



# SWN PRODUCTION COMPANY, LLC



Location: Marshall County, WV  
 Field: Marshall  
 Facility: David Reinbeau MSH Pad

Slot: 406H  
 Well: David Reinbeau MSH 406H  
 Wellbore: David Reinbeau MSH 406H AWB

Plot reference wellpath is David Reinbeau MSH 406H awp Proj: 25709'	Grid System: NAD83 / UTM Zone 17 North, US feet
True vertical depths are referenced to SDC 40 (KB)	North Reference: Grid north
Reference wellpath measured depths are referenced to SDC 40 (KB)	Scale: True distance
SDC 40 (KB) to Mean Sea Level: 1277.1 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: 406H): -1251.1 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: tranlam on 2023-08-29; Database: WA_MPL_EASTERNUS_Defn

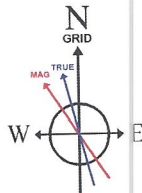
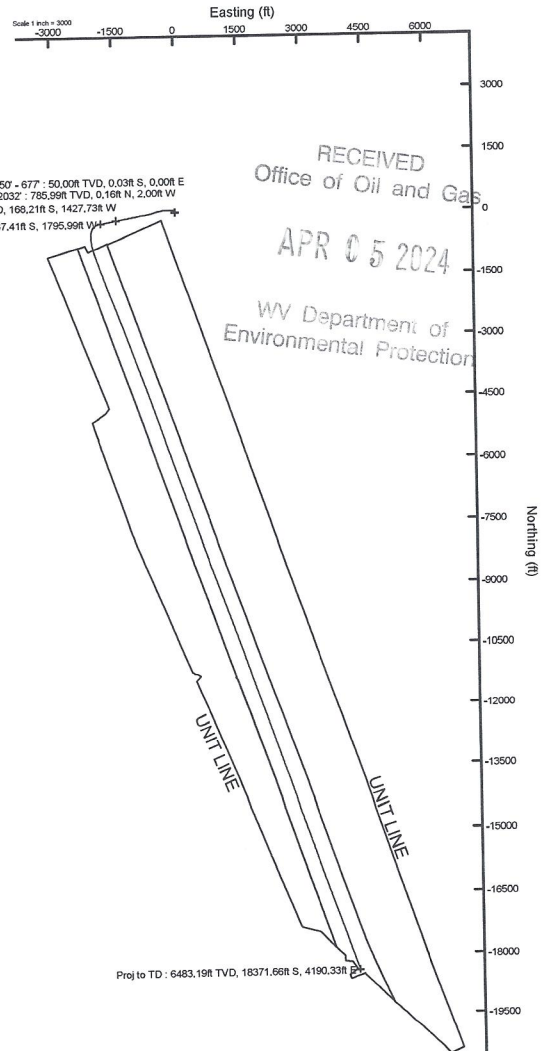
### Location Information

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
406H	33.61	-1.10	1735214.570	14524280.010	39°59'33.9652"N	80°39'41.5213"W
SDC 40 (KB) to Ground level (At Slot: 406H)					26ft	
Mean Sea Level to Ground level (At Slot: 406H)					-1251.1ft	
SDC 40 (KB) to Mean Sea Level					1277.1ft	

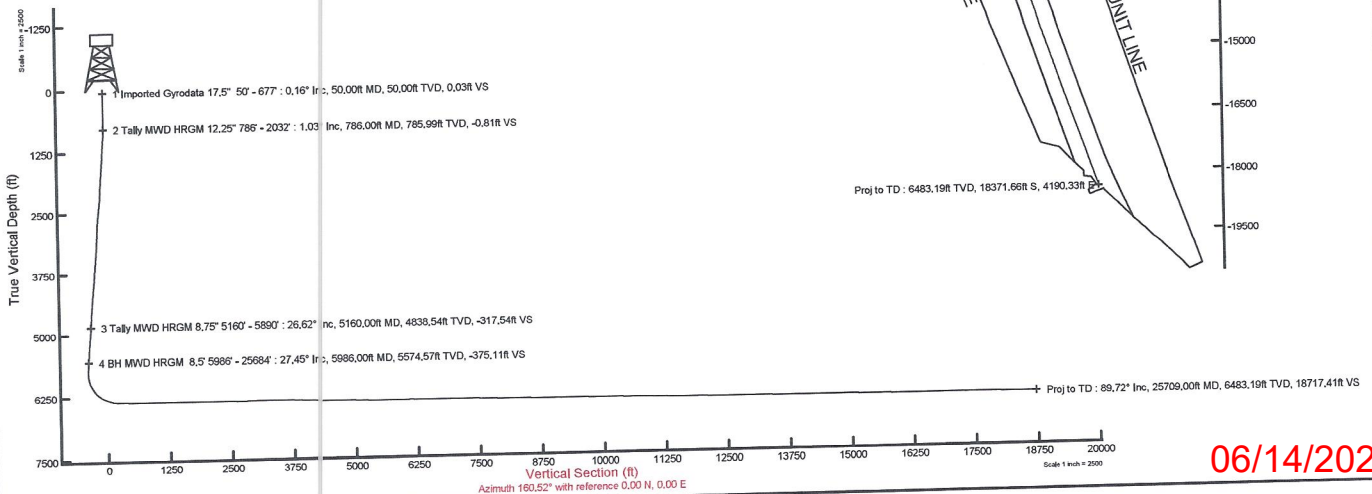
### Bottom Hole Location

MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
25709.00	89.720	159.790	6483.19	-18371.66	4190.33	1739403.26	14505915.55	39°56'32.2505"N	80°38'48.6178"W

API: 47051024990000  
 BH JOB: 111918584  
 DURATION: 08.19.2023 to 08.25.2023  
 RIG: SDC 40



HDGM2023 (1900.0 to 2024.0) Dip: 66.77° Field: 52036.7 nT  
 Magnetic North is 8.14 degrees West of True North (at 8/10/2023)  
 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



06/14/2024

# Actual Wellpath Report

David Reinbeau MSH 406H awp Proj: 25709'

Page 1 of 12

RECEIVED  
Office of Oil and Gas

APR 05 2024

WV Department of  
Environmental Protection

REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	David Reinbeau MSH 406H
Field	Marshall	API	47051024990000
Facility	David Reinbeau MSH Pad	Wellbore	David Reinbeau MSH 406H AWB
Slot	406H		

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	8/29/2023 at 1:51:53 PM
Convergence at slot	0.22° East	Database	WA_MPL_EASTERNUUS_Defn

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	33.61	-4.10	1735214.57	14524280.01	39°59'33.9652"N	80°39'41.5213"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	1277.10ft
Horizontal Reference Pt	Slot	SDC 40 (KB) to Mean Sea Level	1277.10ft
Vertical Reference Pt	SDC 40 (KB)	SDC 40 (KB) to Ground Level at Slot (406H)	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	160.52°



RECEIVED  
Office of Oil and Gas

APR 05 2024

WV Department of  
Environmental Protection

REFERENCE WELLPATH IDENTIFICATION											
Operator	SWN PRODUCTION COMPANY, LLC					Well	David Reinbeau MSH 406H			API	4705102499000
Field	Marshall					Wellbore	David Reinbeau MSH 406H AWB				
Facility	David Reinbeau MSH Pad										
Slot	406H										

WELLPATH DATA (280 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 [1/100ft]	
0.00†	0.000	183.020	0.00	0.00	0.00	0.00	1735214.57	14524280.01	39°59'33.9652"N	80°39'41.5213"W	0.00	0.000	0.00	
26.00	0.000	183.020	26.00	0.00	0.00	0.00	1735214.57	14524280.01	39°59'33.9652"N	80°39'41.5213"W	0.00	0.000	0.00	
50.00	0.160	183.020	50.00	0.03	-0.03	0.00	1735214.57	14524279.98	39°59'33.9649"N	80°39'41.5214"W	0.03	183.020	0.67	
100.00	0.200	142.250	100.00	0.18	-0.17	0.05	1735214.62	14524279.84	39°59'33.9635"N	80°39'41.5207"W	0.18	164.428	0.26	
150.00	0.110	166.130	150.00	0.31	-0.29	0.11	1735214.68	14524279.72	39°59'33.9624"N	80°39'41.5199"W	0.31	158.577	0.22	
200.00	0.150	229.530	200.00	0.38	-0.38	0.07	1735214.64	14524279.63	39°59'33.9615"N	80°39'41.5204"W	0.38	168.799	0.28	
250.00	0.020	193.580	250.00	0.41	-0.43	0.02	1735214.59	14524279.58	39°59'33.9610"N	80°39'41.5211"W	0.43	176.951	0.27	
300.00	0.060	213.180	300.00	0.43	-0.46	0.01	1735214.58	14524279.55	39°59'33.9607"N	80°39'41.5213"W	0.46	179.198	0.08	
350.00	0.020	19.300	350.00	0.44	-0.47	-0.01	1735214.56	14524279.54	39°59'33.9605"N	80°39'41.5214"W	0.47	180.611	0.16	
400.00	0.070	270.930	400.00	0.43	-0.46	-0.03	1735214.54	14524279.55	39°59'33.9606"N	80°39'41.5218"W	0.46	184.037	0.16	
450.00	0.150	255.960	450.00	0.41	-0.48	-0.13	1735214.44	14524279.53	39°59'33.9605"N	80°39'41.5230"W	0.50	194.832	0.17	
494.00	0.130	244.830	494.00	0.41	-0.51	-0.23	1735214.34	14524279.50	39°59'33.9601"N	80°39'41.5243"W	0.56	203.911	0.08	
500.00	0.170	271.030	500.00	0.41	-0.52	-0.24	1735214.33	14524279.49	39°59'33.9601"N	80°39'41.5245"W	0.57	205.182	1.31	
550.00	0.150	259.950	550.00	0.37	-0.53	-0.38	1735214.19	14524279.48	39°59'33.9600"N	80°39'41.5263"W	0.65	215.919	0.07	
600.00	0.220	280.720	600.00	0.31	-0.52	-0.54	1735214.03	14524279.49	39°59'33.9601"N	80°39'41.5283"W	0.75	226.085	0.19	
631.00	0.250	272.970	631.00	0.25	-0.51	-0.67	1735213.90	14524279.50	39°59'33.9602"N	80°39'41.5299"W	0.84	232.807	0.14	
650.00	0.360	263.950	650.00	0.22	-0.51	-0.77	1735213.80	14524279.50	39°59'33.9602"N	80°39'41.5312"W	0.92	236.394	0.63	
677.00	0.400	265.680	677.00	0.18	-0.53	-0.95	1735213.63	14524279.48	39°59'33.9600"N	80°39'41.5335"W	1.08	240.919	0.15	
786.00	1.030	316.620	785.99	-0.81	0.16	-2.00	1735212.57	14524280.17	39°59'33.9668"N	80°39'41.5470"W	2.00	274.513	0.77	
877.00	2.400	311.640	876.99	-3.23	2.02	-3.36	1735210.59	14524292.02	39°59'33.9883"N	80°39'41.5724"W	4.47	296.869	1.51	
967.00	3.750	319.970	966.82	-7.64	5.52	-7.28	1735207.29	14524285.53	39°59'34.0201"N	80°39'41.6147"W	9.14	307.173	1.58	
1059.00	5.200	316.060	1058.53	-14.25	10.83	-12.11	1735202.46	14524290.84	39°59'34.0727"N	80°39'41.6764"W	16.25	311.799	1.61	
1151.00	5.250	317.090	1150.15	-21.91	16.91	-17.87	1735196.71	14524296.92	39°59'34.1330"N	80°39'41.7501"W	24.61	313.424	0.12	
1242.00	4.630	311.340	1240.81	-28.93	22.39	-23.46	1735191.12	14524302.39	39°59'34.1874"N	80°39'41.8217"W	32.43	313.659	0.87	
1334.00	4.240	312.250	1332.54	-35.17	27.13	-34.07	1735185.81	14524307.13	39°59'34.2344"N	80°39'41.8896"W	39.54	313.320	0.43	
1424.00	4.520	306.790	1422.27	-41.05	31.49	-40.42	1735180.51	14524311.49	39°59'34.2777"N	80°39'41.9576"W	46.40	312.745	0.56	
1516.00	5.520	308.940	1513.92	-47.83	36.44	-40.42	1735174.17	14524316.44	39°59'34.3269"N	80°39'42.0388"W	54.42	312.040	1.11	
1606.00	5.780	302.450	1603.48	-55.09	41.60	-47.61	1735166.98	14524321.59	39°59'34.3780"N	80°39'42.1310"W	63.22	311.143	0.77	
1698.00	6.410	293.150	1694.97	-62.22	46.10	-56.24	1735158.35	14524326.09	39°59'34.4229"N	80°39'42.2417"W	72.72	309.341	1.27	
1788.00	8.040	285.390	1784.25	-69.22	49.75	-66.93	1735147.67	14524329.74	39°59'34.4593"N	80°39'42.3788"W	83.39	306.622	2.11	





Southwestern Energy®

# Actual Wellpath Report

David Reinbeau MSH 406H awp Proj: 25709'

Page 3 of 12

RECEIVED  
Office of Oil and Gas

APR 05 2024

WV Department of  
Environmental Protection



06/14/2024

## REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	David Reinbeau MSH 406H
Field	Marshall	API	47051024990000
Facility	David Reinbeau MSH Pad	Wellbore	David Reinbeau MSH 406H AWB
Slot	406H		

## WELLPATH DATA (280 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]
1879.00	9.370	274.440	1874.21	-75.86	52.01	-80.45	1735134.15	14524332.00	39°59'34.4822"N	80°39'42.5524"W	95.80	302.881	2.33
1970.00	10.610	266.960	1963.83	-81.23	52.14	-96.20	1735118.40	14524332.13	39°59'34.4840"N	80°39'42.7548"W	109.42	298.455	1.97
2032.00	11.380	264.630	2024.69	-84.34	51.26	-107.99	1735106.62	14524331.25	39°59'34.4758"N	80°39'42.9064"W	119.54	295.393	1.43
2160.00	12.690	267.240	2149.87	-91.47	49.40	-134.61	1735080.01	14524329.39	39°59'34.4585"N	80°39'43.2484"W	143.39	290.154	1.11
2254.00	14.390	271.560	2241.26	-98.63	49.22	-156.60	1735058.03	14524329.21	39°59'34.4575"N	80°39'43.5310"W	164.16	287.449	2.10
2345.00	15.950	273.540	2329.09	-107.58	50.30	-180.39	1735034.25	14524330.29	39°59'34.4691"N	80°39'43.8365"W	187.27	285.582	1.81
2435.00	18.360	272.450	2415.08	-117.71	51.67	-206.89	1735007.76	14524331.66	39°59'34.4836"N	80°39'44.1770"W	213.25	284.023	2.70
2526.00	20.790	267.230	2500.82	-127.71	51.51	-237.35	1734977.31	14524331.50	39°59'34.4831"N	80°39'44.5684"W	242.88	282.244	3.29
2617.00	22.750	264.770	2585.33	-136.68	49.12	-271.01	1734943.67	14524329.11	39°59'34.4608"N	80°39'45.0009"W	275.42	280.274	2.38
2708.00	24.490	262.010	2668.70	-144.77	44.90	-307.21	1734907.48	14524324.89	39°59'34.4204"N	80°39'45.4663"W	310.48	278.314	2.27
2799.00	26.520	259.320	2750.83	-151.64	38.51	-345.86	1734868.84	14524318.50	39°59'34.3587"N	80°39'45.9631"W	348.00	276.353	2.57
2890.00	27.780	257.640	2831.81	-157.38	30.20	-386.54	1734828.18	14524310.20	39°59'34.2781"N	80°39'46.4862"W	387.72	274.468	1.62
2980.00	29.210	256.500	2910.90	-162.26	20.59	-428.39	1734786.35	14524300.59	39°59'34.1847"N	80°39'47.0243"W	428.88	272.751	1.70
3071.00	29.520	254.770	2990.21	-166.24	9.51	-471.61	1734743.15	14524289.52	39°59'34.0769"N	80°39'47.5802"W	471.71	271.156	0.99
3161.00	28.540	255.090	3068.90	-169.60	-1.84	-513.78	1734700.99	14524278.17	39°59'33.9662"N	80°39'48.1226"W	513.78	269.794	1.10
3252.00	28.290	257.970	3148.94	-174.12	-11.93	-555.88	1734658.91	14524268.08	39°59'33.8681"N	80°39'48.6640"W	556.01	268.770	1.53
3342.00	27.860	257.200	3228.35	-179.34	-21.04	-597.25	1734617.56	14524258.98	39°59'33.7797"N	80°39'49.1959"W	597.62	267.983	0.62
3433.00	28.170	257.720	3308.69	-184.50	-30.32	-638.97	1734575.85	14524249.71	39°59'33.6895"N	80°39'49.7324"W	639.69	267.284	0.43
3526.00	28.250	259.140	3390.64	-190.55	-39.13	-682.03	1734532.80	14524240.89	39°59'33.6040"N	80°39'50.2861"W	683.16	266.716	0.73
3617.00	28.520	260.580	3470.70	-197.57	-46.74	-724.02	1734490.24	14524233.28	39°59'33.5303"N	80°39'50.8336"W	726.12	266.309	0.81
3708.00	28.030	261.630	3550.85	-205.49	-53.41	-767.20	1734447.67	14524226.62	39°59'33.4660"N	80°39'51.3811"W	769.06	266.017	0.77
3799.00	28.280	261.460	3631.08	-213.70	-59.73	-809.68	1734405.21	14524220.31	39°59'33.4052"N	80°39'51.9271"W	811.88	265.781	0.29
3890.00	27.950	260.100	3711.34	-221.34	-66.59	-852.00	1734362.90	14524213.44	39°59'33.3389"N	80°39'52.4712"W	854.60	265.531	0.79
3980.00	27.430	260.000	3791.03	-228.27	-73.82	-893.19	1734321.73	14524206.22	39°59'33.2690"N	80°39'53.0008"W	896.24	265.275	0.58
4071.00	27.110	261.020	3871.92	-235.50	-80.70	-934.32	1734280.62	14524199.34	39°59'33.2026"N	80°39'53.5295"W	937.80	265.064	0.62
4162.00	26.600	260.980	3953.11	-242.97	-87.13	-974.92	1734240.03	14524192.92	39°59'33.1406"N	80°39'54.0515"W	978.80	264.893	0.56
4253.00	26.480	260.870	4034.52	-250.32	-93.54	-1015.07	1734199.90	14524186.51	39°59'33.0787"N	80°39'54.5677"W	1019.37	264.735	0.14
4343.00	26.620	260.910	4115.03	-257.56	-99.91	-1054.79	1734160.19	14524180.14	39°59'33.0172"N	80°39'55.0783"W	1059.51	264.589	0.16
4434.00	27.000	262.090	4196.24	-265.38	-105.97	-1095.38	1734119.62	14524174.08	39°59'32.9588"N	80°39'55.6001"W	1100.50	264.474	0.72
4527.00	27.300	260.780	4279.00	-273.41	-112.30	-1137.34	1734077.67	14524167.76	39°59'32.8979"N	80°39'56.1396"W	1142.88	264.361	0.72





Southwestern Energy®

# Actual Wellpath Report

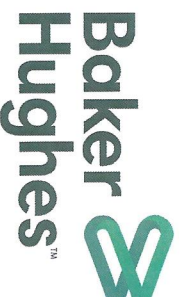
David Reinbeau MSH 406H awp Proj: 25709'

Page 4 of 12

RECEIVED  
Office of Oil and Gas

APR 05 2024

WV Department of  
Environmental Protection



06/14/2024

## REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	David Reinbeau MSH 406H
Field	Marshall	API	47051024990000
Facility	David Reinbeau MSH Pad	Wellbore	David Reinbeau MSH 406H AWB
Slot	406H		

## WELLPATH DATA (280 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)
4618.00	28.000	261.280	4359.61	-281.12	-118.88	-1179.06	1734035.97	14524161.18	39°59'32.8344"N	80°39'56.6758"W	1185.04	264.243	0.81
4708.00	28.230	261.130	4438.99	-288.98	-125.36	-1220.97	1733994.08	14524154.70	39°59'32.7718"N	80°39'57.2146"W	1227.39	264.138	0.27
4799.00	29.160	260.120	4518.81	-296.64	-132.49	-1264.08	1733950.99	14524147.58	39°59'32.7031"N	80°39'57.7688"W	1271.00	264.017	1.15
4889.00	28.450	258.240	4597.67	-303.18	-140.62	-1306.67	1733908.41	14524139.45	39°59'32.6243"N	80°39'58.3164"W	1314.21	263.858	1.28
4979.00	27.450	256.410	4677.18	-308.19	-149.86	-1347.82	1733867.28	14524130.21	39°59'32.5344"N	80°39'58.8456"W	1356.13	263.655	1.46
5070.00	26.830	257.390	4758.16	-312.79	-159.27	-1388.25	1733826.86	14524120.80	39°59'32.4429"N	80°39'59.3655"W	1397.36	263.455	0.84
5160.00	26.620	257.110	4838.54	-317.54	-168.21	-1427.73	1733787.40	14524111.87	39°59'32.3561"N	80°39'59.8731"W	1437.60	263.281	0.27
5251.00	26.450	258.530	4919.96	-322.70	-176.78	-1467.46	1733747.68	14524103.30	39°59'32.2728"N	80°40'0.3840"W	1478.07	263.131	0.72
5341.00	28.060	261.230	4999.97	-329.43	-184.00	-1508.03	1733707.13	14524096.08	39°59'32.2030"N	80°40'0.9056"W	1519.21	263.044	2.26
5433.00	27.380	260.990	5081.41	-337.29	-190.61	-1550.31	1733664.87	14524089.47	39°59'32.1392"N	80°40'1.4491"W	1561.98	262.991	0.75
5526.00	27.310	259.360	5164.02	-344.46	-197.90	-1592.40	1733622.80	14524082.19	39°59'32.0688"N	80°40'1.9903"W	1604.65	262.916	0.81
5616.00	27.700	260.300	5243.84	-351.19	-205.23	-1633.31	1733581.90	14524074.86	39°59'31.9978"N	80°40'2.5162"W	1646.15	262.838	0.65
5707.00	27.150	259.290	5324.62	-357.94	-212.66	-1674.56	1733540.67	14524067.44	39°59'31.9259"N	80°40'3.0466"W	1688.01	262.763	0.79
5799.00	26.490	257.810	5406.72	-363.75	-220.89	-1715.24	1733500.00	14524059.21	39°59'31.8461"N	80°40'3.5696"W	1729.40	262.662	1.02
5890.00	25.330	257.870	5488.57	-368.81	-229.27	-1754.11	1733461.15	14524050.83	39°59'31.7647"N	80°40'4.0694"W	1769.03	262.554	1.28
5986.00	27.450	260.050	5574.57	-375.11	-237.41	-1795.99	1733419.29	14524042.70	39°59'31.6858"N	80°40'4.6079"W	1811.61	262.470	2.43
6086.00	24.740	258.010	5664.37	-381.65	-245.74	-1839.17	1733376.12	14524034.37	39°59'31.6051"N	80°40'5.1630"W	1855.51	262.390	2.85
6183.00	27.950	256.410	5751.28	-386.63	-255.30	-1881.13	1733334.18	14524024.81	39°59'31.5122"N	80°40'5.7026"W	1898.37	262.271	3.39
6279.00	27.800	242.230	5836.24	-385.71	-271.03	-1922.85	1733292.47	14524009.08	39°59'31.3582"N	80°40'6.2394"W	1941.86	261.977	6.89
6376.00	31.150	225.330	5920.82	-371.74	-290.97	-1960.78	1733254.55	14523990.86	39°59'31.0866"N	80°40'6.7284"W	1983.49	261.322	9.21
6473.00	34.550	210.290	6002.43	-343.24	-320.74	-1992.56	1733222.79	14523983.99	39°59'30.6719"N	80°40'7.1384"W	2021.48	260.294	9.09
6569.00	39.070	200.600	6079.34	-302.46	-362.63	-2016.97	1733198.39	14523887.53	39°59'30.1600"N	80°40'7.4545"W	2054.83	258.986	7.65
6666.00	45.560	190.560	6151.11	-248.97	-455.43	-2034.11	1733181.26	14523824.76	39°59'29.5401"N	80°40'7.6777"W	2084.47	257.380	9.64
6762.00	52.200	182.420	6214.27	-183.98	-527.16	-2042.01	1733173.36	14523753.06	39°59'28.8315"N	80°40'7.7826"W	2108.95	255.525	9.41
6859.00	59.730	176.400	6268.55	-107.98	-607.42	-2040.99	1733174.38	14523672.83	39°59'28.0933"N	80°40'7.7734"W	2129.46	253.427	9.31
6955.00	66.950	171.690	6311.62	-24.62	-692.65	-2031.99	1733183.38	14523587.63	39°59'27.1957"N	80°40'7.6618"W	2146.80	251.177	8.70
7052.00	74.300	168.190	6343.78	65.58	-782.66	-2015.96	1733199.40	14523497.66	39°59'26.3056"N	80°40'7.4601"W	2162.55	248.782	8.31
7148.00	81.690	164.790	6363.74	158.89	-873.87	-1994.00	1733221.35	14523406.48	39°59'25.4034"N	80°40'7.1824"W	2177.09	246.335	8.44
7245.00	89.660	161.240	6371.06	255.43	-966.28	-1965.76	1733249.58	14523314.10	39°59'24.4891"N	80°40'6.8239"W	2190.41	243.823	8.99
7342.00	89.510	160.730	6371.76	352.43	-1057.99	-1934.16	1733281.17	14523222.44	39°59'23.5817"N	80°40'6.4223"W	2204.61	241.321	0.55





# Actual Wellpath Report

David Reinbeau MSH 406H awp Proj: 25709

Page 5 of 12

RECEIVED  
Office of Oil and Gas  
APR 05 2024  
WV Department of  
Environmental Protection



06/14/2024

REFERENCE WELLPATH IDENTIFICATION		Well	David Reinbeau MSH 406H
Operator	SWN PRODUCTION COMPANY, LLC	API	47051024990000
Field	Marshall	Wellbore	David Reinbeau MSH 406H AWB
Facility	David Reinbeau MSH Pad		
Slot	406H		

## WELLPATH DATA (280 stations)

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[ft]	[°]	[°/100ft]
7438.00	89.540	160.230	6372.55	448.42	-1148.47	-1902.08	1733313.23	14523131.99	39°59'22.6864"N	80°40'6.0145"W	2221.91	238.877	0.52
7534.00	89.600	160.450	6373.27	544.42	-1238.87	-1869.78	17333345.52	14533041.63	39°59'21.7918"N	80°40'5.6039"W	2242.96	236.473	0.24
7631.00	90.310	159.560	6373.35	641.42	-1330.02	-1836.62	17333378.67	14522950.51	39°59'20.8898"N	80°40'5.1821"W	2267.62	234.089	1.17
7728.00	90.430	160.740	6372.72	738.41	-1421.25	-1803.68	1733411.60	14522859.31	39°59'19.9870"N	80°40'4.7634"W	2286.35	231.763	1.22
7824.00	89.720	159.890	6372.60	834.41	-1511.64	-1771.34	1733443.92	14522768.96	39°59'19.0926"N	80°40'4.3522"W	2328.67	229.523	1.15
7921.00	89.720	160.550	6373.07	931.40	-1602.92	-1738.52	1733450.74	14522677.72	39°59'18.1894"N	80°40'3.9349"W	2364.70	227.324	0.68
8017.00	89.660	160.420	6373.59	1027.40	-1693.40	-1706.45	1733508.79	14522587.27	39°59'17.2940"N	80°40'3.5272"W	2404.07	225.220	0.15
8113.00	89.750	160.680	6374.09	1123.40	-1783.92	-1674.48	1733540.74	14522496.79	39°59'16.3983"N	80°40'3.1209"W	2446.68	223.188	0.29
8210.00	90.060	160.380	6374.25	1220.40	-1875.37	-1642.15	1733573.06	14522405.37	39°59'15.4933"N	80°40'2.7099"W	2492.73	221.207	0.44
8306.00	90.520	161.480	6373.76	1316.40	-1966.10	-1610.79	1733604.41	14522314.68	39°59'14.5956"N	80°40'2.3113"W	2541.69	219.327	1.24
8403.00	89.940	157.100	6373.37	1413.35	-2056.81	-1576.49	1733638.69	14522224.01	39°59'13.6979"N	80°40'1.8751"W	2591.49	217.469	4.55
8499.00	89.600	158.010	6373.76	1509.22	-2145.54	-1539.84	1733675.33	14522135.31	39°59'12.8197"N	80°40'1.4085"W	2640.92	215.667	1.01
8596.00	89.880	158.720	6374.20	1606.15	-2235.70	-1504.08	1733711.08	14522045.18	39°59'11.9274"N	80°40'0.9533"W	2694.55	213.931	0.79
8692.00	89.690	159.140	6374.56	1702.11	-2325.28	-1469.57	1733745.58	14521955.64	39°59'11.0408"N	80°40'0.5143"W	2750.74	212.293	0.48
8789.00	89.820	160.890	6374.97	1799.10	-2416.44	-1436.42	1733778.72	14521864.52	39°59'10.1388"N	80°40'0.0927"W	2811.13	210.729	1.81
8885.00	89.940	159.390	6375.17	1895.10	-2506.72	-1403.80	1733811.32	14521774.27	39°59'9.2453"N	80°39'59.6781"W	2873.04	209.249	1.57
8982.00	90.580	159.660	6374.73	1992.02	-2597.59	-1369.87	1733845.23	14521683.43	39°59'8.3461"N	80°39'59.2466"W	2936.67	207.805	0.72
9079.00	91.230	157.960	6373.20	2089.08	-2688.02	-1334.82	1733880.27	14521593.04	39°59'7.4512"N	80°39'58.8006"W	3001.20	206.408	1.88
9175.00	89.170	159.530	6372.87	2184.97	-2777.48	-1300.02	1733915.06	14521503.62	39°59'6.5658"N	80°39'58.3578"W	3066.67	205.082	2.70
9272.00	89.260	159.740	6374.19	2281.95	-2868.41	-1266.27	1733948.80	14521412.72	39°59'5.6660"N	80°39'57.9280"W	3135.49	203.819	0.94
9368.00	89.720	160.090	6375.05	2377.94	-2958.57	-1233.30	1733981.75	14521322.60	39°59'4.7738"N	80°39'57.5094"W	3205.33	202.629	0.60
9465.00	89.720	159.680	6375.52	2474.93	-3049.65	-1199.94	1734015.10	14521231.55	39°59'3.8725"N	80°39'57.0853"W	3277.23	201.478	0.42
9561.00	89.540	160.130	6376.14	2570.92	-3139.80	-1166.96	1734048.07	14521141.43	39°59'2.9803"N	80°39'56.6659"W	3349.65	200.388	0.50
9658.00	89.750	160.210	6376.74	2667.92	-3231.05	-1134.05	1734080.96	14521050.22	39°59'2.1872"N	80°39'56.2476"W	3424.29	199.340	0.23
9754.00	90.310	160.670	6376.69	2763.92	-3321.51	-1101.91	1734113.63	14520959.80	39°59'1.0724"N	80°39'55.8390"W	3499.52	198.353	0.75
9851.00	91.690	161.350	6375.00	2860.90	-3413.21	-1070.36	1734144.63	14520868.13	39°59'0.2748"N	80°39'55.4380"W	3577.11	197.411	1.59
9948.00	90.980	160.700	6372.40	2957.86	-3504.92	-1038.83	1734176.15	14520776.47	39°58'59.3674"N	80°39'55.0374"W	3655.63	196.509	0.99
10044.00	90.620	160.290	6371.40	3053.85	-3595.40	-1006.77	1734208.19	14520686.02	39°58'58.4721"N	80°39'54.6300"W	3733.70	195.643	0.57
10140.00	90.030	160.340	6370.86	3149.85	-3685.79	-974.44	1734240.51	14520595.67	39°58'57.5776"N	80°39'54.2190"W	3812.42	194.809	0.62
10237.00	90.340	159.900	6370.54	3246.85	-3777.01	-941.45	1734273.49	14520504.48	39°58'56.6749"N	80°39'53.7997"W	3892.57	193.996	0.55





Southwestern Energy®

# Actual Wellpath Report

David Reinbeau MSH 406H awp Proj: 25709'

Page 6 of 12

RECEIVED  
Office of Oil and Gas

APR 05 2024

WV Department of  
Environmental Protection



06/14/2024

## REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	David Reinbeau MSH 406H
Field	Marshall	API	47051024990000
Facility	David Reinbeau MSH Pad	Wellbore	David Reinbeau MSH 406H AWB
Slot	406H		

## WELLPATH DATA (280 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]
10333.00	89.970	160.740	6370.28	3342.85	-3867.40	-909.12	1734305.80	14520414.13	39°58'55.7805"N	80°39'53.3887"W	3972.82	193.229	0.96
10430.00	89.940	159.900	6370.36	3439.85	-3958.73	-876.46	1734338.46	14520322.83	39°58'54.8767"N	80°39'52.9735"W	4054.59	192.484	0.87
10526.00	89.940	160.340	6370.46	3535.84	-4049.01	-843.81	1734371.09	14520232.59	39°58'53.9933"N	80°39'52.5585"W	4136.00	191.772	0.46
10623.00	89.940	160.260	6370.56	3632.84	-4140.33	-811.12	1734403.77	14520141.30	39°58'53.0796"N	80°39'52.1429"W	4219.03	191.084	0.08
10719.00	88.890	160.680	6371.54	3728.84	-4230.80	-779.02	1734435.85	14520050.87	39°58'51.2744"N	80°39'51.7350"W	4301.93	190.433	1.18
10816.00	88.430	160.670	6373.81	3825.81	-4322.31	-746.93	1734467.93	14519959.39	39°58'51.8248"N	80°39'51.3272"W	4386.38	189.804	0.47
10912.00	88.400	160.580	6376.47	3921.77	-4412.84	-715.10	1734499.75	14519868.90	39°58'50.3830"N	80°39'50.9226"W	4470.41	189.205	0.10
11009.00	88.340	160.600	6379.22	4018.73	-4504.29	-682.88	1734531.96	14519777.48	39°58'49.4781"N	80°39'50.5131"W	4556.76	188.621	0.07
11106.00	88.030	160.970	6382.30	4115.68	-4595.84	-650.97	1734563.86	14519685.97	39°58'48.5722"N	80°39'50.1077"W	4641.71	188.062	0.50
11203.00	87.810	160.750	6385.82	4212.62	-4687.42	-619.18	1734595.63	14519594.43	39°58'47.6660"N	80°39'49.7038"W	4728.14	187.525	0.32
11299.00	87.970	160.610	6389.35	4308.55	-4777.95	-587.44	1734627.36	14519503.93	39°58'46.7702"N	80°39'49.3005"W	4813.93	187.009	0.22
11396.00	89.010	160.210	6391.91	4405.52	-4869.30	-554.93	1734659.85	14519412.62	39°58'45.8662"N	80°39'48.8873"W	4900.82	186.502	1.15
11492.00	89.420	160.940	6393.22	4501.51	-4959.83	-523.01	1734691.76	14519322.12	39°58'44.9704"N	80°39'48.4816"W	4987.33	186.020	0.87
11589.00	89.260	160.920	6394.34	4598.50	-5051.50	-491.32	1734723.44	14519230.49	39°58'44.0633"N	80°39'48.0789"W	5075.34	185.555	0.17
11685.00	89.480	160.640	6395.40	4694.49	-5142.14	-459.72	1734755.03	14519139.88	39°58'43.1663"N	80°39'47.6774"W	5162.65	185.109	0.37
11782.00	89.880	161.850	6395.94	4791.48	-5233.99	-428.53	1734786.21	14519048.07	39°58'42.2575"N	80°39'47.2813"W	5251.50	184.681	1.31
11975.00	89.450	160.450	6397.07	4984.46	-5416.63	-366.18	1734848.53	14518865.50	39°58'40.4503"N	80°39'46.4892"W	5428.99	183.867	0.76
12071.00	88.860	160.270	6398.48	5080.45	-5507.03	-333.92	1734880.78	14518775.13	39°58'39.5557"N	80°39'46.0791"W	5517.15	183.470	0.64
12168.00	89.170	160.940	6400.15	5177.43	-5598.52	-301.71	1734912.98	14518683.69	39°58'38.6504"N	80°39'45.6699"W	5606.64	183.085	0.76
12265.00	89.330	160.430	6401.79	5274.42	-5690.04	-269.65	1734945.05	14518592.20	39°58'37.7447"N	80°39'45.2622"W	5696.45	182.713	0.60
12361.00	88.980	159.840	6403.58	5370.40	-5780.31	-237.01	1734977.65	14518501.96	39°58'36.8514"N	80°39'44.8477"W	5785.17	182.348	0.62
12458.00	90.030	159.050	6404.41	5467.37	-5871.13	-202.96	1735011.69	14518411.18	39°58'35.9526"N	80°39'44.4147"W	5874.64	181.980	1.35
12554.00	90.400	161.780	6404.05	5563.36	-5961.57	-170.78	1735043.85	14518320.78	39°58'35.0577"N	80°39'44.0057"W	5964.01	181.641	2.87
12651.00	90.920	159.400	6402.94	5660.34	-6053.04	-138.55	1735076.07	14518229.34	39°58'34.1525"N	80°39'43.5962"W	6054.63	181.311	2.51
12747.00	89.820	161.030	6402.32	5756.35	-6143.37	-106.06	1735108.55	14518139.05	39°58'33.2687"N	80°39'43.1832"W	6144.29	180.989	2.05
12843.00	89.260	159.440	6403.09	5852.33	-6233.71	-73.60	1735141.00	14518048.74	39°58'32.3847"N	80°39'42.7706"W	6234.14	180.676	1.76
12940.00	91.080	163.180	6402.80	5949.30	-6325.57	-42.52	1735172.07	14517956.92	39°58'31.4557"N	80°39'42.3759"W	6325.72	180.385	4.29
13036.00	90.460	160.290	6401.51	6045.26	-6416.72	-12.44	1735202.14	14517865.81	39°58'30.5539"N	80°39'41.9940"W	6416.73	180.111	3.08
13133.00	89.850	160.180	6401.25	6142.26	-6508.00	20.36	1735234.92	14517774.56	39°58'29.6506"N	80°39'41.5771"W	6508.03	179.821	0.64
13230.00	89.910	160.700	6401.45	6239.26	-6599.40	52.84	1735267.39	14517683.19	39°58'28.7461"N	80°39'41.1644"W	6599.62	179.541	0.54





Southwestern Energy®

# Actual Wellpath Report

David Reinbeau MSH 406H awp Proj: 25709'

Page 7 of 12

RECEIVED  
Office of Oil and Gas

APR 05 2024

WV Department of  
Environmental Protection



06/14/2024

## REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	David Reinbeau MSH 406H
Field	Marshall	API	47051024990000
Facility	David Reinbeau MSH Pad	Wellbore	David Reinbeau MSH 406H AWB
Slot	406H		

## WELLPATH DATA (280 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]
13326.00	89.910	160.480	6401.60	6335.26	-6689.95	84.74	1735299.28	14517592.68	39°58'27.8501"N	80°39'40.7590"W	6690.48	179.274	0.23
13422.00	89.850	160.580	6401.80	6431.26	-6780.46	116.74	1735331.26	14517502.21	39°58'26.9544"N	80°39'40.3525"W	6781.46	179.014	0.12
13519.00	89.630	161.060	6402.24	6528.26	-6872.07	148.61	1735393.62	14517410.63	39°58'26.0479"N	80°39'39.9476"W	6873.68	178.761	0.54
13615.00	89.690	160.610	6402.81	6624.25	-6962.75	180.12	1735594.12	14517319.99	39°58'25.1506"N	80°39'39.5472"W	6965.08	178.518	0.47
13712.00	89.660	160.250	6403.36	6721.25	-7054.14	212.61	17355427.10	14517228.63	39°58'24.2462"N	80°39'39.1344"W	7057.35	178.274	0.37
13808.00	89.600	160.750	6403.98	6817.25	-7144.64	244.66	1735459.13	14517138.17	39°58'23.3507"N	80°39'38.7272"W	7148.82	178.039	0.52
13905.00	89.600	160.570	6404.66	6914.25	-7236.16	276.78	1735491.24	14517046.68	39°58'22.4451"N	80°39'38.3191"W	7241.45	177.810	0.19
14002.00	89.570	160.460	6405.36	7011.24	-7327.60	309.13	1735523.58	14516955.28	39°58'21.5402"N	80°39'37.9079"W	7334.12	177.584	0.12
14098.00	89.600	160.410	6406.06	7107.24	-7418.06	341.28	1735555.72	14516864.86	39°58'20.6451"N	80°39'37.4995"W	7425.90	177.366	0.06
14195.00	89.690	160.250	6406.66	7204.24	-7509.39	373.93	1735588.35	14516773.56	39°58'19.7412"N	80°39'37.0846"W	7518.70	177.149	0.19
14291.00	89.320	160.360	6407.49	7300.23	-7599.78	406.28	1735620.69	14516683.21	39°58'18.8468"N	80°39'36.6734"W	7610.63	176.940	0.40
14388.00	89.290	160.730	6408.66	7397.23	-7691.23	438.59	1735652.99	14516591.79	39°58'17.9418"N	80°39'36.2630"W	7703.73	176.736	0.38
14484.00	89.540	160.980	6409.64	7493.22	-7781.92	470.07	1735684.46	14516501.14	39°58'17.0445"N	80°39'35.8631"W	7796.10	176.543	0.37
14581.00	89.200	160.780	6410.71	7590.21	-7873.56	501.84	1735716.21	14516409.54	39°58'16.1376"N	80°39'35.4595"W	7889.54	176.353	0.41
14677.00	89.320	160.350	6411.95	7686.20	-7964.08	533.78	1735748.14	14516319.05	39°58'15.2418"N	80°39'35.0537"W	7981.95	176.166	0.46
14774.00	89.290	160.730	6413.13	7783.20	-8055.53	566.09	1735780.44	14516227.63	39°58'14.3369"N	80°39'34.6431"W	8075.40	175.980	0.39
14870.00	89.230	160.450	6414.37	7879.19	-8146.07	597.99	1735812.33	14516137.13	39°58'13.4410"N	80°39'34.2378"W	8167.99	175.802	0.30
14967.00	89.230	160.990	6415.67	7976.18	-8237.62	630.02	1735844.34	14516045.62	39°58'12.5350"N	80°39'33.8310"W	8261.68	175.626	0.56
15063.00	89.290	160.910	6416.91	8072.17	-8328.36	661.35	1735875.66	14515954.92	39°58'11.6372"N	80°39'33.4330"W	8354.57	175.460	0.10
15160.00	89.230	160.200	6418.11	8168.16	-8419.94	693.57	1735907.97	14515863.17	39°58'10.7319"N	80°39'33.0237"W	8448.36	175.291	0.64
15257.00	89.420	160.260	6419.20	8266.15	-8511.14	726.30	1735940.59	14515772.20	39°58'9.8283"N	80°39'32.6078"W	8542.08	175.122	0.14
15353.00	89.420	160.930	6420.18	8362.15	-8601.68	758.20	1735972.47	14515681.70	39°58'8.9264"N	80°39'32.2026"W	8635.04	174.963	0.70
15450.00	89.230	159.740	6421.32	8459.14	-8693.02	790.84	1736005.10	14515590.40	39°58'8.0382"N	80°39'31.7878"W	8728.92	174.802	1.24
15546.00	89.260	160.460	6422.58	8555.13	-8783.28	823.51	1736037.76	14515500.17	39°58'7.1354"N	80°39'31.3726"W	8821.80	174.644	0.75
15643.00	89.350	160.020	6423.76	8652.12	-8874.56	856.30	1736070.54	14515408.93	39°58'6.2320"N	80°39'30.9560"W	8915.78	174.489	0.46
15739.00	89.290	160.430	6424.90	8748.11	-8964.89	888.78	1736103.00	14515318.63	39°58'5.3381"N	80°39'30.5433"W	9008.84	174.338	0.43
15836.00	89.260	160.260	6426.13	8845.10	-9056.23	921.40	1736135.61	14515227.32	39°58'4.4342"N	80°39'30.1288"W	9102.98	174.191	0.18
15932.00	89.320	160.680	6427.32	8941.09	-9146.70	953.49	1736167.69	14515136.89	39°58'3.5390"N	80°39'29.7211"W	9196.27	174.049	0.44
16029.00	89.780	160.180	6428.08	9038.09	-9238.10	985.98	1736200.17	14515045.53	39°58'2.6346"N	80°39'29.3083"W	9290.56	173.908	0.70
16126.00	89.780	160.670	6428.45	9135.09	-9329.49	1018.48	1736232.65	14514954.18	39°58'1.7302"N	80°39'28.8954"W	9384.92	173.770	0.51





Southwestern Energy®

# Actual Wellpath Report

David Reinbeau MSH 406H awp Proj: 25709'

Page 8 of 12

RECEIVED  
Office of Oil and Gas

APR 05 2024

WV Department of  
Environmental Protection



06/14/2024

## REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	David Reinbeau MSH 406H
Field	Marshall	API	4705102499000
Facility	David Reinbeau MSH Pad	Wellbore	David Reinbeau MSH 406H AWB
Slot	406H		

## WELLPATH DATA (280 stations)

MID [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]
16222.00	89.780	160.700	6428.82	9231.09	-9420.08	1050.23	1736264.39	14514863.62	39°58'0.8337"N	80°39'28.4920"W	9478.45	173.638	0.03
16319.00	89.940	160.720	6429.06	9328.09	-9511.64	1082.28	1736296.42	14514772.10	39°57'59.9277"N	80°39'28.0850"W	9573.01	173.509	0.17
16415.00	89.720	160.700	6429.34	9424.09	-9602.25	1113.99	1736328.12	14514681.52	39°57'59.0310"N	80°39'27.6822"W	9666.65	173.382	0.23
16512.00	89.690	160.210	6429.84	9521.09	-9693.66	1146.44	1736360.56	14514590.15	39°57'58.1265"N	80°39'27.2699"W	9761.22	173.255	0.51
16608.00	89.850	160.260	6430.23	9617.08	-9784.00	1178.90	1736393.01	14514499.84	39°57'57.2324"N	80°39'26.8574"W	9854.77	173.129	0.17
16705.00	89.660	159.910	6430.64	9714.08	-9875.20	1211.94	1736428.97	14514408.68	39°57'56.3299"N	80°39'26.4376"W	9949.29	173.003	0.41
16801.00	89.630	159.980	6431.24	9810.07	-9965.37	1244.89	1736458.04	14514318.55	39°57'55.4376"N	80°39'26.0189"W	10042.82	172.879	0.05
16898.00	89.660	159.980	6431.84	9907.07	-10056.50	1278.12	1736492.19	14514227.45	39°57'54.5358"N	80°39'25.5966"W	10137.39	172.757	0.04
16994.00	89.880	160.820	6432.22	10003.06	-10146.93	1310.32	1736524.38	14514137.05	39°57'53.6409"N	80°39'25.1875"W	10231.19	172.642	0.90
17091.00	89.720	159.650	6432.56	10100.06	-10238.22	1343.12	1736557.17	14514045.81	39°57'52.7375"N	80°39'24.7708"W	10325.94	172.526	1.22
17188.00	89.720	160.270	6433.03	10197.05	-10329.34	1376.36	1736590.39	14513954.72	39°57'51.8357"N	80°39'24.3484"W	10420.64	172.410	0.64
17284.00	89.630	159.870	6433.58	10293.05	-10419.59	1409.09	1736623.10	14513864.50	39°57'50.9426"N	80°39'23.9326"W	10514.44	172.298	0.43
17381.00	89.110	160.020	6434.65	10390.04	-10510.70	1442.35	1736656.35	14513773.42	39°57'50.0409"N	80°39'23.5099"W	10609.20	172.186	0.56
17477.00	89.140	160.420	6436.11	10486.03	-10601.03	1474.83	1736688.82	14513683.14	39°57'49.1471"N	80°39'23.0972"W	10703.13	172.080	0.42
17574.00	89.290	161.950	6437.44	10583.91	-10692.83	1506.11	1736720.09	14513591.37	39°57'48.2386"N	80°39'22.7000"W	10798.38	171.983	1.58
17670.00	89.260	161.430	6438.66	10678.98	-10783.96	1536.27	1736750.23	14513500.27	39°57'47.3369"N	80°39'22.3173"W	10892.84	171.892	0.54
17767.00	89.230	161.340	6439.93	10775.96	-10875.88	1567.23	1736781.18	14513408.39	39°57'46.4274"N	80°39'21.9242"W	10988.22	171.800	0.10
17864.00	89.110	161.390	6441.34	10872.94	-10967.79	1598.22	1736812.16	14513316.52	39°57'45.5180"N	80°39'21.5307"W	11083.62	171.709	0.13
17960.00	89.170	160.850	6442.78	10968.92	-11058.61	1629.28	1736843.21	14513225.73	39°57'44.6192"N	80°39'21.1363"W	11177.99	171.619	0.57
18057.00	89.260	161.610	6444.11	11065.91	-11150.44	1660.49	1736874.41	14513133.93	39°57'43.7105"N	80°39'20.7401"W	11273.40	171.530	0.79
18154.00	89.170	161.550	6445.44	11162.88	-11242.47	1691.14	1736905.04	14513041.95	39°57'42.8000"N	80°39'20.3511"W	11368.95	171.445	0.11
18250.00	89.200	160.490	6446.80	11258.86	-11333.24	1722.35	1736936.25	14512951.21	39°57'41.9017"N	80°39'19.9546"W	11463.36	171.359	1.10
18346.00	89.450	161.860	6447.93	11354.85	-11424.09	1753.33	1736967.21	14512860.39	39°57'41.0027"N	80°39'19.5614"W	11557.86	171.275	1.45
18443.00	89.380	161.880	6448.92	11451.82	-11516.27	1783.51	1736997.38	14512769.25	39°57'40.0906"N	80°39'19.1783"W	11653.56	171.197	0.08
18539.00	89.290	161.600	6450.04	11547.79	-11607.43	1813.59	1737027.45	14512677.13	39°57'39.1886"N	80°39'18.7966"W	11748.26	171.120	0.31
18636.00	89.450	161.310	6451.11	11644.77	-11699.39	1844.44	1737058.28	14512586.20	39°57'38.2787"N	80°39'18.4050"W	11843.89	171.041	0.34
18733.00	89.380	161.440	6452.10	11741.75	-11791.30	1875.42	1737089.25	14512493.33	39°57'37.3691"N	80°39'18.0177"W	11939.52	170.963	0.15
18829.00	89.290	161.060	6453.21	11837.74	-11882.20	1906.27	1737120.09	14512402.46	39°57'36.4697"N	80°39'17.6200"W	12034.14	170.886	0.41
18926.00	89.350	161.350	6454.36	11934.73	-11974.02	1937.52	1737151.33	14512310.68	39°57'35.5611"N	80°39'17.2232"W	12129.77	170.809	0.31
19023.00	89.690	161.690	6455.17	12031.71	-12066.02	1968.27	1737182.06	14512218.72	39°57'34.6508"N	80°39'16.8330"W	12225.50	170.735	0.50





# Actual Wellpath Report

David Reinbeau MSH 406H awp Proj: 25709'  
Page 9 of 12

RECEIVED  
Office of Oil and Gas  
APR 05 2024  
WV Department of  
Environmental Protection



06/14/2024

## REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	David Reinbeau MSH 406H
Field	Marshall	API	47051024990000
Facility	David Reinbeau MSH Pad	Wellbore	David Reinbeau MSH 406H AWB
Slot	406H		

## WELLPATH DATA (280 stations)

MID [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]
19119.00	89.780	161.140	6455.62	12127.69	-12157.01	1998.86	1737212.65	14512127.76	39°57'33.7504"N	80°39'16.4446"W	12320.24	170.663	0.58
19216.00	89.850	161.460	6455.93	12224.69	-12248.89	2029.96	1737243.74	14512035.92	39°57'32.8412"N	80°39'16.0498"W	12415.96	170.590	0.34
19313.00	89.780	160.860	6456.24	12321.68	-12340.69	2061.28	1737275.05	14511944.15	39°57'31.9328"N	80°39'15.6521"W	12511.66	170.517	0.62
19409.00	89.910	161.200	6456.50	12417.67	-12431.48	2092.49	1737306.24	14511853.40	39°57'31.0344"N	80°39'15.2559"W	12606.35	170.445	0.38
19506.00	89.790	161.480	6456.77	12514.66	-12533.38	2123.53	1737337.26	14511761.54	39°57'30.1250"N	80°39'14.8619"W	12702.14	170.376	0.32
19603.00	89.660	161.000	6457.24	12611.65	-12615.22	2154.72	1737368.45	14511669.73	39°57'29.2162"N	80°39'14.4659"W	12797.92	170.307	0.51
19699.00	89.690	159.750	6457.78	12707.65	-12705.64	2186.96	1737400.68	14511579.34	39°57'28.3214"N	80°39'14.0563"W	12892.49	170.234	1.30
19796.00	89.850	161.790	6458.17	12804.64	-12797.23	2218.91	1737432.61	14511487.80	39°57'27.4151"N	80°39'13.6507"W	12988.17	170.163	2.11
19893.00	90.000	161.990	6458.30	12901.62	-12889.42	2249.06	1737462.75	14511395.64	39°57'26.5029"N	80°39'13.2681"W	13084.17	170.102	0.26
19989.00	89.880	161.280	6458.40	12997.60	-12980.53	2279.31	1737492.98	14511304.56	39°57'25.6014"N	80°39'12.8842"W	13179.13	170.041	0.75
20086.00	89.780	161.290	6458.69	13094.59	-13072.40	2310.43	1737524.10	14511212.73	39°57'24.6923"N	80°39'12.4891"W	13275.01	169.977	0.10
20182.00	89.880	161.290	6458.97	13190.58	-13163.33	2341.23	1737554.88	14511121.84	39°57'23.7925"N	80°39'12.0982"W	13369.91	169.915	0.10
20279.00	89.820	161.660	6459.23	13287.56	-13255.30	2372.04	1737585.68	14511029.90	39°57'22.8824"N	80°39'11.7070"W	13465.87	169.854	0.39
20376.00	89.720	161.730	6459.62	13384.54	-13347.39	2402.51	1737616.14	14510937.85	39°57'21.9712"N	80°39'11.3204"W	13561.89	169.796	0.13
20472.00	89.820	160.300	6460.00	13480.54	-13438.17	2433.74	1737647.36	14510847.11	39°57'21.0729"N	80°39'10.9239"W	13656.77	169.735	1.49
20569.00	89.880	160.370	6460.26	13577.54	-13529.51	2466.38	1737679.98	14510755.80	39°57'20.1690"N	80°39'10.5093"W	13752.48	169.669	0.10
20665.00	89.750	160.510	6460.57	13673.54	-13619.97	2498.52	1737712.11	14510665.38	39°57'19.2738"N	80°39'10.1011"W	13847.24	169.605	0.20
20762.00	89.750	160.070	6460.99	13770.53	-13711.28	2531.23	1737744.81	14510574.10	39°57'18.3701"N	80°39'9.6856"W	13942.97	169.540	0.45
20859.00	89.850	160.320	6461.33	13867.53	-13802.55	2564.10	1737777.67	14510482.87	39°57'17.4670"N	80°39'9.2681"W	14038.69	169.476	0.28
20956.00	89.630	160.250	6461.69	13963.53	-13892.92	2596.46	1737810.04	14510392.52	39°57'16.5737"N	80°39'8.8568"W	14133.47	169.414	0.24
21052.00	89.780	160.730	6462.26	14060.53	-13984.35	2628.88	1737842.42	14510301.14	39°57'15.6679"N	80°39'8.4454"W	14229.30	169.353	0.52
21148.00	89.780	160.210	6462.63	14156.53	-14074.82	2660.97	1737874.50	14510210.70	39°57'14.7759"N	80°39'8.0378"W	14324.15	169.294	0.54
21245.00	89.750	160.860	6463.03	14253.53	-14166.28	2693.29	1737906.81	14510119.28	39°57'13.8675"N	80°39'7.6274"W	14420.03	169.235	0.67
21341.00	90.000	160.580	6463.24	14349.52	-14256.89	2724.99	1737938.48	14510028.70	39°57'12.9708"N	80°39'7.2249"W	14514.98	169.179	0.39
21437.00	89.720	160.480	6463.47	14445.52	-14347.83	2756.99	1737970.49	14509938.23	39°57'12.0751"N	80°39'6.8185"W	14609.89	169.123	0.31
21534.00	89.820	160.480	6463.86	14542.52	-14438.40	2789.40	1738002.88	14509846.84	39°57'11.1704"N	80°39'6.4069"W	14705.80	169.066	0.10
21630.00	89.780	160.790	6464.20	14638.52	-14529.40	2821.23	1738034.70	14509756.31	39°57'10.2741"N	80°39'6.0027"W	14800.77	169.011	0.33
21727.00	89.540	160.260	6464.77	14735.52	-14620.84	2853.57	1738067.02	14509664.89	39°57'9.3692"N	80°39'5.5921"W	14886.71	168.956	0.60
21824.00	89.420	160.190	6465.65	14832.51	-14712.12	2886.39	1738099.83	14509573.65	39°57'8.4659"N	80°39'5.1752"W	14992.59	168.900	0.14
21920.00	89.480	160.810	6466.58	14928.51	-14802.61	2918.43	1738131.86	14509483.20	39°57'7.5704"N	80°39'4.7683"W	15087.56	168.847	0.65





# Actual Wellpath Report

David Reinbeau MSH 406H awp Proj: 25709

Page 10 of 12

RECEIVED  
Office of Oil and Gas

APR 05 2024

WV Department of  
Environmental Protection



06/14/2024

## REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	David Reinbeau MSH 406H
Field	Marshall	API	4705102499000
Facility	David Reinbeau MSH Pad	Wellbore	David Reinbeau MSH 406H AWB
Slot	406H		

## WELLPATH DATA (280 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]
22016.00	89.720	160.260	6467.25	15024.51	-14893.12	2950.42	1738163.84	14509392.72	39°57'6.6747"N	80°39'4.3621"W	15182.56	168.794	0.63
22113.00	89.480	160.640	6467.92	15121.50	-14984.52	2982.88	1738196.28	14509301.35	39°57'5.7701"N	80°39'3.9499"W	15278.53	168.742	0.46
22210.00	89.600	160.810	6468.70	15218.50	-15076.08	3014.90	1738228.28	14509209.83	39°57'4.8641"N	80°39'3.5434"W	15374.59	168.691	0.21
22307.00	89.690	160.880	6469.30	15315.50	-15167.71	3046.73	1738260.10	14509118.24	39°57'3.9574"N	80°39'3.1393"W	15470.68	168.642	0.12
22403.00	89.540	160.640	6469.95	15411.49	-15258.35	3078.36	1738291.72	14509027.64	39°57'3.0604"N	80°39'2.7377"W	15565.78	168.594	0.29
22500.00	89.260	160.370	6470.96	15508.49	-15349.71	3110.94	1738324.30	14508936.32	39°57'2.1564"N	80°39'2.3239"W	15661.78	168.543	0.63
22596.00	89.780	160.300	6471.77	15604.48	-15440.05	3143.41	1738356.75	14508846.01	39°57'1.2623"N	80°39'1.9116"W	15756.78	168.493	0.61
22693.00	89.970	160.350	6471.98	15701.48	-15531.40	3176.01	1738389.34	14508754.69	39°57'0.3583"N	80°39'1.4976"W	15852.81	168.443	0.20
22789.00	89.780	160.600	6472.19	15797.48	-15621.88	3208.09	1738421.41	14508664.25	39°56'59.4629"N	80°39'1.0901"W	15947.89	168.395	0.33
22886.00	89.660	160.250	6472.66	15894.48	-15713.27	3240.59	1738453.89	14508572.89	39°56'58.5584"N	80°39'0.6774"W	16043.95	168.347	0.38
22982.00	89.720	160.410	6473.18	15990.48	-15803.67	3272.91	1738486.19	14508482.53	39°56'57.6639"N	80°39'0.2671"W	16139.02	168.300	0.18
23079.00	89.660	159.910	6473.71	16087.47	-15894.91	3305.83	1738519.10	14508391.32	39°56'56.7609"N	80°38'59.8490"W	16235.05	168.251	0.52
23176.00	89.820	160.070	6474.15	16184.47	-15986.06	3339.02	1738552.28	14508300.22	39°56'55.8589"N	80°38'59.4274"W	16331.04	168.202	0.23
23272.00	89.910	160.340	6474.37	16280.47	-16076.38	3371.53	1738584.78	14508209.92	39°56'54.9650"N	80°38'59.0145"W	16426.12	168.156	0.30
23369.00	89.880	160.320	6474.55	16377.47	-16167.72	3404.18	1738617.42	14508118.62	39°56'54.0611"N	80°38'58.5999"W	16522.22	168.110	0.04
23465.00	89.880	160.740	6474.75	16473.47	-16258.23	3436.18	1738649.40	14508028.15	39°56'53.1654"N	80°38'58.1936"W	16617.38	168.066	0.44
23562.00	89.600	160.720	6475.19	16570.46	-16349.80	3468.19	1738681.40	14507936.62	39°56'52.2593"N	80°38'57.7872"W	16713.59	168.024	0.29
23658.00	89.750	160.190	6475.74	16666.46	-16440.26	3500.30	1738713.50	14507846.19	39°56'51.3640"N	80°38'57.3794"W	16808.76	167.981	0.57
23755.00	89.910	160.620	6476.03	16763.46	-16531.64	3532.84	1738746.02	14507754.84	39°56'50.4597"N	80°38'56.9663"W	16904.92	167.937	0.47
23851.00	89.750	160.380	6476.31	16859.46	-16622.14	3564.66	1738776.02	14507664.32	39°56'49.5642"N	80°38'56.5666"W	17000.11	167.895	0.30
23947.00	89.750	160.480	6476.73	16955.46	-16712.59	3597.04	1738810.20	14507573.97	39°56'48.6690"N	80°38'56.1512"W	17095.50	167.854	0.10
24043.00	89.820	160.400	6477.09	17051.46	-16803.05	3629.18	1738842.32	14507483.54	39°56'47.7738"N	80°38'55.7431"W	17190.50	167.812	0.11
24140.00	89.940	160.430	6477.29	17148.46	-16894.44	3661.69	1738874.83	14507392.19	39°56'46.8694"N	80°38'55.3302"W	17286.70	167.771	0.13
24237.00	89.600	159.630	6477.68	17245.45	-16985.60	3694.82	1738907.94	14507301.06	39°56'45.9672"N	80°38'54.9095"W	17382.82	167.728	0.90
24333.00	89.720	159.400	6478.25	17343.44	-17075.53	3728.41	1738941.52	14507211.17	39°56'45.0722"N	80°38'54.4827"W	17477.84	167.683	0.27
24429.00	89.820	160.420	6478.64	17437.43	-17165.69	3761.39	1738974.49	14507121.04	39°56'44.1850"N	80°38'54.0639"W	17572.96	167.641	1.07
24526.00	89.910	160.740	6478.87	17534.43	-17257.17	3793.64	1739006.72	14507029.60	39°56'43.2797"N	80°38'53.6544"W	17669.23	167.602	0.34
24622.00	89.750	160.180	6479.15	17630.43	-17347.64	3825.75	1739038.82	14506939.16	39°56'42.3844"N	80°38'53.2467"W	17764.49	167.563	0.61
24719.00	89.750	160.440	6479.57	17727.43	-17438.97	3858.43	1739071.49	14506847.87	39°56'41.4806"N	80°38'52.8318"W	17860.71	167.524	0.27
24816.00	89.820	160.710	6479.94	17824.43	-17530.45	3890.69	1739103.74	14506756.43	39°56'40.5753"N	80°38'52.4222"W	17957.00	167.487	0.29



RECEIVED  
Office of Oil and Gas

APR 05 2024

WV Department of  
Environmental Protection

### REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	David Reinbeau MSH 406H
Field	Marshall	API	4705102499000
Facility	David Reinbeau MSH Pad	Wellbore	David Reinbeau MSH 406H AWB
Slot	406H		

### WELLPATH DATA (280 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]
24912.00	89.880	160.700	6480.19	17920.43	-17621.05	3922.41	1739135.45	14506665.86	39°56'39.6786"N	80°38'52.0195"W	18052.34	167.451	0.06
25009.00	89.720	160.380	6480.53	18017.42	-17712.51	3954.73	1739167.75	14506574.44	39°56'38.7736"N	80°38'51.6093"W	18148.63	167.414	0.37
25105.00	89.690	160.230	6481.02	18113.42	-17802.89	3987.08	1739200.09	14506484.09	39°56'37.8791"N	80°38'51.1985"W	18243.90	167.377	0.16
25202.00	89.880	160.470	6481.39	18210.42	-17894.24	4019.70	1739232.69	14506392.78	39°56'36.9751"N	80°38'50.7843"W	18340.17	167.339	0.32
25298.00	89.850	160.500	6481.61	18306.42	-17984.73	4051.77	1739264.75	14506302.33	39°56'36.0796"N	80°38'50.3772"W	18435.49	167.304	0.04
25395.00	89.970	160.560	6481.76	18403.42	-18076.18	4084.10	1739297.07	14506210.91	39°56'35.1746"N	80°38'49.9667"W	18531.82	167.268	0.14
25491.00	89.750	160.600	6482.00	18499.42	-18166.72	4116.02	1739328.97	14506120.41	39°56'34.2786"N	80°38'49.5615"W	18627.17	167.234	0.23
25588.00	89.630	160.010	6482.52	18596.42	-18258.04	4148.71	1739361.65	14506029.12	39°56'33.3748"N	80°38'49.1464"W	18723.46	167.198	0.62
25684.00	89.720	159.790	6483.07	18692.41	-18348.20	4181.70	1739394.63	14505939.00	39°56'32.4826"N	80°38'48.7275"W	18818.68	167.161	0.25
25709.00#	89.720	159.790	6483.19	18717.41	-18371.66	4190.33	1739403.26	14505915.55	39°56'32.2505"N	80°38'48.6178"W	18843.48	167.151	0.00

### HOLE & CASING SECTIONS - Ref Wellbore: David Reinbeau MSH 406H AWB Ref Wellpath: David Reinbeau MSH 406H awp Proj: 25709'

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	497.00	471.00	26.00	497.00	0.00	0.00	-0.52	-0.23
9.625in Casing	26.00	2032.00	2006.00	26.00	2024.69	0.00	0.00	51.26	-107.99
5.5in Casing	26.00	25709.00	25683.00	26.00	6483.19	0.00	0.00	-18371.66	4190.33



RECEIVED  
Office of Oil and Gas  
APR 05 2024  
WV Department of  
Environmental Protection

### REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	David Reinbeau MSH 406H
Field	Marshall	API	47051024990000
Facility	David Reinbeau MSH Pad	Wellbore	David Reinbeau MSH 406H AWB
Slot	406H		

### TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
David Reinbeau MSH 406H LP rev3	6368.00	-954.74	-1965.98	1733249.36	14523325.64	39°59'24.6032"N	80°40'6.8262"W	point
David Reinbeau MSH 406H BHL rev 1	6477.70	-18370.52	4195.46	1739408.39	14505916.69	39°56'32.2615"N	80°38'48.5519"W	point

### WELLPATH COMPOSITION - Ref Wellbore: David Reinbeau MSH 406H AWB Ref Wellpath: David Reinbeau MSH 406H awp Proj: 25709'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
26.00	677.00	Gyrodاتا 2015 - GC+WIR+DPIPE	1 Imported Gyrodاتا 17.5' 50' - 677'	David Reinbeau MSH 406H AWB	8/19/2023
677.00	2032.00	BH Unknown Tool (Standard)	2 Tally MWD HRGM 12.25' 786' - 2032'	David Reinbeau MSH 406H AWB	8/19/2023
2032.00	5890.00	OWSG MWD rev2 + HRGM	3 Tally MWD HRGM 8.75' 5160' - 5890'	David Reinbeau MSH 406H AWB	8/19/2023
5890.00	25709.00	BH AutoTrak Curve/Express (2019) (HRGM, Short spacing)	4 BH MWD HRGM 8.5' 5986' - 25684'	David Reinbeau MSH 406H AWB	8/19/2023