

REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Mike Ryniawec BRK 206H
Field	Brooke	API	47009003300000
Facility	Mike Ryniawec BRK Pad	Wellbore	Mike Ryniawec BRK 206H AWB
Slot	206H		

REPORT SETUP INFORMATION

Projection System	NAD83 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Tranlam
Scale	0.999614	Report Generated	4/12/2023 at 10:22:01 AM
Convergence at slot	0.25° 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	-22.58	-8.12	1749518.33	14596390.74	40°11'26.2680"N	80°36'33.6027"W
Facility Reference Pt			1749526.45	14596413.31	40°11'26.4908"N	80°36'33.4967"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.4780"W

WELLPATH DATUM

Calculation method	Minimum curvature	Patterson 571 (KB) to Facility Vertical Datum	1172.70ft
Horizontal Reference Pt	Slot	Patterson 571 (KB) to Mean Sea Level	1172.70ft
Vertical Reference Pt	Patterson 571 (KB)	Patterson 571 (KB) to Ground Level at Slot (206H)	25.00ft
MD Reference Pt	Patterson 571 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	157.24°

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Office of Oil and Gas
AUG 16 2023
Department of
Environmental Protection



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WELLPATH DATA (214 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	241.780	0.00	0.00	0.00	0.00	1749518.33	14596390.74	40°11'26.2680"N	80°36'33.6027"W	0.00	0.000	0.00	
25.00	0.000	241.780	25.00	0.00	0.00	0.00	1749518.33	14596390.74	40°11'26.2680"N	80°36'33.6027"W	0.00	0.000	0.00	
144.00	0.410	241.780	144.00	0.04	-0.20	-0.38	1749517.95	14596390.54	40°11'26.2660"N	80°36'33.6075"W	0.43	241.780	0.34	
236.00	0.140	154.520	236.00	0.18	-0.46	-0.62	1749517.71	14596390.28	40°11'26.2635"N	80°36'33.6106"W	0.77	233.380	0.46	
327.00	0.210	254.650	327.00	0.27	-0.60	-0.73	1749517.60	14596390.14	40°11'26.2621"N	80°36'33.6121"W	0.95	230.438	0.30	
410.00	0.460	292.520	410.00	0.02	-0.52	-1.18	1749517.15	14596390.22	40°11'26.2630"N	80°36'33.6179"W	1.29	246.473	0.39	
434.00	0.700	278.750	434.00	-0.13	-0.46	-1.42	1749516.91	14596390.28	40°11'26.2636"N	80°36'33.6210"W	1.49	252.160	1.15	
528.00	0.650	312.800	527.99	-0.91	-0.01	-2.38	1749515.95	14596390.73	40°11'26.2680"N	80°36'33.6333"W	2.38	269.836	0.42	
622.00	1.480	285.920	621.97	-2.16	0.69	-3.94	1749514.40	14596391.43	40°11'26.2750"N	80°36'33.6533"W	4.00	279.923	1.01	
717.00	3.390	279.940	716.88	-4.44	1.51	-7.88	1749510.45	14596392.25	40°11'26.2833"N	80°36'33.7041"W	8.03	280.844	2.03	
811.00	5.710	278.080	810.58	-8.34	2.65	-15.25	1749503.09	14596393.39	40°11'26.2948"N	80°36'33.7990"W	15.48	279.847	2.47	
906.00	7.820	282.820	904.91	-14.52	4.75	-26.23	1749492.11	14596395.48	40°11'26.3160"N	80°36'33.9404"W	26.66	280.254	2.30	
1001.00	9.040	281.210	998.89	-22.46	7.63	-39.86	1749478.49	14596398.37	40°11'26.3451"N	80°36'34.1158"W	40.58	280.838	1.31	
1095.00	9.580	277.310	1091.65	-30.50	10.06	-54.86	1749463.49	14596400.80	40°11'26.3698"N	80°36'34.3090"W	55.77	280.393	0.88	
1189.00	11.640	277.550	1184.04	-39.21	12.30	-72.02	1749446.34	14596403.04	40°11'26.3927"N	80°36'34.5300"W	73.06	279.694	2.19	
1284.00	14.400	277.940	1276.58	-50.08	15.19	-93.22	1749425.14	14596405.93	40°11'26.4222"N	80°36'34.8030"W	94.45	279.257	2.91	
1378.00	16.590	279.110	1367.25	-62.96	18.88	-117.74	1749400.63	14596409.62	40°11'26.4597"N	80°36'35.1187"W	119.25	279.112	1.93	
1472.00	17.540	283.050	1457.21	-78.17	24.16	-144.48	1749373.90	14596414.89	40°11'26.5130"N	80°36'35.4630"W	146.49	279.492	1.88	
1566.00	18.890	285.580	1546.50	-95.90	31.44	-172.94	1749345.46	14596422.17	40°11'26.5862"N	80°36'35.8293"W	175.77	280.305	1.66	
1660.00	20.320	285.410	1635.10	-115.33	39.83	-203.18	1749315.22	14596430.55	40°11'26.6704"N	80°36'36.2185"W	207.05	281.090	1.31	
1781.00	21.290	281.170	1728.29	-140.46	49.61	-244.80	1749273.62	14596440.33	40°11'26.7689"N	80°36'36.7542"W	249.78	281.457	1.57	
1875.00	20.830	277.740	1836.02	-158.46	55.16	-278.11	1749240.33	14596445.88	40°11'26.8252"N	80°36'37.1831"W	283.52	281.219	1.41	
1969.00	20.990	278.700	1923.83	-175.72	59.95	-311.31	1749207.14	14596450.67	40°11'26.8739"N	80°36'37.6106"W	317.03	280.900	0.41	
2063.00	20.980	279.800	2011.59	-193.56	65.36	-344.54	1749173.93	14596456.08	40°11'26.9289"N	80°36'38.0384"W	350.68	280.742	0.42	
2157.00	20.510	283.220	2099.50	-212.29	71.99	-377.15	1749141.33	14596462.70	40°11'26.9958"N	80°36'38.4583"W	383.96	280.807	1.38	
2251.00	20.000	283.620	2187.69	-231.50	79.54	-408.80	1749109.68	14596470.25	40°11'27.0718"N	80°36'38.8658"W	416.47	281.011	0.56	
2345.00	20.830	283.870	2275.78	-251.01	87.34	-440.65	1749077.85	14596478.04	40°11'27.1502"N	80°36'39.2757"W	449.22	281.210	0.89	
2440.00	22.100	282.310	2364.19	-271.36	95.19	-474.51	1749044.00	14596485.90	40°11'27.2293"N	80°36'39.7116"W	483.97	281.344	1.47	
2534.00	22.410	284.520	2451.19	-292.37	103.46	-509.14	1749009.39	14596494.16	40°11'27.3124"N	80°36'40.1572"W	519.54	281.486	0.95	
2629.00	22.000	283.830	2539.15	-313.95	112.25	-543.94	1748974.60	14596502.95	40°11'27.4008"N	80°36'40.6053"W	555.41	281.660	0.51	



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Slot	206H		

WELLPATH DATA (214 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
2724.00	21.920	284.360	2627.25	-335.25	120.90	-578.40	1748940.15	14596511.60	40°11'27.4878"N	80°36'41.0488"W	590.90	281.806	0.22	
2818.00	21.640	284.380	2714.54	-356.31	129.56	-612.19	1748906.38	14596520.25	40°11'27.5748"N	80°36'41.4836"W	625.75	281.949	0.30	
2913.00	21.580	283.140	2802.87	-377.13	137.88	-646.17	1748872.41	14596528.57	40°11'27.6585"N	80°36'41.9210"W	660.71	282.045	0.48	
3012.00	21.380	282.980	2894.99	-398.34	146.07	-681.48	1748837.11	14596536.76	40°11'27.7410"N	80°36'42.3756"W	696.96	282.098	0.21	
3106.00	21.790	282.970	2982.40	-418.54	153.84	-715.18	1748803.43	14596544.52	40°11'27.8192"N	80°36'42.8094"W	731.54	282.139	0.44	
3201.00	21.110	281.660	3070.82	-438.51	161.25	-749.12	1748769.50	14596551.93	40°11'27.8939"N	80°36'43.2463"W	766.28	282.148	0.88	
3295.00	20.160	279.870	3158.79	-456.81	167.45	-781.66	1748736.98	14596558.12	40°11'27.9566"N	80°36'43.6652"W	799.39	282.091	1.21	
3390.00	19.200	281.310	3248.24	-474.39	173.32	-813.10	1748705.54	14596563.99	40°11'28.0159"N	80°36'44.0701"W	831.37	282.033	1.13	
3484.00	20.080	280.850	3336.77	-491.98	179.39	-844.11	1748674.55	14596570.06	40°11'28.0773"N	80°36'44.4692"W	862.96	281.998	0.95	
3579.00	19.940	283.020	3426.03	-510.48	186.11	-875.91	1748642.76	14596576.78	40°11'28.1450"N	80°36'44.8786"W	895.46	281.995	0.80	
3674.00	21.710	282.200	3514.83	-530.02	193.47	-908.87	1748609.82	14596584.14	40°11'28.2192"N	80°36'45.3029"W	929.23	282.017	1.89	
3769.00	22.320	279.620	3602.90	-549.75	200.20	-943.83	1748574.87	14596590.86	40°11'28.2872"N	80°36'45.7530"W	964.83	281.976	1.20	
3863.00	21.990	279.210	3689.96	-568.63	206.00	-978.80	1748539.91	14596596.66	40°11'28.3460"N	80°36'46.2033"W	1000.24	281.885	0.39	
3957.00	22.350	281.050	3777.01	-587.89	212.24	-1013.71	1748505.01	14596602.90	40°11'28.4092"N	80°36'46.6528"W	1035.69	281.825	0.83	
4052.00	21.360	281.470	3865.18	-607.67	219.14	-1048.40	1748470.34	14596609.80	40°11'28.4789"N	80°36'47.0994"W	1071.05	281.806	1.06	
4146.00	20.640	282.120	3952.94	-626.78	226.03	-1081.37	1748437.38	14596616.68	40°11'28.5484"N	80°36'47.5239"W	1104.74	281.806	0.81	
4246.00	21.860	281.080	4046.14	-647.23	233.30	-1116.87	1748401.89	14596623.95	40°11'28.6218"N	80°36'47.9810"W	1140.98	281.799	1.28	
4340.00	23.430	282.880	4132.89	-667.86	240.83	-1152.27	1748366.51	14596631.48	40°11'28.6977"N	80°36'48.4366"W	1177.17	281.805	1.83	
4435.00	22.650	283.770	4220.31	-689.76	249.40	-1188.45	1748330.34	14596640.04	40°11'28.7839"N	80°36'48.9023"W	1214.33	281.852	0.90	
4529.00	21.940	281.820	4307.28	-710.50	257.30	-1223.22	1748295.59	14596647.94	40°11'28.8635"N	80°36'49.3499"W	1249.99	281.879	1.09	
4624.00	21.740	281.080	4395.47	-730.37	264.32	-1259.85	1748260.96	14596654.96	40°11'28.9344"N	80°36'49.7958"W	1285.33	281.867	0.36	
4719.00	20.460	282.870	4484.10	-749.84	271.40	-1291.31	1748227.52	14596662.04	40°11'29.0058"N	80°36'50.2665"W	1319.52	281.869	1.51	
4813.00	22.090	283.800	4571.69	-769.94	279.28	-1324.49	1748194.35	14596669.91	40°11'29.0850"N	80°36'50.6536"W	1353.62	281.907	1.77	
4908.00	22.840	285.950	4659.48	-792.11	288.60	-1359.57	1748159.29	14596679.23	40°11'29.1787"N	80°36'51.1051"W	1389.86	281.985	1.17	
5002.00	22.480	287.750	4746.22	-815.19	299.10	-1394.23	1748124.65	14596689.72	40°11'29.2839"N	80°36'51.5511"W	1425.95	282.108	0.83	
5097.00	22.840	286.340	4833.57	-839.10	310.04	-1429.95	1748088.94	14596700.66	40°11'29.3935"N	80°36'52.0108"W	1463.17	282.233	1.55	
5192.00	22.500	281.340	4920.91	-861.40	319.01	-1466.20	1748052.70	14596709.63	40°11'29.4838"N	80°36'52.4774"W	1500.50	282.275	2.50	
5280.00	22.200	281.350	5002.59	-879.77	325.45	-1498.31	1748020.60	14596716.07	40°11'29.5488"N	80°36'52.8908"W	1533.25	282.265	1.48	
5371.00	21.790	280.330	5087.82	-897.41	331.46	-1529.60	1747989.32	14596722.07	40°11'29.6095"N	80°36'53.2937"W	1565.10	282.227	1.60	
5465.00	21.250	274.580	5175.87	-913.92	336.67	-1562.24	1747956.70	14596726.28	40°11'29.6525"N	80°36'53.7140"W	1597.89	282.126	2.65	



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5560.00	18.710	252.280	5265.27	-923.18	332.40	-1593.97	1747924.98	14596723.01	40°11'29.6216"N	80°36'54.1230"W	1628.26	281.780	8.40	
5654.00	17.290	221.920	5354.86	-918.52	317.39	-1617.71	1747901.25	14596708.00	40°11'29.4742"N	80°36'54.4298"W	1648.55	281.100	9.98	
5749.00	23.570	203.470	5443.94	-899.30	289.40	-1634.74	1747884.22	14596680.03	40°11'29.1984"N	80°36'54.6508"W	1660.16	280.039	9.40	
5844.00	28.780	187.690	5529.27	-866.39	249.24	-1645.39	1747873.58	14596639.88	40°11'28.8020"N	80°36'54.7903"W	1664.16	278.614	9.11	
5938.00	35.310	181.340	5608.92	-822.02	199.59	-1649.06	1747869.91	14596590.25	40°11'28.3115"N	80°36'54.8403"W	1661.09	276.901	7.81	
6032.00	44.550	175.480	5680.95	-765.77	139.41	-1647.09	1747871.88	14596530.10	40°11'27.7167"N	80°36'54.8183"W	1652.98	274.838	10.60	
6127.00	52.630	172.470	5743.75	-697.57	68.64	-1639.50	1747879.46	14596459.35	40°11'27.0170"N	80°36'54.7245"W	1640.94	272.397	8.83	
6221.00	59.400	167.010	5796.29	-621.54	-7.94	-1625.49	1747893.47	14596382.80	40°11'26.2597"N	80°36'54.5482"W	1625.51	269.720	8.66	
6315.00	68.240	163.140	5837.73	-538.06	-89.32	-1603.69	1747915.27	14596301.45	40°11'25.4546"N	80°36'54.2718"W	1606.17	266.812	10.10	
6409.00	76.430	160.870	5866.23	-448.88	-174.41	-1576.00	1747942.94	14596216.39	40°11'24.6125"N	80°36'53.9199"W	1585.63	263.685	9.01	
6503.00	82.710	158.510	5883.25	-356.57	-261.06	-1543.92	1747975.01	14596129.78	40°11'23.7549"N	80°36'53.5112"W	1565.83	260.403	7.12	
6597.00	87.970	156.450	5890.88	-262.92	-347.56	-1508.04	1748010.87	14596043.31	40°11'22.8985"N	80°36'53.0538"W	1547.58	257.021	6.01	
6692.00	88.250	156.780	5894.01	-167.98	-434.71	-1470.36	1748048.55	14595956.20	40°11'22.0357"N	80°36'52.5731"W	1533.27	253.530	0.46	
6785.00	87.940	156.110	5897.11	-75.04	-519.92	-1433.21	1748085.68	14595871.02	40°11'21.1921"N	80°36'52.0993"W	1524.60	250.061	0.79	
6880.00	90.550	158.700	5898.36	19.94	-607.60	-1396.72	1748122.15	14595783.37	40°11'20.3241"N	80°36'51.6340"W	1523.16	246.490	3.87	
6974.00	88.550	156.760	5899.10	113.92	-694.58	-1361.10	1748157.76	14595696.43	40°11'19.4630"N	80°36'51.1799"W	1528.08	242.964	2.96	
7067.00	89.140	156.770	5900.97	206.90	-780.02	-1324.42	1748194.42	14595611.02	40°11'18.6172"N	80°36'50.7121"W	1537.05	239.504	0.63	
7162.00	89.380	156.240	5902.20	301.88	-867.14	-1286.55	1748232.28	14595523.94	40°11'17.7547"N	80°36'50.2290"W	1551.49	236.020	0.61	
7256.00	89.010	156.530	5903.52	395.86	-953.26	-1248.90	1748269.92	14595437.86	40°11'16.9020"N	80°36'49.7487"W	1571.13	232.646	0.50	
7351.00	88.860	156.370	5905.82	490.84	-1040.33	-1210.95	1748307.85	14595350.82	40°11'16.0399"N	80°36'49.2646"W	1596.46	229.334	0.23	
7445.00	88.890	156.790	5907.31	584.80	-1126.24	-1172.84	1748345.94	14595264.94	40°11'15.1894"N	80°36'48.7784"W	1626.03	226.161	0.62	
7540.00	89.170	154.950	5908.74	679.74	-1212.58	-1133.26	1748385.51	14595178.63	40°11'14.3344"N	80°36'48.2732"W	1659.71	223.063	0.93	
7635.00	89.720	155.530	5909.86	774.67	-1298.84	-1093.42	1748425.28	14595092.40	40°11'13.4803"N	80°36'47.7654"W	1697.84	220.093	0.84	
7730.00	89.290	155.870	5910.48	869.63	-1385.42	-1054.38	1748464.36	14595005.86	40°11'12.6230"N	80°36'47.2665"W	1741.01	217.273	0.58	
7824.00	89.660	155.570	5911.34	963.60	-1471.10	-1015.73	1748503.00	14594920.21	40°11'11.7746"N	80°36'46.7734"W	1787.69	214.623	0.51	
7919.00	89.660	155.440	5911.90	1058.55	-1557.55	-976.34	1748542.37	14594833.79	40°11'10.9187"N	80°36'46.2707"W	1838.26	212.081	0.14	
8013.00	89.600	155.810	5912.51	1152.51	-1643.17	-937.55	1748581.15	14594748.21	40°11'10.0709"N	80°36'45.7757"W	1891.83	209.708	0.40	
8107.00	89.230	155.070	5913.47	1246.46	-1728.66	-898.48	1748620.20	14594662.75	40°11'9.2244"N	80°36'45.2771"W	1948.21	207.463	0.88	
8202.00	89.260	155.220	5914.72	1341.39	-1814.85	-858.55	1748660.11	14594576.59	40°11'8.3710"N	80°36'44.7675"W	2007.69	205.317	0.16	
8296.00	89.450	155.430	5915.78	1435.33	-1900.27	-819.31	1748699.34	14594491.21	40°11'7.5252"N	80°36'44.2667"W	2069.37	203.324	0.30	

Actual Wellpath Report

Mike Ryniawec BRK 206H Proj: 19932'
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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Mike Ryniawec BRK 206H
Field	Brooke	API	47009003300000
Facility	Mike Ryniawec BRK Pad	Wellbore	Mike Ryniawec BRK 206H AWB
Slot	206H		

WELLPATH DATA (214 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
8391.00	89.600	156.090	5916.57	1530.30	-1986.89	-780.31	1748738.32	14594404.62	40°11'6.6676"N	80°36'43.7691"W	2134.62	201.441	0.71	
8486.00	89.290	155.750	5917.49	1625.27	-2073.62	-741.55	1748777.07	14594317.93	40°11'5.8089"N	80°36'43.2746"W	2202.22	199.678	0.48	
8581.00	89.110	155.110	5918.81	1720.21	-2160.00	-702.00	1748816.55	14594231.57	40°11'4.9535"N	80°36'42.7706"W	2271.23	198.005	0.70	
8675.00	89.540	155.640	5919.92	1814.15	-2245.45	-662.89	1748855.70	14594146.16	40°11'4.1074"N	80°36'42.2708"W	2341.25	196.447	0.73	
8769.00	89.820	156.050	5920.45	1908.12	-2331.22	-624.42	1748894.15	14594060.43	40°11'3.2582"N	80°36'41.7800"W	2413.40	194.995	0.53	
8864.00	89.600	155.190	5920.93	2003.08	-2417.74	-585.21	1748933.35	14593973.93	40°11'2.4015"N	80°36'41.2797"W	2487.56	193.607	0.93	
8959.00	89.820	155.480	5921.41	2098.03	-2504.08	-545.57	1748972.98	14593887.64	40°11'1.5466"N	80°36'40.7737"W	2562.82	192.291	0.38	
9053.00	90.060	155.580	5921.51	2191.99	-2589.63	-506.63	1749011.90	14593802.11	40°11'0.6995"N	80°36'40.2769"W	2638.72	191.069	0.28	
9148.00	89.380	155.390	5921.97	2286.94	-2676.07	-467.21	1749051.30	14593715.71	40°10'59.8436"N	80°36'39.7739"W	2716.55	189.903	0.74	
9242.00	89.450	155.830	5922.93	2380.90	-2761.67	-428.40	1749090.10	14593630.14	40°10'58.9960"N	80°36'39.2787"W	2794.70	188.818	0.47	
9337.00	90.460	155.940	5923.01	2475.87	-2848.38	-389.58	1749128.90	14593543.47	40°10'58.1375"N	80°36'38.7835"W	2874.90	187.788	1.07	
9432.00	89.600	155.670	5922.96	2570.84	-2935.03	-350.65	1749167.82	14593456.85	40°10'57.2795"N	80°36'38.2868"W	2955.91	186.813	0.95	
9526.00	89.600	155.410	5923.61	2664.79	-3020.60	-311.73	1749206.72	14593371.32	40°10'56.4323"N	80°36'37.7901"W	3036.64	185.892	0.28	
9621.00	89.410	155.590	5924.43	2759.75	-3107.04	-272.33	1749246.10	14593284.91	40°10'55.5764"N	80°36'37.2875"W	3118.95	185.009	0.28	
9715.00	89.480	154.870	5925.34	2853.68	-3192.39	-232.95	1749285.47	14593199.59	40°10'54.7313"N	80°36'36.7849"W	3200.87	184.174	0.77	
9810.00	89.230	155.090	5926.41	2948.60	-3278.47	-192.78	1749325.63	14593113.55	40°10'53.8789"N	80°36'36.2722"W	3284.13	183.365	0.35	
9904.00	89.510	155.400	5927.45	3042.54	-3363.82	-153.42	1749364.97	14593028.22	40°10'53.0337"N	80°36'35.7699"W	3367.32	182.611	0.44	
9999.00	89.480	155.370	5928.28	3137.49	-3450.19	-113.85	1749404.52	14592941.89	40°10'52.1785"N	80°36'35.2650"W	3452.06	181.890	0.04	
10094.00	89.580	155.270	5929.23	3232.43	-3536.50	-74.18	1749444.17	14592855.61	40°10'51.3238"N	80°36'34.7589"W	3537.28	181.202	0.15	
10189.00	89.420	155.420	5930.22	3327.37	-3622.84	-34.56	1749483.79	14592769.31	40°10'50.4689"N	80°36'34.2532"W	3623.00	180.547	0.16	
10283.00	89.410	155.000	5931.18	3421.31	-3708.17	4.85	1749523.18	14592684.01	40°10'49.6240"N	80°36'33.7503"W	3708.18	179.925	0.45	
10378.00	89.510	154.910	5932.08	3516.23	-3794.24	45.07	1749563.38	14592597.98	40°10'48.7717"N	80°36'33.2371"W	3794.50	179.319	0.14	
10473.00	89.450	155.260	5932.94	3611.16	-3880.39	85.09	1749603.39	14592511.86	40°10'47.9186"N	80°36'32.7264"W	3881.32	178.744	0.37	
10567.00	89.480	155.560	5933.82	3705.10	-3965.86	124.20	1749642.48	14592426.42	40°10'47.0723"N	80°36'32.2273"W	3967.81	178.206	0.32	
10662.00	89.320	155.620	5934.81	3800.06	-4052.37	163.46	1749681.73	14592339.95	40°10'46.2158"N	80°36'31.7264"W	4055.66	177.690	0.18	
10756.00	89.480	154.910	5935.80	3894.00	-4137.74	202.79	1749721.04	14592254.61	40°10'45.3704"N	80°36'31.2246"W	4142.70	177.194	0.77	
10851.00	89.410	155.150	5936.72	3988.92	-4223.85	242.89	1749761.13	14592168.53	40°10'44.5177"N	80°36'30.7128"W	4230.83	176.709	0.26	
10945.00	89.450	157.270	5937.65	4082.90	-4309.86	280.81	1749799.03	14592082.56	40°10'43.6662"N	80°36'30.2293"W	4318.99	176.272	2.26	
11039.00	89.080	155.300	5938.86	4176.87	-4395.91	318.61	1749836.81	14591996.54	40°10'42.8142"N	80°36'29.7472"W	4407.44	175.855	2.13	
11133.00	89.540	156.170	5939.99	4270.83	-4481.59	357.23	1749875.42	14591910.89	40°10'41.9657"N	80°36'29.2544"W	4495.81	175.443	1.05	

Actual Wellpath Report

Mike Ryniawec BRK 206H Proj: 19932'

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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Mike Ryniawec BRK 206H
Field	Brooke	API	47009003300000
Facility	Mike Ryniawec BRK Pad	Wellbore	Mike Ryniawec BRK 206H AWB
Slot	206H		

WELLPATH DATA (214 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
11228.00	89.820	155.950	5940.52	4365.81	-4568.42	395.78	1749913.96	14591824.09	40°10'41.1060"N	80°36'28.7627"W	4585.53	175.049	0.37	
11322.00	89.690	156.200	5940.92	4459.79	-4654.34	433.90	1749952.06	14591738.20	40°10'40.2553"N	80°36'28.2765"W	4674.52	174.674	0.30	
11416.00	89.510	156.510	5941.58	4553.78	-4740.45	471.60	1749989.75	14591652.13	40°10'39.4028"N	80°36'27.7957"W	4763.85	174.319	0.38	
11510.00	89.690	156.170	5942.24	4647.76	-4826.55	509.32	1750027.45	14591566.07	40°10'38.5503"N	80°36'27.3147"W	4853.34	173.976	0.41	
11605.00	89.630	156.300	5942.80	4742.75	-4913.49	547.61	1750065.72	14591479.16	40°10'37.6895"N	80°36'26.8264"W	4943.91	173.641	0.15	
11699.00	89.450	155.850	5943.55	4836.72	-4999.41	585.73	1750103.83	14591393.27	40°10'36.8388"N	80°36'26.3402"W	5033.60	173.318	0.52	
11794.00	89.570	156.110	5944.37	4931.70	-5086.18	624.39	1750142.48	14591306.54	40°10'35.9796"N	80°36'25.8470"W	5124.36	173.001	0.30	
11889.00	89.780	156.260	5944.91	5026.68	-5173.09	662.75	1750180.83	14591219.66	40°10'35.1191"N	80°36'25.3578"W	5215.37	172.699	0.27	
11983.00	89.570	155.890	5945.44	5120.66	-5259.01	700.87	1750218.93	14591133.77	40°10'34.2684"N	80°36'24.8716"W	5305.51	172.409	0.45	
12078.00	89.630	155.840	5946.10	5215.63	-5345.70	739.72	1750257.76	14591047.11	40°10'33.4100"N	80°36'24.3761"W	5396.64	172.122	0.08	
12172.00	89.480	155.880	5946.83	5309.60	-5431.48	778.16	1750296.19	14590961.37	40°10'32.5606"N	80°36'23.8858"W	5486.94	171.847	0.17	
12266.00	89.600	156.040	5947.59	5403.57	-5517.32	816.45	1750334.46	14590875.56	40°10'31.7107"N	80°36'23.3974"W	5577.41	171.582	0.21	
12360.00	89.630	155.460	5948.22	5497.54	-5603.03	855.06	1750373.05	14590789.89	40°10'30.8621"N	80°36'22.9049"W	5667.90	171.323	0.62	
12454.00	89.630	155.780	5948.83	5591.50	-5688.64	893.86	1750411.84	14590704.31	40°10'30.0143"N	80°36'22.4100"W	5758.44	171.070	0.34	
12549.00	89.540	156.120	5949.51	5686.47	-5775.39	932.57	1750450.54	14590617.59	40°10'29.1554"N	80°36'21.9162"W	5850.20	170.827	0.37	
12643.00	89.570	156.060	5950.24	5780.45	-5861.32	970.67	1750488.62	14590531.69	40°10'28.3045"N	80°36'21.4303"W	5941.16	170.597	0.07	
12736.00	89.660	155.910	5950.87	5873.42	-5946.27	1008.52	1750526.46	14590446.78	40°10'27.4634"N	80°36'20.9476"W	6031.19	170.374	0.19	
12830.00	89.690	156.250	5951.40	5967.40	-6032.20	1046.63	1750564.55	14590360.88	40°10'26.6126"N	80°36'20.4615"W	6122.32	170.157	0.36	
12924.00	89.540	156.350	5952.03	6061.39	-6118.27	1084.41	1750602.32	14590274.85	40°10'25.7604"N	80°36'19.9797"W	6213.63	169.949	0.19	
13019.00	89.680	156.170	5952.51	6156.37	-6205.07	1123.01	1750640.91	14590188.08	40°10'24.9010"N	80°36'19.4874"W	6305.87	169.741	0.77	
13113.00	90.250	155.920	5952.41	6250.34	-6290.82	1161.53	1750679.41	14590102.37	40°10'24.0519"N	80°36'18.9962"W	6397.15	169.539	0.46	
13207.00	90.090	156.250	5952.13	6344.32	-6376.75	1199.64	1750717.50	14590016.47	40°10'23.2011"N	80°36'18.5102"W	6488.61	169.346	0.39	
13302.00	89.880	155.580	5952.15	6439.29	-6463.47	1238.41	1750756.25	14589929.78	40°10'22.3424"N	80°36'18.0158"W	6581.04	169.154	0.74	
13396.00	89.600	156.090	5952.58	6533.26	-6549.24	1276.89	1750794.72	14589844.05	40°10'21.4932"N	80°36'17.5250"W	6672.55	168.968	0.62	
13491.00	88.090	155.570	5954.50	6628.21	-6635.89	1315.77	1750833.59	14589757.43	40°10'20.6352"N	80°36'17.0290"W	6765.08	168.785	1.68	
13585.00	85.840	155.590	5959.47	6722.03	-6721.35	1354.58	1750872.38	14589672.00	40°10'19.7889"N	80°36'16.5340"W	6856.49	168.606	2.39	
13680.00	85.040	156.110	5967.02	6816.70	-6807.76	1393.32	1750911.11	14589585.62	40°10'18.9333"N	80°36'16.0399"W	6948.88	168.433	1.00	
13775.00	84.880	155.950	5975.37	6911.31	-6894.23	1431.77	1750949.54	14589499.18	40°10'18.0774"N	80°36'15.5496"W	7041.34	168.268	0.24	
13869.00	84.700	155.730	5983.91	7004.90	-6979.65	1470.08	1750987.84	14589413.81	40°10'17.2314"N	80°36'15.0609"W	7132.78	168.106	0.30	
13963.00	87.530	155.900	5990.27	7098.64	-7065.19	1508.50	1751026.24	14589328.30	40°10'16.3844"N	80°36'14.5710"W	7224.44	167.948	3.02	

REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Mike Ryniawec BRK 206H
Field	Brooke	API	47009003300000
Facility	Mike Ryniawec BRK Pad	Wellbore	Mike Ryniawec BRK 206H AWB
Slot	206H		

WELLPATH DATA (214 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
14057.00	89.450	156.220	5992.75	7192.59	-7151.07	1546.63	1751064.36	14589242.45	40°10'15.5341"N	80°36'14.0847"W	7316.41	167.796	2.07	
14152.00	89.570	156.180	5993.56	7287.57	-7237.99	1584.96	1751102.68	14589155.56	40°10'14.6734"N	80°36'13.5959"W	7409.49	167.648	0.13	
14246.00	90.000	155.450	5993.92	7381.54	-7323.73	1623.47	1751141.17	14589069.85	40°10'13.8244"N	80°36'13.1048"W	7501.52	167.501	0.90	
14340.00	89.820	151.740	5994.06	7475.33	-7407.91	1665.27	1751182.95	14588985.70	40°10'12.9907"N	80°36'12.5712"W	7592.78	167.331	3.95	
14435.00	89.690	150.270	5994.47	7569.76	-7491.00	1711.32	1751228.98	14588902.65	40°10'12.1676"N	80°36'11.9828"W	7683.99	167.132	1.55	
14529.00	89.630	149.590	5995.03	7663.00	-7572.35	1758.41	1751276.06	14588821.33	40°10'11.3616"N	80°36'11.3808"W	7773.83	166.927	0.73	
14624.00	89.600	147.530	5995.67	7756.90	-7653.40	1807.96	1751325.59	14588740.32	40°10'10.5586"N	80°36'10.7472"W	7864.04	166.709	2.17	
14718.00	89.480	145.670	5996.25	7849.28	-7731.87	1859.70	1751377.31	14588661.88	40°10'9.7808"N	80°36'10.0852"W	7952.37	166.476	1.98	
14812.00	89.510	144.100	5996.93	7941.06	-7808.64	1913.93	1751431.51	14588585.13	40°10'9.0197"N	80°36'9.3912"W	8039.78	166.228	1.93	
14905.00	89.290	143.700	5997.75	8031.58	-7883.87	1968.61	1751486.17	14588509.94	40°10'8.2740"N	80°36'8.6912"W	8125.93	165.980	0.25	
15000.00	89.350	143.820	5998.74	8124.01	-7960.62	2024.58	1751542.12	14588433.21	40°10'7.5130"N	80°36'7.9746"W	8214.04	165.731	0.48	
15095.00	89.390	144.980	6000.89	8307.05	-8112.85	2134.87	1751598.26	14588356.62	40°10'6.7534"N	80°36'7.2557"W	8302.21	165.486	0.14	
15188.00	89.350	148.970	6002.06	8400.50	-8192.48	2186.63	1751652.37	14588281.04	40°10'6.0038"N	80°36'6.5627"W	8389.04	165.257	1.25	
15283.00	89.380	148.600	6003.27	8494.46	-8273.72	2235.86	1751704.11	14588201.44	40°10'5.2146"N	80°36'5.9006"W	8479.27	165.056	4.20	
15472.00	89.570	149.920	6004.31	8587.55	-8354.50	2283.90	1751801.35	14588039.48	40°10'3.6092"N	80°36'4.6570"W	8570.50	164.878	0.42	
15566.00	89.570	152.260	6005.17	8680.99	-8436.78	2329.34	1751846.77	14587957.24	40°10'2.7941"N	80°36'4.0764"W	8661.06	164.710	1.40	
15661.00	89.380	154.970	6006.04	8775.76	-8521.62	2372.07	1751889.48	14587872.43	40°10'1.9539"N	80°36'3.5309"W	8752.43	164.566	2.50	
15755.00	89.750	156.950	6006.75	8869.69	-8606.91	2411.56	1751928.95	14587787.17	40°10'1.1092"N	80°36'3.0272"W	8845.60	164.445	2.13	
15849.00	89.500	157.820	6007.29	8963.68	-8693.40	2448.38	1751965.76	14587700.72	40°10'0.2530"N	80°36'2.5579"W	8938.38	164.348	1.93	
15943.00	89.590	160.560	6007.87	9057.63	-8781.17	2481.99	1751999.36	14587612.98	40°09'59.3841"N	80°36'2.1301"W	9031.60	164.271	1.89	
16037.00	89.150	161.980	6008.25	9151.46	-8869.87	2513.20	1752030.46	14587524.31	40°09'58.5062"N	80°36'1.7345"W	9125.20	164.217	2.62	
16131.00	89.720	162.770	6008.60	9245.14	-8959.23	2542.28	1752059.63	14587434.99	40°09'57.6219"N	80°36'1.3638"W	9219.02	164.181	0.85	
16226.00	89.720	164.960	6009.06	9339.50	-9050.48	2568.68	1752086.01	14587343.78	40°09'56.7190"N	80°36'1.0290"W	9312.94	164.158	1.82	
16320.00	89.720	167.390	6009.52	9432.35	-9141.75	2591.14	1752108.47	14587252.55	40°09'55.8161"N	80°36'0.7450"W	9407.94	164.155	2.31	
16414.00	89.600	169.050	6010.08	9524.62	-9233.76	2610.33	1752127.65	14587160.57	40°09'54.9059"N	80°36'0.5032"W	9501.87	164.175	2.59	
16507.00	90.120	171.640	6010.31	9615.19	-9325.43	2625.93	1752143.24	14587068.93	40°09'53.9993"N	80°36'0.3076"W	9595.63	164.215	1.77	
16602.00	89.750	171.130	6010.42	9707.31	-9419.36	2640.16	1752157.46	14586975.04	40°09'53.0705"N	80°36'0.1298"W	9688.10	164.273	2.84	
16696.00	89.600	170.890	6010.95	9798.61	-9512.21	2654.85	1752172.15	14586882.23	40°09'52.1524"N	80°35'59.9460"W	9782.37	164.342	0.66	
16789.00	89.720	170.990	6011.50	9888.96	-9604.04	2669.49	1752186.78	14586790.43	40°09'51.2442"N	80°35'59.7627"W	9875.74	164.406	0.30	
											9968.14	164.466	0.17	

REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Mike Ryniawec BRK 206H
Field	Brooke	API	47009003300000
Facility	Mike Ryniawec BRK Pad	Wellbore	Mike Ryniawec BRK 206H AWB
Slot	206H		

WELLPATH DATA (214 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
16883.00	89.660	171.060	6012.01	9980.25	-9696.89	2684.15	1752201.44	14586697.61	40°09'50.3260"N	80°35'59.5792"W	10061.53	164.528	0.10	
16977.00	89.380	169.100	6012.80	10071.89	-9789.48	2700.35	1752217.63	14586605.06	40°09'49.4104"N	80°35'59.3760"W	10155.09	164.579	2.11	
17071.00	89.540	168.170	6013.68	10164.04	-9881.63	2718.87	1752236.14	14586612.95	40°09'48.4989"N	80°35'59.1428"W	10248.85	164.616	1.00	
17165.00	89.480	165.920	6014.49	10256.65	-9973.23	2739.94	1752257.21	14586642.38	40°09'47.5928"N	80°35'58.8767"W	10342.75	164.638	2.39	
17260.00	89.410	163.840	6015.41	10350.80	-10064.93	2764.72	1752281.97	14586639.72	40°09'46.6855"N	80°35'58.5629"W	10437.74	164.640	2.19	
17354.00	89.140	161.740	6016.60	10444.35	-10154.71	2792.53	1752309.77	145866239.97	40°09'45.7971"N	80°35'58.2099"W	10531.88	164.624	2.25	
17449.00	89.820	160.510	6017.46	10539.12	-10244.60	2823.26	1752340.49	14586150.12	40°09'44.9075"N	80°35'57.8193"W	10626.50	164.593	1.48	
17542.00	89.080	160.890	6018.35	10631.95	-10332.36	2853.99	1752371.22	14586062.39	40°09'44.0388"N	80°35'57.4285"W	10719.28	164.569	0.89	
17637.00	89.230	161.080	6019.75	10726.74	-10422.17	2884.94	1752402.15	14585972.62	40°09'43.1499"N	80°35'57.0351"W	10814.09	164.527	0.25	
17731.00	89.110	161.660	6021.11	10820.48	-10511.23	2914.97	1752432.17	14585883.59	40°09'42.2685"N	80°35'56.6536"W	10907.94	164.500	0.63	
17826.00	89.320	161.020	6022.42	10915.23	-10601.23	2945.36	1752462.55	14585793.63	40°09'41.3778"N	80°35'56.2673"W	11002.78	164.473	0.71	
17920.00	89.260	161.240	6023.58	11009.00	-10690.17	2975.76	1752492.93	14585704.72	40°09'40.4975"N	80°35'55.8810"W	11096.62	164.445	0.24	
18014.00	89.260	161.490	6024.80	11102.75	-10779.24	3005.79	1752522.96	14585615.69	40°09'39.6160"N	80°35'55.4993"W	11190.48	164.419	0.27	
18109.00	89.940	161.660	6025.46	11197.48	-10869.36	3035.82	1752552.97	14585525.60	40°09'38.7240"N	80°35'55.1178"W	11285.36	164.395	0.74	
18203.00	89.420	160.760	6025.98	11291.25	-10958.35	3066.10	1752583.23	14585436.64	40°09'37.8433"N	80°35'54.7331"W	11379.21	164.369	1.11	
18298.00	89.420	160.890	6026.94	11386.06	-11048.08	3097.30	1752614.42	14585346.95	40°09'36.9553"N	80°35'54.3364"W	11474.03	164.339	0.14	
18392.00	89.600	161.530	6027.75	11479.83	-11137.06	3127.57	1752644.69	14585258.00	40°09'36.0746"N	80°35'53.9517"W	11567.88	164.314	0.71	
18487.00	89.540	160.820	6028.46	11574.60	-11226.98	3158.23	1752675.33	14585168.12	40°09'35.1847"N	80°35'53.5621"W	11662.74	164.288	0.75	
18581.00	89.570	161.270	6029.19	11668.39	-11315.88	3188.76	1752705.85	14585079.26	40°09'34.3048"N	80°35'53.1740"W	11756.59	164.262	0.48	
18676.00	89.320	160.910	6030.11	11763.17	-11405.75	3219.55	1752736.63	14584989.42	40°09'33.4153"N	80°35'52.7828"W	11851.44	164.237	0.46	
18770.00	89.380	161.160	6031.18	11856.96	-11494.64	3250.94	1752767.16	14584900.57	40°09'32.5355"N	80°35'52.3945"W	11945.28	164.212	0.27	
18865.00	89.600	160.940	6032.02	11951.75	-11584.49	3280.94	1752798.00	14584810.75	40°09'31.6463"N	80°35'52.0024"W	12040.14	164.187	0.33	
18959.00	89.850	161.810	6032.48	12046.50	-11673.56	3310.96	1752828.01	14584721.71	40°09'30.7647"N	80°35'51.6210"W	12134.02	164.165	0.96	
19053.00	89.540	160.780	6032.98	12139.26	-11762.59	3341.11	1752858.14	14584632.71	40°09'29.8836"N	80°35'51.2379"W	12227.90	164.143	1.14	
19147.00	89.630	160.870	6033.66	12233.08	-11851.38	3371.98	1752889.00	14584543.97	40°09'29.0048"N	80°35'50.8455"W	12321.74	164.118	0.14	
19242.00	89.420	161.030	6034.44	12327.87	-11941.17	3402.99	1752920.00	14584454.21	40°09'28.1161"N	80°35'50.4514"W	12416.60	164.094	0.28	
19337.00	89.450	161.240	6035.38	12422.65	-12031.06	3433.70	1752950.70	14584364.35	40°09'27.2264"N	80°35'50.0610"W	12511.47	164.071	0.22	
19430.00	89.480	160.830	6036.25	12515.44	-12119.01	3463.93	1752980.91	14584276.44	40°09'26.3660"N	80°35'49.6769"W	12604.33	164.049	0.44	
19525.00	89.540	161.100	6037.06	12610.24	-12208.81	3494.91	1753011.88	14584186.67	40°09'25.4672"N	80°35'49.2831"W	12699.19	164.026	0.29	
19620.00	89.570	160.870	6037.80	12705.03	-12298.63	3525.86	1753042.82	14584096.89	40°09'24.5782"N	80°35'48.8898"W	12794.06	164.003	0.24	

Actual Wellpath Report

Mike Ryniawec BRK 206H Proj: 19932'

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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Mike Ryniawec BRK 206H
Field	Brooke	API	47009003300000
Facility	Mike Ryniawec BRK Pad	Wellbore	Mike Ryniawec BRK 206H AWB
Slot	206H		

WELLPATH DATA (214 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
19714.00	89.510	161.000	6038.55	12798.83	-12387.47	3556.56	1753073.51	14584008.08	40°09'23.6989"N	80°35'48.4995"W	12887.92	163.981	0.15	
19808.00	89.510	161.450	6039.36	12892.60	-12476.46	3586.82	1753103.75	14583919.12	40°09'22.8181"N	80°35'48.1151"W	12981.81	163.961	0.48	
19903.00	89.540	161.100	6040.15	12987.36	-12566.43	3617.31	1753134.24	14583829.19	40°09'21.9277"N	80°35'47.7276"W	13076.70	163.941	0.37	
19932.00†	89.540	161.100	6040.38	13016.30	-12593.87	3626.71	1753143.63	14583801.76	40°09'21.6562"N	80°35'47.6082"W	13105.67	163.935	0.00	

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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Mike Ryniawec BRK 206H
Field	Brooke	API	47009003300000
Facility	Mike Ryniawec BRK Pad	Wellbore	Mike Ryniawec BRK 206H AWB
Slot	206H		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Mike Ryniawec BRK 206H LP Rev 6	5893.00	-322.59	-1518.01	1748000.91	14596068.27	40°11'23.1457"N	80°36'53.1809"W	point
Mike Ryniawec BRK 206H begin transition	5952.10	-6567.07	1274.76	1750792.59	14589826.22	40°10'21.3170"N	80°36'17.5534"W	point
Mike Ryniawec BRK 206H end transition	5989.00	-7160.41	1540.12	1751057.85	14589233.11	40°10'15.4420"N	80°36'14.1691"W	point
Mike Ryniawec BRK 206H WP11	5998.78	-7587.43	1731.08	1751248.74	14588806.26	40°10'11.2138"N	80°36'11.7337"W	point
Mike Ryniawec BRK 206H WP2	6003.73	-8532.14	2381.85	1751899.25	14587861.91	40°10'1.8494"N	80°36'3.4056"W	point
Mike Ryniawec BRK 206H WP22	6003.73	-8528.97	2379.83	1751897.23	14587865.08	40°10'1.8809"N	80°36'3.4315"W	point
Mike Ryniawec BRK 206H WP33	6012.28	-9712.02	2636.44	1752153.74	14586682.49	40°09'50.1787"N	80°36'0.1947"W	point
Mike Ryniawec BRK 206H BHL Rev 6	6038.00	-12592.10	3631.31	1753148.23	14583803.53	40°09'21.6734"N	80°35'47.5488"W	point

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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Mike Ryniawec BRK 206H
Field	Brooke	API	47009003300000
Facility	Mike Ryniawec BRK Pad	Wellbore	Mike Ryniawec BRK 206H AWB
Slot	206H		

WELLPATH COMPOSITION - Ref Wellbore: Mike Ryniawec BRK 206H AWB Ref Wellpath: Mike Ryniawec BRK 206H Proj: 19932'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.00	434.00	OWSG MWD rev2 + HRGM	1 Tally OWD MWD HRGM 17.5" 144' - 434'	Mike Ryniawec BRK 206H AWB	3/31/2023
434.00	1660.00	OWSG MWD rev2 + HRGM	2 Tally OWD MWD HRGM 12.25" 528' - 1660'	Mike Ryniawec BRK 206H AWB	3/31/2023
1660.00	5280.00	OWSG MWD rev2 + HRGM	3 Tally OWD MWD HRGM 8.75" 1781' - 5280'	Mike Ryniawec BRK 206H AWB	3/31/2023
5280.00	19932.00	BH AutoTrak CurveXpress (2019) (HRGM, Short spacing)	4 BH ATC MWD HRGM Short spacing 8.5" 5371' - 19903'	Mike Ryniawec BRK 206H AWB	3/31/2023

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