



SWN PRODUCTION COMPANY, LLC



Location: Marshall County, WV

Slot: 3H

Field: Marshall

Well: David Reinbeau MSH 3H

Facility: David Reinbeau MSH Pad

Wellbore: David Reinbeau MSH 3H AWB

Plot reference wellpath is David Reinbeau MSH 3H awp 100' - 22741' Proj: 22778'

Grid System: NAD83 / UTM Zone 17 North, US feet

True vertical depths are referenced to SDC 41 (KB)

North Reference: Grid north

Reference wellpath measured depths are referenced to SDC 41 (KB)

Scale: True distance

SDC 41 (KB) to Mean Sea Level: 1276.9 feet

Coordinates are in feet referenced to Slot

Mean Sea Level to Ground level (At Slot: 3H): -1250.9 feet

Depths are in feet

Offset wellpath MDs are referenced to each path's default MD datum

Created by: tranlam on 2022-08-03; Database: WA_MPL_EASTERNUS_Defn

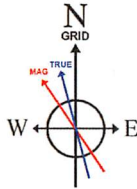
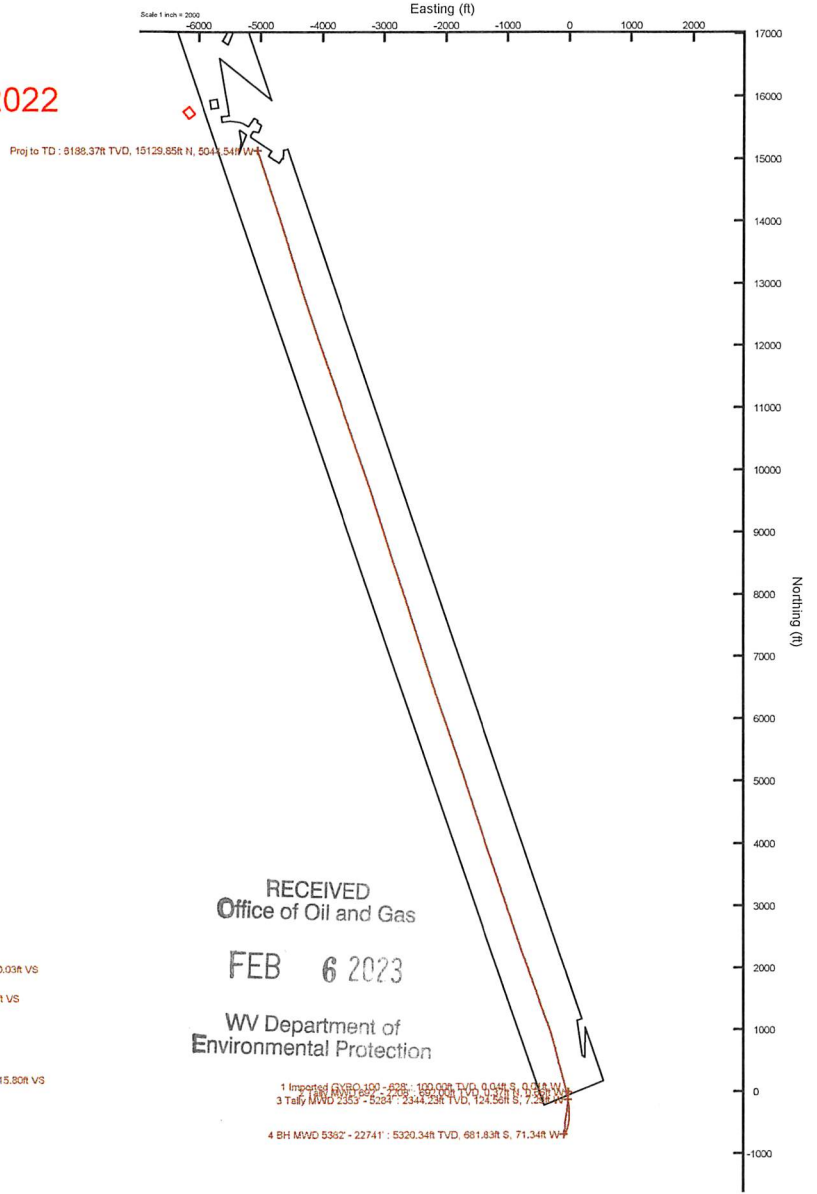
Location Information

Facility Name			Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
David Reinbeau MSH Pad			1735218.668	14524246.412	39°59'33.6329"N	80°39'41.4703"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
3H	63.62	27.39	1735246.044	14524310.007	39°59'34.2606"N	80°39'41.1153"W
SDC 41 (KB) to Ground level (At Slot: 3H)					26ft	
Mean Sea Level to Ground level (At Slot: 3H)					-1250.9ft	
SDC 41 (KB) to Mean Sea Level					1276.9ft	

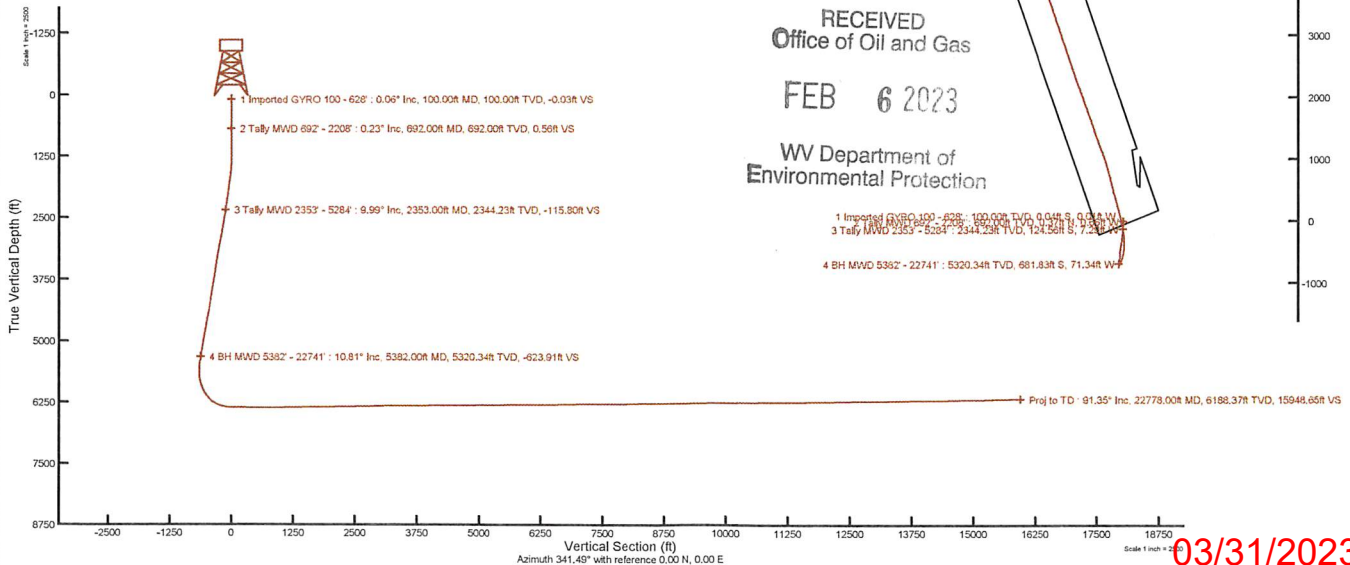
Bottom Hole Location

MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
22778.00	91.350	341.690	6188.37	15129.85	-5044.54	1730203.48	14539433.93	40°02'3.9618"N	80°40'45.2290"W

API: 47051024390000
BH JOB: 111349249
DURATION: 07.27.2022 to 08.02.2022
RIG: SDC 41



HDGM2022v1.0 (1900.0 to 2023.0) Dip: 66.87° Field: 52154 nT
Magnetic North is 8.14 degrees West of True North (at 7/12/2022)
Grid North is 0.22 degrees East of True North
To correct azimuth from True to Grid subtract 0.22 degrees
To correct azimuth from Magnetic to Grid subtract 8.36 degrees



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David Reinbeau MSH 3H awp 100' - 22741' Proj: 22778'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	David Reinbeau MSH 3H
Field	Marshall	API	47051024390000
Facility	David Reinbeau MSH Pad	Wellbore	David Reinbeau MSH 3H AWB
Slot	3H		

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	8/3/2022 at 11:02:51 PM
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	63.62	27.39	1735246.04	14524310.01	39°59'34.2606"N	80°39'41.1153"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 41 (KB) to Facility Vertical Datum	1276.90ft
Horizontal Reference Pt	Slot	SDC 41 (KB) to Mean Sea Level	1276.90ft
Vertical Reference Pt	SDC 41 (KB)	SDC 41 (KB) to Ground Level at Slot (3H)	26.00ft
MD Reference Pt	SDC 41 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	341.49°



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David Reinbeau MSH 3H awp 100' - 22741' Proj: 22778'
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Field	Marshall	API	47051024390000
Facility	David Reinbeau MSH Pad	Wellbore	David Reinbeau MSH 3H AWB
Slot	3H		

WELLPATH DATA (250 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]	Comments
0.00†	0.000	187.870	0.00	0.00	0.00	0.00	1735246.04	14524310.01	39°59'34.2606"N	80°39'41.1153"W	0.00	0.000	0.00	
26.00	0.000	187.870	26.00	0.00	0.00	0.00	1735246.04	14524310.01	39°59'34.2606"N	80°39'41.1153"W	0.00	0.000	0.00	
100.00	0.060	187.870	100.00	-0.03	-0.04	-0.01	1735246.04	14524309.97	39°59'34.2602"N	80°39'41.1154"W	0.04	187.870	0.08	1 Imported GYRO 100 - 628'
200.00	0.070	239.510	200.00	-0.09	-0.12	-0.07	1735245.98	14524309.89	39°59'34.2594"N	80°39'41.1162"W	0.14	208.238	0.06	
300.00	0.060	275.800	300.00	-0.09	-0.15	-0.17	1735245.87	14524309.86	39°59'34.2591"N	80°39'41.1175"W	0.22	229.134	0.04	
400.00	0.020	138.500	400.00	-0.08	-0.15	-0.21	1735245.83	14524309.85	39°59'34.2591"N	80°39'41.1180"W	0.26	233.666	0.08	
500.00	0.090	304.140	500.00	-0.03	-0.12	-0.26	1735245.78	14524309.88	39°59'34.2594"N	80°39'41.1187"W	0.29	244.875	0.11	
600.00	0.210	321.020	600.00	0.20	0.06	-0.44	1735245.60	14524310.07	39°59'34.2612"N	80°39'41.1210"W	0.45	278.051	0.13	
628.00	0.260	315.080	628.00	0.31	0.15	-0.52	1735245.52	14524310.15	39°59'34.2621"N	80°39'41.1220"W	0.54	285.820	0.20	
692.00	0.230	343.240	692.00	0.56	0.37	-0.66	1735245.38	14524310.38	39°59'34.2643"N	80°39'41.1238"W	0.76	299.477	0.19	2 Tally MWD 692' - 2208'
784.00	0.280	291.810	784.00	0.89	0.63	-0.92	1735245.12	14524310.64	39°59'34.2669"N	80°39'41.1271"W	1.12	304.485	0.25	
876.00	0.230	326.390	876.00	1.22	0.87	-1.23	1735244.81	14524310.88	39°59'34.2692"N	80°39'41.1311"W	1.51	305.227	0.17	
966.00	0.360	339.230	966.00	1.67	1.29	-1.43	1735244.61	14524311.29	39°59'34.2733"N	80°39'41.1337"W	1.93	311.886	0.16	
1057.00	0.700	341.490	1056.99	2.52	2.08	-1.71	1735244.33	14524312.09	39°59'34.2812"N	80°39'41.1372"W	2.69	320.551	0.37	
1148.00	0.270	328.800	1147.99	3.28	2.79	-2.00	1735244.05	14524312.80	39°59'34.2882"N	80°39'41.1409"W	3.43	324.383	0.48	
1238.00	0.280	270.340	1237.99	3.56	2.97	-2.33	1735243.72	14524312.98	39°59'34.2901"N	80°39'41.1451"W	3.78	321.930	0.30	
1329.00	1.150	174.230	1328.98	2.74	2.07	-2.46	1735243.59	14524312.07	39°59'34.2811"N	80°39'41.1468"W	3.21	310.033	1.33	
1419.00	2.750	171.660	1418.93	-0.27	-0.97	-2.06	1735243.99	14524309.04	39°59'34.2511"N	80°39'41.1418"W	2.27	244.770	1.78	
1510.00	4.730	178.110	1509.73	-6.01	-6.88	-1.62	1735244.43	14524303.13	39°59'34.1927"N	80°39'41.1364"W	7.07	193.214	2.22	
1603.00	6.520	177.590	1602.28	-14.76	-15.99	-1.27	1735244.78	14524294.03	39°59'34.1026"N	80°39'41.1324"W	16.04	184.530	1.93	
1696.00	7.920	173.460	1694.54	-26.10	-27.63	-0.31	1735245.73	14524282.39	39°59'33.9876"N	80°39'41.1207"W	27.63	180.653	1.60	
1786.00	7.800	178.490	1783.69	-38.01	-39.89	0.55	1735246.60	14524270.13	39°59'33.8663"N	80°39'41.1102"W	39.90	179.207	0.78	
1878.00	8.200	180.040	1874.80	-50.20	-52.70	0.71	1735246.76	14524257.33	39°59'33.7398"N	80°39'41.1087"W	52.70	179.226	0.49	
1969.00	8.180	184.160	1964.87	-62.32	-65.64	0.24	1735246.28	14524244.39	39°59'33.6119"N	80°39'41.1155"W	65.64	179.792	0.65	
2060.00	8.610	185.300	2054.90	-74.53	-78.88	-0.86	1735245.18	14524231.16	39°59'33.4811"N	80°39'41.1302"W	78.89	180.625	0.51	
2150.00	8.700	189.070	2143.87	-86.73	-92.31	-2.56	1735243.49	14524217.73	39°59'33.3484"N	80°39'41.1527"W	92.35	181.586	0.64	
2208.00	8.860	188.680	2201.19	-94.59	-101.06	-3.92	1735242.12	14524208.99	39°59'33.2620"N	80°39'41.1706"W	101.14	182.222	0.29	
2353.00	9.990	187.690	2344.23	-115.80	-124.56	-7.29	1735238.76	14524185.49	39°59'33.0299"N	80°39'41.2151"W	124.78	183.349	0.79	3 Tally MWD 2353' - 5284'
2443.00	9.960	184.650	2432.87	-129.96	-140.06	-8.97	1735237.08	14524170.01	39°59'32.8768"N	80°39'41.2373"W	140.34	183.663	0.59	
2535.00	9.580	182.310	2523.54	-144.44	-155.64	-9.92	1735236.13	14524154.43	39°59'32.7229"N	80°39'41.2504"W	155.95	183.647	0.60	



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Field	Marshall	API	47051024390000
Facility	David Reinbeau MSH Pad	Wellbore	David Reinbeau MSH 3H AWB
Slot	3H		

WELLPATH DATA (250 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]	Comments
2626.00	10.510	185.570	2613.14	-159.09	-171.46	-11.03	1735235.02	14524138.61	39°59'32.5665"N	80°39'41.2654"W	171.82	183.681	1.20	
2717.00	10.450	183.930	2702.62	-174.30	-187.96	-12.40	1735233.65	14524122.12	39°59'32.4036"N	80°39'41.2838"W	188.37	183.775	0.33	
2807.00	11.600	187.920	2790.96	-189.94	-205.06	-14.21	1735231.84	14524105.02	39°59'32.2346"N	80°39'41.3079"W	205.55	183.963	1.53	
2899.00	11.600	185.420	2881.08	-206.68	-223.43	-16.36	1735229.69	14524086.66	39°59'32.0532"N	80°39'41.3364"W	224.03	184.187	0.55	
2991.00	11.250	182.200	2971.26	-223.53	-241.61	-17.57	1735228.48	14524068.49	39°59'31.8736"N	80°39'41.3529"W	242.25	184.160	0.79	
3084.00	11.490	185.800	3062.44	-240.46	-259.89	-18.86	1735227.19	14524050.22	39°59'31.6930"N	80°39'41.3703"W	260.57	184.150	0.81	
3176.00	11.430	182.720	3152.61	-257.31	-278.11	-20.22	1735225.84	14524032.01	39°59'31.5130"N	80°39'41.3886"W	278.84	184.158	0.67	
3267.00	10.720	185.390	3241.91	-273.45	-295.54	-21.44	1735224.61	14524014.58	39°59'31.3407"N	80°39'41.4052"W	296.32	184.149	0.96	
3358.00	10.000	189.440	3331.43	-288.17	-311.76	-23.53	1735222.52	14523998.37	39°59'31.1805"N	80°39'41.4329"W	312.65	184.316	1.12	
3451.00	9.600	184.480	3423.07	-302.44	-327.46	-25.46	1735220.59	14523982.67	39°59'31.0255"N	80°39'41.4584"W	328.45	184.446	1.00	
3543.00	9.530	192.180	3513.80	-316.05	-342.55	-27.67	1735218.39	14523967.59	39°59'30.8764"N	80°39'41.4875"W	343.67	184.618	1.39	
3633.00	9.800	193.510	3602.52	-328.95	-357.28	-31.03	1735215.03	14523952.86	39°59'30.7310"N	80°39'41.5314"W	358.63	184.963	0.39	
3724.00	10.440	190.480	3692.10	-342.73	-372.92	-34.34	1735211.72	14523937.23	39°59'30.5766"N	80°39'41.5747"W	374.50	185.261	0.91	
3815.00	10.170	185.520	3781.64	-357.28	-389.03	-36.61	1735209.45	14523921.13	39°59'30.4175"N	80°39'41.6047"W	390.74	185.376	1.02	
3905.00	10.380	184.640	3870.19	-371.99	-405.02	-38.03	1735208.03	14523905.15	39°59'30.2595"N	80°39'41.6237"W	406.80	185.364	0.29	
4000.00	10.240	185.630	3963.66	-387.57	-421.95	-39.55	1735206.51	14523888.22	39°59'30.0922"N	80°39'41.6441"W	423.80	185.355	0.24	
4091.00	9.960	187.820	4053.25	-402.00	-437.80	-41.41	1735204.65	14523872.38	39°59'29.9357"N	80°39'41.6688"W	439.75	185.404	0.52	
4183.00	10.910	196.960	4143.73	-416.22	-454.01	-45.04	1735201.02	14523856.18	39°59'29.7756"N	80°39'41.7161"W	456.24	185.665	2.07	
4276.00	11.420	193.880	4234.97	-431.17	-471.36	-49.81	1735196.25	14523838.83	39°59'29.6043"N	80°39'41.7783"W	473.99	186.033	0.84	
4367.00	12.190	187.580	4324.05	-447.40	-489.63	-53.24	1735192.82	14523820.56	39°59'29.4239"N	80°39'41.8233"W	492.52	186.206	1.65	
4459.00	12.520	179.340	4413.93	-465.62	-509.24	-54.41	1735191.66	14523800.97	39°59'29.2302"N	80°39'41.8392"W	512.13	186.099	1.95	
4550.00	11.610	179.350	4502.92	-483.72	-528.26	-54.19	1735191.87	14523781.96	39°59'29.0423"N	80°39'41.8373"W	531.03	185.857	1.00	
4643.00	10.700	178.660	4594.16	-500.88	-546.24	-53.88	1735192.18	14523763.98	39°59'28.8645"N	80°39'41.8343"W	548.90	185.634	0.99	
4735.00	10.660	180.220	4684.57	-517.10	-563.29	-53.72	1735192.35	14523746.94	39°59'28.6960"N	80°39'41.8329"W	565.85	185.447	0.32	
4825.00	11.090	184.430	4772.95	-532.95	-580.25	-54.42	1735191.65	14523729.99	39°59'28.5285"N	80°39'41.8428"W	582.79	185.358	1.00	
4916.00	10.780	189.630	4862.30	-548.52	-597.36	-56.52	1735189.55	14523712.88	39°59'28.3594"N	80°39'41.8706"W	600.03	185.405	1.14	
5008.00	10.620	189.880	4952.70	-563.56	-614.20	-59.41	1735186.66	14523696.05	39°59'28.1932"N	80°39'41.9086"W	617.06	185.525	0.18	
5102.00	10.640	190.730	5045.09	-578.75	-631.26	-62.51	1735183.56	14523679.00	39°59'28.0247"N	80°39'41.9493"W	634.34	185.655	0.17	
5193.00	10.410	189.550	5134.56	-593.34	-647.62	-65.44	1735180.63	14523662.64	39°59'27.8631"N	80°39'41.9877"W	650.92	185.770	0.35	
5284.00	10.560	191.420	5224.04	-607.82	-663.90	-68.46	1735177.62	14523646.37	39°59'27.7023"N	80°39'42.0272"W	667.42	185.887	0.41	



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Field	Marshall	API	47051024390000
Facility	David Reinbeau MSH Pad	Wellbore	David Reinbeau MSH 3H AWB
Slot	3H		

WELLPATH DATA (250 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]	Comments
5382.00	10.810	186.900	5320.34	-623.91	-681.83	-71.34	1735174.73	14523628.45	39°59'27.5253"N	80°39'42.0651"W	685.55	185.973	0.89	4 BH MWD 5382' - 22741'
5473.00	10.590	187.880	5409.76	-639.10	-698.58	-73.51	1735172.56	14523611.70	39°59'27.3598"N	80°39'42.0938"W	702.44	186.007	0.31	
5565.00	5.610	176.930	5500.82	-651.02	-711.45	-74.43	1735171.65	14523598.83	39°59'27.2326"N	80°39'42.1063"W	715.34	185.972	5.64	
5655.00	3.090	78.810	5590.64	-655.57	-715.38	-71.81	1735174.26	14523594.91	39°59'27.1937"N	80°39'42.0728"W	718.97	185.732	7.53	
5746.00	7.690	53.200	5681.23	-653.98	-711.25	-64.52	1735181.55	14523599.03	39°59'27.2342"N	80°39'41.9790"W	714.17	185.184	5.58	
5836.00	14.120	22.650	5769.62	-643.80	-697.49	-55.46	1735190.61	14523612.79	39°59'27.3699"N	80°39'41.8619"W	699.69	184.546	9.37	
5927.00	18.840	20.910	5856.86	-624.08	-673.51	-45.93	1735200.13	14523636.76	39°59'27.6065"N	80°39'41.7383"W	675.07	183.902	5.21	
6017.00	25.040	19.180	5940.30	-597.76	-641.91	-34.48	1735211.58	14523668.35	39°59'27.9183"N	80°39'41.5896"W	642.84	183.075	6.93	
6109.00	33.150	21.640	6020.63	-563.07	-600.07	-18.78	1735227.27	14523710.17	39°59'28.3312"N	80°39'41.3859"W	600.37	181.792	8.91	
6201.00	39.300	13.540	6094.85	-519.08	-548.28	-2.66	1735243.39	14523761.94	39°59'28.8424"N	80°39'41.1762"W	548.29	180.278	8.46	
6293.00	46.740	6.290	6162.11	-463.86	-486.54	7.86	1735253.90	14523823.66	39°59'29.4522"N	80°39'41.0381"W	486.60	179.075	9.70	
6386.00	54.210	3.040	6221.26	-397.93	-415.10	13.58	1735259.61	14523895.07	39°59'30.1580"N	80°39'40.9612"W	415.32	178.127	8.47	
6477.00	61.310	358.760	6269.79	-325.37	-338.21	14.67	1735260.71	14523971.93	39°59'30.9177"N	80°39'40.9433"W	338.53	177.516	8.76	
6569.00	68.420	355.110	6308.86	-245.14	-255.12	10.14	1735256.18	14524054.99	39°59'31.7390"N	80°39'40.9974"W	255.32	177.723	8.52	
6661.00	75.730	351.460	6337.16	-159.52	-168.27	-0.14	1735245.90	14524141.80	39°59'32.5977"N	80°39'41.1253"W	168.27	180.047	8.80	
6751.00	83.280	348.920	6353.54	-72.11	-81.14	-15.23	1735230.82	14524228.90	39°59'33.4593"N	80°39'41.3149"W	82.56	190.629	8.84	
6843.00	90.060	347.740	6358.88	19.03	8.75	-33.80	1735212.26	14524318.75	39°59'34.3483"N	80°39'41.5491"W	34.91	284.511	7.48	
6933.00	90.030	345.930	6358.81	108.63	96.38	-54.30	1735191.77	14524406.35	39°59'35.2151"N	80°39'41.8082"W	110.62	330.605	2.01	
7022.00	89.480	345.470	6359.19	197.39	182.62	-76.28	1735169.80	14524492.56	39°59'36.0681"N	80°39'42.0865"W	197.91	337.330	0.81	
7113.00	89.380	344.500	6360.10	288.21	270.51	-99.85	1735146.23	14524580.41	39°59'36.9375"N	80°39'42.3851"W	288.35	339.739	1.07	
7202.00	89.570	344.820	6360.92	377.07	356.33	-123.40	1735122.70	14524666.20	39°59'37.7866"N	80°39'42.6834"W	377.09	340.899	0.42	
7293.00	89.420	345.150	6361.72	467.90	444.22	-146.97	1735099.13	14524754.06	39°59'38.6560"N	80°39'42.9820"W	467.90	341.693	0.40	
7385.00	90.460	345.980	6361.81	559.67	533.32	-169.90	1735076.21	14524843.11	39°59'39.5373"N	80°39'43.2723"W	559.73	342.329	1.45	
7477.00	90.800	346.620	6360.80	651.34	622.69	-191.69	1735054.43	14524932.46	39°59'40.4214"N	80°39'43.5479"W	651.53	342.889	0.79	
7566.00	89.080	345.110	6360.90	740.07	708.99	-213.42	1735032.70	14525018.72	39°59'41.2750"N	80°39'43.8229"W	740.42	343.247	2.57	
7656.00	88.740	344.710	6362.61	829.89	795.87	-236.85	1735009.29	14525105.57	39°59'42.1345"N	80°39'44.1197"W	830.37	343.427	0.58	
7748.00	91.020	343.700	6362.80	921.78	884.39	-261.89	1734984.26	14525194.05	39°59'43.0102"N	80°39'44.4371"W	922.35	343.505	2.71	
7840.00	91.080	342.800	6361.11	1013.72	972.47	-288.40	1734957.76	14525282.10	39°59'43.8816"N	80°39'44.7734"W	1014.34	343.482	0.98	
7930.00	90.400	340.110	6359.95	1103.71	1057.78	-317.02	1734929.15	14525367.38	39°59'44.7258"N	80°39'45.1370"W	1104.27	343.316	3.08	
8022.00	90.740	339.540	6359.04	1195.66	1144.13	-348.75	1734897.43	14525453.69	39°59'45.5803"N	80°39'45.5405"W	1196.11	343.048	0.72	



Actual Wellpath Report

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Field	Marshall	API	47051024390000
Facility	David Reinbeau MSH Pad	Wellbore	David Reinbeau MSH 3H AWB
Slot	3H		

WELLPATH DATA (250 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]	Comments
8112.00	90.370	339.300	6358.16	1285.60	1228.39	-380.38	1734865.81	14525537.91	39°59'46.4141"N	80°39'45.9428"W	1285.93	342.794	0.49	
8202.00	91.050	340.630	6357.05	1375.56	1312.93	-411.21	1734834.99	14525622.42	39°59'47.2507"N	80°39'46.3349"W	1375.82	342.609	1.66	
8295.00	91.720	340.920	6354.80	1468.52	1400.72	-441.83	1734804.39	14525710.18	39°59'48.1194"N	80°39'46.7240"W	1468.75	342.493	0.78	
8387.00	90.740	342.670	6352.83	1560.50	1488.09	-470.56	1734775.67	14525797.51	39°59'48.9839"N	80°39'47.0889"W	1560.72	342.452	2.18	
8478.00	90.550	340.320	6351.80	1651.48	1574.37	-499.44	1734746.80	14525883.76	39°59'49.8376"N	80°39'47.4558"W	1651.69	342.399	2.59	
8569.00	89.970	340.410	6351.39	1742.47	1660.08	-530.02	1734716.23	14525969.44	39°59'50.6858"N	80°39'47.8445"W	1742.64	342.293	0.64	
8661.00	89.940	340.070	6351.46	1834.44	1746.66	-561.12	1734685.14	14526055.98	39°59'51.5425"N	80°39'48.2400"W	1834.58	342.190	0.37	
8753.00	91.660	340.030	6350.18	1926.40	1833.13	-592.51	1734653.77	14526142.42	39°59'52.3982"N	80°39'48.6391"W	1926.51	342.088	1.87	
8844.00	90.310	340.570	6348.61	2017.37	1918.79	-623.18	1734623.11	14526228.04	39°59'53.2459"N	80°39'49.0290"W	2017.45	342.007	1.60	
8936.00	91.230	341.260	6347.38	2109.35	2005.72	-653.25	1734593.05	14526314.94	39°59'54.1061"N	80°39'49.4113"W	2109.42	341.960	1.25	
9028.00	89.820	340.000	6346.53	2201.33	2092.51	-683.77	1734562.55	14526401.69	39°59'54.9648"N	80°39'49.7991"W	2201.39	341.904	2.06	
9120.00	90.920	340.440	6345.94	2293.31	2179.08	-714.90	1734531.43	14526488.23	39°59'55.8215"N	80°39'50.1949"W	2293.35	341.837	1.29	
9213.00	90.860	339.870	6344.49	2386.27	2266.54	-746.47	1734499.87	14526575.66	39°59'56.6870"N	80°39'50.5963"W	2386.30	341.771	0.62	
9304.00	90.000	341.820	6343.81	2477.26	2352.50	-776.32	1734470.03	14526661.58	39°59'57.5376"N	80°39'50.9758"W	2477.28	341.737	2.34	
9395.00	90.400	341.760	6343.49	2568.25	2438.94	-804.76	1734441.60	14526747.99	39°59'58.3929"N	80°39'51.3370"W	2568.28	341.739	0.44	
9488.00	91.390	340.970	6342.04	2661.24	2527.05	-834.47	1734411.90	14526836.07	39°59'59.2647"N	80°39'51.7145"W	2661.26	341.726	1.36	
9580.00	91.600	340.940	6339.64	2753.21	2613.98	-864.48	1734381.90	14526922.97	40°00'0.1249"N	80°39'52.0960"W	2753.22	341.700	0.23	
9671.00	92.770	341.670	6336.17	2844.14	2700.12	-893.63	1734352.77	14527009.07	40°00'0.9772"N	80°39'52.4663"W	2844.15	341.688	1.52	
9762.00	90.120	341.350	6333.88	2935.10	2786.39	-922.48	1734323.93	14527095.30	40°00'1.8308"N	80°39'52.8328"W	2935.12	341.682	2.93	
9854.00	91.750	340.730	6332.38	3027.08	2873.38	-952.36	1734294.05	14527182.26	40°00'2.6916"N	80°39'53.2126"W	3027.09	341.663	1.90	
9944.00	90.620	342.170	6330.51	3117.06	2958.68	-980.99	1734265.44	14527267.53	40°00'3.5357"N	80°39'53.5763"W	3117.07	341.656	2.03	
10035.00	90.090	342.010	6329.95	3208.05	3045.27	-1008.97	1734237.47	14527354.08	40°00'4.3924"N	80°39'53.9317"W	3208.07	341.669	0.61	
10128.00	90.090	340.060	6329.80	3301.04	3133.22	-1039.19	1734207.26	14527442.00	40°00'5.2626"N	80°39'54.3159"W	3301.06	341.651	2.10	
10219.00	91.420	341.710	6328.61	3392.03	3219.19	-1068.99	1734177.47	14527527.93	40°00'6.1133"N	80°39'54.6946"W	3392.04	341.630	2.33	
10311.00	89.750	341.560	6327.67	3484.02	3306.49	-1097.97	1734148.50	14527615.21	40°00'6.9772"N	80°39'55.0628"W	3484.03	341.630	1.82	
10403.00	91.420	341.100	6326.73	3576.01	3393.64	-1127.42	1734119.06	14527702.32	40°00'7.8395"N	80°39'55.4370"W	3576.02	341.623	1.88	
10494.00	90.920	341.830	6324.87	3666.99	3479.91	-1156.34	1734090.15	14527788.55	40°00'8.6930"N	80°39'55.8045"W	3667.00	341.619	0.97	
10587.00	89.570	341.350	6324.47	3759.98	3568.14	-1185.71	1734060.80	14527876.75	40°00'9.5661"N	80°39'56.1776"W	3759.99	341.618	1.54	
10678.00	90.340	340.450	6324.54	3850.98	3654.13	-1215.49	1734031.03	14527962.71	40°00'10.4170"N	80°39'56.5561"W	3850.99	341.601	1.30	
10771.00	91.140	343.330	6323.34	3943.96	3742.51	-1244.39	1734002.14	14528051.05	40°00'11.2914"N	80°39'56.9232"W	3943.97	341.608	3.21	



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Slot	3H		

WELLPATH DATA (250 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]	Comments
10864.00	90.000	338.580	6322.42	4036.92	3830.39	-1274.73	1733971.82	14528138.89	40°00'12.1610"N	80°39'57.3088"W	4036.93	341.593	5.25	
10957.00	90.620	341.030	6321.91	4129.87	3917.66	-1306.83	1733939.73	14528226.13	40°00'13.0246"N	80°39'57.7172"W	4129.87	341.553	2.72	
11048.00	90.890	341.980	6320.71	4220.86	4003.95	-1335.69	1733910.87	14528312.39	40°00'13.8784"N	80°39'58.0839"W	4220.87	341.552	1.09	
11139.00	90.490	341.660	6319.62	4311.85	4090.40	-1364.08	1733882.49	14528398.81	40°00'14.7338"N	80°39'58.4446"W	4311.86	341.557	0.56	
11231.00	90.180	341.490	6319.08	4403.85	4177.68	-1393.16	1733853.43	14528486.05	40°00'15.5974"N	80°39'58.8140"W	4403.86	341.558	0.38	
11322.00	90.060	341.240	6318.89	4494.85	4263.91	-1422.24	1733824.36	14528572.25	40°00'16.4506"N	80°39'59.1835"W	4494.85	341.554	0.30	
11412.00	90.150	341.310	6318.72	4584.85	4349.15	-1451.13	1733795.48	14528657.45	40°00'17.2940"N	80°39'59.5507"W	4584.85	341.548	0.13	
11503.00	90.950	341.320	6317.85	4675.85	4435.35	-1480.28	1733766.34	14528743.62	40°00'18.1470"N	80°39'59.9212"W	4675.85	341.544	0.88	
11596.00	90.890	341.720	6316.36	4768.83	4523.54	-1509.76	1733736.88	14528831.78	40°00'19.0196"N	80°40'0.2957"W	4768.84	341.543	0.43	
11687.00	90.580	341.690	6315.19	4859.83	4609.93	-1538.32	1733708.33	14528918.14	40°00'19.8744"N	80°40'0.6586"W	4859.83	341.546	0.34	
11778.00	90.400	341.710	6314.41	4950.82	4696.33	-1566.89	1733679.76	14529004.50	40°00'20.7292"N	80°40'1.0216"W	4950.82	341.549	0.20	
11868.00	90.710	341.790	6313.54	5040.82	4781.80	-1595.08	1733651.59	14529089.93	40°00'21.5749"N	80°40'1.3797"W	5040.82	341.553	0.36	
11960.00	89.970	341.960	6312.99	5132.81	4869.23	-1623.70	1733622.98	14529177.33	40°00'22.4400"N	80°40'1.7433"W	5132.82	341.558	0.83	
12052.00	90.120	341.720	6312.92	5224.81	4956.65	-1652.37	1733594.32	14529264.71	40°00'23.3049"N	80°40'2.1076"W	5224.81	341.563	0.31	
12144.00	90.550	342.400	6312.38	5316.80	5044.17	-1680.71	1733565.99	14529352.20	40°00'24.1709"N	80°40'2.4675"W	5316.81	341.572	0.87	
12235.00	90.000	341.370	6311.95	5407.80	5130.66	-1709.00	1733537.71	14529438.66	40°00'25.0266"N	80°40'2.8270"W	5407.80	341.577	1.28	
12327.00	91.660	340.920	6310.61	5499.78	5217.71	-1738.73	1733508.00	14529525.67	40°00'25.8880"N	80°40'3.2048"W	5499.79	341.570	1.87	
12419.00	90.310	341.340	6309.03	5591.77	5304.75	-1768.48	1733478.26	14529612.68	40°00'26.7492"N	80°40'3.5830"W	5591.77	341.563	1.54	
12511.00	89.940	341.520	6308.83	5683.77	5391.96	-1797.78	1733448.97	14529699.86	40°00'27.6122"N	80°40'3.9553"W	5683.77	341.561	0.45	
12603.00	90.490	340.810	6308.49	5775.76	5479.03	-1827.48	1733419.28	14529786.89	40°00'28.4737"N	80°40'4.3328"W	5775.77	341.554	0.98	
12695.00	90.950	341.410	6307.33	5867.75	5566.07	-1857.26	1733389.51	14529873.90	40°00'29.3349"N	80°40'4.7114"W	5867.76	341.547	0.82	
12788.00	90.220	342.000	6306.38	5960.75	5654.36	-1886.45	1733360.33	14529962.16	40°00'30.2085"N	80°40'5.0823"W	5960.75	341.550	1.01	
12880.00	91.110	341.250	6305.31	6052.74	5741.67	-1915.45	1733331.34	14530049.42	40°00'31.0724"N	80°40'5.4508"W	6052.74	341.551	1.27	
12971.00	90.180	341.510	6304.29	6143.73	5827.90	-1944.50	1733302.30	14530135.62	40°00'31.9256"N	80°40'5.8201"W	6143.73	341.548	1.06	
13062.00	89.420	339.860	6304.61	6234.72	5913.77	-1974.60	1733272.21	14530221.46	40°00'32.7753"N	80°40'6.2028"W	6234.72	341.536	2.00	
13155.00	90.950	340.890	6304.31	6327.70	6001.36	-2005.84	1733240.99	14530309.02	40°00'33.6421"N	80°40'6.6000"W	6327.70	341.519	1.98	
13248.00	90.090	341.090	6303.46	6420.69	6089.29	-2036.13	1733210.71	14530396.91	40°00'34.5121"N	80°40'6.9850"W	6420.69	341.511	0.95	
13340.00	90.340	341.270	6303.12	6512.68	6176.37	-2065.81	1733181.05	14530483.95	40°00'35.3737"N	80°40'7.3623"W	6512.69	341.506	0.33	
13431.00	91.380	341.500	6301.75	6603.67	6262.60	-2094.85	1733152.01	14530570.15	40°00'36.2269"N	80°40'7.7314"W	6603.67	341.505	1.17	
13524.00	90.710	341.250	6300.06	6696.66	6350.71	-2124.55	1733122.33	14530658.23	40°00'37.0988"N	80°40'8.1089"W	6696.66	341.503	0.77	



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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]	Comments
13616.00	90.400	341.530	6299.16	6788.65	6437.90	-2153.91	1733092.98	14530745.38	40°00'37.9614"N	80°40'8.4820"W	6788.65	341.501	0.45	
13708.00	90.030	339.940	6298.82	6880.64	6524.74	-2184.26	1733062.64	14530832.19	40°00'38.8208"N	80°40'8.8679"W	6880.64	341.491	1.77	
13801.00	91.140	343.740	6297.87	6973.62	6613.09	-2213.24	1733033.67	14530920.50	40°00'39.6949"N	80°40'9.2361"W	6973.62	341.496	4.26	
13893.00	90.090	342.740	6296.88	7065.56	6701.17	-2239.76	1733007.16	14531008.55	40°00'40.5663"N	80°40'9.5729"W	7065.57	341.519	1.58	
13984.00	90.280	342.430	6296.59	7156.55	6788.00	-2267.00	1732979.93	14531095.35	40°00'41.4254"N	80°40'9.9187"W	7156.55	341.532	0.40	
14077.00	90.680	341.780	6295.81	7249.54	6876.49	-2295.57	1732951.37	14531183.81	40°00'42.3010"N	80°40'10.2818"W	7249.54	341.539	0.82	
14168.00	90.650	341.800	6294.75	7340.53	6962.93	-2324.01	1732922.94	14531270.21	40°00'43.1562"N	80°40'10.6431"W	7340.53	341.543	0.04	
14259.00	90.830	342.460	6293.58	7431.52	7049.53	-2351.93	1732895.03	14531356.78	40°00'44.0130"N	80°40'10.9978"W	7431.52	341.550	0.75	
14350.00	90.740	342.930	6292.33	7522.49	7136.41	-2379.00	1732867.98	14531443.62	40°00'44.8725"N	80°40'11.3415"W	7522.49	341.564	0.53	
14440.00	90.000	341.990	6291.75	7612.47	7222.22	-2406.12	1732840.87	14531529.40	40°00'45.7215"N	80°40'11.6860"W	7612.48	341.574	1.33	
14532.00	90.250	340.610	6291.55	7704.47	7309.36	-2435.62	1732811.38	14531616.50	40°00'46.5838"N	80°40'12.0609"W	7704.48	341.571	1.52	
14622.00	91.200	343.930	6290.41	7794.44	7395.06	-2463.02	1732783.99	14531702.17	40°00'47.4317"N	80°40'12.4090"W	7794.45	341.579	3.84	
14710.00	89.660	342.130	6289.75	7882.40	7479.22	-2488.70	1732758.32	14531786.30	40°00'48.2644"N	80°40'12.7351"W	7882.41	341.595	2.69	
14803.00	90.460	341.300	6289.65	7975.40	7567.53	-2517.88	1732729.15	14531874.57	40°00'49.1381"N	80°40'13.1059"W	7975.41	341.597	1.24	
14895.00	91.480	341.930	6288.09	8067.38	7654.82	-2546.89	1732700.15	14531961.83	40°00'50.0017"N	80°40'13.4746"W	8067.40	341.597	1.30	
14985.00	90.920	343.660	6286.21	8157.33	7740.77	-2573.50	1732673.55	14532047.74	40°00'50.8521"N	80°40'13.8126"W	8157.35	341.610	2.02	
15072.00	90.250	340.940	6285.32	8244.31	7823.64	-2599.95	1732647.11	14532130.58	40°00'51.6720"N	80°40'14.1485"W	8244.33	341.617	3.22	
15163.00	91.110	341.510	6284.24	8335.30	7909.79	-2629.24	1732617.84	14532216.70	40°00'52.5244"N	80°40'14.5208"W	8335.32	341.613	1.13	
15255.00	89.380	342.470	6283.85	8427.30	7997.27	-2657.68	1732589.40	14532304.15	40°00'53.3900"N	80°40'14.8822"W	8427.32	341.617	2.15	
15345.00	91.080	340.750	6283.49	8517.29	8082.67	-2686.07	1732561.02	14532389.51	40°00'54.2350"N	80°40'15.2431"W	8517.31	341.617	2.69	
15436.00	90.520	342.540	6282.22	8608.27	8169.03	-2714.72	1732532.38	14532475.84	40°00'55.0894"N	80°40'15.6072"W	8608.30	341.617	2.06	
15529.00	90.090	342.350	6281.72	8701.26	8257.70	-2742.77	1732504.34	14532564.47	40°00'55.9667"N	80°40'15.9635"W	8701.28	341.626	0.51	
15621.00	90.000	342.240	6281.65	8793.25	8345.34	-2770.75	1732476.38	14532652.08	40°00'56.8338"N	80°40'16.3190"W	8793.28	341.633	0.15	
15709.00	91.230	339.480	6280.70	8881.23	8428.46	-2799.60	1732447.54	14532735.17	40°00'57.6563"N	80°40'16.6858"W	8881.26	341.626	3.43	
15799.00	89.750	341.830	6279.93	8971.21	8513.37	-2829.41	1732417.74	14532820.04	40°00'58.4964"N	80°40'17.0649"W	8971.23	341.616	3.09	
15891.00	90.520	341.460	6279.72	9063.21	8600.69	-2858.38	1732388.78	14532907.32	40°00'59.3604"N	80°40'17.4331"W	9063.23	341.616	0.93	
15982.00	91.540	343.500	6278.08	9154.17	8687.44	-2885.77	1732361.41	14532994.05	40°01'0.2188"N	80°40'17.7810"W	9154.20	341.625	2.51	
16073.00	89.750	342.290	6277.06	9245.13	8774.41	-2912.53	1732334.65	14533080.98	40°01'1.0791"N	80°40'18.1209"W	9245.16	341.637	2.37	
16164.00	91.140	341.150	6276.35	9336.13	8860.81	-2941.07	1732306.12	14533167.35	40°01'1.9340"N	80°40'18.4836"W	9336.16	341.638	1.98	
16256.00	90.920	343.820	6274.70	9428.09	8948.52	-2968.75	1732278.45	14533255.02	40°01'2.8018"N	80°40'18.8352"W	9428.13	341.646	2.91	



Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
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Field	Marshall	API	47051024390000
Facility	David Reinbeau MSH Pad	Wellbore	David Reinbeau MSH 3H AWB
Slot	3H		

WELLPATH DATA (250 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]	Comments
16347.00	90.220	340.930	6273.79	9519.06	9035.24	-2996.30	1732250.92	14533341.70	40°01'3.6597"N	80°40'19.1852"W	9519.10	341.653	3.27	
16440.00	90.950	342.350	6272.84	9612.06	9123.50	-3025.59	1732221.64	14533429.93	40°01'4.5330"N	80°40'19.5575"W	9612.10	341.653	1.72	
16532.00	90.310	342.750	6271.83	9704.03	9211.26	-3053.18	1732194.06	14533517.65	40°01'5.4013"N	80°40'19.9079"W	9704.08	341.662	0.82	
16623.00	90.650	342.100	6271.07	9795.02	9298.00	-3080.66	1732166.59	14533604.37	40°01'6.2595"N	80°40'20.2570"W	9795.07	341.669	0.81	
16715.00	90.800	342.120	6269.90	9887.01	9385.55	-3108.92	1732138.35	14533691.88	40°01'7.1257"N	80°40'20.6161"W	9887.06	341.673	0.16	
16806.00	91.020	342.190	6268.46	9977.99	9472.16	-3136.80	1732110.47	14533778.46	40°01'7.9826"N	80°40'20.9704"W	9978.04	341.677	0.25	
16898.00	91.170	342.660	6266.70	10069.96	9559.85	-3164.57	1732082.71	14533866.11	40°01'8.8502"N	80°40'21.3232"W	10070.02	341.684	0.54	
16990.00	90.680	341.760	6265.21	10161.94	9647.44	-3192.68	1732054.62	14533953.67	40°01'9.7168"N	80°40'21.6803"W	10162.00	341.689	1.11	
17081.00	91.750	342.530	6263.28	10252.91	9734.03	-3220.57	1732026.73	14534040.23	40°01'10.5736"N	80°40'22.0348"W	10252.97	341.693	1.45	
17173.00	89.820	339.350	6262.02	10344.88	9820.97	-3250.61	1731996.71	14534127.13	40°01'11.4337"N	80°40'22.4167"W	10344.94	341.686	4.04	
17265.00	90.400	342.220	6261.85	10436.86	9907.83	-3280.88	1731966.45	14534213.96	40°01'12.2933"N	80°40'22.8017"W	10436.92	341.678	3.18	
17360.00	90.370	337.950	6261.21	10531.81	9997.13	-3313.23	1731934.11	14534303.22	40°01'13.1769"N	80°40'23.2134"W	10531.86	341.664	4.49	
17454.00	90.580	341.060	6260.43	10625.74	10085.16	-3346.14	1731901.21	14534391.22	40°01'14.0481"N	80°40'23.6322"W	10625.78	341.645	3.32	
17549.00	90.430	340.560	6259.59	10720.73	10174.88	-3377.37	1731870.00	14534480.90	40°01'14.9358"N	80°40'24.0293"W	10720.76	341.637	0.55	
17643.00	90.580	341.320	6258.76	10814.72	10263.72	-3408.06	1731839.32	14534569.71	40°01'15.8149"N	80°40'24.4196"W	10814.75	341.631	0.82	
17737.00	90.520	341.350	6257.86	10908.72	10352.77	-3438.14	1731809.25	14534658.73	40°01'16.6960"N	80°40'24.8021"W	10908.75	341.629	0.07	
17832.00	89.480	339.320	6257.86	11003.69	10442.23	-3470.11	1731777.29	14534748.14	40°01'17.5812"N	80°40'25.2088"W	11003.72	341.618	2.40	
17927.00	89.820	340.810	6258.44	11098.66	10531.53	-3502.50	1731744.92	14534837.41	40°01'18.4648"N	80°40'25.6209"W	11098.68	341.604	1.61	
18021.00	90.950	340.500	6257.81	11192.64	10620.22	-3533.64	1731713.79	14534926.07	40°01'19.3424"N	80°40'26.0170"W	11192.66	341.596	1.25	
18116.00	90.800	340.310	6256.36	11287.61	10709.71	-3565.49	1731681.95	14535015.52	40°01'20.2279"N	80°40'26.4222"W	11287.63	341.586	0.25	
18210.00	90.650	340.880	6255.17	11381.59	10798.36	-3596.72	1731650.73	14535104.14	40°01'21.1051"N	80°40'26.8194"W	11381.61	341.578	0.63	
18304.00	90.490	340.340	6254.23	11475.58	10887.02	-3627.93	1731619.54	14535192.77	40°01'21.9824"N	80°40'27.2164"W	11475.59	341.570	0.60	
18398.00	91.260	341.520	6252.80	11569.56	10975.85	-3658.63	1731588.84	14535281.56	40°01'22.8614"N	80°40'27.6069"W	11569.57	341.565	1.50	
18493.00	90.060	341.110	6251.70	11664.55	11065.84	-3689.07	1731558.42	14535371.51	40°01'23.7517"N	80°40'27.9939"W	11664.56	341.563	1.33	
18587.00	92.000	339.880	6250.01	11758.52	11154.42	-3720.44	1731527.06	14535460.06	40°01'24.6283"N	80°40'28.3930"W	11758.52	341.554	2.44	
18682.00	90.310	340.900	6248.10	11853.47	11243.89	-3752.32	1731495.19	14535549.49	40°01'25.5136"N	80°40'28.7986"W	11853.48	341.545	2.08	
18776.00	90.310	341.280	6247.59	11947.47	11332.82	-3782.78	1731464.74	14535638.38	40°01'26.3934"N	80°40'29.1860"W	11947.48	341.541	0.40	
18871.00	90.400	340.980	6247.00	12042.47	11422.71	-3813.51	1731434.03	14535728.24	40°01'27.2829"N	80°40'29.5767"W	12042.47	341.538	0.33	
18965.00	91.910	339.900	6245.11	12136.43	11511.26	-3844.97	1731402.58	14535816.76	40°01'28.1591"N	80°40'29.9770"W	12136.43	341.530	1.97	
19060.00	90.650	341.070	6242.99	12231.39	11600.78	-3876.70	1731370.87	14535906.24	40°01'29.0449"N	80°40'30.3806"W	12231.39	341.522	1.81	



Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
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Field	Marshall	API	47051024390000
Facility	David Reinbeau MSH Pad	Wellbore	David Reinbeau MSH 3H AWB
Slot	3H		

WELLPATH DATA (250 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]	Comments
19154.00	90.680	340.680	6241.89	12325.37	11689.59	-3907.49	1731340.08	14535995.01	40°01'29.9236"N	80°40'30.7723"W	12325.38	341.517	0.42	
19249.00	90.580	340.560	6240.85	12420.36	11779.20	-3939.01	1731308.57	14536084.59	40°01'30.8103"N	80°40'31.1733"W	12420.36	341.510	0.16	
19343.00	90.770	340.910	6239.74	12514.34	11867.93	-3970.03	1731277.57	14536173.29	40°01'31.6883"N	80°40'31.5677"W	12514.34	341.504	0.42	
19437.00	90.550	340.400	6238.66	12608.33	11956.61	-4001.16	1731246.45	14536261.94	40°01'32.5658"N	80°40'31.9638"W	12608.33	341.498	0.59	
19533.00	90.770	340.680	6237.55	12704.31	12047.12	-4033.14	1731214.48	14536352.41	40°01'33.4614"N	80°40'32.3707"W	12704.31	341.490	0.37	
19627.00	90.770	341.010	6236.29	12798.29	12135.91	-4063.98	1731183.65	14536441.16	40°01'34.3399"N	80°40'32.7630"W	12798.29	341.486	0.35	
19722.00	90.680	341.840	6235.09	12893.28	12225.95	-4094.24	1731153.41	14536531.17	40°01'35.2308"N	80°40'33.1477"W	12893.28	341.485	0.88	
19816.00	90.650	341.020	6234.00	12987.28	12315.05	-4124.17	1731123.48	14536620.24	40°01'36.1124"N	80°40'33.5283"W	12987.28	341.485	0.87	
19910.00	90.580	341.310	6232.99	13081.27	12404.01	-4154.52	1731093.15	14536709.16	40°01'36.9926"N	80°40'33.9142"W	13081.27	341.483	0.32	
20005.00	90.620	340.660	6231.99	13176.26	12493.83	-4185.47	1731062.21	14536798.94	40°01'37.8813"N	80°40'34.3079"W	13176.26	341.479	0.69	
20099.00	90.650	341.540	6230.95	13270.25	12582.75	-4215.92	1731031.78	14536887.83	40°01'38.7612"N	80°40'34.6951"W	13270.25	341.476	0.94	
20194.00	90.520	342.010	6229.98	13365.24	12672.98	-4245.63	1731002.08	14536978.02	40°01'39.6539"N	80°40'35.0728"W	13365.24	341.478	0.51	
20288.00	90.280	341.110	6229.33	13459.24	12762.15	-4275.36	1730972.36	14537067.16	40°01'40.5362"N	80°40'35.4509"W	13459.24	341.479	0.99	
20382.00	90.430	342.080	6228.74	13553.24	12851.34	-4305.04	1730942.69	14537156.31	40°01'41.4186"N	80°40'35.8282"W	13553.24	341.480	1.04	
20476.00	90.770	343.140	6227.76	13647.21	12941.04	-4333.13	1730914.61	14537245.97	40°01'42.3060"N	80°40'36.1851"W	13647.21	341.488	1.18	
20571.00	90.580	342.280	6226.64	13742.18	13031.74	-4361.36	1730886.39	14537336.64	40°01'43.2034"N	80°40'36.5438"W	13742.18	341.496	0.93	
20665.00	90.400	342.660	6225.84	13836.17	13121.37	-4389.67	1730858.09	14537426.24	40°01'44.0901"N	80°40'36.9036"W	13836.17	341.503	0.45	
20759.00	90.370	342.410	6225.20	13930.15	13211.03	-4417.88	1730829.89	14537515.86	40°01'44.9772"N	80°40'37.2621"W	13930.15	341.510	0.27	
20853.00	90.430	342.520	6224.55	14024.13	13300.66	-4446.20	1730801.58	14537605.46	40°01'45.8640"N	80°40'37.6220"W	14024.13	341.516	0.13	
20948.00	90.400	342.250	6223.86	14119.12	13391.21	-4474.95	1730772.84	14537695.97	40°01'46.7598"N	80°40'37.9873"W	14119.12	341.522	0.29	
21042.00	90.980	342.490	6222.73	14213.10	13480.78	-4503.42	1730744.39	14537785.51	40°01'47.6460"N	80°40'38.3491"W	14213.10	341.527	0.67	
21137.00	90.980	342.800	6221.10	14308.07	13571.45	-4531.75	1730716.07	14537876.14	40°01'48.5430"N	80°40'38.7091"W	14308.07	341.535	0.33	
21231.00	90.650	342.420	6219.77	14402.04	13661.14	-4559.85	1730687.99	14537965.80	40°01'49.4304"N	80°40'39.0660"W	14402.05	341.542	0.54	
21325.00	90.950	342.290	6218.45	14496.02	13750.71	-4588.34	1730659.51	14538055.33	40°01'50.3165"N	80°40'39.4281"W	14496.03	341.547	0.35	
21420.00	90.920	342.550	6216.90	14590.99	13841.26	-4617.03	1730630.83	14538145.84	40°01'51.2124"N	80°40'39.7927"W	14591.00	341.553	0.28	
21514.00	91.200	342.600	6215.16	14684.96	13930.93	-4645.17	1730602.69	14538235.48	40°01'52.0995"N	80°40'40.1504"W	14684.97	341.559	0.30	
21609.00	90.860	341.480	6213.46	14779.94	14021.28	-4674.46	1730573.42	14538325.80	40°01'52.9935"N	80°40'40.5227"W	14779.95	341.562	1.23	
21703.00	90.890	341.530	6212.02	14873.93	14110.42	-4704.27	1730543.61	14538414.90	40°01'53.8754"N	80°40'40.9018"W	14873.94	341.562	0.06	
21798.00	90.710	341.560	6210.69	14968.92	14200.52	-4734.34	1730513.56	14538504.97	40°01'54.7669"N	80°40'41.2842"W	14968.93	341.562	0.19	
21893.00	90.890	341.700	6209.37	15063.91	14290.67	-4764.28	1730483.63	14538595.08	40°01'55.6589"N	80°40'41.6649"W	15063.92	341.562	0.24	



Actual Wellpath Report

David Reinbeau MSH 3H awp 100' - 22741' Proj: 22778'
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Slot	3H		

WELLPATH DATA (250 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]	Comments
21987.00	90.950	341.790	6207.86	15157.90	14379.93	-4793.72	1730454.20	14538684.31	40°01'56.5420"N	80°40'42.0392"W	15157.91	341.564	0.12	
22081.00	91.690	341.540	6205.69	15251.87	14469.14	-4823.28	1730424.65	14538773.48	40°01'57.4246"N	80°40'42.4151"W	15251.88	341.564	0.83	
22175.00	91.600	341.760	6203.00	15345.83	14558.32	-4852.86	1730395.08	14538862.62	40°01'58.3070"N	80°40'42.7912"W	15345.84	341.565	0.25	
22270.00	91.350	341.410	6200.55	15440.80	14648.42	-4882.86	1730365.09	14538952.69	40°01'59.1985"N	80°40'43.1727"W	15440.81	341.565	0.45	
22365.00	91.320	341.620	6198.34	15535.77	14738.50	-4912.98	1730334.99	14539042.73	40°02'0.0897"N	80°40'43.5557"W	15535.79	341.565	0.22	
22459.00	91.260	341.300	6196.22	15629.75	14827.60	-4942.86	1730305.12	14539131.80	40°02'0.9712"N	80°40'43.9357"W	15629.76	341.564	0.35	
22553.00	91.600	341.220	6193.87	15723.72	14916.59	-4973.05	1730274.94	14539220.75	40°02'1.8517"N	80°40'44.3197"W	15723.73	341.562	0.37	
22647.00	91.350	341.390	6191.45	15817.69	15005.60	-5003.17	1730244.84	14539309.73	40°02'2.7324"N	80°40'44.7028"W	15817.70	341.561	0.32	
22741.00	91.350	341.690	6189.24	15911.66	15094.74	-5032.92	1730215.09	14539398.83	40°02'3.6143"N	80°40'45.0812"W	15911.67	341.560	0.32	
22778.00‡	91.350	341.690	6188.37	15948.65	15129.85	-5044.54	1730203.48	14539433.93	40°02'3.9618"N	80°40'45.2290"W	15948.66	341.561	0.00	Proj to TD

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
David Reinbeau MSH 3H BHL rev5	6168.00	15130.13	-5046.54	1730201.48	14539434.21	40°02'3.9646"N	80°40'45.2547"W	point
David Reinbeau MSH 3H LP rev6.	6359.00	1.93	-32.68	1735213.38	14524311.94	39°59'34.2809"N	80°39'41.5351"W	point



Actual Wellpath Report

David Reinbeau MSH 3H awp 100' - 22741' Proj: 22778'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	David Reinbeau MSH 3H
Field	Marshall	API	47051024390000
Facility	David Reinbeau MSH Pad	Wellbore	David Reinbeau MSH 3H AWB
Slot	3H		

WELLPATH COMPOSITION - Ref Wellbore: David Reinbeau MSH 3H AWB Ref Wellpath: David Reinbeau MSH 3H awp 100' - 22741' Proj: 22778'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
26.00	628.00	Gyrodata 2015 - GC+WIR+DPIPE	1 Imported GYRO 100 - 628'	David Reinbeau MSH 3H AWB	7/27/2022
628.00	2208.00	OWSG MWD rev2 + HRGM	2 Tally MWD 692' - 2208'	David Reinbeau MSH 3H AWB	7/27/2022
2208.00	5284.00	OWSG MWD rev2 + HRGM	3 Tally MWD 2353' - 5284'	David Reinbeau MSH 3H AWB	7/27/2022
5284.00	22778.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	4 BH MWD 5382' - 22741'	David Reinbeau MSH 3H AWB	7/27/2022