

SWN PRODUCTION COMPANY, LLC

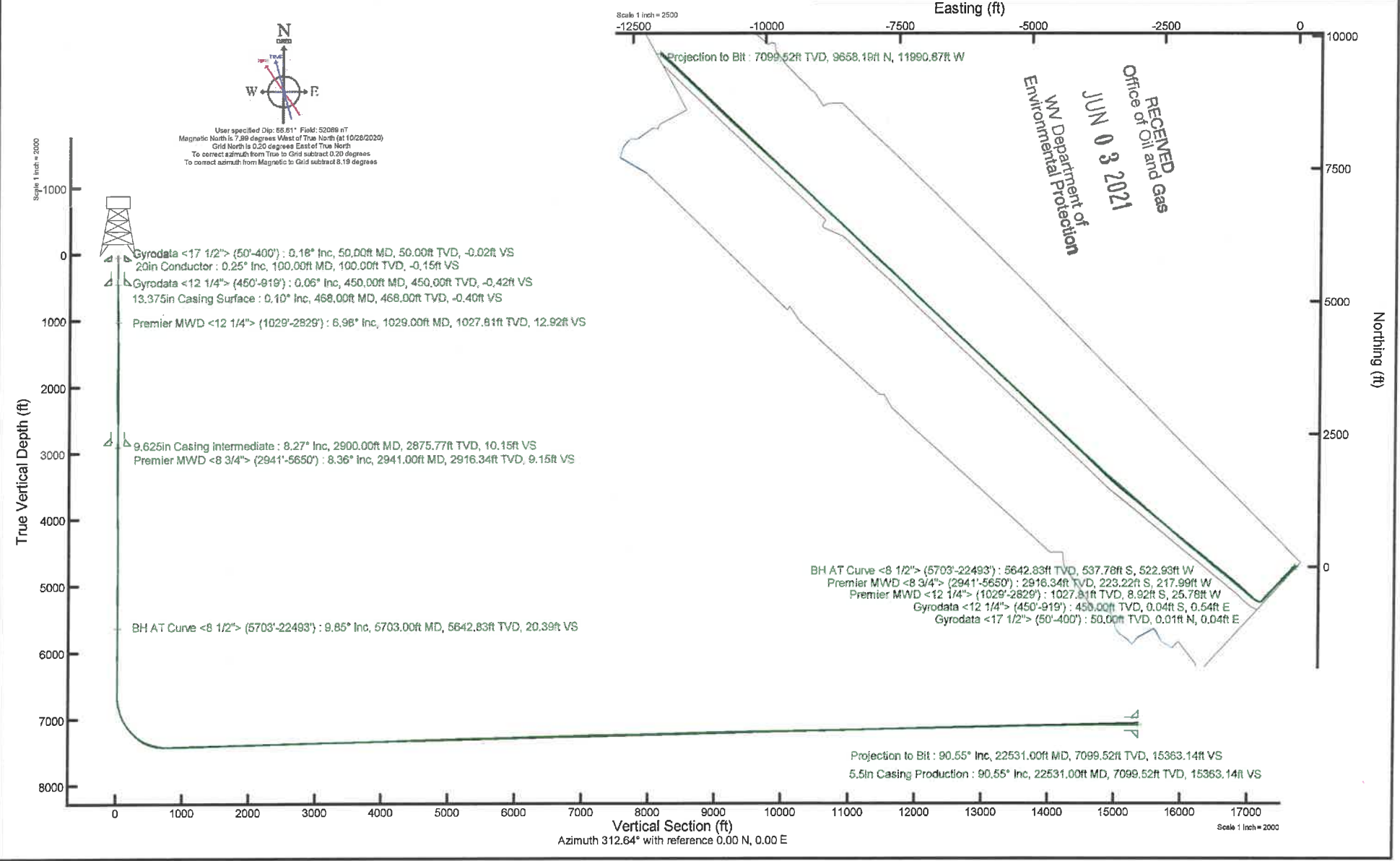
Location: Wetzel County, WV Slot: Slot 1H
 Field: Wetzel Well: Constance Taylor WTZ 1H
 Facility: Constance Taylor WTZ Pad Wellbore: Constance Taylor WTZ 1H PWB



Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Constance Taylor WTZ Pad	1730676.683	14401131.208	39°39'16.6280"N	80°40'45.5230"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Longitude
Slot 1H	-10.37	32.97	1730709.535	14401120.847	80°40'45.1020"W
SDC 41 (KB) to Ground level (At Slot: Slot 1H)			26ft		
Mean Sea Level to Ground level (At Slot: Slot 1H)			-1430ft		
SDC 41 (KB) to Mean Sea Level			1456ft		

API: 47-103-03352-0000
 BH Job #: 110614099
 Rig: SDC 41
 Duration: 11/07/2020 - 11/11/2020

Plot reference wellpath is Constance Taylor WTZ 1H PWP Rev-A.0	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 1H): -1430 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: atarjen on 2020-11-12; Database: WA_MPL_EASTERNUS_Deth



REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	Constance Taylor WTZ 1H
Field	Wetzel	API	47103033520000
Facility	Constance Taylor WTZ Pad	Wellbore	Constance Taylor WTZ 1H AWB
Slot	Slot 1H		

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	11/12/2020 at 4:24:55 PM
Convergence at slot	0.20° East	Database	WA_MPL_EASTERNUX_Defn

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-10.37	32.97	1730709.54	14401120.85	39°39'16.5244"N	80°40'45.1020"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 1H)	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	312.64°

RECEIVED
 Office of Oil and Gas
JUN 03 2021
 WV Department of
 Environmental Protection

REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	Constance Taylor WTZ 1H
Field	Wetzel	API	47103033520000
Facility	Constance Taylor WTZ Pad	Wellbore	Constance Taylor WTZ 1H AWB
Slot	Slot 1H		

WELLPATH DATA (265 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	78.350	0.00	0.00	0.00	0.00	1730709.54	14401120.85	39°39'16.5244"N	80°40'45.1020"W	0.00	0.000	0.00	0.00	0.00
26.00	0.000	78.350	26.00	0.00	0.00	0.00	1730709.54	14401120.85	39°39'16.5244"N	80°40'45.1020"W	0.00	0.000	0.00	0.00	0.00
50.00	0.180	78.350	50.00	-0.02	0.01	0.04	1730709.57	14401120.86	39°39'16.5245"N	80°40'45.1015"W	0.04	78.350	0.75	0.75	0.00
100.00	0.250	92.430	100.00	-0.15	0.02	0.22	1730709.76	14401120.87	39°39'16.5246"N	80°40'45.0992"W	0.22	85.165	0.17	0.14	28.16
150.00	0.320	81.660	150.00	-0.32	0.03	0.47	1730710.01	14401120.88	39°39'16.5247"N	80°40'45.0960"W	0.47	85.805	0.18	0.14	-21.54
175.00	0.260	81.120	175.00	-0.40	0.05	0.60	1730710.13	14401120.90	39°39'16.5249"N	80°40'45.0944"W	0.60	84.976	0.24	-0.24	-2.16
200.00	0.060	106.510	200.00	-0.45	0.06	0.66	1730710.20	14401120.91	39°39'16.5250"N	80°40'45.0935"W	0.67	84.972	0.83	-0.80	101.56
225.00	0.150	157.740	225.00	-0.49	0.02	0.69	1730710.22	14401120.87	39°39'16.5246"N	80°40'45.0932"W	0.69	89.972	0.49	0.36	204.92
250.00	0.050	303.140	250.00	-0.51	0.00	0.69	1730710.23	14401120.85	39°39'16.5246"N	80°40'45.0932"W	0.69	89.995	0.77	-0.40	581.60
275.00	0.020	308.750	275.00	-0.49	0.01	0.68	1730710.21	14401120.86	39°39'16.5245"N	80°40'45.0933"W	0.68	89.261	0.12	-0.12	22.44
300.00	0.030	132.070	300.00	-0.50	0.01	0.68	1730710.22	14401120.85	39°39'16.5244"N	80°40'45.0933"W	0.68	89.402	0.20	0.04	-706.72
350.00	0.060	187.860	350.00	-0.52	-0.03	0.69	1730710.22	14401120.82	39°39'16.5241"N	80°40'45.0932"W	0.69	92.301	0.10	0.06	111.58
400.00	0.140	274.540	400.00	-0.49	-0.05	0.62	1730710.16	14401120.80	39°39'16.5239"N	80°40'45.0940"W	0.62	94.473	0.30	0.16	173.36
450.00	0.060	281.110	450.00	-0.42	-0.04	0.54	1730710.07	14401120.81	39°39'16.5240"N	80°40'45.0952"W	0.54	94.143	0.16	-0.16	13.14
471.00	0.110	343.120	471.00	-0.39	-0.02	0.52	1730710.05	14401120.83	39°39'16.5242"N	80°40'45.0954"W	0.52	91.920	0.46	0.24	295.29
500.00	0.320	301.620	500.00	-0.29	0.05	0.44	1730709.98	14401120.90	39°39'16.5249"N	80°40'45.0963"W	0.45	83.333	0.86	0.72	-143.10
550.00	0.450	296.250	550.00	0.04	0.21	0.15	1730709.68	14401121.06	39°39'16.5265"N	80°40'45.1001"W	0.26	34.807	0.27	0.26	-10.74
600.00	1.580	288.400	599.99	0.85	0.52	-0.68	1730708.85	14401121.36	39°39'16.5295"N	80°40'45.1107"W	0.86	307.079	2.27	2.26	-15.70
650.00	2.010	286.940	649.96	2.27	0.99	-2.18	1730707.36	14401121.84	39°39'16.5343"N	80°40'45.1298"W	2.39	294.448	0.86	0.86	-2.92
700.00	2.470	288.260	699.93	4.04	1.58	-4.04	1730705.50	14401122.43	39°39'16.5402"N	80°40'45.1536"W	4.34	291.399	0.93	0.92	2.64
750.00	2.960	279.180	749.87	6.10	2.13	-6.34	1730703.20	14401122.97	39°39'16.5456"N	80°40'45.1829"W	6.68	288.549	1.30	0.98	-18.16
800.00	3.630	264.140	799.79	8.23	2.17	-9.18	1730700.35	14401123.02	39°39'16.5462"N	80°40'45.2193"W	9.44	283.295	2.18	1.34	-30.08
850.00	4.140	262.350	849.67	10.43	1.77	-12.55	1730696.99	14401122.62	39°39'16.5423"N	80°40'45.2623"W	12.67	278.022	1.05	1.02	-3.58
900.00	5.050	238.780	899.52	12.19	0.39	-16.22	1730693.32	14401121.23	39°39'16.5288"N	80°40'45.3093"W	16.22	271.368	4.15	1.82	-47.14
919.00	5.310	233.470	918.44	12.59	-0.57	-17.64	1730691.90	14401120.28	39°39'16.5194"N	80°40'45.3276"W	17.65	268.151	2.87	1.37	-27.95
1029.00	6.980	217.270	1027.81	12.92	-8.92	-25.78	1730683.77	14401111.93	39°39'16.4372"N	80°40'45.4320"W	27.28	250.915	2.17	1.52	-14.73
1117.00	6.030	206.320	1115.25	11.12	-17.32	-31.07	1730678.48	14401103.54	39°39'16.3543"N	80°40'45.5000"W	35.57	240.863	1.77	-1.08	-12.44
1207.00	5.120	201.270	1204.82	8.33	-25.30	-34.62	1730674.93	14401095.56	39°39'16.2756"N	80°40'45.5458"W	42.88	233.843	1.15	-1.01	-5.61
1296.00	6.230	207.290	1293.38	5.61	-33.29	-38.27	1730671.28	14401087.57	39°39'16.1967"N	80°40'45.5929"W	50.73	228.984	1.41	1.25	6.76
1385.00	7.520	221.240	1381.75	4.18	-41.96	-44.33	1730665.22	14401078.90	39°39'16.1113"N	80°40'45.6707"W	61.04	226.571	2.36	1.45	15.67

RECEIVED
Office of Oil and Gas

JUN 03 2021

WV Department of
Environmental Protection

RECEIVED
Office of Oil and Gas

JUN 03 2021

WV Dep.
Environment

REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	Constance Taylor WTZ 1H
Field	Wetzel	API	4710303352000
Facility	Constance Taylor WTZ Pad	Wellbore	Constance Taylor WTZ 1H AWB
Slot	Slot 1H		

WELLPATH DATA (265 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]
1474.00	9.100	229.650	1469.81	4.90	-50.90	-53.53	1730656.02	14401069.97	39°39'16.0233"N	80°40'45.7888"W	73.87	226.444	2.24	1.78	9.45
1564.00	10.330	224.240	1558.52	6.00	-61.29	-64.59	1730644.97	14401059.58	39°39'15.9210"N	80°40'45.9306"W	89.04	226.501	1.70	1.37	-6.01
1653.00	10.980	218.300	1645.99	5.58	-73.66	-75.41	1730634.16	14401047.22	39°39'15.7991"N	80°40'46.0695"W	105.41	225.673	1.43	0.73	-6.67
1743.00	11.980	215.900	1734.19	3.83	-87.95	-86.20	1730623.37	14401032.93	39°39'15.6582"N	80°40'46.2081"W	123.15	224.423	1.23	1.11	-2.67
1832.00	9.060	211.070	1821.69	1.34	-101.44	-95.23	1730614.34	14401019.45	39°39'15.5253"N	80°40'46.3242"W	139.14	223.192	3.42	-3.28	-5.43
1922.00	7.800	209.570	1910.71	-1.46	-112.82	-101.90	1730607.67	14401008.07	39°39'15.4130"N	80°40'46.4100"W	152.03	222.089	1.42	-1.40	-1.67
2011.00	8.360	210.600	1998.83	-4.18	-123.64	-108.18	1730601.40	14400997.25	39°39'15.3063"N	80°40'46.4907"W	164.28	221.183	0.65	0.63	1.16
2101.00	7.930	218.200	2087.92	-6.02	-134.15	-115.35	1730594.23	14400986.75	39°39'15.2027"N	80°40'46.5829"W	176.92	220.690	1.29	-0.48	8.44
2191.00	7.980	234.480	2177.07	-5.22	-142.66	-124.27	1730585.31	14400978.24	39°39'15.1189"N	80°40'46.6974"W	189.20	221.059	2.50	0.06	18.09
2279.00	9.170	244.810	2264.09	-1.32	-149.20	-135.59	1730574.00	14400971.71	39°39'15.0547"N	80°40'46.8424"W	201.60	222.265	2.21	1.35	11.74
2368.00	10.510	240.960	2351.78	3.91	-156.16	-149.10	1730560.49	14400964.75	39°39'14.9864"N	80°40'47.0155"W	215.91	223.677	1.68	1.51	-4.33
2459.00	11.430	230.670	2441.12	7.78	-165.90	-163.34	1730546.26	14400955.01	39°39'14.8906"N	80°40'47.1979"W	232.81	224.554	2.37	1.01	-11.31
2547.00	11.640	230.640	2527.34	10.23	-177.06	-176.95	1730532.66	14400943.86	39°39'14.7808"N	80°40'47.3724"W	250.32	224.982	0.24	0.24	-0.03
2638.00	10.230	227.750	2616.69	12.23	-188.31	-190.03	1730519.58	14400932.61	39°39'14.6700"N	80°40'47.5401"W	267.53	225.260	1.66	-1.55	-3.18
2726.00	8.260	219.700	2703.55	12.60	-198.43	-199.85	1730509.76	14400922.49	39°39'14.5704"N	80°40'47.6662"W	281.63	225.204	2.67	-2.24	-9.15
2817.00	8.160	216.310	2793.62	11.55	-208.66	-207.85	1730501.77	14400912.26	39°39'14.4695"N	80°40'47.7689"W	294.52	224.888	0.54	-0.11	-3.73
2829.00	8.130	217.350	2805.49	11.38	-210.03	-208.87	1730500.75	14400910.90	39°39'14.4561"N	80°40'47.7820"W	296.20	224.842	1.25	-0.25	8.67
2941.00	8.360	212.050	2916.34	9.15	-223.22	-217.99	1730491.63	14400897.71	39°39'14.3260"N	80°40'47.8993"W	312.01	224.321	0.71	0.21	-4.73
3033.00	8.710	223.360	3007.33	8.01	-233.96	-226.33	1730483.30	14400886.98	39°39'14.2202"N	80°40'48.0063"W	325.51	224.050	1.86	0.38	12.29
3123.00	8.580	223.640	3096.30	8.21	-243.77	-235.64	1730473.99	14400877.17	39°39'14.1236"N	80°40'48.1258"W	339.04	224.028	0.15	-0.14	0.31
3215.00	8.560	221.680	3187.28	8.22	-253.85	-244.93	1730464.70	14400867.10	39°39'14.0243"N	80°40'48.2450"W	352.74	223.975	0.32	-0.02	-2.13
3304.00	8.370	219.810	3275.31	7.79	-263.77	-253.48	1730456.16	14400857.18	39°39'13.9265"N	80°40'48.3548"W	365.82	223.860	0.38	-0.21	-2.10
3394.00	9.090	225.430	3364.26	7.81	-273.79	-262.74	1730446.90	14400847.16	39°39'13.8278"N	80°40'48.4737"W	379.47	223.819	1.24	0.80	6.24
3484.00	9.470	222.750	3453.09	8.17	-284.22	-272.83	1730436.81	14400836.74	39°39'13.7251"N	80°40'48.6032"W	393.97	223.828	0.64	0.42	-2.98
3575.00	9.430	230.200	3542.86	9.17	-294.49	-283.64	1730426.01	14400826.47	39°39'13.6240"N	80°40'48.7418"W	408.87	223.925	1.34	-0.04	8.19
3666.00	8.970	227.860	3632.69	10.79	-304.02	-294.63	1730415.03	14400816.95	39°39'13.5302"N	80°40'48.8827"W	423.36	224.101	0.65	-0.51	-2.57
3756.00	8.490	223.300	3721.64	11.51	-313.56	-304.38	1730405.27	14400807.41	39°39'13.4362"N	80°40'49.0079"W	437.00	224.149	0.94	-0.53	-5.07
3847.00	9.520	231.730	3811.52	12.77	-323.11	-314.90	1730394.76	14400797.86	39°39'13.3422"N	80°40'49.1428"W	451.18	224.262	1.84	1.13	9.26
3937.00	9.300	230.840	3900.31	14.99	-332.32	-326.38	1730383.28	14400788.66	39°39'13.2517"N	80°40'49.2900"W	465.79	224.484	0.29	-0.24	-0.99
4027.00	10.410	229.430	3988.98	16.99	-342.20	-338.20	1730371.47	14400778.78	39°39'13.1544"N	80°40'49.4416"W	481.12	224.663	1.26	1.23	-1.57

RECEIVED
Office of Oil and Gas

JUN 03 2021

WV Department of
Environmental Protection

REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	Constance Taylor WTZ 1H
Field	Wetzel	API	47103033520000
Facility	Constance Taylor WTZ Pad	Wellbore	Constance Taylor WTZ 1H AWB
Slot	Slot 1H		

WELLPATH DATA (265 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]
4117.00	9.920	226.440	4077.57	18.46	-352.83	-349.99	1730359.68	14400768.16	39°39'13.0498"N	80°40'49.5928"W	496.97	224.769	0.80	-0.54	-3.32
4207.00	10.600	225.370	4166.13	19.37	-363.99	-361.50	1730348.18	14400757.00	39°39'12.9399"N	80°40'49.7405"W	513.00	224.804	0.78	0.76	-1.19
4298.00	10.150	223.470	4255.64	19.88	-375.69	-372.97	1730336.71	14400745.31	39°39'12.8247"N	80°40'49.8877"W	529.39	224.793	0.62	-0.49	-2.09
4387.00	9.680	220.420	4343.32	19.71	-387.07	-383.22	1730326.46	14400733.93	39°39'12.7125"N	80°40'50.0192"W	544.69	224.713	0.79	-0.53	-3.43
4479.00	8.640	215.110	4434.14	18.50	-398.62	-392.21	1730317.48	14400722.39	39°39'12.5988"N	80°40'50.1347"W	559.22	224.536	1.46	-1.13	-5.77
4571.00	9.480	224.840	4525.00	17.89	-409.64	-401.53	1730308.16	14400711.37	39°39'12.4901"N	80°40'50.2543"W	573.61	224.427	1.90	0.91	10.58
4661.00	9.130	224.910	4613.81	18.45	-419.95	-411.80	1730297.90	14400701.06	39°39'12.3886"N	80°40'50.3861"W	588.16	224.438	0.39	-0.39	0.08
4751.00	7.600	219.450	4702.86	18.41	-429.61	-428.48	1730289.08	14400691.41	39°39'12.2935"N	80°40'50.4993"W	601.23	224.394	1.91	-1.70	-6.07
4840.00	8.060	221.400	4791.03	17.94	-438.83	-428.48	1730281.22	14400682.19	39°39'12.2026"N	80°40'50.6003"W	613.33	224.316	0.60	0.52	2.19
4931.00	10.060	223.240	4880.89	17.89	-449.41	-438.15	1730271.56	14400671.62	39°39'12.0984"N	80°40'50.7243"W	627.65	224.273	2.22	2.20	2.02
5021.00	9.450	219.830	4969.59	17.61	-460.81	-448.27	1730261.44	14400660.22	39°39'11.9861"N	80°40'50.8542"W	642.87	224.210	0.93	-0.68	-3.79
5110.00	7.820	216.030	5057.57	16.55	-471.32	-456.51	1730253.21	14400649.72	39°39'11.8825"N	80°40'50.9601"W	656.16	224.086	1.94	-1.83	-4.27
5201.00	6.540	224.370	5147.86	16.00	-480.03	-463.77	1730245.94	14400641.01	39°39'11.7967"N	80°40'51.0533"W	667.47	224.013	1.81	-1.41	9.16
5291.00	7.260	228.600	5237.21	16.74	-487.45	-471.62	1730238.10	14400633.59	39°39'11.7236"N	80°40'51.1540"W	678.26	224.054	0.98	0.80	4.70
5382.00	10.680	225.460	5327.08	17.75	-497.17	-481.95	1730227.77	14400623.87	39°39'11.6279"N	80°40'51.2865"W	692.43	224.109	3.80	3.76	-3.45
5472.00	9.220	228.920	5415.73	18.95	-507.76	-493.33	1730216.40	14400613.29	39°39'11.5236"N	80°40'51.4325"W	707.95	224.174	1.75	-1.62	3.84
5561.00	11.230	222.090	5503.31	19.65	-518.88	-504.52	1730205.22	14400602.17	39°39'11.4142"N	80°40'51.5760"W	723.72	224.196	2.63	2.26	-7.67
5650.00	10.720	224.370	5590.69	19.82	-531.23	-516.11	1730193.62	14400589.83	39°39'11.2925"N	80°40'51.7248"W	740.66	224.173	0.75	-0.57	2.56
5703.00	9.850	228.040	5642.83	20.39	-537.78	-522.93	1730186.81	14400583.28	39°39'11.2280"N	80°40'51.8123"W	750.11	224.198	2.05	-1.64	6.92
5793.00	8.500	217.740	5731.69	20.55	-548.19	-532.73	1730177.02	14400572.87	39°39'11.1255"N	80°40'51.9380"W	764.40	224.180	2.36	-1.50	-11.44
5882.00	8.260	218.930	5819.74	19.57	-558.37	-540.77	1730168.98	14400562.70	39°39'11.0252"N	80°40'52.0413"W	777.31	224.083	0.33	-0.27	1.34
5971.00	9.240	218.450	5907.70	18.64	-568.93	-549.23	1730160.52	14400552.14	39°39'10.9210"N	80°40'52.1500"W	790.79	223.991	1.10	1.10	-0.54
6061.00	9.420	218.690	5996.51	17.60	-580.34	-558.33	1730151.43	14400540.73	39°39'10.8086"N	80°40'52.2668"W	805.31	223.892	0.20	0.20	0.27
6150.00	9.240	223.250	6084.33	17.18	-591.23	-567.78	1730141.98	14400529.85	39°39'10.7013"N	80°40'52.3881"W	819.71	223.841	0.85	-0.20	5.12
6240.00	9.900	223.720	6173.08	17.40	-602.09	-578.08	1730131.69	14400519.00	39°39'10.5944"N	80°40'52.5202"W	834.67	223.834	0.74	0.73	0.52
6329.00	10.180	223.200	6260.72	17.62	-613.35	-588.75	1730121.02	14400507.74	39°39'10.4835"N	80°40'52.6572"W	850.19	223.828	0.33	0.31	-0.58
6419.00	9.500	223.590	6349.39	17.82	-624.53	-599.31	1730110.46	14400496.57	39°39'10.3734"N	80°40'52.7928"W	865.57	223.820	0.76	-0.76	0.43
6508.00	10.260	223.650	6437.07	18.08	-635.58	-609.85	1730099.93	14400485.52	39°39'10.2645"N	80°40'52.9280"W	880.84	223.816	0.85	0.85	0.07
6601.00	9.650	224.420	6528.67	18.47	-647.14	-621.02	1730088.76	14400473.96	39°39'10.1506"N	80°40'53.0714"W	896.92	223.820	0.67	-0.66	0.83
6691.00	10.830	226.150	6617.24	19.22	-658.39	-632.40	1730077.38	14400462.72	39°39'10.0399"N	80°40'53.2173"W	912.91	223.847	1.35	1.31	1.92

RECEIVED
Office of Oil and Gas
JUN 03 2021
WV Department of
Environmental Protection

REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	Constance Taylor WTZ 1H
Field	Wetzel	API	4710303352000
Facility	Constance Taylor WTZ Pad	Wellbore	Constance Taylor WTZ 1H AWB
Slot	Slot 1H		

WELLPATH DATA (265 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]
3779.00	11.350	247.870	6703.63	23.42	-667.38	-646.39	1730063.40	14400453.73	39°39'9.9515"N	80°40'53.3966"W	929.09	224.085	4.76	0.59	24.68
3871.00	13.300	273.480	6793.57	35.50	-670.15	-665.35	1730044.44	14400450.96	39°39'9.9248"N	80°40'53.6392"W	944.35	224.794	6.25	2.12	27.84
3961.00	17.850	288.410	6880.28	56.12	-665.16	-688.80	1730021.01	14400455.95	39°39'9.9749"N	80°40'53.9387"W	957.54	226.000	6.70	5.06	16.59
7051.00	23.700	297.500	6964.41	86.19	-652.44	-717.96	1729991.86	14400468.66	39°39'10.1017"N	80°40'54.3110"W	970.13	227.737	7.40	6.50	10.10
7140.00	29.330	301.850	7044.03	124.91	-632.66	-752.37	1729957.46	14400488.44	39°39'10.2984"N	80°40'54.7500"W	983.02	229.940	6.69	6.33	4.89
7230.00	35.140	305.380	7120.13	172.30	-606.01	-792.25	1729917.59	14400515.08	39°39'10.5632"N	80°40'55.2587"W	997.45	232.587	6.78	6.46	3.92
7319.00	41.680	309.640	7189.84	227.33	-572.26	-835.98	1729873.89	14400548.82	39°39'10.8983"N	80°40'55.8162"W	1013.08	235.607	7.92	7.35	4.79
7412.00	49.110	311.700	7255.11	293.45	-529.08	-886.11	1729823.77	14400591.97	39°39'11.3267"N	80°40'56.4552"W	1032.04	239.159	8.14	7.99	2.22
7504.00	57.240	311.180	7310.20	367.01	-480.40	-941.28	1729768.62	14400640.64	39°39'11.8098"N	80°40'57.1583"W	1056.78	242.962	8.85	8.84	-0.57
7594.00	64.930	310.340	7353.69	445.69	-429.02	-1000.92	1729709.01	14400692.00	39°39'12.3196"N	80°40'57.9185"W	1088.99	246.799	8.58	8.54	-0.93
7685.00	71.520	309.880	7387.43	530.07	-374.61	-1065.52	1729644.43	14400746.39	39°39'12.8596"N	80°40'58.7420"W	1129.46	250.630	7.26	7.24	-0.51
7778.00	77.310	309.760	7412.40	619.50	-317.27	-1134.30	1729575.68	14400803.70	39°39'13.4287"N	80°40'59.6187"W	1177.83	254.373	6.23	6.23	-0.13
7866.00	83.400	309.490	7427.14	706.10	-261.97	-1201.09	1729508.92	14400858.98	39°39'13.9776"N	80°41'0.4702"W	1229.33	257.696	6.93	6.92	-0.31
7955.00	91.080	309.960	7431.42	794.81	-205.19	-1269.41	1729440.62	14400915.73	39°39'14.5410"N	80°41'1.3411"W	1285.89	260.818	8.65	8.63	0.53
8048.00	90.860	309.570	7429.85	887.68	-145.72	-1340.89	1729369.18	14400975.19	39°39'15.1313"N	80°41'2.2523"W	1348.78	263.798	0.48	-0.24	-0.42
8139.00	91.020	309.460	7428.35	978.53	-87.82	-1411.08	1729299.01	14401033.06	39°39'15.7059"N	80°41'3.1471"W	1413.81	266.439	0.21	0.18	-0.12
8232.00	91.290	309.110	7426.48	1071.36	-28.95	-1483.05	1729227.07	14401091.91	39°39'16.2902"N	80°41'4.0646"W	1483.33	268.882	0.48	0.29	-0.38
8321.00	91.570	308.500	7424.26	1160.13	26.81	-1552.38	1729157.76	14401147.64	39°39'16.8437"N	80°41'4.9486"W	1552.61	270.989	0.75	0.31	-0.69
8411.00	91.630	310.680	7421.75	1249.96	84.14	-1621.71	1729088.47	14401204.95	39°39'17.4127"N	80°41'5.8323"W	1623.89	272.970	2.42	0.07	2.42
8502.00	91.350	309.760	7419.38	1340.85	142.88	-1691.17	1729019.03	14401263.67	39°39'17.9956"N	80°41'6.7178"W	1697.19	274.829	1.06	-0.31	-1.01
8591.00	91.420	309.520	7417.23	1429.70	199.64	-1759.68	1728950.54	14401320.41	39°39'18.5589"N	80°41'7.5913"W	1770.97	276.473	0.28	0.08	-0.27
8683.00	92.000	309.480	7414.48	1521.52	258.13	-1830.64	1728879.61	14401378.88	39°39'19.1395"N	80°41'8.4959"W	1848.75	278.026	0.63	0.63	-0.04
8776.00	91.320	309.250	7411.79	1614.33	317.09	-1902.51	1728807.77	14401437.82	39°39'19.7247"N	80°41'9.4121"W	1928.75	279.463	0.77	-0.73	-0.25
8869.00	91.450	308.570	7409.54	1707.10	375.49	-1974.85	1728735.46	14401496.19	39°39'20.3043"N	80°41'10.3345"W	2010.23	280.765	0.74	0.14	-0.73
8961.00	92.120	311.480	7406.67	1798.95	434.62	-2045.26	1728665.08	14401555.30	39°39'20.8911"N	80°41'11.2320"W	2090.93	281.997	3.24	0.73	3.16
9051.00	91.380	309.450	7403.93	1888.84	493.00	-2113.70	1728596.67	14401613.65	39°39'21.4704"N	80°41'12.1044"W	2170.43	283.129	2.40	-0.82	-2.26
9143.00	91.450	310.890	7401.65	1980.72	552.32	-2183.98	1728526.42	14401672.95	39°39'22.0591"N	80°41'13.0003"W	2252.73	284.192	1.57	0.08	1.57
9235.00	91.020	310.610	7399.67	2072.65	612.36	-2253.66	1728456.76	14401732.97	39°39'22.6549"N	80°41'13.8886"W	2335.37	285.201	0.56	-0.47	-0.30
9328.00	91.910	311.090	7397.29	2165.58	673.17	-2323.98	1728386.47	14401793.76	39°39'23.2583"N	80°41'14.7850"W	2419.51	286.154	1.09	0.96	0.52
9419.00	91.540	310.540	7394.55	2256.49	732.62	-2392.82	1728317.66	14401853.18	39°39'23.8482"N	80°41'15.6625"W	2502.46	287.023	0.73	-0.41	-0.60

RECEIVED
Office of Oil and Gas

JUN 03 2021

WV Department of
Environmental Protection

REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	Constance Taylor WTZ 1H
Field	Wetzel	API	47103033520000
Facility	Constance Taylor WTZ Pad	Wellbore	Constance Taylor WTZ 1H AWB
Slot	Slot 1H		

WELLPATH DATA (265 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]
9508.00	91.170	310.770	7392.45	2345.41	790.59	-2460.32	1728250.18	14401911.13	39°39'24.4234"N	80°41'16.5230"W	2584.22	287.814	0.49	-0.42	0.26
9600.00	91.230	310.170	7390.52	2437.32	850.29	-2530.29	1728180.24	14401970.80	39°39'25.0158"N	80°41'17.4150"W	2669.34	288.575	0.66	0.07	-0.65
9690.00	91.570	310.940	7388.32	2527.24	908.79	-2598.65	1728111.90	14402029.28	39°39'25.5963"N	80°41'18.2864"W	2752.98	289.276	0.94	0.38	0.86
9781.00	91.600	310.530	7385.81	2618.15	968.15	-2667.58	1728043.00	14402088.62	39°39'26.1853"N	80°41'19.1651"W	2837.83	289.947	0.45	0.03	-0.45
9874.00	91.660	310.960	7383.16	2711.06	1028.82	-2738.01	1727972.60	14402149.27	39°39'26.7873"N	80°41'20.0629"W	2924.92	290.594	0.47	0.06	0.46
9966.00	91.200	310.660	7380.87	2802.99	1088.93	-2807.62	1727903.02	14402209.35	39°39'27.3838"N	80°41'20.9503"W	3011.40	291.199	0.60	-0.50	-0.33
10059.00	91.600	310.670	7378.59	2895.90	1149.52	-2878.14	1727832.52	14402269.91	39°39'27.9849"N	80°41'21.8493"W	3099.21	291.772	0.43	0.43	0.01
10150.00	91.540	311.560	7376.10	2986.84	1209.33	-2946.67	1727764.02	14402329.70	39°39'28.5784"N	80°41'22.7229"W	3185.18	292.314	0.98	-0.07	0.98
10242.00	91.540	310.570	7373.63	3078.77	1269.75	-3016.01	1727694.71	14402390.09	39°39'29.1778"N	80°41'23.6068"W	3272.40	292.831	1.08	0.00	-1.08
10335.00	91.720	310.930	7370.98	3171.68	1330.43	-3086.44	1727624.31	14402450.75	39°39'29.7800"N	80°41'24.5046"W	3360.97	293.319	0.43	0.19	0.39
10425.00	91.510	311.420	7368.45	3261.61	1389.66	-3154.15	1727556.62	14402509.96	39°39'30.3676"N	80°41'25.3678"W	3446.71	293.777	0.59	-0.23	0.54
10513.00	91.600	311.150	7366.06	3349.55	1447.70	-3220.26	1727490.54	14402567.98	39°39'30.9435"N	80°41'26.2104"W	3530.71	294.207	0.32	0.10	-0.31
10603.00	91.450	311.090	7363.66	3439.49	1506.86	-3288.03	1727422.79	14402627.12	39°39'31.5305"N	80°41'27.0744"W	3616.88	294.621	0.18	-0.17	-0.07
10695.00	91.450	310.700	7361.33	3531.42	1567.08	-3357.55	1727353.30	14402687.31	39°39'32.1279"N	80°41'27.9607"W	3705.25	295.020	0.42	0.00	-0.42
10788.00	91.630	310.600	7358.83	3624.33	1627.64	-3428.09	1727282.79	14402747.85	39°39'32.7289"N	80°41'28.8599"W	3794.86	295.398	0.22	0.19	-0.11
10879.00	91.690	310.570	7356.20	3715.23	1686.81	-3497.17	1727213.74	14402807.00	39°39'33.3161"N	80°41'29.7405"W	3882.72	295.750	0.07	0.07	-0.03
10971.00	91.600	312.290	7353.56	3807.17	1747.66	-3566.12	1727144.82	14402867.83	39°39'33.9198"N	80°41'30.6194"W	3971.34	296.108	1.87	-0.10	1.87
11064.00	91.690	312.480	7350.89	3900.13	1810.33	-3634.78	1727076.18	14402930.47	39°39'34.5414"N	80°41'31.4947"W	4060.66	296.476	0.23	0.10	0.20
11156.00	91.510	312.450	7348.32	3992.10	1872.42	-3702.62	1727008.37	14402992.53	39°39'35.1573"N	80°41'32.3594"W	4149.14	296.826	0.20	-0.20	-0.03
11248.00	92.190	312.190	7345.35	4084.05	1934.33	-3770.61	1726940.41	14403054.41	39°39'35.7714"N	80°41'33.2260"W	4237.82	297.158	0.79	0.74	-0.28
11341.00	92.000	312.290	7341.95	4176.98	1996.80	-3839.41	1726871.63	14403116.87	39°39'36.3912"N	80°41'34.1030"W	4327.62	297.478	0.23	-0.20	0.11
11433.00	91.600	312.260	7339.06	4268.93	2058.66	-3907.45	1726803.62	14403178.70	39°39'37.0048"N	80°41'34.9703"W	4416.59	297.783	0.44	-0.43	-0.03
11526.00	91.820	312.170	7336.28	4361.89	2121.12	-3976.30	1726734.80	14403241.13	39°39'37.6245"N	80°41'35.8479"W	4506.68	298.077	0.26	0.24	-0.10
11618.00	91.940	313.190	7333.27	4453.84	2183.45	-4043.90	1726667.23	14403303.44	39°39'38.2428"N	80°41'36.7095"W	4595.71	298.366	1.12	0.13	1.11
11711.00	91.850	313.530	7330.19	4546.78	2247.27	-4111.48	1726599.67	14403367.23	39°39'38.8757"N	80°41'37.5708"W	4685.56	298.660	0.38	-0.10	0.37
11799.00	91.820	313.660	7327.37	4634.72	2307.92	-4175.18	1726536.00	14403427.86	39°39'39.4773"N	80°41'38.3826"W	4770.60	298.933	0.15	-0.03	0.15
11889.00	91.750	313.150	7324.57	4724.67	2369.73	-4240.53	1726470.67	14403489.65	39°39'40.0904"N	80°41'39.2156"W	4857.75	299.198	0.57	-0.08	-0.57
11981.00	91.660	313.230	7321.83	4816.63	2432.67	-4307.58	1726403.65	14403552.56	39°39'40.7146"N	80°41'40.0702"W	4947.03	299.455	0.13	-0.10	0.09
12073.00	91.350	312.970	7319.42	4908.59	2495.51	-4374.73	1726336.52	14403615.38	39°39'41.3379"N	80°41'40.9261"W	5036.45	299.702	0.44	-0.34	-0.28
12163.00	91.630	313.250	7317.08	4998.56	2557.00	-4440.41	1726270.87	14403676.84	39°39'41.9478"N	80°41'41.7633"W	5124.01	299.935	0.44	0.31	0.31

RECEIVED
Office of Oil and Gas

JUN 03 2021

WV Department of
Environmental Protection

REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	Constance Taylor WTZ 1H
Field	Wetzel	API	47103033520000
Facility	Constance Taylor WTZ Pad	Wellbore	Constance Taylor WTZ 1H AWB
Slot	Slot 1H		

WELLPATH DATA (265 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]
12254.00	92.000	313.870	7314.19	5089.50	2619.67	-4506.32	1726204.98	14403739.49	39°39'42.5694"N	80°41'42.6033"W	5212.45	300.171	0.79	0.41	0.68
12346.00	91.630	313.390	7311.28	5181.44	2683.12	-4572.88	1726138.45	14403802.92	39°39'43.1987"N	80°41'43.4516"W	5301.92	300.402	0.66	-0.40	-0.52
12439.00	91.450	313.150	7308.78	5274.40	2746.84	-4640.57	1726070.79	14403866.61	39°39'43.8307"N	80°41'44.3144"W	5392.59	300.622	0.32	-0.19	-0.26
12531.00	91.720	312.740	7306.24	5366.36	2809.50	-4707.89	1726003.50	14403929.24	39°39'44.4522"N	80°41'45.1725"W	5482.47	300.827	0.53	0.29	-0.45
12620.00	90.920	313.070	7304.18	5455.34	2870.07	-4773.06	1725938.35	14403989.79	39°39'45.0530"N	80°41'46.0032"W	5569.51	301.019	0.97	-0.90	0.37
12711.00	91.140	313.350	7302.55	5546.32	2932.37	-4839.38	1725872.06	14404052.06	39°39'45.6709"N	80°41'46.8485"W	5658.47	301.213	0.39	0.24	0.31
12804.00	91.140	312.880	7300.70	5639.30	2995.92	-4907.25	1725804.21	14404115.59	39°39'46.3012"N	80°41'47.7136"W	5749.49	301.404	0.51	0.00	-0.51
12896.00	90.950	313.340	7299.02	5731.28	3058.78	-4974.40	1725737.09	14404178.43	39°39'46.9247"N	80°41'48.5696"W	5839.59	301.588	0.54	-0.21	0.50
12988.00	91.480	313.730	7297.07	5823.25	3122.13	-5041.08	1725670.43	14404241.76	39°39'47.5531"N	80°41'49.4195"W	5929.61	301.772	0.72	0.58	0.42
13077.00	91.880	313.280	7294.46	5912.20	3183.38	-5105.61	1725605.93	14404302.97	39°39'48.1605"N	80°41'50.2419"W	6016.74	301.944	0.68	0.45	-0.51
13166.00	91.420	312.890	7291.90	6001.16	3244.15	-5170.58	1725540.98	14404363.72	39°39'48.7632"N	80°41'51.0701"W	6104.05	302.105	0.68	-0.52	-0.44
13255.00	91.570	312.910	7289.58	6090.13	3304.71	-5235.76	1725475.84	14404424.26	39°39'49.3639"N	80°41'51.9009"W	6191.46	302.259	0.17	0.17	0.02
13347.00	91.600	313.330	7287.03	6182.09	3367.57	-5302.88	1725408.73	14404487.09	39°39'49.9874"N	80°41'52.7565"W	6281.81	302.417	0.46	0.03	0.46
13440.00	91.630	313.220	7284.41	6275.04	3431.30	-5370.57	1725341.08	14404550.80	39°39'50.6194"N	80°41'53.6193"W	6373.13	302.575	0.12	0.03	-0.12
13533.00	91.450	313.580	7281.91	6368.00	3495.17	-5438.11	1725273.56	14404614.65	39°39'51.2529"N	80°41'54.4803"W	6464.46	302.730	0.43	-0.19	0.39
13625.00	91.540	312.590	7279.51	6459.97	3557.99	-5505.28	1725206.42	14404677.44	39°39'51.8760"N	80°41'55.3365"W	6554.95	302.874	1.08	0.10	-1.08
13717.00	92.120	314.520	7276.57	6551.90	3621.35	-5571.92	1725139.81	14404740.78	39°39'52.5044"N	80°41'56.1858"W	6645.33	303.021	2.19	0.63	2.10
13807.00	91.880	313.550	7273.43	6641.82	3683.87	-5636.58	1725075.17	14404803.27	39°39'53.1244"N	80°41'57.0100"W	6733.64	303.167	1.11	-0.27	-1.08
13899.00	91.750	313.260	7270.52	6733.77	3747.06	-5703.39	1725008.39	14404866.43	39°39'53.7511"N	80°41'57.8616"W	6824.15	303.304	0.35	-0.14	-0.32
13992.00	91.720	313.300	7267.70	6826.72	3810.78	-5771.06	1724940.74	14404930.14	39°39'54.3831"N	80°41'58.7242"W	6915.72	303.438	0.05	-0.03	0.04
14084.00	91.750	313.320	7264.92	6918.67	3873.86	-5837.97	1724873.86	14404993.19	39°39'55.0087"N	80°41'59.5772"W	7006.34	303.567	0.04	0.03	0.02
14173.00	91.350	312.410	7262.51	7007.63	3934.38	-5903.18	1724808.67	14405053.69	39°39'55.6090"N	80°42'0.4084"W	7094.15	303.683	1.12	-0.45	-1.02
14263.00	91.810	313.180	7260.03	7097.60	3995.50	-5969.20	1724742.68	14405114.78	39°39'56.2152"N	80°42'1.2500"W	7182.99	303.797	1.00	0.51	0.86
14355.00	90.680	312.470	7258.03	7189.58	4058.03	-6036.66	1724675.25	14405177.28	39°39'56.8353"N	80°42'2.1099"W	7273.84	303.910	1.45	-1.23	-0.77
14448.00	91.260	313.250	7256.45	7282.56	4121.27	-6104.82	1724607.12	14405240.50	39°39'57.4627"N	80°42'2.9788"W	7365.71	304.023	1.05	0.62	0.84
14536.00	91.200	313.730	7254.57	7370.53	4181.82	-6168.64	1724543.31	14405301.03	39°39'58.0632"N	80°42'3.7924"W	7452.50	304.134	0.55	-0.07	0.55
14626.00	90.740	312.740	7253.04	7460.51	4243.46	-6234.20	1724477.78	14405362.65	39°39'58.6745"N	80°42'4.6282"W	7541.37	304.242	1.21	-0.51	-1.10
14715.00	91.200	313.360	7251.53	7549.49	4304.21	-6299.23	1724412.78	14405423.37	39°39'59.2770"N	80°42'5.4571"W	7629.32	304.344	0.87	0.52	0.70
14805.00	90.770	313.300	7249.99	7639.47	4365.96	-6364.69	1724347.35	14405485.09	39°39'59.8894"N	80°42'6.2915"W	7718.22	304.449	0.48	-0.48	-0.07
14896.00	90.620	312.970	7248.88	7730.46	4428.17	-6431.09	1724280.97	14405547.28	39°40'0.5064"N	80°42'7.1380"W	7808.18	304.550	0.40	-0.16	-0.36

RECEIVED
Office of Oil and Gas

JUN 03 2021

WV Department of
Environmental Protection

REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Constance Taylor WTZ 1H
Field	Wetzel	API	47103033520000
Facility	Constance Taylor WTZ Pad	Wellbore	Constance Taylor WTZ 1H AWB
Slot	Slot 1H		

WELLPATH DATA (265 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]
14986.00	91.260	313.710	7247.41	7820.44	4489.93	-6496.54	1724215.55	14405609.02	39°40'1.1189"N	80°42'7.9723"W	7897.12	304.649	1.09	0.71	0.82
15077.00	91.350	313.810	7245.33	7911.40	4552.86	-6562.24	1724149.87	14405671.91	39°40'1.7429"N	80°42'8.8099"W	7986.96	304.753	0.15	0.10	0.11
15170.00	90.770	313.940	7243.61	8004.37	4617.30	-6629.27	1724082.87	14405736.34	39°40'2.3820"N	80°42'9.6643"W	8078.78	304.857	0.64	-0.62	0.14
15258.00	92.030	314.120	7241.46	8092.31	4678.44	-6692.52	1724019.64	14405797.45	39°40'2.9884"N	80°42'10.4705"W	8165.64	304.956	1.45	1.43	0.20
15349.00	91.420	312.720	7238.72	8183.26	4740.96	-6758.59	1723953.60	14405859.95	39°40'3.6084"N	80°42'11.3127"W	8255.62	305.049	1.68	-0.67	-1.54
15439.00	91.660	312.930	7236.31	8273.23	4802.12	-6824.57	1723887.64	14405921.08	39°40'4.2150"N	80°42'12.1539"W	8344.77	305.132	0.35	0.27	0.23
15530.00	91.600	313.170	7233.72	8364.19	4864.21	-6891.04	1723821.20	14405983.15	39°40'4.8308"N	80°42'13.0013"W	8434.87	305.217	0.27	-0.07	0.26
15621.00	91.750	313.100	7231.06	8455.14	4926.41	-6957.42	1723754.85	14406045.32	39°40'5.4476"N	80°42'13.8475"W	8524.97	305.302	0.18	0.16	-0.08
15712.00	92.090	313.190	7228.01	8546.09	4988.60	-7023.78	1723688.51	14406107.49	39°40'6.0644"N	80°42'14.6935"W	8615.08	305.384	0.39	0.37	0.10
15805.00	91.320	313.420	7225.24	8639.04	5052.36	-7091.43	1723620.89	14406171.22	39°40'6.6967"N	80°42'15.5559"W	8707.16	305.468	0.86	-0.83	0.25
15897.00	91.420	313.270	7223.04	8731.01	5115.49	-7158.31	1723554.03	14406234.33	39°40'7.3228"N	80°42'16.4086"W	8798.28	305.550	0.20	0.11	-0.16
15988.00	91.260	313.070	7220.91	8821.98	5177.73	-7224.66	1723487.71	14406296.54	39°40'7.9401"N	80°42'17.2544"W	8888.46	305.628	0.28	-0.18	-0.22
16078.00	91.350	313.120	7218.86	8911.95	5239.20	-7290.37	1723422.03	14406357.99	39°40'8.5498"N	80°42'18.0921"W	8977.68	305.703	0.11	0.10	0.06
16169.00	91.630	313.660	7216.50	9002.91	5301.70	-7356.47	1723355.95	14406420.46	39°40'9.1695"N	80°42'18.9348"W	9067.84	305.780	0.67	0.31	0.59
16259.00	91.050	313.620	7214.39	9092.88	5363.79	-7421.59	1723290.86	14406482.53	39°40'9.7853"N	80°42'19.7649"W	9156.97	305.857	0.65	-0.64	-0.04
16350.00	91.200	313.690	7212.61	9183.84	5426.60	-7487.41	1723225.06	14406545.31	39°40'10.4081"N	80°42'20.6041"W	9247.12	305.933	0.18	0.16	0.08
16440.00	91.020	313.150	7210.86	9273.82	5488.44	-7552.77	1723159.73	14406607.14	39°40'11.0215"N	80°42'21.4373"W	9336.35	306.005	0.63	-0.20	-0.60
16531.00	91.200	313.090	7209.10	9364.80	5550.63	-7619.18	1723093.35	14406669.30	39°40'11.6383"N	80°42'22.2839"W	9426.64	306.074	0.21	0.20	-0.07
16622.00	91.290	313.720	7207.12	9455.77	5613.15	-7685.28	1723027.27	14406731.79	39°40'12.2582"N	80°42'23.1266"W	9516.88	306.144	0.70	0.10	0.69
16712.00	91.200	313.180	7205.17	9545.74	5675.03	-7750.60	1722961.98	14406793.65	39°40'12.8719"N	80°42'23.9594"W	9606.13	306.212	0.61	-0.10	-0.60
16804.00	91.140	313.240	7203.29	9637.71	5738.01	-7817.64	1722894.96	14406856.60	39°40'13.4964"N	80°42'24.8141"W	9697.43	306.278	0.09	-0.07	0.07
16896.00	90.860	312.950	7201.68	9729.70	5800.85	-7884.81	1722827.82	14406919.42	39°40'14.1197"N	80°42'25.6704"W	9788.78	306.342	0.44	-0.30	-0.32
16987.00	90.980	313.510	7200.22	9820.68	5863.17	-7951.11	1722761.55	14406981.72	39°40'14.7377"N	80°42'26.5156"W	9879.11	306.405	0.63	0.13	0.62
17078.00	91.420	313.590	7198.32	9911.65	5925.86	-8017.05	1722695.64	14407044.38	39°40'15.3594"N	80°42'27.3563"W	9969.39	306.470	0.49	0.48	0.09
17169.00	90.920	313.890	7196.46	10002.61	5988.76	-8082.78	1722629.93	14407107.25	39°40'15.9831"N	80°42'28.1943"W	10059.65	306.536	0.64	-0.55	0.33
17260.00	90.980	313.160	7194.95	10093.59	6051.42	-8148.75	1722563.99	14407169.89	39°40'16.6045"N	80°42'29.0353"W	10149.97	306.598	0.80	0.07	-0.80
17350.00	91.080	314.610	7193.33	10183.55	6113.80	-8213.60	1722499.16	14407232.24	39°40'17.2231"N	80°42'29.8621"W	10239.23	306.662	1.61	0.11	1.61
17441.00	90.980	313.590	7191.70	10274.50	6177.11	-8278.94	1722433.84	14407295.54	39°40'17.8509"N	80°42'30.6951"W	10329.45	306.727	1.13	-0.11	-1.12
17531.00	91.050	313.680	7190.10	10364.48	6239.21	-8344.07	1722368.74	14407357.61	39°40'18.4667"N	80°42'31.5254"W	10418.79	306.787	0.13	0.08	0.10
17622.00	90.860	313.610	7188.59	10455.45	6302.01	-8409.91	1722302.93	14407420.38	39°40'19.0894"N	80°42'32.3648"W	10509.13	306.846	0.22	-0.21	-0.08

RECEIVED
Office of Oil and Gas

JUN 03 2021

WV Department of
Environmental Protection

REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	Constance Taylor WTZ 1H
Field	Wetzel	API	47103033520000
Facility	Constance Taylor WTZ Pad	Wellbore	Constance Taylor WTZ 1H AWB
Slot	Slot 1H		

WELLPATH DATA (265 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]
17712.00	91.350	313.800	7186.85	10545.42	6364.18	-8474.96	1722237.90	14407482.53	39°40'19.7060"N	80°42'33.1941"W	10598.48	306.904	0.58	0.54	0.21
17803.00	91.260	313.810	7184.78	10636.37	6427.16	-8540.62	1722172.27	14407545.48	39°40'20.3304"N	80°42'34.0312"W	10688.80	306.963	0.10	-0.10	0.01
17894.00	91.170	314.110	7182.85	10727.33	6490.31	-8606.11	1722106.81	14407608.61	39°40'20.9567"N	80°42'34.8661"W	10779.11	307.022	0.34	-0.10	0.33
17985.00	91.200	313.770	7180.97	10818.29	6553.44	-8671.62	1722041.32	14407671.72	39°40'21.5827"N	80°42'35.7013"W	10869.43	307.080	0.37	0.03	-0.37
18076.00	90.950	313.610	7179.26	10909.26	6616.29	-8737.41	1721975.56	14407734.54	39°40'22.2059"N	80°42'36.5401"W	10959.82	307.134	0.33	-0.27	-0.18
18167.00	91.350	313.750	7177.43	11000.22	6679.12	-8803.21	1721909.79	14407797.35	39°40'22.8290"N	80°42'37.3789"W	11050.21	307.188	0.47	0.44	0.15
18258.00	90.770	314.120	7175.75	11091.18	6742.25	-8868.73	1721844.29	14407860.45	39°40'23.4550"N	80°42'38.2143"W	11140.57	307.243	0.76	-0.64	0.41
18348.00	90.980	313.880	7174.37	11181.15	6804.76	-8933.46	1721779.58	14407922.94	39°40'24.0748"N	80°42'39.0395"W	11229.94	307.297	0.35	0.23	-0.27
18439.00	91.480	313.040	7172.42	11272.12	6867.34	-8999.50	1721713.57	14407985.49	39°40'24.6954"N	80°42'39.8815"W	11320.39	307.347	1.07	0.55	-0.92
18530.00	91.020	312.440	7170.44	11363.09	6929.09	-9066.31	1721646.78	14408047.21	39°40'25.3077"N	80°42'40.7335"W	11410.97	307.389	0.83	-0.51	-0.66
18620.00	91.600	313.260	7168.38	11453.07	6990.28	-9132.28	1721580.84	14408108.38	39°40'25.9145"N	80°42'41.5746"W	11500.54	307.432	1.12	0.64	0.91
18711.00	91.380	312.250	7166.01	11544.04	7052.03	-9199.07	1721514.08	14408170.11	39°40'26.5270"N	80°42'42.4263"W	11591.12	307.474	1.14	-0.24	-1.11
18801.00	91.260	313.270	7163.94	11634.01	7113.12	-9265.13	1721448.04	14408231.17	39°40'27.1328"N	80°42'43.2686"W	11680.72	307.515	1.14	-0.13	1.13
18892.00	91.080	313.180	7162.08	11724.99	7175.43	-9331.43	1721381.77	14408293.46	39°40'27.7507"N	80°42'44.1139"W	11771.25	307.559	0.22	-0.20	-0.10
18983.00	91.230	313.450	7160.25	11815.96	7237.84	-9397.62	1721315.60	14408355.85	39°40'28.3696"N	80°42'44.9580"W	11861.78	307.603	0.34	0.16	0.30
19073.00	90.860	313.030	7158.60	11905.94	7299.49	-9463.18	1721250.07	14408417.47	39°40'28.9809"N	80°42'45.7938"W	11951.33	307.645	0.62	-0.41	-0.47
19163.00	90.710	312.590	7157.37	11995.93	7360.64	-9529.20	1721184.08	14408478.60	39°40'29.5874"N	80°42'46.6356"W	12040.96	307.684	0.52	-0.17	-0.49
19254.00	90.220	312.760	7156.63	12086.93	7422.32	-9596.10	1721117.21	14408540.26	39°40'30.1991"N	80°42'47.4887"W	12131.61	307.721	0.57	-0.54	0.19
19344.00	91.080	312.010	7155.61	12176.92	7482.99	-9662.57	1721050.76	14408600.90	39°40'30.8007"N	80°42'48.3363"W	12221.31	307.755	1.27	0.96	-0.83
19435.00	91.480	312.620	7153.58	12267.90	7544.23	-9729.84	1720983.51	14408662.12	39°40'31.4081"N	80°42'49.1942"W	12312.00	307.789	0.80	0.44	0.67
19525.00	91.140	312.970	7151.52	12357.87	7605.36	-9795.87	1720917.52	14408723.22	39°40'32.0143"N	80°42'50.0361"W	12401.63	307.825	0.54	-0.38	0.39
19616.00	91.750	312.520	7149.23	12448.84	7667.11	-9862.67	1720850.73	14408784.94	39°40'32.6266"N	80°42'50.8880"W	12492.27	307.861	0.83	0.67	-0.49
19706.00	91.140	312.050	7146.96	12538.81	7727.64	-9929.23	1720784.20	14408845.45	39°40'33.2270"N	80°42'51.7368"W	12581.98	307.893	0.86	-0.68	-0.52
19797.00	91.230	312.510	7145.08	12629.79	7788.85	-9996.55	1720716.91	14408906.64	39°40'33.8340"N	80°42'52.5952"W	12672.69	307.924	0.51	0.10	0.51
19887.00	91.420	312.810	7142.99	12719.77	7849.82	-10062.71	1720650.77	14408967.59	39°40'34.4387"N	80°42'53.4390"W	12762.36	307.957	0.39	0.21	0.33
19978.00	90.800	312.580	7141.23	12810.75	7911.51	-10129.58	1720583.93	14409029.26	39°40'35.0505"N	80°42'54.2917"W	12853.04	307.991	0.73	-0.68	-0.25
20069.00	91.200	312.510	7139.64	12901.73	7973.04	-10196.62	1720516.92	14409090.75	39°40'35.6606"N	80°42'55.1465"W	12943.74	308.023	0.45	0.44	-0.08
20159.00	91.200	312.530	7137.76	12991.71	8033.85	-10262.94	1720450.63	14409151.54	39°40'36.2637"N	80°42'55.9922"W	13033.44	308.054	0.02	0.00	0.02
20249.00	91.050	312.580	7135.99	13081.70	8094.70	-10329.22	1720384.37	14409212.37	39°40'36.8672"N	80°42'56.8375"W	13123.15	308.085	0.18	-0.17	0.06
20340.00	90.680	313.030	7134.62	13172.68	8156.53	-10396.98	1720317.64	14409274.18	39°40'37.4803"N	80°42'57.6888"W	13213.83	308.117	0.64	-0.41	0.49

RECEIVED
Office of Oil and Gas

JUN 03 2021

WV Department of
Environmental Protection

REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	Constance Taylor WTZ 1H
Field	Wetzel	API	47103033520000
Facility	Constance Taylor WTZ Pad	Wellbore	Constance Taylor WTZ 1H AWB
Slot	Slot 1H		

WELLPATH DATA (265 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]
20432.00	91.230	312.970	7133.08	13264.67	8219.27	-10463.25	1720250.39	14409336.89	39°40'38.1024"N	80°42'58.5467"W	13305.49	308.151	0.60	0.60	-0.07
20522.00	91.570	312.900	7130.89	13354.64	8280.55	-10529.12	1720184.55	14409398.15	39°40'38.7101"N	80°42'59.3867"W	13395.15	308.183	0.39	0.38	-0.08
20613.00	91.480	312.890	7128.46	13445.61	8342.47	-10595.77	1720117.93	14409460.04	39°40'39.3241"N	80°43'0.2365"W	13485.81	308.215	0.10	-0.10	-0.01
20704.00	91.020	312.680	7126.48	13536.59	8404.27	-10662.54	1720051.19	14409521.82	39°40'39.9369"N	80°43'1.0880"W	13576.50	308.245	0.56	-0.51	-0.23
20794.00	91.260	314.000	7124.69	13626.56	8466.02	-10727.98	1719985.77	14409583.55	39°40'40.5493"N	80°43'1.9225"W	13666.13	308.279	1.49	0.27	1.47
20885.00	90.710	313.250	7123.12	13717.53	8528.80	-10793.84	1719919.93	14409646.30	39°40'41.1717"N	80°43'2.7623"W	13756.72	308.314	1.02	-0.60	-0.82
20977.00	91.320	313.270	7121.49	13809.51	8591.84	-10860.83	1719852.97	14409709.31	39°40'41.7968"N	80°43'3.6165"W	13848.37	308.347	0.66	0.66	0.02
21067.00	91.450	313.480	7119.32	13899.48	8653.63	-10926.23	1719787.60	14409771.08	39°40'42.4095"N	80°43'4.4505"W	13938.00	308.379	0.27	0.14	0.23
21158.00	91.050	314.120	7117.33	13990.44	8716.60	-10991.89	1719721.96	14409834.02	39°40'43.0339"N	80°43'5.2878"W	14028.57	308.415	0.83	-0.44	0.70
21247.00	90.400	313.310	7116.21	14079.41	8778.10	-11056.21	1719657.66	14409895.50	39°40'43.6437"N	80°43'6.1080"W	14117.18	308.448	1.17	-0.73	-0.91
21335.00	91.230	314.180	7114.96	14167.39	8838.94	-11119.78	1719594.12	14409956.31	39°40'44.2469"N	80°43'6.9185"W	14204.80	308.481	1.37	0.94	0.99
21424.00	91.050	314.040	7113.18	14256.34	8900.87	-11183.67	1719530.26	14410018.22	39°40'44.8610"N	80°43'7.7332"W	14293.35	308.516	0.26	-0.20	-0.16
21512.00	90.680	313.610	7111.86	14344.31	8961.80	-11247.15	1719466.80	14410079.13	39°40'45.4651"N	80°43'8.5427"W	14380.97	308.548	0.64	-0.42	-0.49
21601.00	91.110	313.670	7110.47	14433.29	9023.22	-11311.55	1719402.43	14410140.52	39°40'46.0740"N	80°43'9.3639"W	14469.61	308.579	0.49	0.48	0.07
21690.00	91.230	314.650	7108.65	14522.23	9085.20	-11375.38	1719338.62	14410202.48	39°40'46.6887"N	80°43'10.1779"W	14558.17	308.613	1.11	0.13	1.10
21778.00	90.550	313.650	7107.28	14610.19	9146.49	-11438.52	1719275.51	14410263.75	39°40'47.2963"N	80°43'10.9829"W	14645.75	308.647	1.37	-0.77	-1.14
21867.00	90.830	312.680	7106.21	14699.18	9207.37	-11503.43	1719210.62	14410324.60	39°40'47.9000"N	80°43'11.8106"W	14734.47	308.674	1.13	0.31	-1.09
21957.00	90.490	312.530	7105.17	14789.17	9268.29	-11569.67	1719144.41	14410385.50	39°40'48.5041"N	80°43'12.6554"W	14824.25	308.698	0.41	-0.38	-0.17
22047.00	90.430	312.900	7104.45	14879.17	9329.34	-11635.79	1719078.31	14410446.53	39°40'49.1094"N	80°43'13.4987"W	14914.03	308.722	0.42	-0.07	0.41
22136.00	90.800	312.630	7103.50	14968.17	9389.77	-11701.13	1719013.00	14410506.93	39°40'49.7086"N	80°43'14.3320"W	15002.80	308.746	0.51	0.42	-0.30
22224.00	90.250	312.600	7102.69	15056.16	9449.35	-11765.88	1718948.27	14410566.48	39°40'50.2995"N	80°43'15.1579"W	15090.60	308.768	0.63	-0.62	-0.03
22314.00	90.310	312.490	7102.25	15146.16	9510.20	-11832.19	1718881.99	14410627.32	39°40'50.9029"N	80°43'16.0035"W	15180.40	308.791	0.14	0.07	-0.12
22403.00	91.080	313.250	7101.17	15235.15	9570.75	-11897.41	1718816.79	14410687.84	39°40'51.5033"N	80°43'16.8353"W	15269.17	308.815	1.22	0.87	0.85
22493.00	90.550	313.010	7099.89	15325.14	9632.27	-11963.09	1718751.15	14410749.33	39°40'52.1133"N	80°43'17.6729"W	15358.91	308.840	0.65	-0.59	-0.27
22531.00‡	90.550	313.010	7099.52	15363.14	9658.19	-11990.87	1718723.37	14410775.24	39°40'52.3703"N	80°43'18.0272"W	15396.81	308.850	0.00	0.00	0.00

RECEIVED
Office of Oil and Gas

JUN 03 2021

WV Department of
Environmental Protection

REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	Constance Taylor WTZ 1H
Field	Wetzel	API	47103033520000
Facility	Constance Taylor WTZ Pad	Wellbore	Constance Taylor WTZ 1H AWB
Slot	Slot 1H		

HOLE & CASING SECTIONS									
- Ref Wellbore: Constance Taylor WTZ 1H AWB Ref Wellpath: Constance Taylor WTZ 1H AWP Proj: 22531'									
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	0.02	0.22
17.5in Open Hole	100.00	468.00	368.00	100.00	468.00	0.02	0.22	-0.02	0.52
13.375in Casing Surface	26.00	468.00	442.00	26.00	468.00	0.00	0.00	-0.02	0.52
12.25in Open Hole	468.00	2900.00	2432.00	468.00	2875.77	-0.02	0.52	-218.25	-214.77
9.625in Casing Intermediate	26.00	2900.00	2874.00	26.00	2875.77	0.00	0.00	-218.25	-214.77
8.75in Open Hole	2900.00	5722.00	2822.00	2875.77	5661.56	-218.25	-214.77	-539.96	-525.28
8.5in Open Hole	5722.00	22531.00	16809.00	5661.56	7099.52	-539.96	-525.28	9658.19	-11990.87
5.5in Casing Production	26.00	22531.00	22505.00	26.00	7099.52	0.00	0.00	9658.19	-11990.87

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Constance Taylor WTZ 1H BHL Rev-5	7071.50	9679.28	-11971.84	1718742.40	14410796.33	39°40'52.5782"N	80°43'17.7830"W	point
Constance Taylor WTZ 1H LP Rev-4	7429.00	-223.08	-1218.88	1729491.14	14400897.86	39°39'14.3625"N	80°41'0.6959"W	point

RECEIVED
Office of Oil and Gas

JUN 03 2021

WV Department of
Environmental Protection

REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	Constance Taylor Wtz 1H
Field	Wetzel	API	47103033520000
Facility	Constance Taylor Wtz Pad	Wellbore	Constance Taylor Wtz 1H AWB
Slot	Slot 1H		

WELLPATH COMPOSITION - Ref Wellbore: Constance Taylor Wtz 1H AWB Ref Wellpath: Constance Taylor Wtz 1H AWP Proj: 22531'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
26.00	400.00	Gyrodata 2015 - GC+WIR+DPIPE	01 Gyrodata <17 1/2"> (50'-400')	Constance Taylor Wtz 1H AWB	11/4/2020
400.00	919.00	Gyrodata 2015 - GC+WIR+DPIPE	02 Gyrodata <12 1/4"> (450'-919')	Constance Taylor Wtz 1H AWB	11/4/2020
919.00	2829.00	OWSG MWD rev2 + HRGM	03 Premier MWD <12 1/4"> (1029'-2829')	Constance Taylor Wtz 1H AWB	11/4/2020
2829.00	5650.00	OWSG MWD rev2 + HRGM	04 Premier MWD <8 3/4"> (2941'-5650')	Constance Taylor Wtz 1H AWB	11/5/2020
5650.00	22531.00	BH AutoTrak Curve (2019) (Short spacing)	05 BH A _i Curve <8 1/2"> (5703'-22493')	Constance Taylor Wtz 1H AWB	11/5/2020

RECEIVED
Office of Oil and Gas

JUN 03 2021

WV Department of
Environmental Protection

REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	Constance Taylor WTZ 1H
Field	Wetzel	API	47103033520000
Facility	Constance Taylor WTZ Pad	Wellbore	Constance Taylor WTZ 1H AWB
Slot	Slot 1H		

COMMENTS
<p>Wellpath general comments API: 47-103-03352-0000 BH Job #: 110614099 Rig: SDC 41 Duration: 11/07/2020 - 11/11/2020</p>

RECEIVED
Office of Oil and Gas

JUN 03 2021

WV Department of
Environmental Protection