



Actual Wellpath Report
 David Reinbeau MSH 6H awp Proj: 27850'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	David Reinbeau MSH 6H
Field	Marshall	API	47051025000000
Facility	David Reinbeau MSH Pad	Wellbore	David Reinbeau MSH 6H AWB
Slot	6H		

REPORT SETUP INFORMATION			
Projection System	NAD83 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Tranlam
Scale	0.999610	Report Generated	9/28/2023 at 10:29:59 AM
Convergence at slot	0.22° East	Database	WA_MPL_EASTERNUS_Defn

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North [ft]	East [ft]	Easting [US ft]	Northing [US ft]	Latitude	Longitude
Slot Location	19.95	-18.69	1735199.98	14524266.35	39°59'33.8307"N	80°39'41.7095"W
Facility Reference Pt			1735218.67	14524246.41	39°59'33.6329"N	80°39'41.4703"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.4780"W

WELLPATH DATUM			
Calculation method	Minimum curvature	SDC 40 (KB) to Facility Vertical Datum	1277.20ft
Horizontal Reference Pt	Slot	SDC 40 (KB) to Mean Sea Level	1277.20ft
Vertical Reference Pt	SDC 40 (KB)	SDC 40 (KB) to Ground Level at Slot (6H)	26.00ft
MD Reference Pt	SDC 40 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	160.51°

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WELLPATH DATA (303 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]		
0.00†	0.000	147.280	0.00	0.00	0.00	0.00	1735199.98	14524266.35	39°59'33.8307"N	80°39'41.7095"W	0.00	0.000	0.00		
26.00	0.000	147.280	26.00	0.00	0.00	0.00	1735199.98	14524266.35	39°59'33.8307"N	80°39'41.7095"W	0.00	0.000	0.00		
50.00	0.110	147.280	50.00	0.02	-0.02	0.01	1735199.99	14524266.33	39°59'33.8305"N	80°39'41.7094"W	0.02	147.280	0.46		
100.00	0.250	166.250	100.00	0.18	-0.17	0.06	1735200.04	14524266.18	39°59'33.8291"N	80°39'41.7087"W	0.18	158.786	0.30		
150.00	0.300	163.700	150.00	0.42	-0.40	0.13	1735200.11	14524265.95	39°59'33.8268"N	80°39'41.7079"W	0.42	162.275	0.10		
200.00	0.200	160.860	200.00	0.63	-0.61	0.19	1735200.17	14524265.74	39°59'33.8247"N	80°39'41.7071"W	0.64	162.374	0.20		
250.00	0.260	152.540	250.00	0.83	-0.79	0.27	1735200.25	14524265.56	39°59'33.8229"N	80°39'41.7060"W	0.83	160.885	0.14		
300.00	0.170	161.700	300.00	1.02	-0.96	0.35	1735200.33	14524265.39	39°59'33.8212"N	80°39'41.7051"W	1.02	160.021	0.19		
350.00	0.180	158.660	350.00	1.17	-1.10	0.40	1735200.38	14524265.25	39°59'33.8198"N	80°39'41.7044"W	1.17	160.036	0.03		
400.00	0.120	165.300	400.00	1.30	-1.23	0.44	1735200.42	14524265.12	39°59'33.8186"N	80°39'41.7039"W	1.30	160.164	0.12		
450.00	0.020	210.710	450.00	1.36	-1.29	0.45	1735200.43	14524265.07	39°59'33.8180"N	80°39'41.7038"W	1.36	160.644	0.21		
500.00	0.140	181.560	500.00	1.42	-1.35	0.45	1735200.43	14524265.00	39°59'33.8173"N	80°39'41.7039"W	1.43	161.790	0.25		
550.00	0.170	196.070	550.00	1.54	-1.49	0.42	1735200.40	14524264.86	39°59'33.8160"N	80°39'41.7042"W	1.55	164.106	0.10		
600.00	0.250	195.630	600.00	1.69	-1.66	0.37	1735200.35	14524264.69	39°59'33.8143"N	80°39'41.7048"W	1.70	167.347	0.16		
650.00	0.310	212.070	650.00	1.86	-1.88	0.27	1735200.25	14524264.47	39°59'33.8121"N	80°39'41.7061"W	1.90	171.776	0.20		
700.00	0.490	207.770	700.00	2.09	-2.19	0.10	1735200.08	14524264.17	39°59'33.8091"N	80°39'41.7083"W	2.19	177.366	0.36		
750.00	0.440	193.140	749.99	2.40	-2.56	-0.04	1735199.94	14524263.79	39°59'33.8054"N	80°39'41.7102"W	2.56	180.955	0.26		
762.00	0.470	194.780	761.99	2.48	-2.65	-0.07	1735199.91	14524263.70	39°59'33.8045"N	80°39'41.7105"W	2.66	181.418	0.27		
851.00	1.650	231.280	850.98	3.20	-3.81	-1.16	1735198.82	14524262.54	39°59'33.7931"N	80°39'41.7246"W	3.98	196.919	1.46		
970.00	4.100	244.100	969.82	4.24	-6.74	-6.32	1735193.66	14524259.61	39°59'33.7643"N	80°39'41.7911"W	9.24	223.175	2.12		
1062.00	5.340	245.600	1061.51	4.98	-9.94	-13.18	1735186.80	14524256.41	39°59'33.7329"N	80°39'41.8794"W	16.51	232.966	1.35		
1152.00	5.220	251.700	1151.12	5.25	-12.96	-20.88	1735179.11	14524253.40	39°59'33.7034"N	80°39'41.9784"W	24.58	238.174	0.64		
1244.00	5.130	259.170	1242.75	4.54	-15.05	-28.89	1735171.10	14524251.31	39°59'33.6831"N	80°39'42.0815"W	32.58	242.492	0.74		
1334.00	4.820	268.830	1332.41	2.75	-15.88	-36.63	1735163.37	14524250.48	39°59'33.6751"N	80°39'42.1809"W	39.92	246.560	0.99		
1425.00	4.690	268.500	1423.10	0.40	-16.06	-44.17	1735155.83	14524250.30	39°59'33.6737"N	80°39'42.2778"W	47.00	250.023	0.15		
1516.00	5.470	266.350	1513.74	-1.93	-16.43	-52.22	1735147.78	14524249.93	39°59'33.6703"N	80°39'42.3812"W	54.74	252.534	0.88		
1606.00	6.280	273.550	1603.27	-5.03	-16.40	-61.41	1735138.59	14524249.96	39°59'33.6710"N	80°39'42.4993"W	63.56	255.050	1.22		
1697.00	7.630	278.400	1693.60	-9.81	-15.21	-72.36	1735127.65	14524251.15	39°59'33.6831"N	80°39'42.6399"W	73.94	258.131	1.62		
1788.00	8.380	281.590	1783.71	-16.05	-12.99	-84.83	1735115.19	14524253.36	39°59'33.7055"N	80°39'42.8000"W	85.82	261.292	0.96		
1880.00	8.390	278.770	1874.73	-22.69	-10.62	-98.03	1735101.99	14524255.73	39°59'33.7294"N	80°39'42.9695"W	98.60	263.816	0.45		

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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]
1970.00	8.690	277.690	1963.73	-28.91	-8.71	-111.26	1735088.77	14524257.64	39°59'33.7488"N	80°39'43.1394"W	111.60	265.523	0.38
2115.00	9.900	274.220	2106.82	-38.92	-6.33	-134.54	1735065.49	14524260.02	39°59'33.7732"N	80°39'43.4385"W	134.69	267.307	0.92
2161.00	10.130	273.110	2152.12	-42.07	-5.82	-142.53	1735057.51	14524260.54	39°59'33.7786"N	80°39'43.5410"W	142.64	267.663	0.65
2255.00	6.790	295.170	2245.11	-49.16	-3.00	-155.82	1735044.22	14524263.35	39°59'33.8069"N	80°39'43.7116"W	155.85	268.896	4.89
2345.00	5.950	314.000	2334.56	-57.07	2.50	-163.99	1735036.06	14524268.85	39°59'33.8616"N	80°39'43.8164"W	164.01	270.873	2.49
2436.00	7.250	305.750	2424.96	-66.01	9.13	-172.04	1735028.01	14524275.48	39°59'33.9274"N	80°39'43.9195"W	172.28	273.038	1.76
2526.00	8.340	301.160	2514.13	-75.72	15.83	-182.24	1735017.81	14524282.17	39°59'33.9939"N	80°39'44.0502"W	182.92	274.964	1.39
2617.00	7.450	293.920	2604.27	-84.88	21.63	-193.28	1735006.78	14524287.98	39°59'34.0517"N	80°39'44.1917"W	194.48	276.387	1.46
2707.00	8.340	291.990	2693.41	-93.21	26.44	-204.66	1734995.40	14524292.78	39°59'34.0997"N	80°39'44.3378"W	206.36	277.362	1.03
2798.00	9.430	297.860	2783.32	-103.07	32.40	-217.37	1734982.69	14524298.74	39°59'34.1590"N	80°39'44.5008"W	219.78	278.477	1.56
2889.00	9.100	294.070	2873.14	-113.51	38.82	-230.54	1734969.53	14524305.15	39°59'34.2230"N	80°39'44.6696"W	233.78	279.558	0.76
2979.00	8.870	289.880	2962.03	-122.82	44.08	-243.56	1734956.52	14524310.41	39°59'34.2754"N	80°39'44.8367"W	247.52	280.259	0.77
3070.00	8.150	286.010	3052.03	-131.01	48.25	-256.36	1734943.72	14524314.58	39°59'34.3171"N	80°39'45.0009"W	260.86	280.658	1.01
3160.00	7.520	280.030	3141.19	-137.62	51.03	-268.29	1734931.80	14524317.36	39°59'34.3451"N	80°39'45.1541"W	273.10	280.769	1.14
3254.00	7.050	282.350	3234.43	-143.69	53.34	-279.98	1734920.11	14524319.66	39°59'34.3683"N	80°39'45.3042"W	285.02	280.785	0.59
3345.00	7.010	290.560	3324.75	-150.21	56.48	-290.64	1734909.46	14524322.81	39°59'34.3997"N	80°39'45.4409"W	296.07	280.997	1.10
3436.00	6.080	285.890	3415.16	-156.58	59.75	-300.47	1734899.63	14524326.08	39°59'34.4324"N	80°39'45.5671"W	306.35	281.247	1.18
3526.00	5.180	281.100	3504.72	-161.40	61.84	-309.04	1734891.06	14524328.16	39°59'34.4534"N	80°39'45.6771"W	315.17	281.315	1.13
3617.00	5.470	284.940	3595.33	-165.95	63.75	-317.26	1734882.84	14524330.07	39°59'34.4725"N	80°39'45.7827"W	323.60	281.361	0.50
3708.00	6.930	291.380	3685.80	-171.99	66.87	-326.57	1734873.54	14524333.19	39°59'34.5037"N	80°39'45.9021"W	333.34	281.572	1.77
3799.00	8.120	293.030	3776.01	-179.93	71.38	-337.59	1734862.52	14524337.70	39°59'34.5488"N	80°39'46.0435"W	345.06	281.939	1.33
3889.00	7.910	289.040	3865.13	-188.08	75.89	-349.30	1734850.82	14524342.21	39°59'34.5937"N	80°39'46.1937"W	357.45	282.258	0.66
3980.00	7.590	290.860	3955.30	-195.87	80.07	-360.83	1734839.29	14524346.39	39°59'34.6355"N	80°39'46.3417"W	369.61	282.512	0.44
4071.00	8.220	291.740	4045.44	-204.05	84.62	-372.49	1734827.63	14524350.94	39°59'34.6809"N	80°39'46.4912"W	381.98	282.799	0.70
4164.00	8.100	290.020	4137.50	-212.60	89.33	-384.82	1734815.31	14524355.64	39°59'34.7279"N	80°39'46.6495"W	395.05	283.068	0.29
4254.00	8.350	290.530	4226.57	-220.84	93.79	-396.90	1734803.24	14524360.10	39°59'34.7724"N	80°39'46.8044"W	407.83	283.295	0.29
4344.00	8.120	288.020	4315.64	-228.91	98.05	-409.06	1734791.08	14524364.36	39°59'34.8149"N	80°39'46.9605"W	420.65	283.479	0.47
4435.00	8.860	288.250	4405.64	-237.11	102.23	-421.83	1734778.31	14524368.54	39°59'34.8568"N	80°39'47.1243"W	434.04	283.623	0.81
4525.00	9.490	288.120	4494.49	-245.88	106.71	-435.47	1734764.69	14524373.02	39°59'34.9015"N	80°39'47.2993"W	448.35	283.769	0.70
4616.00	7.850	284.030	4584.45	-253.89	110.55	-448.63	1734751.53	14524376.85	39°59'34.9400"N	80°39'47.4682"W	462.04	283.843	1.92

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4706.00	8.290	287.820	4673.56	-161.22	114.02	-460.76	1734739.40	14524380.33	39°59'34.9748"N	80°39'47.6240"W	474.66	283.899	0.77
4797.00	8.040	286.450	4763.64	-168.93	117.83	-473.11	1734727.05	14524384.14	39°59'35.0129"N	80°39'47.7825"W	487.57	283.985	0.35
4887.00	6.740	278.370	4852.89	-175.09	120.38	-484.38	1734715.79	14524386.69	39°59'35.0385"N	80°39'47.9270"W	499.11	283.957	1.85
4993.00	8.230	281.840	4957.98	-181.95	122.85	-497.96	1734702.22	14524389.15	39°59'35.0633"N	80°39'48.1014"W	512.89	283.858	1.47
5084.00	8.830	292.120	5047.98	-189.97	126.81	-510.80	1734689.38	14524393.11	39°59'35.1030"N	80°39'48.2662"W	526.31	283.943	1.80
5175.00	8.830	287.680	5137.91	-198.83	131.56	-523.93	1734676.26	14524397.86	39°59'35.1505"N	80°39'48.4347"W	540.19	284.096	0.75
5265.00	8.770	288.110	5226.85	-107.19	135.80	-537.03	1734663.16	14524402.09	39°59'35.1928"N	80°39'48.6028"W	553.93	284.191	0.10
5356.00	8.860	288.300	5316.77	-115.72	140.15	-550.28	1734649.92	14524406.45	39°59'35.2363"N	80°39'48.7728"W	567.84	284.289	0.10
5446.00	8.670	287.780	5405.72	-124.07	144.40	-563.32	1734636.88	14524410.69	39°59'35.2788"N	80°39'48.9401"W	581.53	284.378	0.23
5537.00	8.650	287.290	5495.68	-132.32	148.53	-576.38	1734623.82	14524414.82	39°59'35.3201"N	80°39'49.1078"W	595.21	284.450	0.08
5628.00	8.760	287.470	5585.63	-140.59	152.64	-589.53	1734610.69	14524418.93	39°59'35.3612"N	80°39'49.2765"W	608.97	284.516	0.12
5718.00	8.630	287.410	5674.60	-148.76	156.72	-602.51	1734597.71	14524423.01	39°59'35.4020"N	80°39'49.4430"W	622.55	284.580	0.14
5810.00	8.850	249.060	5765.61	-152.73	156.26	-615.71	1734584.51	14524422.54	39°59'35.3979"N	80°39'49.6127"W	635.23	284.240	6.22
5900.00	13.870	206.110	5853.96	-144.99	144.07	-626.95	1734573.27	14524410.36	39°59'35.2779"N	80°39'49.7577"W	643.29	282.941	10.56
5992.00	19.910	188.400	5942.01	-123.39	118.63	-634.10	1734566.12	14524384.93	39°59'35.0267"N	80°39'49.8509"W	645.11	280.596	8.55
6082.00	27.240	181.010	6024.46	-90.51	82.82	-636.71	1734563.52	14524349.13	39°59'34.6729"N	80°39'49.8861"W	642.07	277.411	8.77
6183.00	35.570	173.510	6110.62	-40.12	30.41	-633.79	1734566.44	14524296.74	39°59'34.1549"N	80°39'49.8511"W	634.52	272.747	9.10
6279.00	44.850	173.410	6183.85	-79.79	-31.10	-626.73	1734573.49	14524235.26	39°59'33.5468"N	80°39'49.7634"W	627.51	267.159	9.67
6376.00	53.150	170.410	6247.44	-08.08	-103.48	-616.32	1734583.90	14524162.91	39°59'32.8311"N	80°39'49.6332"W	624.95	260.469	8.87
6473.00	62.300	169.240	6299.19	27.23	-184.11	-601.81	1734598.41	14524082.31	39°59'32.0338"N	80°39'49.4506"W	629.34	252.990	9.49
6569.00	70.230	165.970	6337.81	59.90	-269.84	-582.89	1734617.32	14523996.61	39°59'31.1859"N	80°39'49.2117"W	642.32	245.159	8.83
6666.00	78.980	163.070	6363.54	53.09	-359.86	-557.91	1734642.29	14523906.63	39°59'30.2954"N	80°39'48.8951"W	663.90	237.178	9.47
6762.00	87.350	161.750	6374.95	48.27	-450.63	-529.12	1734671.07	14523815.90	39°59'29.3972"N	80°39'48.5296"W	695.01	229.580	8.82
6859.00	89.940	161.980	6377.25	45.21	-542.78	-498.94	1734701.24	14523723.78	39°59'28.4855"N	80°39'48.1463"W	737.26	222.590	2.68
6956.00	89.910	161.830	6377.37	42.18	-634.98	-468.81	1734731.35	14523631.62	39°59'27.5732"N	80°39'47.7637"W	789.30	216.439	0.16
7052.00	89.910	161.660	6377.52	38.16	-726.15	-438.74	1734761.41	14523540.48	39°59'26.6711"N	80°39'47.3818"W	848.40	211.140	0.18
7149.00	89.720	159.910	6377.84	35.15	-817.74	-406.82	1734793.32	14523448.93	39°59'25.7648"N	80°39'46.9761"W	913.35	206.450	1.81
7245.00	89.910	161.800	6378.15	31.15	-908.43	-375.34	1734824.79	14523358.28	39°59'24.8674"N	80°39'46.5760"W	982.91	202.449	1.98
7342.00	90.000	161.970	6378.22	28.12	-1000.62	-345.18	1734854.94	14523266.12	39°59'23.9552"N	80°39'46.1930"W	1058.48	199.033	0.20
7439.00	90.280	163.390	6377.99	25.05	-1093.22	-316.30	1734883.80	14523173.56	39°59'23.0391"N	80°39'45.8265"W	1138.06	196.137	1.49

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06/14/2024

REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	David Reinbeau MSH 6H
Field	Marshall	API	47051025000000
Facility	David Reinbeau MSH Pad	Wellbore	David Reinbeau MSH 6H AWB
Slot	6H		

WELLPATH DATA (303 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]
7536.00	89.970	161.860	6377.77	021.98	-1185.79	-287.33	1734912.76	14523081.02	39°59'22.1232"N	80°39'45.4589"W	1220.11	193.621	1.61
7632.00	89.970	161.570	6377.82	117.96	-1276.94	-257.21	1734942.87	14522989.91	39°59'21.2213"N	80°39'45.0764"W	1302.59	191.389	0.30
7728.00	90.060	160.420	6377.80	213.95	-1367.71	-225.95	1734974.12	14522899.18	39°59'20.3231"N	80°39'44.6791"W	1386.25	189.381	1.20
7825.00	90.030	160.280	6377.72	310.95	-1459.06	-193.33	1735006.72	14522807.86	39°59'19.4191"N	80°39'44.2645"W	1471.81	187.548	0.15
7921.00	90.030	160.300	6377.67	406.95	-1549.43	-160.96	1735039.09	14522717.52	39°59'18.5248"N	80°39'43.8530"W	1557.77	185.931	0.02
8017.00	90.550	161.790	6377.19	502.94	-1640.23	-129.78	1735070.26	14522626.77	39°59'17.6264"N	80°39'43.4568"W	1645.35	184.524	1.64
8114.00	90.220	160.520	6376.54	599.93	-1732.02	-98.44	1735101.57	14522535.01	39°59'16.7181"N	80°39'43.0587"W	1734.82	183.253	1.35
8210.00	89.880	159.870	6376.45	695.93	-1822.34	-65.92	1735134.09	14522444.72	39°59'15.8243"N	80°39'42.6453"W	1823.53	182.072	0.76
8307.00	89.970	159.640	6376.58	792.92	-1913.35	-32.35	1735167.64	14522353.75	39°59'14.9237"N	80°39'42.2185"W	1913.62	180.969	0.25
8404.00	89.940	159.980	6376.65	889.91	-2004.39	1.13	1735201.10	14522262.75	39°59'14.0228"N	80°39'41.7928"W	2004.39	179.968	0.35
8500.00	89.910	160.190	6376.78	985.91	-2094.65	33.83	1735233.79	14522172.52	39°59'13.1296"N	80°39'41.3771"W	2094.92	179.075	0.22
8597.00	90.280	160.410	6376.62	1082.91	-2185.97	66.52	1735266.48	14522081.24	39°59'12.2259"N	80°39'40.9615"W	2186.98	178.257	0.44
8693.00	90.250	161.540	6376.18	1178.90	-2276.72	97.82	1735297.76	14521990.52	39°59'11.3278"N	80°39'40.5639"W	2278.82	177.540	1.18
8790.00	89.970	159.360	6375.99	1275.90	-2368.13	130.27	1735330.20	14521899.15	39°59'10.4234"N	80°39'40.1514"W	2371.71	176.851	2.27
8887.00	89.880	159.750	6376.12	1372.88	-2459.02	164.16	1735364.07	14521808.30	39°59'9.5239"N	80°39'39.7205"W	2464.49	176.181	0.41
8983.00	90.030	160.410	6376.19	1468.88	-2549.27	196.86	1735396.77	14521718.08	39°59'8.6307"N	80°39'39.3047"W	2556.86	175.584	0.71
9080.00	89.850	159.880	6376.29	1565.88	-2640.51	229.81	1735429.70	14521626.88	39°59'7.7279"N	80°39'38.8860"W	2650.49	175.026	0.58
9176.00	89.720	156.300	6376.65	1661.78	-2729.56	265.63	1735465.50	14521537.86	39°59'6.8465"N	80°39'38.4302"W	2742.45	174.442	3.73
9273.00	89.690	152.820	6377.15	1758.24	-2817.14	307.29	1735507.15	14521450.32	39°59'5.9795"N	80°39'37.8993"W	2833.85	173.775	3.59
9369.00	89.660	159.940	6377.70	1853.92	-2905.04	345.73	1735545.57	14521362.45	39°59'5.1094"N	80°39'37.4098"W	2925.54	173.213	7.42
9466.00	89.780	159.960	6378.17	1950.92	-2996.16	378.98	1735578.81	14521271.37	39°59'4.2076"N	80°39'36.9870"W	3020.03	172.791	0.13
9562.00	87.260	160.840	6380.65	2046.88	-3086.55	411.17	1735610.99	14521181.00	39°59'3.3131"N	80°39'36.5779"W	3113.82	172.412	2.78
9659.00	87.720	161.170	6384.90	2143.78	-3178.18	442.71	1735642.52	14521089.41	39°59'2.4064"N	80°39'36.1772"W	3208.87	172.070	0.58
9756.00	88.150	161.090	6388.40	2240.71	-3269.91	474.06	1735673.86	14520997.72	39°59'1.4987"N	80°39'35.7789"W	3304.10	171.751	0.45
9852.00	88.250	161.140	6391.41	2336.66	-3360.70	505.12	1735704.90	14520906.97	39°59'0.6004"N	80°39'35.3844"W	3398.45	171.452	0.12
9949.00	88.740	161.900	6393.96	2433.61	-3452.66	535.86	1735735.63	14520815.04	39°58'59.6904"N	80°39'34.9941"W	3494.00	171.178	0.93
10045.00	88.770	161.750	6396.04	2529.56	-3543.85	565.79	1735765.55	14520723.89	39°58'58.7881"N	80°39'34.6139"W	3588.73	170.929	0.16
10142.00	88.830	162.100	6398.08	2626.51	-3636.05	595.88	1735795.63	14520631.73	39°58'57.8759"N	80°39'34.2319"W	3684.55	170.693	0.37
10238.00	88.620	161.640	6400.21	2722.46	-3727.26	625.75	1735825.48	14520540.55	39°58'56.9734"N	80°39'33.8528"W	3779.42	170.470	0.53
10335.00	88.950	161.750	6402.27	2819.42	-3819.33	656.21	1735855.93	14520448.52	39°58'56.0624"N	80°39'33.4660"W	3875.29	170.251	0.36

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Slot	6H		

WELLPATH DATA (303 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]
10431.00	89.380	161.860	6403.67	915.38	-3910.52	686.18	1735885.89	14520357.36	39°58'55.1601"N	80°39'33.0854"W	3970.26	170.048	0.46
10527.00	89.630	161.790	6404.50	011.35	-4001.72	716.12	1735915.82	14520266.19	39°58'54.2576"N	80°39'32.7053"W	4065.30	169.854	0.27
10624.00	89.850	161.250	6404.94	108.34	-4093.72	746.87	1735946.56	14520174.23	39°58'53.3473"N	80°39'32.3148"W	4161.29	169.661	0.60
10720.00	89.570	162.100	6405.42	204.31	-4184.85	777.05	1735976.73	14520083.14	39°58'52.4456"N	80°39'31.9316"W	4256.38	169.481	0.93
10817.00	89.350	160.430	6406.34	301.30	-4276.70	808.20	1736007.87	14519991.32	39°58'51.5367"N	80°39'31.5359"W	4352.40	169.299	1.74
10913.00	89.480	161.820	6407.32	397.29	-4367.53	839.26	1736038.91	14519900.53	39°58'50.6379"N	80°39'31.1414"W	4447.44	169.123	1.45
11009.00	89.420	161.660	6408.24	493.26	-4458.70	869.34	1736068.97	14519809.40	39°58'49.7359"N	80°39'30.7595"W	4542.65	168.967	0.18
11106.00	89.600	162.310	6409.07	590.22	-4550.94	899.33	1736098.96	14519717.20	39°58'48.8232"N	80°39'30.3787"W	4638.95	168.822	0.70
11203.00	89.380	161.570	6409.93	687.19	-4643.15	929.40	1736129.02	14519625.02	39°58'47.9108"N	80°39'29.9970"W	4735.26	168.681	0.80
11299.00	89.850	162.150	6410.58	783.16	-4734.38	959.29	1736158.89	14519533.83	39°58'47.0081"N	80°39'29.6176"W	4830.59	168.546	0.78
11396.00	89.750	161.190	6410.92	880.14	-4826.46	989.80	1736189.39	14519441.78	39°58'46.0970"N	80°39'29.2302"W	4926.90	168.411	1.00
11492.00	89.910	162.040	6411.20	976.12	-4917.55	1020.07	1736219.65	14519350.72	39°58'45.1956"N	80°39'28.8458"W	5022.24	168.281	0.90
11589.00	89.850	161.800	6411.40	073.09	-5009.77	1050.18	1736249.75	14519258.55	39°58'44.2832"N	80°39'28.4636"W	5118.65	168.161	0.26
11685.00	89.690	161.410	6411.79	169.07	-5100.86	1080.47	1736280.03	14519167.49	39°58'43.3819"N	80°39'28.0790"W	5214.04	168.040	0.44
11782.00	89.750	161.410	6412.26	266.06	-5192.80	1111.39	1736310.94	14519075.59	39°58'42.4721"N	80°39'27.6863"W	5310.40	167.919	0.06
11878.00	89.690	161.570	6412.73	362.04	-5283.83	1141.87	1736341.40	14518984.59	39°58'41.5714"N	80°39'27.2993"W	5405.80	167.806	0.18
11975.00	89.880	161.660	6413.10	459.02	-5375.88	1172.46	1736371.98	14518892.58	39°58'40.6606"N	80°39'26.9108"W	5502.25	167.697	0.22
12071.00	89.600	160.080	6413.53	555.02	-5466.57	1203.92	1736403.43	14518801.92	39°58'39.7631"N	80°39'26.5112"W	5597.57	167.580	1.67
12168.00	89.880	161.930	6413.97	652.01	-5558.29	1235.49	1736434.99	14518710.24	39°58'38.8556"N	80°39'26.1102"W	5693.94	167.468	1.93
12264.00	89.820	161.430	6414.22	747.99	-5649.42	1265.67	1736465.15	14518619.14	39°58'37.9538"N	80°39'25.7271"W	5789.46	167.372	0.52
12361.00	89.450	161.580	6414.84	844.97	-5741.41	1296.44	1736495.91	14518527.19	39°58'37.0436"N	80°39'25.3364"W	5885.96	167.276	0.41
12458.00	89.600	161.930	6415.65	941.94	-5833.53	1326.81	1736526.27	14518435.11	39°58'36.1321"N	80°39'24.9509"W	5982.51	167.186	0.39
12554.00	89.630	163.360	6416.29	037.87	-5925.15	1355.44	1736554.89	14518343.52	39°58'35.2255"N	80°39'24.5876"W	6078.21	167.115	1.49
12650.00	89.080	161.950	6417.37	133.80	-6016.78	1384.06	1736583.50	14518251.93	39°58'34.3190"N	80°39'24.2245"W	6173.92	167.045	1.58
12747.00	88.860	161.750	6419.11	230.75	-6108.94	1414.27	1736613.69	14518159.81	39°58'33.4071"N	80°39'23.8410"W	6270.51	166.965	0.31
12843.00	88.980	162.030	6420.92	326.71	-6200.17	1444.10	1736643.52	14518068.61	39°58'32.5044"N	80°39'23.4623"W	6366.12	166.889	0.32
12939.00	89.020	159.600	6422.60	422.69	-6290.81	1475.64	1736675.05	14517978.00	39°58'31.6074"N	80°39'23.0616"W	6461.57	166.799	2.53
13036.00	88.950	157.780	6424.32	519.62	-6381.16	1510.89	1736710.28	14517887.69	39°58'30.7132"N	80°39'22.6134"W	6557.59	166.679	1.88
13133.00	89.820	159.420	6425.36	616.55	-6471.47	1546.28	1736745.65	14517797.42	39°58'29.8194"N	80°39'22.1633"W	6653.63	166.562	1.91
13229.00	89.690	158.710	6425.77	712.52	-6561.13	1580.58	1736779.94	14517707.79	39°58'28.9321"N	80°39'21.7272"W	6748.82	166.455	0.75

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Actual Wellpath Report

David Reinbeau MSH 6H awp Proj: 27850'
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13325.00	89.660	158.350	6426.31	6308.46	-6650.46	1615.72	1736815.06	14517618.49	39°58'28.0479"N	80°39'21.2803"W	6843.92	166.345	0.38
13421.00	89.630	158.390	6426.91	6904.39	-6739.70	1651.10	1736850.43	14517529.29	39°58'27.1646"N	80°39'20.8302"W	6939.00	166.235	0.05
13518.00	89.540	158.110	6427.61	7001.32	-6829.79	1687.04	1736886.36	14517439.23	39°58'26.2730"N	80°39'20.3729"W	7035.07	166.125	0.30
13614.00	89.600	158.340	6428.33	7097.24	-6918.94	1722.66	1736921.96	14517350.12	39°58'25.3906"N	80°39'19.9200"W	7130.17	166.019	0.25
13711.00	89.630	159.830	6428.98	7194.20	-7009.55	1757.28	1736956.57	14517259.55	39°58'24.4939"N	80°39'19.4797"W	7226.46	165.926	1.54
13807.00	89.780	161.740	6429.48	7290.19	-7100.19	1788.87	1736988.15	14517168.94	39°58'23.5969"N	80°39'19.0784"W	7322.08	165.859	2.00
13904.00	89.750	162.060	6429.88	7387.17	-7192.39	1819.01	1737018.28	14517076.78	39°58'22.6846"N	80°39'18.6959"W	7418.85	165.807	0.33
14000.00	89.690	161.740	6430.35	7483.14	-7283.64	1848.83	1737048.09	14516985.56	39°58'21.7817"N	80°39'18.3174"W	7514.63	165.757	0.34
14097.00	89.690	161.790	6430.87	7580.11	-7375.77	1879.19	1737078.43	14516893.47	39°58'20.8702"N	80°39'17.9321"W	7611.39	165.706	0.05
14193.00	89.540	161.200	6431.52	7676.09	-7466.80	1909.66	1737108.89	14516802.47	39°58'19.9694"N	80°39'17.5453"W	7707.13	165.654	0.63
14289.00	89.540	161.620	6432.29	7772.08	-7557.79	1940.26	1737139.48	14516711.52	39°58'19.0690"N	80°39'17.1567"W	7802.87	165.602	0.44
14385.00	89.660	161.600	6432.96	7868.06	-7648.88	1970.54	1737169.75	14516620.46	39°58'18.1676"N	80°39'16.7722"W	7898.64	165.553	0.13
14481.00	89.660	161.650	6433.53	7964.04	-7739.99	2000.81	1737200.00	14516529.39	39°58'17.2662"N	80°39'16.3881"W	7994.41	165.506	0.05
14578.00	89.570	161.600	6434.18	8061.02	-7832.04	2031.38	1737230.57	14516437.38	39°58'16.3553"N	80°39'15.9999"W	8091.19	165.460	0.11
14674.00	89.540	161.420	6434.92	8157.00	-7923.08	2061.83	1737261.00	14516346.37	39°58'15.4544"N	80°39'15.6134"W	8186.96	165.413	0.19
14770.00	89.540	158.300	6435.69	8252.98	-8013.20	2094.88	1737294.04	14516256.29	39°58'14.5626"N	80°39'15.1934"W	8282.50	165.349	3.25
14866.00	89.630	158.340	6436.39	8348.91	-8102.41	2130.34	1737329.49	14516167.12	39°58'13.6797"N	80°39'14.7424"W	8377.79	165.269	0.10
14963.00	89.910	160.910	6436.78	8445.89	-8193.33	2164.11	1737363.24	14516076.23	39°58'12.7799"N	80°39'14.3132"W	8474.31	165.204	2.67
15059.00	89.600	160.090	6437.19	8541.88	-8283.82	2196.15	1737395.27	14515985.78	39°58'11.8844"N	80°39'13.9061"W	8569.99	165.152	0.91
15156.00	89.660	160.160	6437.82	8638.88	-8375.04	2229.13	1737428.24	14515894.59	39°58'10.9817"N	80°39'13.4871"W	8666.62	165.095	0.10
15252.00	89.660	160.140	6438.39	8734.88	-8465.33	2261.73	1737460.82	14515804.33	39°58'10.0881"N	80°39'13.0729"W	8762.27	165.041	0.02
15348.00	89.380	160.020	6439.19	8830.87	-8555.59	2294.43	1737493.52	14515714.11	39°58'9.1949"N	80°39'12.6574"W	8857.91	164.988	0.32
15445.00	89.450	160.170	6440.18	8927.86	-8646.79	2327.46	1737526.53	14515622.95	39°58'8.2924"N	80°39'12.2378"W	8954.55	164.935	0.17
15541.00	89.600	160.290	6440.98	9023.86	-8737.13	2359.93	1737558.98	14515532.65	39°58'7.3984"N	80°39'11.8252"W	9050.23	164.885	0.20
15637.00	89.600	161.300	6441.65	9119.85	-8827.78	2391.51	1737590.55	14515442.03	39°58'6.5013"N	80°39'11.4242"W	9145.98	164.842	1.05
15733.00	89.600	161.100	6442.32	9215.84	-8918.66	2422.44	1737621.47	14515351.19	39°58'5.6021"N	80°39'11.0314"W	9241.79	164.804	0.21
15829.00	89.510	160.750	6443.06	9311.84	-9009.38	2453.81	1737652.83	14515260.50	39°58'4.7043"N	80°39'10.6330"W	9337.57	164.764	0.38
15926.00	89.630	160.480	6443.79	9408.84	-9100.88	2486.01	1737685.02	14515169.03	39°58'3.7988"N	80°39'10.2241"W	9434.31	164.722	0.30
16022.00	89.380	160.350	6444.62	9504.83	-9191.32	2518.19	1737717.18	14515078.63	39°58'2.9038"N	80°39'9.8153"W	9530.04	164.678	0.29
16118.00	89.450	160.140	6445.60	9600.83	-9281.67	2550.63	1737749.61	14514988.32	39°58'2.0097"N	80°39'9.4031"W	9625.75	164.634	0.23

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 David Reinbeau MSH 6H awp Proj: 27850'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	David Reinbeau MSH 6H
Field	Marshall	API	47051025000000
Facility	David Reinbeau MSH Pad	Wellbore	David Reinbeau MSH 6H AWB
Slot	6H		

WELLPATH DATA (303 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]
16214.00	89.420	160.410	6446.55	9696.82	-9372.03	2583.03	1737782.00	14514897.99	39°58'1.1155"N	80°39'8.9915"W	9721.47	164.591	0.28
16310.00	89.350	160.140	6447.58	9792.81	-9462.39	2615.43	1737814.39	14514807.66	39°58'0.2213"N	80°39'8.5799"W	9817.20	164.549	0.29
16406.00	89.350	160.000	6448.67	9888.80	-9552.64	2648.15	1737847.10	14514717.45	39°57'59.3282"N	80°39'8.1642"W	9912.90	164.506	0.15
16502.00	89.380	160.380	6449.73	9984.80	-9642.95	2680.69	1737879.62	14514627.18	39°57'58.4344"N	80°39'7.7509"W	10008.62	164.464	0.40
16599.00	89.450	160.090	6450.72	10081.79	-9734.23	2713.49	1737912.40	14514535.93	39°57'57.5311"N	80°39'7.3342"W	10105.36	164.424	0.31
16695.00	89.630	160.460	6451.49	10177.79	-9824.60	2745.89	1737944.79	14514445.60	39°57'56.6368"N	80°39'6.9226"W	10201.11	164.385	0.43
16791.00	89.450	160.260	6452.26	10273.78	-9915.01	2778.15	1737977.04	14514355.23	39°57'55.7421"N	80°39'6.5128"W	10296.87	164.347	0.28
16887.00	89.480	160.570	6453.16	10369.78	-10005.45	2810.33	1738009.21	14514264.82	39°57'54.8471"N	80°39'6.1040"W	10392.64	164.311	0.32
16983.00	89.510	160.540	6454.00	10465.78	-10095.97	2842.29	1738041.15	14514174.33	39°57'53.9513"N	80°39'5.6982"W	10488.43	164.277	0.04
17079.00	89.480	160.200	6454.85	10561.77	-10186.39	2874.54	1738073.39	14514083.95	39°57'53.0565"N	80°39'5.2885"W	10584.21	164.241	0.36
17176.00	89.380	160.020	6455.82	10658.76	-10277.60	2907.53	1738106.38	14513992.78	39°57'52.1539"N	80°39'4.8693"W	10680.95	164.204	0.21
17272.00	89.450	159.990	6456.80	10754.76	-10367.80	2940.36	1738139.19	14513902.61	39°57'51.2612"N	80°39'4.4523"W	10776.69	164.166	0.08
17368.00	89.480	160.280	6457.69	10850.75	-10458.09	2972.98	1738171.79	14513812.36	39°57'50.3677"N	80°39'4.0379"W	10872.45	164.131	0.30
17464.00	89.320	160.090	6458.70	10946.74	-10548.40	3005.52	1738204.32	14513722.08	39°57'49.4740"N	80°39'3.6245"W	10968.22	164.096	0.26
17560.00	89.260	158.590	6459.89	11042.71	-10638.22	3039.39	1738238.18	14513632.30	39°57'48.5851"N	80°39'3.1940"W	11063.88	164.055	1.56
17656.00	89.380	160.080	6461.03	11138.68	-10728.03	3073.26	1738272.04	14513542.52	39°57'47.6962"N	80°39'2.7635"W	11159.55	164.015	1.56
17753.00	89.510	160.620	6461.97	11235.68	-10819.38	3105.88	1738304.64	14513451.21	39°57'46.7922"N	80°39'2.3492"W	11256.35	163.983	0.57
17849.00	89.420	160.290	6462.86	11331.67	-10909.84	3137.99	1738336.75	14513360.78	39°57'45.8970"N	80°39'1.9413"W	11352.16	163.953	0.36
17945.00	89.570	160.300	6463.71	11427.67	-11000.22	3170.36	1738369.10	14513270.44	39°57'45.0026"N	80°39'1.5302"W	11447.97	163.923	0.16
18042.00	89.510	160.330	6464.49	11524.66	-11091.54	3203.04	1738401.76	14513179.15	39°57'44.0988"N	80°39'1.1152"W	11544.77	163.892	0.07
18138.00	89.350	160.190	6465.44	11620.66	-11181.90	3235.46	1738434.17	14513088.83	39°57'43.2046"N	80°39'0.7034"W	11640.58	163.862	0.22
18234.00	89.480	160.540	6466.42	11716.65	-11272.31	3267.71	1738466.41	14512998.45	39°57'42.3099"N	80°39'0.2936"W	11736.39	163.834	0.39
18330.00	89.290	159.420	6467.45	11812.64	-11362.50	3300.58	1738499.26	14512908.30	39°57'41.4173"N	80°38'59.8762"W	11832.17	163.802	1.18
18427.00	89.420	160.000	6468.54	11909.63	-11453.48	3334.21	1738532.89	14512817.36	39°57'40.5170"N	80°38'59.4488"W	11928.92	163.769	0.61
18523.00	89.420	160.300	6469.52	12005.62	-11543.77	3366.81	1738565.47	14512727.10	39°57'39.6234"N	80°38'59.0347"W	12024.73	163.740	0.31
18619.00	89.540	160.420	6470.39	12101.61	-11634.18	3399.07	1738597.72	14512636.73	39°57'38.7287"N	80°38'58.6249"W	12120.56	163.714	0.18
18715.00	89.510	160.390	6471.18	12197.61	-11724.62	3431.27	1738629.90	14512546.32	39°57'37.8337"N	80°38'58.2161"W	12216.39	163.688	0.04
18812.00	89.320	159.800	6472.17	12294.60	-11815.82	3464.29	1738662.91	14512455.16	39°57'36.9312"N	80°38'57.7966"W	12313.20	163.659	0.64
18907.00	89.780	160.220	6472.92	12389.60	-11905.09	3496.77	1738695.38	14512365.92	39°57'36.0477"N	80°38'57.3840"W	12408.00	163.631	0.66
19004.00	89.850	160.610	6473.23	12486.60	-11996.48	3529.28	1738727.88	14512274.57	39°57'35.1433"N	80°38'56.9711"W	12504.85	163.606	0.41

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REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	David Reinbeau MSH 6H
Field	Marshall	API	4705102500000
Facility	David Reinbeau MSH Pad	Wellbore	David Reinbeau MSH 6H AWB
Slot	6H		

WELLPATH DATA (303 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]
19100.00	89.720	159.990	6473.59	1 582.59	-12086.86	3561.64	1738760.23	14512184.23	39°57'34.2489"N	80°38'56.5601"W	12600.69	163.581	0.66
19197.00	89.720	160.010	6474.07	1 679.59	-12178.01	3594.82	1738793.39	14512093.11	39°57'33.3468"N	80°38'56.1387"W	12697.50	163.554	0.02
19293.00	89.720	160.000	6474.54	1 775.58	-12268.22	3627.64	1738826.20	14512002.94	39°57'32.4540"N	80°38'55.7217"W	12793.32	163.527	0.01
19389.00	89.940	160.250	6474.82	1 871.58	-12358.50	3660.28	1738858.83	14511912.69	39°57'31.5606"N	80°38'55.3071"W	12889.15	163.502	0.35
19485.00	89.880	160.230	6474.97	1 967.58	-12448.85	3692.74	1738891.27	14511822.38	39°57'30.6665"N	80°38'54.8949"W	12985.00	163.478	0.07
19581.00	89.850	160.590	6475.20	1 063.58	-12539.29	3724.92	1738923.44	14511731.97	39°57'29.7714"N	80°38'54.4861"W	13080.86	163.455	0.38
19677.00	89.820	160.600	6475.47	1 159.58	-12629.84	3756.82	1738955.33	14511641.46	39°57'28.8754"N	80°38'54.0811"W	13176.74	163.435	0.03
19774.00	89.720	160.290	6475.86	1 256.58	-12721.24	3789.28	1738987.78	14511550.09	39°57'27.9708"N	80°38'53.6688"W	13273.61	163.413	0.34
19870.00	89.750	160.220	6476.31	1 352.58	-12811.60	3821.72	1739020.20	14511459.77	39°57'27.0767"N	80°38'53.2569"W	13369.46	163.390	0.08
19966.00	89.780	160.100	6476.70	1 448.57	-12901.90	3854.30	1739052.77	14511369.51	39°57'26.1830"N	80°38'52.8431"W	13465.31	163.367	0.13
20063.00	89.780	160.270	6477.07	1 545.57	-12993.15	3887.18	1739085.64	14511278.29	39°57'25.2799"N	80°38'52.4255"W	13562.16	163.344	0.18
20159.00	89.780	160.490	6477.44	1 641.57	-13083.58	3919.41	1739117.86	14511187.90	39°57'24.3850"N	80°38'52.0161"W	13658.03	163.323	0.23
20255.00	89.820	160.060	6477.78	1 737.57	-13173.95	3951.81	1739150.25	14511097.56	39°57'23.4908"N	80°38'51.6046"W	13753.90	163.302	0.45
20351.00	89.850	160.310	6478.05	1 833.57	-13264.26	3984.36	1739182.78	14511007.28	39°57'22.5970"N	80°38'51.1913"W	13849.76	163.281	0.26
20447.00	89.780	160.310	6478.36	1 929.56	-13354.65	4016.70	1739215.11	14510916.93	39°57'21.7025"N	80°38'50.7806"W	13945.63	163.260	0.07
20543.00	89.720	159.840	6478.78	1 025.56	-13444.90	4049.42	1739247.81	14510826.72	39°57'20.8093"N	80°38'50.3650"W	14041.48	163.238	0.49
20640.00	89.690	160.120	6479.28	1 122.56	-13536.04	4082.62	1739281.00	14510735.61	39°57'19.9073"N	80°38'49.9433"W	14138.32	163.216	0.29
20736.00	89.720	160.050	6479.78	1 218.55	-13626.30	4115.32	1739313.69	14510645.39	39°57'19.0141"N	80°38'49.5279"W	14234.18	163.195	0.08
20832.00	89.720	160.140	6480.25	1 314.55	-13716.56	4148.01	1739346.36	14510555.16	39°57'18.1208"N	80°38'49.1128"W	14330.04	163.174	0.09
20929.00	89.780	160.040	6480.67	1 411.54	-13807.76	4181.04	1739379.38	14510464.00	39°57'17.2182"N	80°38'48.6933"W	14426.90	163.153	0.12
21025.00	89.720	159.990	6481.09	1 507.54	-13897.98	4213.85	1739412.18	14510373.82	39°57'16.3254"N	80°38'48.2766"W	14522.75	163.133	0.08
21122.00	89.880	160.400	6481.43	1 604.54	-13989.24	4246.72	1739445.03	14510282.59	39°57'15.4222"N	80°38'47.8592"W	14619.63	163.113	0.45
21218.00	89.750	160.220	6481.74	1 700.54	-14079.63	4279.06	1739477.36	14510192.24	39°57'14.5277"N	80°38'47.4484"W	14715.51	163.095	0.23
21314.00	89.820	160.540	6482.10	1 796.54	-14170.05	4311.30	1739509.59	14510101.85	39°57'13.6329"N	80°38'47.0391"W	14811.40	163.077	0.34
21410.00	89.850	160.220	6482.37	1 892.53	-14260.48	4343.53	1739541.81	14510011.46	39°57'12.7380"N	80°38'46.6298"W	14907.30	163.060	0.33
21506.00	89.720	159.770	6482.73	1 988.53	-14350.68	4376.37	1739574.64	14509921.29	39°57'11.8452"N	80°38'46.2127"W	15003.16	163.040	0.49
21602.00	89.910	160.610	6483.04	1 084.53	-14441.00	4408.91	1739607.16	14509831.00	39°57'10.9514"N	80°38'45.7995"W	15099.04	163.022	0.90
21698.00	89.780	159.970	6483.30	1 180.53	-14531.38	4441.28	1739639.52	14509740.67	39°57'10.0570"N	80°38'45.3884"W	15194.93	163.005	0.68
21794.00	89.750	159.980	6483.70	1 276.52	-14621.57	4474.16	1739672.38	14509650.51	39°57'9.1644"N	80°38'44.9709"W	15290.80	162.986	0.03
21891.00	89.820	160.310	6484.06	1 373.52	-14712.81	4507.10	1739705.31	14509559.31	39°57'8.2615"N	80°38'44.5525"W	15387.68	162.968	0.35

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REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	David Reinbeau MSH 6H
Field	Marshall	API	4705102500000
Facility	David Reinbeau MSH Pad	Wellbore	David Reinbeau MSH 6H AWB
Slot	6H		

WELLPATH DATA (303 stations)													
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vrt Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
21987.00	89.720	160.100	6484.45	1469.52	-14803.13	4539.61	1739737.81	14509469.02	39°57'7.3676"N	80°38'44.1396"W	15483.57	162.951	0.24
22083.00	89.820	160.320	6484.83	1565.51	-14893.46	4572.11	1739770.30	14509378.72	39°57'6.4737"N	80°38'43.7269"W	15579.46	162.934	0.25
22179.00	89.290	160.110	6485.58	1661.51	-14983.79	4604.61	1739802.78	14509288.43	39°57'5.5797"N	80°38'43.3143"W	15675.34	162.917	0.59
22276.00	89.350	160.260	6486.73	1758.50	-15075.04	4637.49	1739835.65	14509197.21	39°57'4.6767"N	80°38'42.8967"W	15772.23	162.901	0.17
22372.00	89.450	160.460	6487.73	1854.49	-15165.45	4669.75	1739867.90	14509106.84	39°57'3.7819"N	80°38'42.4871"W	15868.13	162.885	0.23
22468.00	89.480	160.720	6488.63	1950.49	-15255.99	4701.65	1739899.79	14509016.33	39°57'2.8859"N	80°38'42.0820"W	15964.05	162.872	0.27
22564.00	89.540	160.490	6489.45	1046.49	-15346.54	4733.53	1739931.66	14508925.82	39°57'1.9899"N	80°38'41.6773"W	16059.97	162.858	0.25
22661.00	89.880	160.540	6489.94	1143.48	-15437.98	4765.89	1739964.00	14508834.41	39°57'1.0849"N	80°38'41.2666"W	16156.89	162.844	0.35
22757.00	89.880	160.500	6490.14	1239.48	-15528.49	4797.90	1739996.00	14508743.94	39°57'0.1893"N	80°38'40.8601"W	16252.81	162.830	0.04
22853.00	89.820	160.130	6490.39	1335.48	-15618.88	4830.24	1740028.33	14508653.59	39°56'59.2947"N	80°38'40.4495"W	16348.72	162.815	0.39
22950.00	89.750	160.220	6490.76	1432.48	-15710.13	4863.13	1740061.21	14508562.38	39°56'58.3917"N	80°38'40.0318"W	16445.61	162.800	0.12
23046.00	89.780	160.360	6491.15	1528.48	-15800.50	4895.51	1740093.57	14508472.04	39°56'57.4973"N	80°38'39.6207"W	16541.52	162.785	0.15
23142.00	89.940	159.900	6491.39	1624.48	-15890.79	4928.14	1740126.19	14508381.79	39°56'56.6038"N	80°38'39.2064"W	16637.42	162.770	0.51
23238.00	89.420	160.130	6491.92	1720.47	-15981.00	4960.95	1740158.99	14508291.61	39°56'55.7109"N	80°38'38.7897"W	16733.31	162.754	0.59
23334.00	89.380	160.380	6492.93	1816.47	-16071.36	4993.38	1740191.40	14508201.29	39°56'54.8168"N	80°38'38.3780"W	16829.21	162.740	0.26
23430.00	89.380	159.750	6493.97	1912.46	-16161.60	5026.11	1740224.12	14508111.08	39°56'53.9237"N	80°38'37.9623"W	16925.10	162.725	0.66
23527.00	89.480	160.490	6494.93	1009.45	-16252.81	5059.09	1740257.09	14508019.91	39°56'53.0210"N	80°38'37.5435"W	17021.99	162.710	0.77
23623.00	89.380	160.210	6495.89	1105.44	-16343.22	5091.37	1740289.36	14507929.54	39°56'52.1263"N	80°38'37.1337"W	17117.91	162.697	0.31
23719.00	89.450	161.690	6496.87	1201.43	-16433.95	5122.70	1740320.68	14507838.84	39°56'51.2284"N	80°38'36.7360"W	17213.86	162.687	1.54
23816.00	89.450	160.330	6497.80	1298.42	-16525.67	5154.27	1740352.23	14507747.16	39°56'50.3208"N	80°38'36.3355"W	17310.81	162.678	1.40
23912.00	89.420	160.040	6498.75	1394.42	-16615.98	5186.81	1740384.76	14507656.88	39°56'49.4270"N	80°38'35.9223"W	17406.71	162.664	0.30
24008.00	89.320	160.250	6499.80	1490.41	-16706.27	5219.41	1740417.35	14507566.63	39°56'48.5335"N	80°38'35.5083"W	17502.62	162.650	0.24
24104.00	89.450	159.880	6500.83	1586.40	-16796.51	5252.14	1740450.06	14507476.42	39°56'47.6404"N	80°38'35.0927"W	17598.51	162.636	0.41
24200.00	89.350	160.220	6501.84	1682.39	-16886.74	5284.89	1740482.80	14507386.22	39°56'46.7474"N	80°38'34.6768"W	17694.41	162.622	0.37
24297.00	89.630	160.040	6502.70	1779.39	-16977.96	5317.86	1740515.76	14507295.04	39°56'45.8446"N	80°38'34.2582"W	17791.31	162.608	0.34
24393.00	89.630	160.140	6503.32	1875.38	-17068.22	5350.55	1740548.44	14507204.81	39°56'44.9513"N	80°38'33.8431"W	17887.22	162.595	0.10
24489.00	89.630	159.900	6503.94	1971.37	-17158.44	5383.36	1740581.23	14507114.63	39°56'44.0584"N	80°38'33.4266"W	17983.12	162.581	0.25
24585.00	89.630	160.120	6504.56	1067.37	-17248.66	5416.17	1740614.03	14507024.45	39°56'43.1656"N	80°38'33.0099"W	18079.02	162.567	0.23
24681.00	89.630	160.060	6505.18	1163.36	-17338.92	5448.86	1740646.71	14506934.22	39°56'42.2723"N	80°38'32.5948"W	18174.93	162.554	0.06
24777.00	89.630	160.070	6505.80	1259.36	-17429.16	5481.60	1740679.43	14506844.01	39°56'41.3792"N	80°38'32.1792"W	18270.84	162.541	0.01

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 David Reinbeau MSH 6H awp Proj: 27850'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	David Reinbeau MSH 6H
Field	Marshall	API	4705102500000
Facility	David Reinbeau MSH Pad	Wellbore	David Reinbeau MSH 6H AWB
Slot	6H		

WELLPATH DATA (303 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]	
24874.00	89.570	160.150	6506.48	1	356.35	-17520.37	5514.60	1740712.41	14506752.84	39°56'40.4765"N	80°38'31.7602"W	18367.75	162.528	0.10
24970.00	89.660	161.580	6507.12	1	452.35	-17611.07	5546.06	1740743.87	14506662.18	39°56'39.5790"N	80°38'31.3609"W	18463.71	162.520	1.49
25066.00	89.750	161.760	6507.62	1	548.33	-17702.19	5576.25	1740774.05	14506571.09	39°56'38.6773"N	80°38'30.9780"W	18559.69	162.515	0.21
25162.00	89.630	161.790	6508.14	1	644.30	-17793.38	5606.28	1740804.06	14506479.94	39°56'37.7750"N	80°38'30.5972"W	18655.69	162.512	0.13
25258.00	89.510	161.260	6508.86	1	740.28	-17884.43	5636.70	1740834.47	14506388.93	39°56'36.8740"N	80°38'30.2113"W	18751.67	162.507	0.57
25354.00	89.880	161.780	6509.37	1	836.27	-17975.47	5667.13	1740864.89	14506297.92	39°56'35.9730"N	80°38'29.8253"W	18847.65	162.502	0.66
25451.00	89.780	162.170	6509.66	1	933.24	-18067.71	5697.14	1740894.89	14506205.71	39°56'35.0603"N	80°38'29.4447"W	18944.65	162.499	0.42
25547.00	89.570	161.720	6510.20	1	029.20	-18158.98	5726.89	1740924.63	14506114.48	39°56'34.1571"N	80°38'29.0675"W	19040.64	162.496	0.52
25643.00	89.630	161.690	6510.87	1	125.18	-18250.13	5757.03	1740954.75	14506023.37	39°56'33.2552"N	80°38'28.6853"W	19136.63	162.492	0.07
25740.00	89.690	162.090	6511.45	1	222.15	-18342.32	5787.18	1740984.89	14505931.21	39°56'32.3429"N	80°38'28.3029"W	19233.62	162.489	0.42
25836.00	89.600	162.180	6512.04	1	318.11	-18433.69	5816.63	1741014.33	14505839.88	39°56'31.4388"N	80°38'27.9295"W	19329.62	162.487	0.13
25932.00	89.720	161.870	6512.61	1	414.07	-18525.00	5846.25	1741043.94	14505748.60	39°56'30.5353"N	80°38'27.5539"W	19425.61	162.485	0.35
26028.00	89.690	160.380	6513.10	1	510.06	-18615.84	5877.31	1741074.99	14505657.80	39°56'29.6364"N	80°38'27.1599"W	19521.58	162.478	1.55
26124.00	89.630	160.180	6513.67	1	606.06	-18706.21	5909.70	1741107.37	14505567.47	39°56'28.7420"N	80°38'26.7487"W	19617.51	162.468	0.22
26220.00	89.690	159.990	6514.24	1	702.06	-18796.46	5942.40	1741140.05	14505477.25	39°56'27.8488"N	80°38'26.3355"W	19713.43	162.456	0.21
26317.00	89.940	160.020	6514.56	1	799.05	-18887.62	5975.57	1741173.21	14505386.13	39°56'26.9467"N	80°38'25.9124"W	19810.34	162.444	0.26
26413.00	89.940	160.260	6514.66	1	895.05	-18977.91	6008.18	1741205.81	14505295.88	39°56'26.0531"N	80°38'25.4984"W	19906.26	162.433	0.25
26509.00	89.880	160.250	6514.81	1	991.05	-19068.26	6040.61	1741238.23	14505205.56	39°56'25.1589"N	80°38'25.0867"W	20002.19	162.422	0.06
26605.00	89.940	160.390	6514.96	2	087.05	-19158.65	6072.94	1741270.54	14505115.20	39°56'24.2643"N	80°38'24.6763"W	20098.13	162.412	0.16
26702.00	89.970	160.190	6515.04	2	184.05	-19249.97	6105.66	1741303.25	14505023.92	39°56'23.3606"N	80°38'24.2611"W	20195.06	162.402	0.21
26798.00	89.910	160.160	6515.14	2	280.05	-19340.28	6138.22	1741335.79	14504933.64	39°56'22.4668"N	80°38'23.8477"W	20290.99	162.392	0.07
26894.00	89.880	160.580	6515.31	2	376.05	-19430.70	6170.47	1741368.03	14504843.26	39°56'21.5719"N	80°38'23.4384"W	20386.93	162.382	0.44
26990.00	89.940	160.300	6515.46	2	472.05	-19521.16	6202.61	1741400.16	14504752.83	39°56'20.6767"N	80°38'23.0305"W	20482.87	162.373	0.30
27086.00	89.970	160.350	6515.54	2	568.05	-19611.56	6234.93	1741432.47	14504662.48	39°56'19.7821"N	80°38'22.6202"W	20578.81	162.363	0.06
27183.00	89.910	160.200	6515.64	2	665.04	-19702.87	6267.67	1741465.19	14504571.20	39°56'18.8785"N	80°38'22.2046"W	20675.75	162.354	0.17
27279.00	89.850	159.840	6515.84	2	761.04	-19793.09	6300.47	1741497.98	14504481.02	39°56'17.9855"N	80°38'21.7882"W	20771.67	162.343	0.38
27375.00	89.380	159.600	6516.49	2	857.03	-19883.13	6333.74	1741531.24	14504391.00	39°56'17.0943"N	80°38'21.3657"W	20867.57	162.331	0.55
27471.00	89.350	160.160	6517.55	2	953.02	-19973.27	6366.76	1741564.25	14504300.90	39°56'16.2023"N	80°38'20.9465"W	20963.47	162.320	0.58
27568.00	89.420	160.230	6518.59	2	050.01	-20064.53	6399.63	1741597.10	14504209.68	39°56'15.2991"N	80°38'20.5293"W	21060.40	162.310	0.10
27664.00	89.450	160.240	6519.54	2	146.00	-20154.87	6432.09	1741629.55	14504119.38	39°56'14.4051"N	80°38'20.1173"W	21156.33	162.300	0.03

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REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	David Reinbeau MSH 6H
Field	Marshall	API	4705102500000
Facility	David Reinbeau MSH Pad	Wellbore	David Reinbeau MSH 6H AWB
Slot	6H		

WELLPATH DATA (303 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]
27760.00	89.350	160.420	6520.54	21242.00	-20245.26	6464.40	1741661.85	14504029.02	39°56'13.5105"N	80°38'19.7071"W	21252.27	162.291	0.21
27825.00	89.420	160.320	6521.24	21306.99	-20306.48	6486.24	1741683.67	14503967.83	39°56'12.9046"N	80°38'19.4300"W	21317.23	162.286	0.19
27850.00‡	89.420	160.320	6521.49	21331.99	-20330.02	6494.65	1741692.09	14503944.30	39°56'12.6717"N	80°38'19.3232"W	21342.21	162.283	0.00

HOLE & CASING SECTIONS - Ref Wellbore: David Reinbeau MSH 6H AWB Ref Wellpath: David Reinbeau MSH 6H awp Proj: 27850'									
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]
13.375in Casing	26.00	500.00	474.00	26.00	500.00	0.00	0.00	-1.35	0.45
9.625in Casing	26.00	2095.00	2069.00	26.00	2087.12	0.00	0.00	-6.59	-131.14

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
David Reinbeau MSH 6H LP rev 5	6375.00	-489.89	-536.57	1734663.62	14523776.65	39°59'29.0096"N	80°39'48.6272"W	point
David Reinbeau MSH 6H BHL rev3	6507.00	-20336.09	6479.49	1741676.93	14503938.23	39°56'12.6123"N	80°38'19.5182"W	point

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REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	David Reinbeau MSH 6H
Field	Marshall	API	47051025000000
Facility	David Reinbeau MSH Pad	Wellbore	David Reinbeau MSH 6H AWB
Slot	6H		

WELLPATH COMPOSITION - Ref Wellbore: David Reinbeau MSH 6H AWB Ref Wellpath: David Reinbeau MSH 6H awp Proj: 27850'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
26.00	851.00	Gyrodata 2015 - GC+WVF +DPIPE	1 Imported Gyro 17.5" 50' - 851'	David Reinbeau MSH 6H AWB	9/16/2023
851.00	1970.00	OWSG MWD rev2 + HRGM	2 Tally MWD HRGM 12.25" 970' - 1970'	David Reinbeau MSH 6H AWB	9/16/2023
1970.00	4887.00	OWSG MWD rev2 + HRGM	3 Tally MWD HRGM 8.75" 2115' - 4887'	David Reinbeau MSH 6H AWB	9/16/2023
4887.00	27850.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	4 BH ATC MWD HRGM 8.5" 4993' - 27825'	David Reinbeau MSH 6H AWB	9/16/2023

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REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	David Reinbeau MSH 6H
Field	Marshall	API	47051025000000
Facility	David Reinbeau MSH Pad	Wellbore	David Reinbeau MSH 6H AWB
Slot	6H		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
50.00	0.110	147.280	50.00	1 Imported Gyro 17.5" 50' - 851
970.00	4.100	244.100	969.82	2 Tally MWD HRGM 12.25" 970' - 1970'
2115.00	9.900	274.220	2106.82	3 Tally MWD HRGM 8.75" 2115' - 4887'
4993.00	8.230	281.840	4957.98	4 BH ATC MWD HRGM 8.5" 4993' - 27825'
27850.00	89.420	160.320	6521.49	Proj to TD

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