.50	40°04'41.509"N	80°32'47.661"W	8805.60	153.715	0.64	-0.16	-0.62
15230.00	88.650	158.870	6508.41	8882.07	-7981.07	3932.20	1767287.55	14555445.60	40°04'40.658"N	80°32'47.244"W	8897.17	153.771	0.53	-0.07	-0.52
15323.00	88.650	156.940	6510.60	8975.03	-8067.21	3967.17	1767322.50	14555359.49	40°04'39.805"N	80°32'46.800"W	8989.90	153.814	2.07	0.00	-2.08
15416.00	88.620	157.290	6512.82	9068.00	-8152.87	4003.33	1767358.65	14555273.87	40°04'38.957"N	80°32'46.341"W	9082.72	153.847	0.38	-0.03	0.38



Actual Wellpath Report

Alice Edge OHI 10H AWP Proj: 19220'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	SOUTHWESTERN ENERGY		Slot	Slot #10
Area	Ohio County, WV		Well	Alice Edge OHI 10H
Field	Ohio		Wellbore	Alice Edge OHI 10H AWB
Facility	Alice Edge OHI Pad A			

WELLPATH DATA (222 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]
15509.00	88.090	157.720	6515.49	9160.96	-8238.76	4038.89	1767394.20	14555188.01	40°04'38.107"N	80°32'45.889"W	9175.50	153.884	0.73	-0.57	0.46
15601.00	88.180	157.520	6518.48	9252.91	-8323.78	4073.90	1767429.20	14555103.02	40°04'37.265"N	80°32'45.444"W	9267.26	153.922	0.24	0.10	-0.22
15694.00	88.190	157.020	6521.43	9345.86	-8409.51	4109.82	1767465.10	14555017.32	40°04'36.416"N	80°32'44.988"W	9360.05	153.955	0.54	0.01	-0.54
15787.00	88.710	157.550	6523.94	9438.83	-8495.27	4145.72	1767500.98	14554931.60	40°04'35.566"N	80°32'44.531"W	9452.86	153.987	0.80	0.56	0.57
15880.00	89.450	156.610	6525.44	9531.81	-8580.91	4181.93	1767537.18	14554845.99	40°04'34.718"N	80°32'44.071"W	9545.71	154.018	1.29	0.80	-1.01
15972.00	89.410	155.170	6526.35	9623.78	-8664.88	4219.51	1767574.75	14554762.05	40°04'33.887"N	80°32'43.593"W	9637.66	154.035	1.57	-0.04	-1.57
16065.00	89.480	154.410	6527.25	9716.70	-8749.02	4259.12	1767614.34	14554677.95	40°04'33.053"N	80°32'43.089"W	9730.64	154.043	0.82	0.08	-0.82
16158.00	89.480	155.380	6528.10	9809.63	-8833.23	4298.58	1767653.78	14554593.77	40°04'32.219"N	80°32'42.587"W	9823.63	154.051	1.04	0.00	1.04
16251.00	89.480	155.900	6528.94	9902.59	-8917.95	4336.93	1767692.13	14554509.08	40°04'31.380"N	80°32'42.099"W	9916.59	154.066	0.56	0.00	0.56
16344.00	89.480	157.520	6529.78	9995.59	-9003.36	4373.70	1767728.88	14554423.70	40°04'30.534"N	80°32'41.632"W	10009.48	154.090	1.74	0.00	1.74
16437.00	89.480	157.950	6530.63	10088.58	-9089.42	4408.94	1767764.10	14554337.67	40°04'29.682"N	80°32'41.184"W	10102.29	154.124	0.46	0.00	0.46
16529.00	89.540	158.250	6531.42	10180.56	-9174.78	4443.25	1767798.40	14554252.35	40°04'28.836"N	80°32'40.749"W	10194.07	154.160	0.33	0.07	0.33
16622.00	89.230	159.320	6532.41	10273.51	-9261.47	4476.90	1767832.04	14554165.69	40°04'27.978"N	80°32'40.322"W	10286.76	154.201	1.20	-0.33	1.15
16715.00	89.200	159.290	6533.69	10366.43	-9348.46	4509.76	1767864.89	14554078.73	40°04'27.117"N	80°32'39.905"W	10379.39	154.247	0.05	-0.03	-0.03
16808.00	89.200	159.110	6534.99	10459.36	-9435.39	4542.79	1767897.90	14553991.84	40°04'26.256"N	80°32'39.485"W	10472.04	154.291	0.19	0.00	-0.19
16901.00	89.420	157.460	6536.11	10552.33	-9521.78	4577.19	1767932.29	14553905.48	40°04'25.400"N	80°32'39.049"W	10564.80	154.326	1.79	0.24	-1.77
16993.00	89.420	155.030	6537.04	10644.31	-9605.98	4614.25	1767969.33	14553821.32	40°04'24.567"N	80°32'38.577"W	10656.74	154.343	2.64	0.00	-2.64
17086.00	89.420	156.060	6537.98	10737.27	-9690.63	4652.74	1768007.81	14553736.70	40°04'23.728"N	80°32'38.088"W	10749.71	154.353	1.11	0.00	1.11
17179.00	89.540	156.380	6538.82	10830.26	-9775.73	4690.24	1768045.30	14553651.63	40°04'22.885"N	80°32'37.611"W	10842.66	154.369	0.37	0.13	0.34
17272.00	89.410	156.970	6539.68	10923.25	-9861.13	4727.06	1768082.11	14553566.27	40°04'22.039"N	80°32'37.143"W	10935.58	154.389	0.65	-0.14	0.63
17364.00	89.450	157.430	6540.59	11015.24	-9945.93	4762.71	1768117.74	14553481.49	40°04'21.200"N	80°32'36.690"W	11027.47	154.412	0.50	0.04	0.50
17457.00	89.510	155.870	6541.43	11108.23	-10031.31	4799.57	1768154.58	14553396.15	40°04'20.354"N	80°32'36.222"W	11120.39	154.431	1.68	0.06	-1.68
17550.00	89.110	151.260	6542.56	11201.02	-10114.56	4840.96	1768195.96	14553312.93	40°04'19.529"N	80°32'35.695"W	11213.35	154.424	4.98	-0.43	-4.96
17643.00	89.140	151.790	6543.98	11293.57	-10196.30	4885.29	1768240.27	14553231.22	40°04'18.719"N	80°32'35.130"W	11306.22	154.400	0.57	0.03	0.57
17736.00	89.170	156.670	6545.35	11386.42	-10280.01	4925.71	1768280.67	14553147.54	40°04'17.890"N	80°32'34.616"W	11399.18	154.398	5.25	0.03	5.25
17828.00	89.200	159.910	6546.66	11478.38	-10365.47	4959.73	1768314.69	14553062.12	40°04'17.044"N	80°32'34.184"W	11490.95	154.430	3.52	0.03	3.52
17921.00	89.170	160.510	6547.98	11571.23	-10452.97	4991.22	1768346.16	14552974.65	40°04'16.177"N	80°32'33.784"W	11583.47	154.476	0.65	-0.03	0.65
18014.00	89.230	158.700	6549.28	11664.13	-10540.12	5023.62	1768378.55	14552887.53	40°04'15.315"N	80°32'33.373"W	11676.09	154.517	1.95	0.06	-1.95
18107.00	89.230	158.820	6550.53	11757.08	-10626.80	5057.31	1768412.23	14552800.89	40°04'14.456"N	80°32'32.946"W	11768.83	154.550	0.13	0.00	0.13
18199.00	89.200	158.230	6551.79	11849.04	-10712.40	5090.99	1768445.89	14552715.32	40°04'13.609"N	80°32'32.518"W	11860.60	154.581	0.64	-0.03	-0.64



Actual Wellpath Report

Alice Edge OHI 10H AWP Proj: 19220'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SOUTHWESTERN ENERGY	Slot	Slot #10
Area	Ohio County, WV	Well	Alice Edge OHI 10H
Field	Ohio	Wellbore	Alice Edge OHI 10H AWB
Facility	Alice Edge OHI Pad A		

WELLPATH DATA (222 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]
18292.00	89.200	157.160	6553.09	11942.03	-10798.44	5126.28	1768481.17	14552629.32	40°04'12.757"N	80°32'32.070"W	11953.45	154.605	1.15	0.00	-1.15
18385.00	89.170	156.120	6554.41	12035.02	-10883.80	5163.15	1768518.03	14552543.98	40°04'11.911"N	80°32'31.601"W	12046.38	154.621	1.12	-0.03	-1.12
18478.00	89.230	156.230	6555.71	12127.99	-10968.87	5200.72	1768555.57	14552458.95	40°04'11.069"N	80°32'31.124"W	12139.34	154.633	0.13	0.06	0.12
18570.00	89.170	157.170	6556.99	12219.98	-11053.36	5237.10	1768591.95	14552374.49	40°04'10.232"N	80°32'30.661"W	12231.27	154.648	1.02	-0.07	1.02
18663.00	89.200	158.410	6558.32	12312.96	-11139.45	5272.25	1768627.08	14552288.44	40°04'09.379"N	80°32'30.215"W	12324.12	154.672	1.33	0.03	1.33
18756.00	89.230	157.690	6559.59	12405.94	-11225.70	5307.01	1768661.83	14552202.22	40°04'08.525"N	80°32'29.774"W	12416.95	154.697	0.77	0.03	-0.77
18848.00	89.230	156.250	6560.83	12497.93	-11310.35	5343.00	1768697.80	14552117.60	40°04'07.687"N	80°32'29.316"W	12508.87	154.714	1.57	0.00	-1.57
18941.00	89.260	156.660	6562.05	12590.92	-11395.60	5380.15	1768734.94	14552032.38	40°04'06.843"N	80°32'28.844"W	12601.82	154.727	0.44	0.03	0.44
19034.00	89.140	154.370	6563.35	12683.87	-11480.23	5418.68	1768773.46	14551947.79	40°04'06.004"N	80°32'28.354"W	12694.79	154.733	2.47	-0.13	-2.46
19127.00	89.170	154.350	6564.72	12776.75	-11564.06	5458.92	1768813.68	14551863.99	40°04'05.174"N	80°32'27.842"W	12787.78	154.730	0.04	0.03	-0.02
19196.00	89.230	155.980	6565.69	12845.70	-11626.67	5487.90	1768842.65	14551801.40	40°04'04.554"N	80°32'27.474"W	12856.77	154.732	2.36	0.09	2.36
19220.00	89.230	155.980	6566.01	12869.69	-11648.59	5497.67	1768852.41	14551779.49	40°04'04.337"N	80°32'27.349"W	12880.76	154.735	0.00	0.00	0.00



Actual Wellpath Report

Alice Edge OHI 10H AWP Proj: 19220'
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REFERENCE WELLPATH IDENTIFICATION

Operator	SOUTHWESTERN ENERGY	Slot	Slot #10
Area	Ohio County, WV	Well	Alice Edge OHI 10H
Field	Ohio	Wellbore	Alice Edge OHI 10H AWB
Facility	Alice Edge OHI Pad A		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Alice Edge OHI 10H LP Rev-2		6420.00	-170.08	1256.68	1764613.06	14563253.59	40°05'57.980"N	80°33'21.161"W	point
Alice Edge OHI 10H WP1 Rev-2		6466.07	-4310.50	2744.67	1766100.47	14559114.76	40°05'16.991"N	80°33'02.282"W	point
Alice Edge OHI 10H WP2 Rev-2		6492.87	-6774.79	3427.32	1766782.86	14556651.42	40°04'52.604"N	80°32'53.660"W	point
Alice Edge OHI 10H BHL Rev-2		6548.35	-11654.92	5488.29	1768843.04	14551773.16	40°04'04.274"N	80°32'27.470"W	point

WELLPATH COMPOSITION - Ref Wellbore: Alice Edge OHI 10H AWB Ref Wellpath: Alice Edge OHI 10H AWP Proj: 19220'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
26.00	674.00	Generic gyro - northseeking (Standard)	01_SDI Gyro <17-1/2"> (100'-674')	Alice Edge OHI 10H AWB
674.00	2079.00	NaviTrak (MagCorr)	02_APS EM <12-1/4"> (674')(798'-2079')	Alice Edge OHI 10H AWB
2079.00	5775.00	NaviTrak (MagCorr)	03_APS EM <8-3/4"> (2079')(2188'-5775')	Alice Edge OHI 10H AWB
5775.00	6471.00	NaviTrak (AT Curve Short Spaced)	04_BHI AT Curve (SS) <8-1/2"> (5775')(5868'-6471')	Alice Edge OHI 10H AWB
6471.00	19196.00	NaviTrak (MagCorr)	05_BHI AT Curve (MagCorr) <8-1/2"> (6471')(6517'-19196')	Alice Edge OHI 10H AWB
19196.00	19220.00	Blind Drilling (std)	Projection to bit	Alice Edge OHI 10H AWB



Actual Wellpath Report
 Alice Edge OHI 10H AWP Proj: 19220'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SOUTHWESTERN ENERGY	Slot	Slot #10
Area	Ohio County, WV	Well	Alice Edge OHI 10H
Field	Ohio	Wellbore	Alice Edge OHI 10H AWB
Facility	Alice Edge OHI Pad A		

COMMENTS
<p>Wellpath general comments API: 47-069-00186-0000 BHI Job #: 7240873 Rig: Rocket Rig 40 Duration: 5/20/2015-5/30/2015 SDI Gyro <17-1/2"> (100'-674') APS EM <12-1/4"> (674')(798'-2079') APS EM <8-3/4"> (2079')(2188'-5775') BHI AT Curve <8-1/2"> (5775')(5868'-19196') Projected MD at TD: 19220'</p>