

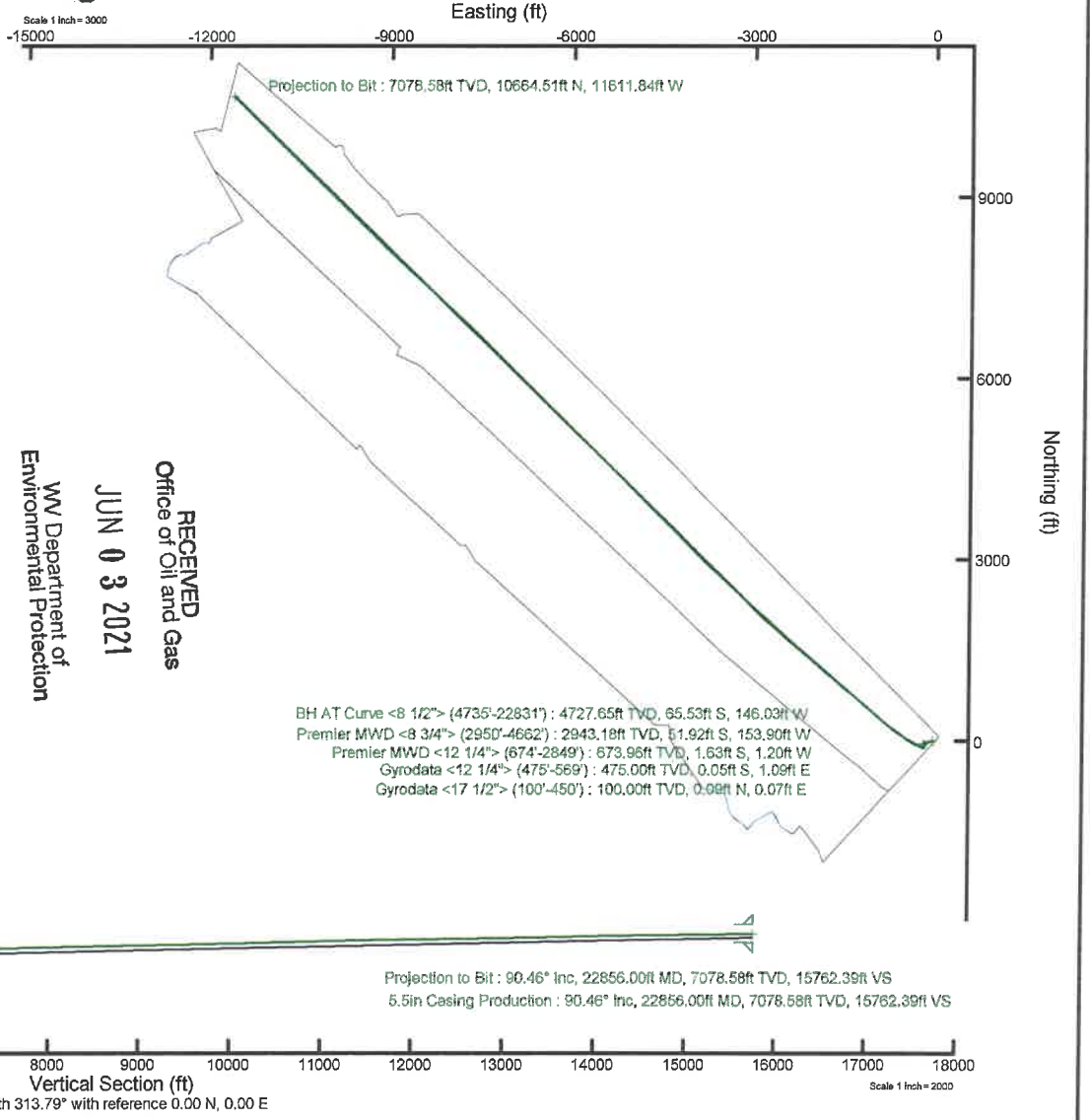
SWN PRODUCTION COMPANY, LLC

Location: Wetzel County, WV Slot: Slot 3H
 Field: Wetzel Well: Constance Taylor WTZ 3H
 Facility: Constance Taylor WTZ Pad Wellbore: Constance Taylor WTZ 3H PWB



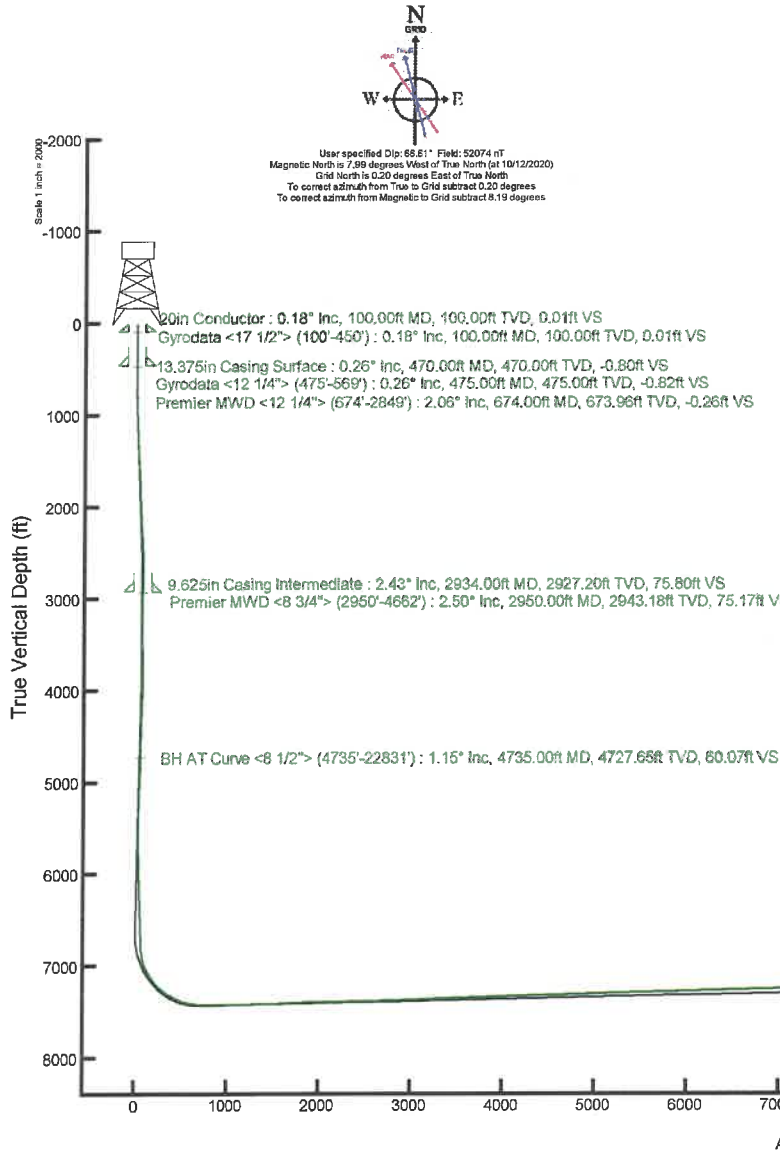
Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Constance Taylor WTZ Pad	1730676.583	14401131.208	39°39'16.8280"N	80°40'45.5230"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot 3H	0.73	24.53	1730701.107	14401131.933
SDC 41 (KB) to Ground level (At Slot: Slot 3H)			26ft	
Mean Sea Level to Ground level (At Slot: Slot 3H)			-1430ft	
SDC 41 (KB) to Mean Sea Level			1456ft	

API: 47-103-03353-0000
 BH Job #: 110608047
 Rig: SDC 41
 Duration: 10/22/2020 - 10/28/2020



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Plot reference wellpath is Constance Taylor WTZ 3H PWB Rev-A-D	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: 1456 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot 3H): -1430 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: atarjen on 2020-10-26; Database: WA_MPL_EASTERNUS_Defn



REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Constance Taylor WTZ 3H
Field	Wetzel	API	47103033530000
Facility	Constance Taylor WTZ Pad	Wellbore	Constance Taylor WTZ 3H AWB
Slot	Slot 3H		

REPORT SETUP INFORMATION

Projection System	NAD83 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Atenjen
Scale	0.999609	Report Generated	10/29/2020 at 2:33:38 PM
Convergence at slot	0.20° 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	0.73	24.53	1730701.11	14401131.93	39°39'16.6343"N	80°40'45.2093"W
Facility Reference Pt			1730676.58	14401131.21	39°39'16.6280"N	80°40'45.5230"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	1456.00ft
Horizontal Reference Pt	Slot	SDC 41 (KB) to Mean Sea Level	1456.00ft
Vertical Reference Pt	SDC 41 (KB)	SDC 41 (KB) to Ground Level at Slot (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	313.79°

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Constance Taylor WTZ 3H AWP Proj: 22856'
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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Constance Taylor WTZ 3H
Field	Wetzel	API	47103033530000
Facility	Constance Taylor WTZ Pad	Wellbore	Constance Taylor WTZ 3H AWB
Slot	Slot 3H		

WELLPATH DATA (273 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
0.00†	0.000	37.810	0.00	0.00	0.00	0.00	1730701.11	14401131.93	39°39'16.6343"N	80°40'45.2093"W	0.00	0.000	0.00	0.00	0.00
26.00	0.000	37.810	26.00	0.00	0.00	0.00	1730701.11	14401131.93	39°39'16.6343"N	80°40'45.2093"W	0.00	0.000	0.00	0.00	0.00
100.00	0.180	37.810	100.00	0.01	0.09	0.07	1730701.18	14401132.03	39°39'16.6352"N	80°40'45.2084"W	0.12	37.810	0.24	0.24	0.00
125.00	0.090	48.540	125.00	0.01	0.14	0.11	1730701.22	14401132.07	39°39'16.6356"N	80°40'45.2079"W	0.17	39.008	0.37	-0.36	42.92
150.00	0.230	59.510	150.00	0.00	0.17	0.17	1730701.27	14401132.11	39°39'16.6360"N	80°40'45.2071"W	0.24	43.943	0.57	0.56	43.88
175.00	0.210	70.300	175.00	-0.03	0.22	0.25	1730701.36	14401132.15	39°39'16.6364"N	80°40'45.2060"W	0.33	49.766	0.18	-0.08	43.16
200.00	0.150	98.380	200.00	-0.08	0.23	0.33	1730701.44	14401132.16	39°39'16.6365"N	80°40'45.2051"W	0.40	55.597	0.42	-0.24	112.32
225.00	0.130	102.210	225.00	-0.13	0.22	0.39	1730701.50	14401132.15	39°39'16.6364"N	80°40'45.2043"W	0.45	61.117	0.09	-0.08	15.32
250.00	0.160	79.150	250.00	-0.18	0.22	0.45	1730701.56	14401132.15	39°39'16.6364"N	80°40'45.2035"W	0.50	64.488	0.26	0.12	-92.24
275.00	0.360	74.570	275.00	-0.24	0.24	0.56	1730701.67	14401132.18	39°39'16.6367"N	80°40'45.2021"W	0.61	66.602	0.80	0.80	-18.32
300.00	0.150	78.950	300.00	-0.30	0.27	0.67	1730701.78	14401132.20	39°39'16.6369"N	80°40'45.2007"W	0.72	68.020	0.84	-0.84	17.52
325.00	0.060	101.720	325.00	-0.33	0.27	0.71	1730701.82	14401132.21	39°39'16.6370"N	80°40'45.2001"W	0.77	69.029	0.39	-0.36	91.08
350.00	0.220	109.880	350.00	-0.38	0.25	0.77	1730701.88	14401132.19	39°39'16.6368"N	80°40'45.1994"W	0.81	71.738	0.64	0.64	32.64
375.00	0.190	125.330	375.00	-0.47	0.21	0.85	1730701.96	14401132.15	39°39'16.6364"N	80°40'45.1984"W	0.88	75.852	0.25	-0.12	61.80
400.00	0.190	115.290	400.00	-0.55	0.17	0.92	1730702.03	14401132.11	39°39'16.6360"N	80°40'45.1975"W	0.94	79.383	0.13	0.00	-40.16
425.00	0.150	154.320	425.00	-0.62	0.13	0.97	1730702.08	14401132.06	39°39'16.6355"N	80°40'45.1968"W	0.98	82.645	0.48	-0.16	156.12
450.00	0.280	146.230	450.00	-0.71	0.05	1.02	1730702.13	14401131.98	39°39'16.6347"N	80°40'45.1962"W	1.02	87.451	0.53	0.52	-32.36
475.00	0.260	145.310	475.00	-0.82	-0.05	1.09	1730702.20	14401131.88	39°39'16.6337"N	80°40'45.1954"W	1.09	92.728	0.08	-0.08	-3.68
500.00	0.180	133.840	500.00	-0.92	-0.13	1.15	1730702.26	14401131.81	39°39'16.6330"N	80°40'45.1946"W	1.16	96.242	0.36	-0.32	-45.88
525.00	0.220	179.180	525.00	-0.99	-0.20	1.18	1730702.28	14401131.73	39°39'16.6323"N	80°40'45.1942"W	1.20	99.675	0.63	0.16	181.36
550.00	0.520	233.770	550.00	-1.00	-0.32	1.09	1730702.19	14401131.62	39°39'16.6311"N	80°40'45.1954"W	1.13	106.197	1.73	1.20	218.36
569.00	0.620	234.440	569.00	-0.97	-0.43	0.93	1730702.04	14401131.51	39°39'16.6300"N	80°40'45.1974"W	1.03	114.540	0.53	0.53	3.53
674.00	2.060	242.530	673.96	-0.26	-1.63	-1.20	1730699.91	14401130.31	39°39'16.6183"N	80°40'45.2247"W	2.02	216.447	1.38	1.37	7.70
764.00	3.210	249.360	763.87	1.35	-3.26	-5.00	1730696.11	14401128.67	39°39'16.6022"N	80°40'45.2733"W	5.97	236.855	1.32	1.28	7.59
854.00	4.540	249.470	853.66	3.98	-5.40	-10.69	1730690.42	14401126.54	39°39'16.5813"N	80°40'45.3462"W	11.98	243.200	1.48	1.48	0.12
947.00	5.830	247.550	946.28	7.48	-8.49	-18.50	1730682.61	14401123.44	39°39'16.5510"N	80°40'45.4462"W	20.36	245.340	1.40	1.39	-2.06
1037.00	5.920	246.450	1035.81	11.11	-12.09	-26.98	1730674.14	14401119.84	39°39'16.5157"N	80°40'45.5548"W	29.57	245.856	0.16	0.10	-1.22
1128.00	5.030	246.730	1126.39	14.47	-15.55	-34.95	1730666.17	14401116.39	39°39'16.4819"N	80°40'45.6568"W	38.25	246.020	0.98	-0.98	0.31
1218.00	5.220	247.670	1216.03	17.67	-18.66	-42.36	1730658.76	14401113.28	39°39'16.4514"N	80°40'45.7517"W	46.29	246.226	0.23	0.21	1.04
1309.00	5.440	250.980	1306.64	21.31	-21.64	-50.27	1730650.86	14401110.30	39°39'16.4222"N	80°40'45.8530"W	54.73	246.710	0.42	0.24	3.64



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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Constance Taylor WTZ 3H
Field	Wetzel	API	47103033530000
Facility	Constance Taylor WTZ Pad	Wellbore	Constance Taylor WTZ 3H AWB
Slot	Slot 3H		

WELLPATH DATA (273 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
1399.00	5.200	255.820	1396.25	25.43	-24.03	-58.25	1730642.87	14401107.91	39°39'16.3989"N	80°40'45.9552"W	63.02	247.586	0.57	-0.27	5.38
1489.00	6.290	255.200	1485.80	30.16	-26.29	-66.98	1730634.16	14401105.66	39°39'16.3769"N	80°40'46.0668"W	71.95	248.571	1.21	1.21	-0.69
1580.00	6.490	257.450	1576.23	35.61	-28.68	-76.82	1730624.32	14401103.27	39°39'16.3536"N	80°40'46.1927"W	81.99	249.528	0.35	0.22	2.47
1671.00	4.460	259.300	1666.81	40.51	-30.45	-85.31	1730615.83	14401101.49	39°39'16.3364"N	80°40'46.3015"W	90.59	250.356	2.24	-2.23	2.03
1761.00	3.640	253.650	1756.59	43.97	-31.91	-91.49	1730609.65	14401100.04	39°39'16.3222"N	80°40'46.3805"W	96.90	250.775	1.01	-0.91	-6.28
1851.00	3.920	249.430	1846.39	46.72	-33.79	-97.11	1730604.03	14401098.16	39°39'16.3038"N	80°40'46.4525"W	102.83	250.815	0.44	0.31	-4.69
1942.00	4.340	253.790	1937.15	49.79	-35.84	-103.33	1730597.81	14401096.10	39°39'16.2837"N	80°40'46.5321"W	109.37	250.869	0.58	0.46	4.79
2033.00	4.040	265.480	2027.91	53.64	-37.06	-109.84	1730591.31	14401094.89	39°39'16.2719"N	80°40'46.6153"W	115.92	251.355	0.99	-0.33	12.85
2124.00	3.740	271.800	2118.70	57.98	-37.22	-116.00	1730585.15	14401094.73	39°39'16.2706"N	80°40'46.6941"W	121.82	252.211	0.57	-0.33	6.95
2215.00	3.780	270.160	2209.51	62.36	-37.12	-121.96	1730579.19	14401094.83	39°39'16.2718"N	80°40'46.7703"W	127.49	253.074	0.13	0.04	-1.80
2305.00	4.680	267.610	2299.26	67.05	-37.26	-128.60	1730572.56	14401094.69	39°39'16.2706"N	80°40'46.8552"W	133.89	253.841	1.02	1.00	-2.83
2396.00	4.470	265.330	2389.97	71.97	-37.70	-135.84	1730565.32	14401094.24	39°39'16.2665"N	80°40'46.9478"W	140.98	254.487	0.31	-0.23	-2.51
2487.00	3.760	258.230	2480.74	76.01	-38.60	-142.30	1730558.86	14401093.35	39°39'16.2578"N	80°40'47.0304"W	147.44	254.822	0.96	-0.78	-7.80
2577.00	3.690	251.110	2570.55	79.01	-40.14	-147.93	1730553.24	14401091.81	39°39'16.2428"N	80°40'47.1024"W	153.28	254.818	0.52	-0.08	-7.91
2668.00	2.970	236.440	2661.39	80.87	-42.39	-152.66	1730548.50	14401089.56	39°39'16.2207"N	80°40'47.1631"W	158.44	254.480	1.22	-0.79	-16.12
2758.00	1.850	199.100	2751.32	80.77	-45.06	-155.08	1730546.09	14401086.90	39°39'16.1945"N	80°40'47.1941"W	161.49	253.800	2.08	-1.24	-41.49
2849.00	2.110	166.810	2842.27	78.75	-48.07	-155.18	1730545.99	14401083.88	39°39'16.1647"N	80°40'47.1955"W	162.46	252.787	1.24	0.29	-35.48
2950.00	2.500	157.300	2943.18	75.17	-51.92	-153.90	1730547.26	14401080.04	39°39'16.1266"N	80°40'47.1794"W	162.43	251.359	0.54	0.39	-9.42
2968.00	2.630	161.570	2961.17	74.45	-52.67	-153.62	1730547.54	14401079.28	39°39'16.1192"N	80°40'47.1758"W	162.40	251.075	1.28	0.72	23.72
3058.00	1.320	169.190	3051.11	71.78	-55.65	-152.78	1730548.39	14401076.31	39°39'16.0897"N	80°40'47.1651"W	162.59	249.986	1.48	-1.46	8.47
3146.00	0.260	255.060	3139.10	71.05	-56.70	-152.78	1730548.39	14401075.26	39°39'16.0794"N	80°40'47.1652"W	162.96	249.640	1.51	-1.20	97.58
3236.00	0.500	310.060	3229.10	71.55	-56.50	-153.28	1730547.89	14401075.46	39°39'16.0814"N	80°40'47.1716"W	163.36	249.767	0.46	0.27	61.11
3324.00	1.320	340.720	3317.09	72.84	-55.29	-153.90	1730547.26	14401076.66	39°39'16.0933"N	80°40'47.1796"W	163.54	250.239	1.05	0.93	34.84
3414.00	1.490	15.980	3407.06	74.31	-53.19	-153.92	1730547.24	14401078.77	39°39'16.1141"N	80°40'47.1797"W	162.86	250.938	0.96	0.19	39.18
3502.00	1.410	13.580	3495.04	75.39	-51.04	-153.36	1730547.81	14401080.92	39°39'16.1353"N	80°40'47.1723"W	161.62	251.593	0.11	-0.09	-2.73
3591.00	1.050	20.160	3584.02	76.26	-49.21	-152.82	1730548.35	14401082.75	39°39'16.1534"N	80°40'47.1654"W	160.54	252.152	0.43	-0.40	7.39
3680.00	0.750	18.220	3673.00	76.84	-47.89	-152.35	1730548.81	14401084.07	39°39'16.1664"N	80°40'47.1594"W	159.70	252.551	0.34	-0.34	-2.18
3769.00	0.860	356.130	3762.00	77.59	-46.67	-152.22	1730548.95	14401085.28	39°39'16.1785"N	80°40'47.1576"W	159.21	252.955	0.37	0.12	-24.82
3858.00	0.480	36.090	3850.99	78.13	-45.70	-152.04	1730549.12	14401086.25	39°39'16.1880"N	80°40'47.1553"W	158.76	253.271	0.65	-0.43	44.90
3948.00	0.190	140.560	3940.99	78.03	-45.51	-151.73	1730549.44	14401086.44	39°39'16.1899"N	80°40'47.1512"W	158.40	253.303	0.62	-0.32	116.08



Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	Constance Taylor WTZ 3H
Field	Wetzel	API	47103033530000
Facility	Constance Taylor WTZ Pad	Wellbore	Constance Taylor WTZ 3H AWB
Slot	Slot 3H		

WELLPATH DATA (273 stations)																
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	
4037.00	0.800	123.410	4029.99	77.28	-45.97	-151.11	1730550.05	14401085.99	39°39'16.1854"N	80°40'47.1434"W	157.95	253.081	0.70	0.69	-19.27	
4127.00	1.660	144.180	4119.96	75.38	-47.37	-149.83	1730551.34	14401084.58	39°39'16.1714"N	80°40'47.1270"W	157.14	252.455	1.06	0.96	23.08	
4215.00	2.500	150.940	4207.91	72.29	-50.08	-148.15	1730553.02	14401081.87	39°39'16.1446"N	80°40'47.1057"W	156.38	251.323	0.99	0.95	7.68	
4305.00	2.150	154.360	4297.83	68.83	-53.32	-146.46	1730554.70	14401078.64	39°39'16.1125"N	80°40'47.0843"W	155.87	249.997	0.42	-0.39	3.80	
4395.00	1.640	169.870	4387.78	66.21	-56.11	-145.51	1730555.66	14401075.85	39°39'16.0849"N	80°40'47.0722"W	155.95	248.913	0.80	-0.57	17.23	
4484.00	1.950	180.550	4476.74	64.14	-58.88	-145.30	1730555.87	14401073.08	39°39'16.0576"N	80°40'47.0697"W	156.77	247.942	0.51	0.35	12.00	
4574.00	1.800	192.300	4566.69	62.36	-61.79	-145.61	1730555.55	14401070.17	39°39'16.0288"N	80°40'47.0738"W	158.18	247.007	0.46	-0.17	13.06	
4662.00	1.190	185.970	4654.66	61.07	-64.05	-146.00	1730555.16	14401067.91	39°39'16.0065"N	80°40'47.0789"W	159.43	246.314	0.72	-0.69	-7.19	
4735.00	1.150	175.730	4727.65	60.07	-65.53	-146.03	1730555.14	14401066.43	39°39'15.9918"N	80°40'47.0793"W	160.06	245.831	0.29	-0.05	-14.03	
4784.00	1.280	156.600	4776.63	59.19	-66.52	-145.77	1730555.39	14401065.43	39°39'15.9820"N	80°40'47.0761"W	160.24	245.470	0.86	0.27	-39.04	
4804.00	1.440	158.050	4796.63	58.76	-66.96	-145.59	1730555.57	14401065.00	39°39'15.9777"N	80°40'47.0738"W	160.25	245.301	0.82	0.80	7.25	
4894.00	2.510	163.760	4886.57	56.02	-69.90	-144.62	1730556.55	14401062.06	39°39'15.9486"N	80°40'47.0615"W	160.63	244.202	1.21	1.19	6.34	
4984.00	2.510	166.000	4976.49	52.65	-73.71	-143.59	1730557.57	14401058.25	39°39'15.9109"N	80°40'47.0485"W	161.40	242.827	0.11	0.00	2.49	
5073.00	2.590	171.750	5065.40	49.41	-77.59	-142.83	1730558.33	14401054.37	39°39'15.8725"N	80°40'47.0390"W	162.54	241.488	0.30	0.09	6.46	
5162.00	2.560	180.420	5154.31	46.46	-81.57	-142.55	1730558.61	14401050.40	39°39'15.8332"N	80°40'47.0356"W	164.24	240.223	0.44	-0.03	9.74	
5252.00	2.520	193.540	5244.22	44.09	-85.50	-143.03	1730558.13	14401046.47	39°39'15.7944"N	80°40'47.0419"W	166.64	239.130	0.65	-0.04	14.58	
5340.00	2.510	199.340	5332.14	42.31	-89.20	-144.12	1730557.04	14401042.77	39°39'15.7578"N	80°40'47.0560"W	169.49	238.246	0.29	-0.01	6.59	
5430.00	2.030	212.150	5422.07	41.18	-92.41	-145.62	1730555.54	14401039.56	39°39'15.7262"N	80°40'47.0754"W	172.47	237.602	0.77	-0.53	14.23	
5519.00	2.070	224.090	5511.01	40.87	-94.90	-147.58	1730553.58	14401037.07	39°39'15.7017"N	80°40'47.1005"W	175.46	237.258	0.48	0.04	13.42	
5608.00	1.940	227.500	5599.96	40.97	-97.07	-149.81	1730551.35	14401034.90	39°39'15.6803"N	80°40'47.1291"W	178.51	237.059	0.20	-0.15	3.83	
5697.00	2.040	239.770	5688.90	41.51	-98.88	-152.29	1730548.88	14401033.09	39°39'15.6624"N	80°40'47.1609"W	181.58	237.004	0.49	0.11	13.79	
5787.00	1.970	247.510	5778.85	42.57	-100.28	-155.10	1730546.06	14401031.69	39°39'15.6487"N	80°40'47.1969"W	184.70	237.115	0.31	-0.08	8.60	
5876.00	2.080	260.800	5867.79	44.16	-101.13	-158.11	1730543.06	14401030.85	39°39'15.6405"N	80°40'47.2354"W	187.69	237.397	0.54	0.12	14.93	
5966.00	1.940	273.170	5957.74	46.30	-101.30	-161.24	1730539.93	14401030.67	39°39'15.6388"N	80°40'47.2755"W	190.43	237.861	0.51	-0.16	13.74	
6056.00	2.060	281.080	6047.68	48.81	-100.91	-164.35	1730536.82	14401031.06	39°39'15.6428"N	80°40'47.3152"W	192.86	238.451	0.33	0.13	8.79	
6145.00	1.950	286.530	6136.63	51.51	-100.17	-167.37	1730533.80	14401031.80	39°39'15.6502"N	80°40'47.3538"W	195.06	239.100	0.25	-0.12	6.12	
6235.00	2.110	293.520	6226.57	54.42	-99.07	-170.36	1730530.81	14401032.90	39°39'15.6612"N	80°40'47.3920"W	197.08	239.820	0.33	0.18	7.77	
6323.00	1.960	297.730	6314.52	57.39	-97.73	-173.18	1730528.00	14401034.25	39°39'15.6746"N	80°40'47.4279"W	198.85	240.564	0.24	-0.17	4.78	
6412.00	2.090	306.210	6403.46	60.46	-96.06	-175.84	1730525.34	14401035.91	39°39'15.6912"N	80°40'47.4618"W	200.36	241.352	0.37	0.15	9.53	
6503.00	1.950	313.370	6494.41	63.65	-94.02	-178.30	1730522.88	14401037.95	39°39'15.7114"N	80°40'47.4932"W	201.57	242.198	0.32	-0.15	7.87	



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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Constance Taylor WTZ 3H
Field	Wetzel	API	47103033530000
Facility	Constance Taylor WTZ Pad	Wellbore	Constance Taylor WTZ 3H AWB
Slot	Slot 3H		

WELLPATH DATA (273 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
6591.00	1.970	291.410	6582.36	66.55	-92.44	-180.80	1730520.38	14401039.53	39°39'15.7271"N	80°40'47.5251"W	203.06	242.921	0.85	0.02	-24.95
6682.00	2.950	257.750	6673.28	69.30	-92.36	-184.54	1730516.64	14401039.61	39°39'15.7280"N	80°40'47.5729"W	206.36	243.412	1.87	1.08	-36.99
6770.00	2.920	256.800	6761.16	71.79	-93.35	-188.94	1730512.24	14401038.62	39°39'15.7184"N	80°40'47.6292"W	210.74	243.706	0.06	-0.03	-1.08
6861.00	9.470	282.330	6851.59	79.45	-92.28	-198.52	1730502.67	14401039.69	39°39'15.7293"N	80°40'47.7516"W	218.92	245.068	7.64	7.20	28.05
6951.00	17.690	284.950	6939.00	97.77	-87.17	-219.00	1730482.19	14401044.80	39°39'15.7806"N	80°40'48.0132"W	235.71	248.296	9.16	9.13	2.91
7041.00	25.050	289.510	7022.76	127.16	-77.26	-250.21	1730450.99	14401054.70	39°39'15.8796"N	80°40'48.4119"W	261.87	252.840	8.38	8.18	5.07
7132.00	32.760	293.250	7102.37	167.84	-61.08	-291.06	1730410.16	14401070.88	39°39'16.0409"N	80°40'48.9334"W	297.40	258.148	8.70	8.47	4.11
7222.00	39.610	297.670	7174.98	218.27	-38.12	-338.91	1730362.33	14401093.83	39°39'16.2696"N	80°40'49.5441"W	341.04	263.583	8.14	7.61	4.91
7313.00	47.350	305.390	7241.01	279.38	-5.19	-392.00	1730309.26	14401126.75	39°39'16.5968"N	80°40'50.2214"W	392.03	269.242	10.30	8.51	8.48
7404.00	55.810	309.200	7297.52	350.15	38.07	-448.56	1730252.72	14401169.99	39°39'17.0263"N	80°40'50.9426"W	450.17	274.851	9.86	9.30	4.19
7495.00	61.970	305.730	7344.53	427.53	85.36	-510.41	1730190.90	14401217.26	39°39'17.4959"N	80°40'51.7311"W	517.49	279.495	7.51	6.77	-3.81
7585.00	69.350	304.540	7381.59	508.53	132.50	-577.43	1730123.90	14401264.38	39°39'17.9641"N	80°40'52.5860"W	592.44	282.924	8.29	8.20	-1.32
7631.00	72.630	306.750	7396.58	551.58	157.85	-612.76	1730088.59	14401289.72	39°39'18.2159"N	80°40'53.0365"W	632.77	284.445	8.45	7.13	4.80
7674.00	77.540	307.710	7407.64	592.84	182.98	-645.83	1730055.53	14401314.84	39°39'18.4654"N	80°40'53.4582"W	671.25	285.819	11.62	11.42	2.23
7720.00	80.980	307.960	7416.21	637.79	210.70	-681.52	1730019.85	14401342.55	39°39'18.7406"N	80°40'53.9132"W	713.35	287.180	7.50	7.48	0.54
7765.00	85.540	308.270	7421.49	682.24	238.28	-716.67	1729984.72	14401370.12	39°39'19.0144"N	80°40'54.3614"W	755.24	288.391	10.16	10.13	0.69
7855.00	90.550	309.190	7424.56	771.81	294.54	-786.82	1729914.60	14401426.35	39°39'19.5728"N	80°40'55.2557"W	840.14	290.523	5.66	5.57	1.02
7947.00	90.220	309.070	7423.94	863.51	352.59	-858.18	1729843.26	14401484.39	39°39'20.1491"N	80°40'56.1655"W	927.79	292.336	0.38	-0.36	-0.13
8037.00	90.430	311.180	7423.43	953.31	410.59	-926.99	1729774.48	14401542.36	39°39'20.7247"N	80°40'57.0427"W	1013.85	293.890	2.36	0.23	2.34
8128.00	90.580	311.540	7422.63	1044.23	470.72	-995.29	1729706.21	14401602.47	39°39'21.3213"N	80°40'57.9132"W	1100.99	295.312	0.43	0.16	0.40
8218.00	90.430	310.690	7421.84	1134.13	529.90	-1063.09	1729638.43	14401661.62	39°39'21.9085"N	80°40'58.7774"W	1187.84	296.494	0.96	-0.17	-0.94
8308.00	90.340	311.020	7421.23	1224.01	588.77	-1131.17	1729570.39	14401720.47	39°39'22.4927"N	80°40'59.6451"W	1275.22	297.497	0.38	-0.10	0.37
8398.00	90.620	310.250	7420.48	1313.87	647.38	-1199.46	1729502.12	14401779.06	39°39'23.0743"N	80°41'0.5157"W	1363.01	298.357	0.91	0.31	-0.86
8488.00	90.400	311.370	7419.68	1403.74	706.20	-1267.58	1729434.03	14401837.85	39°39'23.6580"N	80°41'1.3839"W	1451.02	299.123	1.27	-0.24	1.24
8579.00	92.060	311.390	7417.73	1494.63	766.34	-1335.84	1729365.79	14401897.97	39°39'24.2547"N	80°41'2.2540"W	1540.04	299.842	1.82	1.82	0.02
8668.00	92.460	311.460	7414.22	1583.49	825.18	-1402.52	1729299.14	14401956.79	39°39'24.8385"N	80°41'3.1040"W	1627.26	300.471	0.46	0.45	0.08
8760.00	93.420	310.100	7409.50	1675.24	885.19	-1472.09	1729229.59	14402016.77	39°39'25.4340"N	80°41'3.9908"W	1717.73	301.019	1.81	1.04	-1.48
8852.00	92.830	311.460	7404.48	1766.97	945.19	-1541.65	1729160.06	14402076.75	39°39'26.0294"N	80°41'4.8774"W	1808.33	301.512	1.61	-0.64	1.48
8942.00	92.890	310.690	7399.99	1856.76	1004.25	-1609.41	1729092.33	14402135.78	39°39'26.6154"N	80°41'5.7412"W	1897.03	301.963	0.86	0.07	-0.86
9032.00	91.050	310.290	7396.90	1946.55	1062.65	-1677.81	1729023.95	14402194.16	39°39'27.1950"N	80°41'6.6132"W	1986.02	302.348	2.09	-2.04	-0.44



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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Constance Taylor WTZ 3H
Field	Wetzel	API	47103033530000
Facility	Constance Taylor WTZ Pad	Wellbore	Constance Taylor WTZ 3H AWB
Slot	Slot 3H		

WELLPATH DATA (273 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
9121.00	91.540	311.150	7394.89	2035.40	1120.69	-1745.25	1728956.54	14402252.18	39°39'27.7710"N	80°41'7.4728"W	2074.09	302.706	1.11	0.55	0.97
9212.00	90.860	310.300	7392.98	2126.25	1180.05	-1814.20	1728887.62	14402311.52	39°39'28.3600"N	80°41'8.3517"W	2164.22	303.042	1.20	-0.75	-0.93
9302.00	91.600	310.850	7391.05	2216.09	1238.57	-1882.54	1728819.30	14402370.02	39°39'28.9407"N	80°41'9.2229"W	2253.45	303.342	1.02	0.82	0.61
9391.00	92.060	311.410	7388.21	2304.94	1297.08	-1949.54	1728752.33	14402428.51	39°39'29.5213"N	80°41'10.0770"W	2341.61	303.637	0.81	0.52	0.63
9482.00	90.370	309.080	7386.28	2395.74	1355.86	-2018.98	1728682.92	14402487.26	39°39'30.1045"N	80°41'10.9622"W	2432.00	303.884	3.16	-1.86	-2.56
9572.00	91.080	311.340	7385.14	2485.55	1413.95	-2087.70	1728614.22	14402545.33	39°39'30.6810"N	80°41'11.8383"W	2521.46	304.109	2.63	0.79	2.51
9663.00	91.200	310.810	7383.33	2576.43	1473.73	-2156.29	1728545.66	14402605.08	39°39'31.2742"N	80°41'12.7126"W	2611.79	304.351	0.60	0.13	-0.58
9753.00	91.510	311.360	7381.20	2666.30	1532.86	-2224.11	1728477.87	14402664.19	39°39'31.8609"N	80°41'13.5770"W	2701.17	304.575	0.70	0.34	0.61
9842.00	91.910	310.820	7378.54	2755.17	1591.33	-2291.15	1728410.85	14402722.64	39°39'32.4410"N	80°41'14.4317"W	2789.57	304.782	0.75	0.45	-0.61
9931.00	91.660	311.360	7375.77	2844.02	1649.79	-2358.20	1728343.84	14402781.08	39°39'33.0211"N	80°41'15.2863"W	2878.00	304.977	0.67	-0.28	0.61
10021.00	91.780	311.230	7373.07	2933.90	1709.16	-2425.79	1728276.27	14402840.42	39°39'33.6102"N	80°41'16.1479"W	2967.43	305.168	0.20	0.13	-0.14
10110.00	91.970	311.850	7370.16	3022.78	1768.15	-2492.37	1728209.72	14402899.39	39°39'34.1954"N	80°41'16.9966"W	3055.85	305.353	0.73	0.21	0.70
10200.00	92.120	311.370	7366.94	3112.66	1827.88	-2559.61	1728142.50	14402959.09	39°39'34.7880"N	80°41'17.8538"W	3145.27	305.531	0.56	0.17	-0.53
10289.00	92.560	311.950	7363.31	3201.52	1886.98	-2626.05	1728076.09	14403018.18	39°39'35.3745"N	80°41'18.7006"W	3233.71	305.700	0.82	0.49	0.65
10378.00	92.150	311.080	7359.65	3290.38	1945.92	-2692.63	1728009.53	14403077.09	39°39'35.9592"N	80°41'19.5494"W	3322.18	305.855	1.08	-0.46	-0.98
10468.00	92.120	311.910	7356.30	3380.24	2005.51	-2760.00	1727942.19	14403136.66	39°39'36.5505"N	80°41'20.4081"W	3411.70	306.003	0.92	-0.03	0.92
10557.00	92.030	311.710	7353.08	3469.13	2064.81	-2826.29	1727875.92	14403195.93	39°39'37.1387"N	80°41'21.2531"W	3500.19	306.151	0.25	-0.10	-0.22
10647.00	91.750	311.050	7350.11	3559.00	2124.27	-2893.79	1727808.46	14403255.37	39°39'37.7287"N	80°41'22.1135"W	3589.78	306.282	0.80	-0.31	-0.73
10737.00	91.880	311.630	7347.26	3648.87	2183.69	-2961.32	1727740.95	14403314.76	39°39'38.3182"N	80°41'22.9745"W	3679.39	306.405	0.66	0.14	0.64
10829.00	92.150	311.490	7344.02	3740.74	2244.68	-3030.12	1727672.18	14403375.73	39°39'38.9234"N	80°41'23.8514"W	3770.97	306.531	0.33	0.29	-0.15
10919.00	91.600	310.530	7341.08	3830.59	2303.71	-3098.00	1727604.33	14403434.73	39°39'39.5090"N	80°41'24.7167"W	3860.65	306.635	1.23	-0.61	-1.07
11007.00	91.690	312.470	7338.55	3918.48	2361.99	-3163.88	1727538.47	14403493.00	39°39'40.0873"N	80°41'25.5565"W	3948.30	306.743	2.21	0.10	2.20
11100.00	91.720	313.640	7335.79	4011.43	2425.45	-3231.80	1727470.58	14403556.43	39°39'40.7168"N	80°41'26.4222"W	4040.71	306.888	1.26	0.03	1.26
11189.00	91.970	313.000	7332.92	4100.38	2486.48	-3296.52	1727405.89	14403617.44	39°39'41.3221"N	80°41'27.2471"W	4129.12	307.026	0.77	0.28	-0.72
11279.00	91.750	312.550	7330.00	4190.32	2547.57	-3362.54	1727339.88	14403678.50	39°39'41.9281"N	80°41'28.0886"W	4218.62	307.149	0.56	-0.24	-0.50
11368.00	91.750	312.840	7327.28	4279.26	2607.89	-3427.92	1727274.53	14403738.80	39°39'42.5264"N	80°41'28.9220"W	4307.18	307.263	0.33	0.00	0.33
11458.00	91.540	313.470	7324.70	4369.22	2669.42	-3493.55	1727208.93	14403800.31	39°39'43.1368"N	80°41'29.7585"W	4396.67	307.383	0.74	-0.23	0.70
11547.00	92.150	313.130	7321.83	4458.17	2730.43	-3558.29	1727144.21	14403861.29	39°39'43.7419"N	80°41'30.5836"W	4485.16	307.501	0.78	0.69	-0.38
11640.00	91.510	313.320	7318.86	4551.11	2794.09	-3626.02	1727076.51	14403924.92	39°39'44.3733"N	80°41'31.4469"W	4577.66	307.617	0.72	-0.69	0.20
11732.00	92.220	313.100	7315.87	4643.06	2857.04	-3693.04	1727009.52	14403987.86	39°39'44.9978"N	80°41'32.3010"W	4669.18	307.727	0.81	0.77	-0.24



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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]	Build Rate [°/100ft]	Turn Rate [°/100ft]
11822.00	91.480	314.690	7312.96	4733.01	2919.41	-3757.86	1726944.72	14404050.20	39°39'45.6163"N	80°41'33.1271"W	4758.62	307.843	1.95	-0.82	1.77
11913.00	91.880	314.760	7310.30	4823.96	2983.42	-3822.49	1726880.12	14404114.18	39°39'46.2511"N	80°41'33.9507"W	4848.94	307.972	0.45	0.44	0.08
12006.00	91.540	314.950	7307.52	4916.90	3048.98	-3888.38	1726814.25	14404179.72	39°39'46.9013"N	80°41'34.7905"W	4941.24	308.101	0.42	-0.37	0.20
12094.00	91.880	314.630	7304.89	5004.85	3110.95	-3950.81	1726751.85	14404241.67	39°39'47.5159"N	80°41'35.5860"W	5028.61	308.218	0.53	0.39	-0.36
12184.00	91.750	314.930	7302.04	5094.79	3174.32	-4014.66	1726688.02	14404305.00	39°39'48.1442"N	80°41'36.3997"W	5117.99	308.333	0.36	-0.14	0.33
12276.00	91.480	314.510	7299.45	5186.74	3239.03	-4080.00	1726622.70	14404369.69	39°39'48.7859"N	80°41'37.2324"W	5209.39	308.445	0.54	-0.29	-0.46
12368.00	91.140	314.670	7297.35	5278.71	3303.60	-4145.50	1726557.23	14404434.23	39°39'49.4263"N	80°41'38.0672"W	5300.84	308.552	0.41	-0.37	0.17
12460.00	91.660	314.920	7295.10	5370.66	3368.40	-4210.77	1726491.99	14404499.01	39°39'50.0689"N	80°41'38.8989"W	5392.28	308.658	0.63	0.57	0.27
12549.00	91.570	314.900	7292.59	5459.61	3431.20	-4273.78	1726429.01	14404561.79	39°39'50.6917"N	80°41'39.7018"W	5480.72	308.759	0.10	-0.10	-0.02
12639.00	91.630	315.230	7290.08	5549.55	3494.89	-4337.32	1726365.49	14404625.45	39°39'51.3233"N	80°41'40.5116"W	5570.15	308.861	0.37	0.07	0.37
12731.00	91.510	315.180	7287.56	5641.49	3560.15	-4402.12	1726300.72	14404690.69	39°39'51.9704"N	80°41'41.3373"W	5661.57	308.964	0.14	-0.13	-0.05
12819.00	91.450	315.060	7285.28	5729.44	3622.49	-4464.19	1726238.67	14404753.00	39°39'52.5886"N	80°41'42.1284"W	5749.04	309.058	0.15	-0.07	-0.14
12912.00	91.480	315.210	7282.91	5822.38	3688.38	-4529.77	1726173.11	14404818.87	39°39'53.2420"N	80°41'42.9641"W	5841.49	309.154	0.16	0.03	0.16
13004.00	91.420	314.890	7280.58	5914.33	3753.47	-4594.75	1726108.16	14404883.93	39°39'53.8874"N	80°41'43.7922"W	5932.98	309.246	0.35	-0.07	-0.35
13097.00	91.600	315.140	7278.13	6007.28	3819.23	-4660.47	1726042.46	14404949.66	39°39'54.5395"N	80°41'44.6297"W	6025.49	309.334	0.33	0.19	0.27
13190.00	91.510	315.010	7275.60	6100.22	3885.05	-4726.12	1725976.84	14405015.46	39°39'55.1922"N	80°41'45.4664"W	6117.99	309.421	0.17	-0.10	-0.14
13280.00	91.630	315.190	7273.14	6190.16	3948.78	-4789.63	1725913.36	14405079.16	39°39'55.8241"N	80°41'46.2757"W	6207.52	309.504	0.24	0.13	0.20
13371.00	91.380	315.370	7270.75	6281.10	4013.41	-4853.64	1725849.38	14405143.77	39°39'56.4651"N	80°41'47.0914"W	6298.04	309.587	0.34	-0.27	0.20
13464.00	91.450	315.420	7268.45	6374.03	4079.61	-4918.92	1725784.12	14405209.94	39°39'57.1214"N	80°41'47.9234"W	6390.54	309.671	0.09	0.08	0.05
13556.00	91.450	314.940	7266.12	6465.98	4144.84	-4983.75	1725719.31	14405275.15	39°39'57.7683"N	80°41'48.7495"W	6482.09	309.749	0.52	0.00	-0.52
13648.00	91.200	314.420	7264.00	6557.94	4209.52	-5049.15	1725653.94	14405339.80	39°39'58.4096"N	80°41'49.5830"W	6573.73	309.818	0.63	-0.27	-0.57
13737.00	91.790	315.500	7261.67	6646.89	4272.38	-5112.10	1725591.01	14405402.64	39°39'59.0330"N	80°41'50.3853"W	6662.34	309.887	1.38	0.66	1.21
13828.00	91.230	315.140	7259.28	6737.83	4337.06	-5176.07	1725527.07	14405467.29	39°39'59.6744"N	80°41'51.2005"W	6752.91	309.960	0.73	-0.62	-0.40
13918.00	91.420	315.170	7257.20	6827.78	4400.86	-5239.52	1725463.65	14405531.06	39°40'0.3070"N	80°41'52.0091"W	6842.52	310.028	0.21	0.21	0.03
14009.00	91.420	315.100	7254.94	6918.72	4465.34	-5303.69	1725399.50	14405595.52	39°40'0.9464"N	80°41'52.8270"W	6933.14	310.095	0.08	0.00	-0.08
14102.00	91.480	315.070	7252.59	7011.67	4531.17	-5369.33	1725333.88	14405661.33	39°40'1.5992"N	80°41'53.6636"W	7025.76	310.161	0.07	0.06	-0.03
14194.00	91.850	315.210	7249.91	7103.61	4596.36	-5434.20	1725269.04	14405726.49	39°40'2.2456"N	80°41'54.4903"W	7117.38	310.225	0.43	0.40	0.15
14287.00	91.260	315.530	7247.39	7196.54	4662.52	-5499.51	1725203.75	14405792.62	39°40'2.9016"N	80°41'55.3226"W	7209.97	310.291	0.72	-0.63	0.34
14378.00	91.380	314.870	7245.29	7287.48	4727.07	-5563.62	1725139.68	14405857.15	39°40'3.5417"N	80°41'56.1396"W	7300.62	310.353	0.74	0.13	-0.73
14471.00	91.390	314.920	7243.05	7380.44	4792.69	-5629.48	1725073.84	14405922.74	39°40'4.1924"N	80°41'56.9790"W	7393.30	310.410	0.05	0.01	0.05



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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Constance Taylor WTZ 3H
Field	Wetzel	API	47103033530000
Facility	Constance Taylor WTZ Pad	Wellbore	Constance Taylor WTZ 3H AWB
Slot	Slot 3H		

WELLPATH DATA (273 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
14563.00	91.850	315.170	7240.45	7472.38	4857.77	-5694.45	1725008.89	14405987.80	39°40'4.8377"N	80°41'57.8071"W	7484.97	310.467	0.57	0.50	0.27
14653.00	91.540	314.860	7237.78	7562.32	4921.40	-5758.05	1724945.32	14406051.40	39°40'5.4686"N	80°41'58.6177"W	7574.65	310.520	0.49	-0.34	-0.34
14741.00	91.850	314.620	7235.18	7650.27	4983.31	-5820.53	1724882.86	14406113.29	39°40'6.0826"N	80°41'59.4140"W	7662.37	310.569	0.45	0.35	-0.27
14831.00	91.750	315.380	7232.35	7740.20	5046.92	-5884.14	1724819.28	14406176.87	39°40'6.7133"N	80°42'0.2247"W	7752.06	310.620	0.85	-0.11	0.84
14923.00	91.660	315.030	7229.62	7832.14	5112.18	-5948.93	1724754.51	14406242.11	39°40'7.3604"N	80°42'1.0505"W	7843.73	310.674	0.39	-0.10	-0.38
15016.00	91.510	315.010	7227.04	7925.08	5177.94	-6014.64	1724688.83	14406307.84	39°40'8.0124"N	80°42'1.8880"W	7936.43	310.725	0.16	-0.16	-0.02
15107.00	91.380	314.920	7224.75	8016.03	5242.23	-6079.01	1724624.49	14406372.10	39°40'8.6499"N	80°42'2.7084"W	8027.16	310.773	0.17	-0.14	-0.10
15199.00	91.910	315.320	7222.11	8107.97	5307.39	-6143.90	1724559.62	14406437.24	39°40'9.2960"N	80°42'3.5354"W	8118.86	310.822	0.72	0.58	0.43
15292.00	91.200	314.140	7219.58	8200.92	5372.81	-6209.94	1724493.60	14406502.64	39°40'9.9448"N	80°42'4.3772"W	8211.61	310.866	1.48	-0.76	-1.27
15384.00	91.380	314.680	7217.51	8292.89	5437.18	-6275.65	1724427.93	14406566.97	39°40'10.5830"N	80°42'5.2147"W	8303.41	310.905	0.62	0.20	0.59
15477.00	90.860	314.360	7215.70	8385.86	5502.37	-6341.94	1724361.66	14406632.14	39°40'11.2295"N	80°42'6.0597"W	8396.21	310.945	0.66	-0.56	-0.34
15569.00	90.950	314.510	7214.24	8477.85	5566.77	-6407.63	1724296.00	14406696.52	39°40'11.8681"N	80°42'6.8970"W	8488.03	310.983	0.19	0.10	0.16
15661.00	91.110	314.700	7212.59	8569.82	5631.37	-6473.12	1724230.53	14406761.09	39°40'12.5087"N	80°42'7.7317"W	8579.83	311.022	0.27	0.17	0.21
15754.00	91.320	315.020	7210.62	8662.78	5696.95	-6539.02	1724164.65	14406826.65	39°40'13.1590"N	80°42'8.5718"W	8672.60	311.063	0.41	0.23	0.34
15846.00	91.200	314.840	7208.59	8754.74	5761.91	-6604.14	1724099.56	14406891.58	39°40'13.8031"N	80°42'9.4018"W	8764.37	311.104	0.24	-0.13	-0.20
15939.00	91.320	315.170	7206.55	8847.70	5827.66	-6669.88	1724033.85	14406957.31	39°40'14.4550"N	80°42'10.2397"W	8857.14	311.145	0.38	0.13	0.35
16027.00	90.860	315.090	7204.87	8935.66	5890.02	-6731.95	1723971.80	14407019.64	39°40'15.0733"N	80°42'11.0308"W	8944.91	311.184	0.53	-0.52	-0.09
16118.00	90.710	314.560	7203.63	9026.64	5954.16	-6796.49	1723907.29	14407083.75	39°40'15.7094"N	80°42'11.8535"W	9035.72	311.220	0.61	-0.16	-0.58
16209.00	91.200	314.970	7202.11	9117.61	6018.23	-6861.09	1723842.71	14407147.80	39°40'16.3447"N	80°42'12.6769"W	9126.54	311.256	0.70	0.54	0.45
16301.00	90.920	314.740	7200.41	9209.58	6083.11	-6926.30	1723777.53	14407212.65	39°40'16.9880"N	80°42'13.5080"W	9218.34	311.292	0.39	-0.30	-0.25
16391.00	91.140	315.230	7198.79	9299.54	6146.72	-6989.94	1723713.91	14407276.24	39°40'17.6187"N	80°42'14.3193"W	9308.14	311.327	0.60	0.24	0.54
16482.00	90.650	315.080	7197.37	9390.51	6211.23	-7054.11	1723649.77	14407340.73	39°40'18.2584"N	80°42'15.1371"W	9398.93	311.364	0.56	-0.54	-0.16
16574.00	91.450	314.790	7195.68	9482.47	6276.20	-7119.22	1723584.68	14407405.67	39°40'18.9026"N	80°42'15.9672"W	9490.73	311.399	0.92	0.87	-0.32
16667.00	91.230	315.110	7193.51	9575.43	6341.89	-7185.02	1723518.91	14407471.33	39°40'19.5539"N	80°42'16.8059"W	9583.53	311.433	0.42	-0.24	0.34
16759.00	90.980	314.780	7191.73	9667.39	6406.87	-7250.13	1723453.83	14407536.28	39°40'20.1982"N	80°42'17.6357"W	9675.34	311.467	0.45	-0.27	-0.36
16849.00	91.510	315.110	7189.78	9757.35	6470.43	-7313.81	1723390.17	14407599.82	39°40'20.8284"N	80°42'18.4475"W	9765.16	311.499	0.69	0.59	0.37
16940.00	91.230	314.960	7187.60	9848.30	6534.80	-7378.10	1723325.90	14407664.17	39°40'21.4667"N	80°42'19.2670"W	9855.96	311.531	0.35	-0.31	-0.16
17032.00	91.110	314.600	7185.72	9940.27	6599.59	-7443.39	1723260.64	14407728.93	39°40'22.1091"N	80°42'20.0992"W	9947.79	311.561	0.41	-0.13	-0.39
17124.00	91.110	314.860	7183.94	10032.24	6664.32	-7508.74	1723195.32	14407793.64	39°40'22.7510"N	80°42'20.9322"W	10039.64	311.590	0.28	0.00	0.28
17216.00	91.290	315.250	7182.02	10124.20	6729.42	-7573.71	1723130.37	14407858.71	39°40'23.3965"N	80°42'21.7605"W	10131.45	311.622	0.47	0.20	0.42



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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Constance Taylor WTZ 3H
Field	Wetzel	API	47103033530000
Facility	Constance Taylor WTZ Pad	Wellbore	Constance Taylor WTZ 3H AWB
Slot	Slot 3H		

WELLPATH DATA (273 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
17306.00	91.420	315.350	7179.89	10214.14	6793.38	-7637.00	1723067.10	14407922.64	39°40'24.0306"N	80°42'22.5672"W	10221.24	311.654	0.18	0.14	0.11
17394.00	91.350	314.660	7177.76	10302.10	6855.59	-7699.20	1723004.93	14407984.83	39°40'24.6474"N	80°42'23.3601"W	10309.07	311.683	0.79	-0.08	-0.78
17483.00	91.570	313.990	7175.49	10391.06	6917.76	-7762.85	1722941.30	14408046.97	39°40'25.2638"N	80°42'24.1715"W	10397.94	311.705	0.79	0.25	-0.75
17576.00	91.290	312.960	7173.17	10484.03	6981.72	-7830.32	1722873.86	14408110.91	39°40'25.8982"N	80°42'25.0316"W	10490.87	311.721	1.15	-0.30	-1.11
17668.00	91.570	313.160	7170.88	10575.99	7044.52	-7897.52	1722806.69	14408173.68	39°40'26.5209"N	80°42'25.8884"W	10582.82	311.733	0.37	0.30	0.22
17761.00	91.410	313.110	7168.46	10668.96	7108.08	-7965.36	1722738.88	14408237.22	39°40'27.1513"N	80°42'26.7534"W	10675.76	311.745	0.18	-0.17	-0.05
17853.00	91.320	312.960	7166.27	10760.92	7170.85	-8032.59	1722671.67	14408299.97	39°40'27.7738"N	80°42'27.6105"W	10767.71	311.756	0.19	-0.10	-0.16
17945.00	91.690	313.280	7163.85	10852.88	7233.71	-8099.72	1722604.57	14408362.80	39°40'28.3972"N	80°42'28.4664"W	10859.65	311.767	0.53	0.40	0.35
18036.00	91.320	313.020	7161.46	10943.85	7295.93	-8166.08	1722538.23	14408424.99	39°40'29.0142"N	80°42'29.3126"W	10950.59	311.779	0.50	-0.41	-0.29
18127.00	91.510	313.300	7159.21	11034.81	7358.15	-8232.44	1722471.90	14408487.20	39°40'29.6313"N	80°42'30.1587"W	11041.54	311.790	0.37	0.21	0.31
18220.00	91.110	312.700	7157.09	11127.78	7421.56	-8300.44	1722403.93	14408550.58	39°40'30.2602"N	80°42'31.0257"W	11134.49	311.800	0.78	-0.43	-0.65
18312.00	91.350	312.870	7155.11	11219.74	7484.04	-8367.94	1722336.45	14408613.03	39°40'30.8798"N	80°42'31.8864"W	11226.46	311.809	0.32	0.26	0.18
18401.00	91.140	312.930	7153.18	11308.71	7544.61	-8433.12	1722271.29	14408673.58	39°40'31.4805"N	80°42'32.7175"W	11315.42	311.817	0.25	-0.24	0.07
18492.00	91.570	313.460	7151.03	11399.68	7606.88	-8499.45	1722205.00	14408735.83	39°40'32.0980"N	80°42'33.5632"W	11406.37	311.828	0.75	0.47	0.58
18583.00	91.140	312.960	7148.87	11490.65	7669.17	-8565.75	1722138.72	14408798.09	39°40'32.7157"N	80°42'34.4086"W	11497.32	311.839	0.72	-0.47	-0.55
18676.00	91.170	313.180	7147.00	11583.62	7732.66	-8633.68	1722070.82	14408861.56	39°40'33.3454"N	80°42'35.2747"W	11590.28	311.849	0.24	0.03	0.24
18765.00	91.170	313.150	7145.18	11672.60	7793.54	-8698.58	1722005.94	14408922.41	39°40'33.9491"N	80°42'36.1022"W	11679.23	311.859	0.03	0.00	-0.03
18855.00	91.230	313.210	7143.30	11762.58	7855.11	-8764.19	1721940.35	14408983.96	39°40'34.5597"N	80°42'36.9388"W	11769.19	311.869	0.09	0.07	0.07
18943.00	91.290	313.290	7141.36	11850.55	7915.39	-8828.28	1721876.30	14409044.22	39°40'35.1575"N	80°42'37.7559"W	11857.14	311.879	0.11	0.07	0.09
19033.00	90.740	312.940	7139.77	11940.53	7976.89	-8893.96	1721810.64	14409105.69	39°40'35.7674"N	80°42'38.5935"W	11947.11	311.889	0.72	-0.61	-0.39
19125.00	90.990	313.250	7138.38	12032.51	8039.74	-8961.14	1721743.49	14409168.52	39°40'36.3906"N	80°42'39.4500"W	12039.08	311.898	0.43	0.27	0.34
19214.00	91.080	313.130	7136.77	12121.49	8100.64	-9026.01	1721678.64	14409229.40	39°40'36.9946"N	80°42'40.2773"W	12128.04	311.907	0.17	0.10	-0.13
19306.00	90.830	313.050	7135.24	12213.47	8163.48	-9093.19	1721611.49	14409292.21	39°40'37.6178"N	80°42'41.1338"W	12220.01	311.916	0.29	-0.27	-0.09
19398.00	90.770	315.180	7133.95	12305.46	8227.52	-9159.23	1721545.47	14409356.22	39°40'38.2527"N	80°42'41.9758"W	12311.93	311.933	2.32	-0.07	2.32
19487.00	91.020	314.830	7132.56	12394.43	8290.45	-9222.15	1721482.58	14409419.12	39°40'38.8766"N	80°42'42.7780"W	12400.79	311.955	0.48	0.28	-0.39
19577.00	90.890	314.960	7131.06	12484.40	8353.96	-9285.90	1721418.86	14409482.61	39°40'39.5063"N	80°42'43.5907"W	12490.66	311.976	0.20	-0.14	0.14
19668.00	90.830	314.760	7129.70	12575.37	8418.14	-9350.39	1721354.38	14409546.77	39°40'40.1427"N	80°42'44.4129"W	12581.53	311.997	0.23	-0.07	-0.22
19758.00	90.860	314.890	7128.91	12665.35	8481.58	-9414.22	1721290.58	14409610.18	39°40'40.7717"N	80°42'45.2266"W	12671.41	312.017	0.15	0.03	0.14
19849.00	90.980	315.170	7126.91	12756.31	8545.95	-9478.53	1721226.30	14409674.53	39°40'41.4099"N	80°42'46.0464"W	12762.28	312.038	0.33	0.13	0.31
19941.00	90.920	314.660	7125.38	12848.28	8610.90	-9543.67	1721161.19	14409739.45	39°40'42.0538"N	80°42'46.8769"W	12854.15	312.059	0.56	-0.07	-0.55



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Constance Taylor WTZ 3H AWP Proj: 22856'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	Constance Taylor WTZ 3H
Field	Wetzel	API	47103033530000
Facility	Constance Taylor WTZ Pad	Wellbore	Constance Taylor WTZ 3H AWB
Slot	Slot 3H		

WELLPATH DATA (273 stations)															
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
20033.00	91.110	314.820	7123.75	12940.26	8675.65	-9609.00	1721095.88	14409804.17	39°40'42.6958"N	80°42'47.7099"W	12946.04	312.078	0.27	0.21	0.17
20126.00	91.080	314.990	7121.98	13033.22	8741.29	-9674.86	1721030.04	14409869.79	39°40'43.3465"N	80°42'48.5496"W	13038.91	312.098	0.19	-0.03	0.18
20216.00	90.580	314.340	7120.67	13123.20	8804.55	-9738.87	1720966.06	14409933.02	39°40'43.9737"N	80°42'49.3656"W	13128.81	312.116	0.91	-0.56	-0.72
20306.00	91.110	314.590	7119.35	13213.18	8867.58	-9803.09	1720901.87	14409996.03	39°40'44.5987"N	80°42'50.1844"W	13218.72	312.132	0.65	0.59	0.28
20397.00	91.170	314.550	7117.54	13304.16	8931.43	-9867.90	1720837.08	14410059.86	39°40'45.2318"N	80°42'51.0108"W	13309.62	312.148	0.08	0.07	-0.04
20488.00	91.170	314.760	7115.68	13395.13	8995.38	-9932.62	1720772.38	14410123.78	39°40'45.8658"N	80°42'51.8360"W	13400.52	312.165	0.23	0.00	0.23
20578.00	91.140	314.830	7113.86	13485.10	9058.77	-9996.48	1720708.55	14410187.15	39°40'46.4943"N	80°42'52.6501"W	13490.40	312.183	0.08	-0.03	0.08
20669.00	91.170	315.050	7112.03	13576.06	9123.04	-10060.88	1720644.18	14410251.39	39°40'47.1315"N	80°42'53.4711"W	13581.28	312.201	0.24	0.03	0.24
20759.00	91.290	314.650	7110.10	13666.02	9186.50	-10124.67	1720580.41	14410314.82	39°40'47.7606"N	80°42'54.2845"W	13671.16	312.219	0.46	0.13	-0.44
20850.00	91.540	314.920	7107.85	13756.98	9250.58	-10189.24	1720515.87	14410378.88	39°40'48.3960"N	80°42'55.1077"W	13762.04	312.236	0.40	0.27	0.30
20940.00	91.320	314.990	7105.60	13846.93	9314.15	-10252.91	1720452.22	14410442.43	39°40'49.0263"N	80°42'55.9195"W	13851.92	312.253	0.26	-0.24	0.08
21032.00	91.390	315.190	7103.43	13938.88	9379.29	-10317.84	1720387.32	14410507.54	39°40'49.6720"N	80°42'56.7473"W	13943.78	312.272	0.23	0.08	0.22
21124.00	91.350	314.710	7101.23	14030.84	9444.27	-10382.93	1720322.25	14410572.49	39°40'50.3162"N	80°42'57.5772"W	14035.65	312.290	0.52	-0.04	-0.52
21216.00	91.480	315.100	7098.96	14122.79	9509.20	-10448.07	1720257.13	14410637.40	39°40'50.9599"N	80°42'58.4078"W	14127.53	312.307	0.45	0.14	0.42
21306.00	91.230	314.830	7096.83	14212.75	9572.78	-10511.74	1720193.50	14410700.95	39°40'51.5903"N	80°42'59.2194"W	14217.41	312.323	0.41	-0.28	-0.30
21398.00	90.580	314.380	7095.38	14304.73	9637.37	-10577.23	1720128.03	14410765.52	39°40'52.2307"N	80°43'0.0545"W	14309.32	312.338	0.86	-0.71	-0.49
21488.00	90.680	314.580	7094.39	14394.72	9700.43	-10641.44	1720063.85	14410828.55	39°40'52.8559"N	80°43'0.8732"W	14399.25	312.351	0.25	0.11	0.22
21578.00	90.830	314.900	7093.20	14484.70	9763.77	-10705.36	1719999.95	14410891.87	39°40'53.4839"N	80°43'1.6883"W	14489.17	312.366	0.39	0.17	0.36
21669.00	90.680	314.610	7092.00	14575.67	9827.84	-10769.98	1719935.36	14410955.91	39°40'54.1191"N	80°43'2.5121"W	14580.08	312.381	0.36	-0.16	-0.32
21759.00	90.680	314.710	7090.93	14665.66	9891.10	-10833.99	1719871.37	14411019.14	39°40'54.7482"N	80°43'3.3283"W	14670.01	312.395	0.11	0.00	0.11
21850.00	90.860	314.930	7089.71	14756.63	9955.23	-10898.53	1719806.86	14411083.26	39°40'55.3821"N	80°43'4.1513"W	14760.92	312.410	0.31	0.20	0.24
21941.00	90.830	315.260	7088.37	14847.60	10019.68	-10962.76	1719742.65	14411147.68	39°40'56.0210"N	80°43'4.9702"W	14851.81	312.427	0.36	-0.03	0.36
22031.00	90.550	314.890	7087.28	14937.57	10083.40	-11026.31	1719679.12	14411211.37	39°40'56.6527"N	80°43'5.7805"W	14941.70	312.442	0.52	-0.31	-0.41
22122.00	90.950	314.700	7086.09	15028.55	10147.51	-11090.88	1719614.58	14411275.46	39°40'57.2883"N	80°43'6.6039"W	15032.62	312.457	0.49	0.44	-0.21
22213.00	90.740	315.020	7084.75	15119.52	10211.69	-11155.38	1719550.11	14411339.61	39°40'57.9246"N	80°43'7.4262"W	15123.53	312.471	0.42	-0.23	0.35
22305.00	90.620	314.490	7083.66	15211.50	10276.46	-11220.71	1719484.80	14411404.36	39°40'58.5667"N	80°43'8.2592"W	15215.45	312.485	0.59	-0.13	-0.58
22395.00	90.710	315.140	7082.61	15301.48	10339.89	-11284.55	1719420.99	14411467.76	39°40'59.1956"N	80°43'9.0732"W	15305.37	312.499	0.73	0.10	0.72
22486.00	90.860	314.780	7081.37	15392.46	10404.19	-11348.93	1719356.63	14411532.03	39°40'59.8330"N	80°43'9.8942"W	15396.28	312.513	0.43	0.16	-0.40
22577.00	90.680	314.510	7080.14	15483.44	10468.13	-11413.67	1719291.92	14411595.95	39°41'0.4669"N	80°43'10.7197"W	15487.21	312.526	0.36	-0.20	-0.30
22667.00	90.060	314.680	7079.56	15573.43	10531.31	-11477.76	1719227.86	14411659.11	39°41'1.0933"N	80°43'11.5369"W	15577.15	312.538	0.71	-0.69	0.19



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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Constance Taylor WTZ 3H
Field	Wetzel	API	47103033530000
Facility	Constance Taylor WTZ Pad	Wellbore	Constance Taylor WTZ 3H AWB
Slot	Slot 3H		

WELLPATH DATA (273 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
22758.00	90.310	314.630	7079.27	15664.41	10595.27	-11542.49	1719163.15	14411723.04	39°41'1.7274"N	80°43'12.3623"W	15668.08	312.550	0.28	0.27	-0.05
22831.00	90.460	315.150	7078.78	15737.40	10646.79	-11594.21	1719111.45	14411774.54	39°41'2.2382"N	80°43'13.0217"W	15741.02	312.561	0.74	0.21	0.71
22856.00‡	90.460	315.150	7078.58	15762.39	10664.51	-11611.84	1719093.83	14411792.26	39°41'2.4139"N	80°43'13.2465"W	15766.00	312.565	0.00	0.00	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Constance Taylor WTZ 3H AWB Ref Wellpath: Constance Taylor WTZ 3H AWP Proj: 22856'

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]
20in Conductor	26.00	100.00	74.00	26.00	100.00	0.00	0.00	0.09	0.07
17.5in Open Hole	100.00	470.00	370.00	100.00	470.00	0.09	0.07	-0.03	1.08
13.375in Casing Surface	26.00	470.00	444.00	26.00	470.00	0.00	0.00	-0.03	1.08
12.25in Open Hole	470.00	2934.00	2464.00	470.00	2927.20	-0.03	1.08	-51.28	-154.16
9.625in Casing Intermediate	26.00	2934.00	2908.00	26.00	2927.20	0.00	0.00	-51.28	-154.16
8.75in Open Hole	2934.00	4809.00	1875.00	2927.20	4801.63	-51.28	-154.16	-67.08	-145.54
8.5in Open Hole	4809.00	22856.00	18047.00	4801.63	7078.58	-67.08	-145.54	10664.51	-11611.84
5.5in Casing Production	26.00	22856.00	22830.00	26.00	7078.58	0.00	0.00	10664.51	-11611.84



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REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	Constance Taylor WTZ 3H
Field	Wetzel	API	47103033530000
Facility	Constance Taylor WTZ Pad	Wellbore	Constance Taylor WTZ 3H AWB
Slot	Slot 3H		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Constance Taylor WTZ 3H BHL Rev-3	7117.76	10670.24	-11606.00	1719099.67	14411797.99	39°41'2.4703"N	80°43'13.1716"W	point
Cosntance Taylor WTZ 3H LP Rev-1	7433.00	262.00	-748.15	1729953.25	14401393.83	39°39'19.2499"N	80°40'54.7628"W	point

WELLPATH COMPOSITION - Ref Wellbore: Constance Taylor WTZ 3H AWB Ref Wellpath: Constance Taylor WTZ 3H AWP Proj: 22856'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
26.00	450.00	Gyrodata 2015 - GC+WIR+DPIPE	01_Gyrodata <17 1/2"> (100'-450')	Constance Taylor WTZ 3H AWB	10/20/2020
450.00	569.00	Gyrodata 2015 - GC+WIR+DPIPE	02_Gyrodata <12 1/4"> (475'-569')	Constance Taylor WTZ 3H AWB	10/20/2020
569.00	2849.00	OWSG MWD rev2 + HRGM	03_Premier MWD <12 1/4"> (674'-2849')	Constance Taylor WTZ 3H AWB	10/20/2020
2849.00	4662.00	OWSG MWD rev2 + HRGM	04_Premier MWD <8 3/4"> (2950'-4662')	Constance Taylor WTZ 3H AWB	10/20/2020
4662.00	22856.00	BH AutoTrak Curve (2019) (Short spacing)	05_BH AT Curve <8 1/2"> (4784'-22831')	Constance Taylor WTZ 3H AWB	10/20/2020



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Constance Taylor WTZ 3H AWP Proj: 22856'

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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Constance Taylor WTZ 3H
Field	Wetzel	API	47103033530000
Facility	Constance Taylor WTZ Pad	Wellbore	Constance Taylor WTZ 3H AWB
Slot	Slot 3H		

COMMENTS

Wellpath general comments
API: 47-103-03353-0000
BH Job #: 110608047
Rig: SDC 41
Duration: 10/22/2020 - 10/28/2020

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