

SWN PRODUCTION COMPANY, LLC



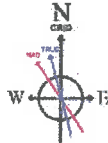
Location: Wetzel County, WV Slot: Slot 401H
 Field: Wetzel Well: Constance Taylor WTZ 401H
 Facility: Constance Taylor WTZ Pad Wellbore: Constance Taylor WTZ 401H PWB

Location Information

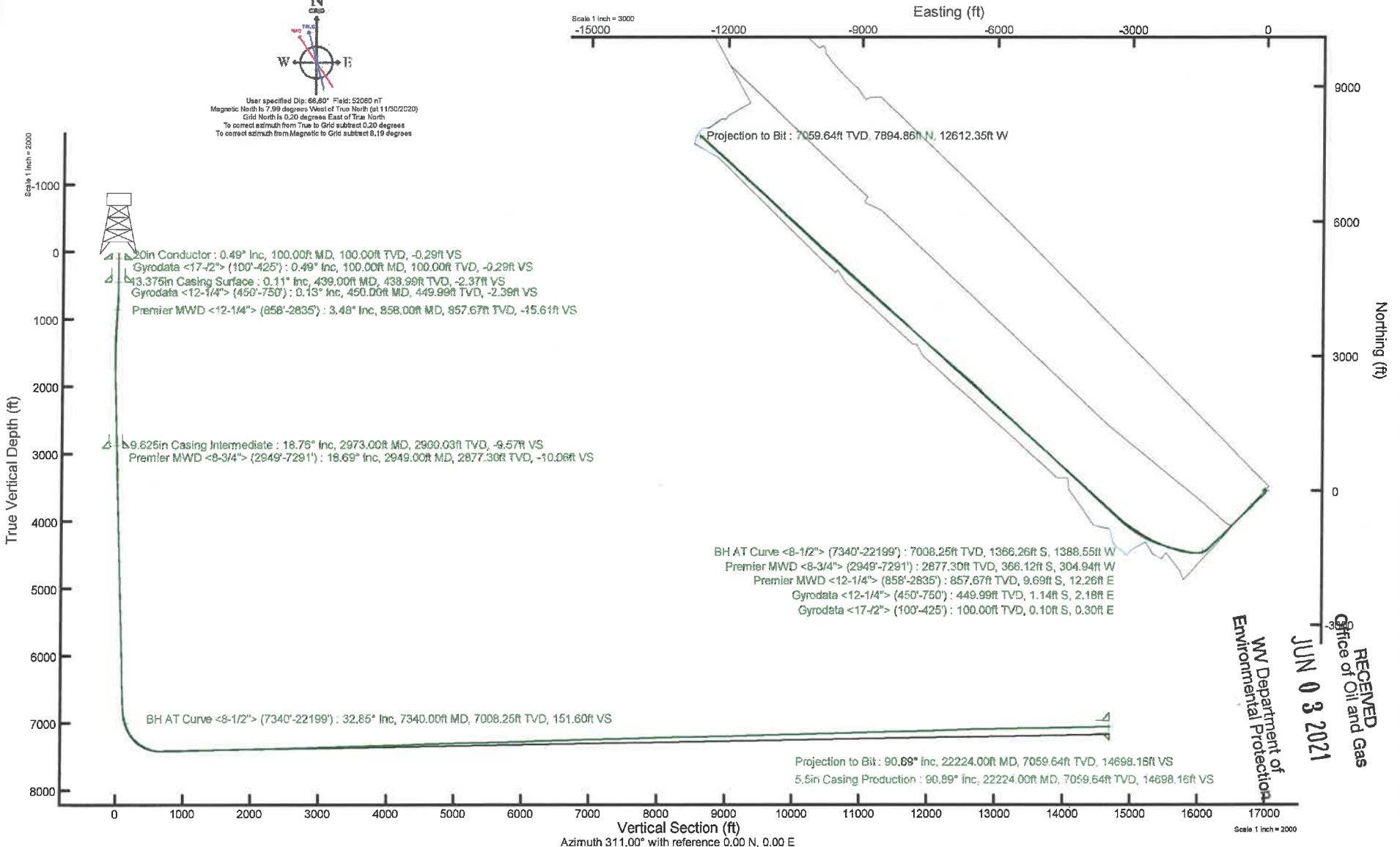
Facility Name		Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Constance Taylor WTZ Pad		1730676.583	14401131.208	39°39'16.6280"N	80°40'45.5230"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Slot 401H	-29.89	47.02	1730723.580	14401101.330	39°39'16.3309"N	80°40'44.9233"W
SDC 41 (RKB) to Ground level (At Slot: Slot 401H)				26ft		
Mean Sea Level to Ground level (At Slot: Slot 401H)				-1430ft		
SDC 41 (RKB) to Mean Sea Level				1456ft		

API: 47-103-03360-0000
 BH Job #: 110657669
 Rig: SDC 41
 Duration: 12/10/2020 - 12/13/2020

Plot reference wellpath is Constance Taylor WTZ 401H PWB Rev-A.0	Grid System: NAD83 / UTM Zone 17 North, US feet
True vertical depths are referenced to SDC 41 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to SDC 41 (RKB)	Scale: True distance
SDC 41 (RKB) to Mean Sea Level: 1456 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot 401H): -1430 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: atarjen on 2020-12-14; Database: WA_MPL_EASTERNUS_Defn



User specified Dip: 66.60° Field: 52060 nT
 Magnetic North is 7.99 degrees West of True North (at 11/02/2020)
 Grid North is 0.20 degrees East of True North
 To correct azimuth from True to Grid subtract 0.20 degrees
 To correct azimuth from Magnetic to Grid subtract 8.19 degrees



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Actual Wellpath Report

Constance Taylor WTZ 401H AWP Proj: 22224'
Page 1 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	Constance Taylor WTZ 401H
Field	Wetzel	API/Legal	
Facility	Constance Taylor WTZ Pad	Wellbore	Constance Taylor WTZ 401H AWB
Slot	Slot 401H		

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	12/14/2020 at 8:56:06 AM
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	-29.89	47.02	1730723.58	14401101.33	39°39'16.3309"N	80°40'44.9233"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 (RKB) to Facility Vertical Datum	1456.00ft
Horizontal Reference Pt	Slot	SDC 41 (RKB) to Mean Sea Level	1456.00ft
Vertical Reference Pt	SDC 41 (RKB)	SDC 41 (RKB) to Ground Level at Slot (Slot 401H)	26.00ft
MD Reference Pt	SDC 41 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	311.00°

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Page 2 of 13



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Field	Wetzel	API/Legal	
Facility	Constance Taylor WTZ Pad	Wellbore	Constance Taylor WTZ 401H AWB
Slot	Slot 401H		

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	109.240	0.00	0.00	0.00	0.00	1730723.58	14401101.33	39°39'16.3309"N	80°40'44.9233"W	0.00	0.000	0.00	0.00	0.00
26.00	0.000	109.240	26.00	0.00	0.00	0.00	1730723.58	14401101.33	39°39'16.3309"N	80°40'44.9233"W	0.00	0.000	0.00	0.00	0.00
100.00	0.490	109.240	100.00	-0.29	-0.10	0.30	1730723.88	14401101.23	39°39'16.3299"N	80°40'44.9194"W	0.32	109.240	0.66	0.66	0.00
125.00	0.500	109.290	125.00	-0.49	-0.18	0.50	1730724.08	14401101.15	39°39'16.3292"N	80°40'44.9168"W	0.53	109.250	0.04	0.04	0.20
150.00	0.510	105.700	150.00	-0.70	-0.24	0.71	1730724.29	14401101.09	39°39'16.3285"N	80°40'44.9142"W	0.75	108.731	0.13	0.04	-14.36
175.00	0.580	113.900	175.00	-0.92	-0.32	0.94	1730724.52	14401101.01	39°39'16.3277"N	80°40'44.9113"W	0.99	109.051	0.42	0.28	32.80
200.00	0.640	113.240	199.99	-1.17	-0.43	1.18	1730724.76	14401100.90	39°39'16.3267"N	80°40'44.9082"W	1.26	110.005	0.24	0.24	-2.64
225.00	0.410	100.260	224.99	-1.38	-0.50	1.40	1730724.98	14401100.83	39°39'16.3259"N	80°40'44.9054"W	1.48	109.724	1.03	-0.92	-51.92
250.00	0.440	114.510	249.99	-1.55	-0.56	1.57	1730725.15	14401100.77	39°39'16.3254"N	80°40'44.9032"W	1.67	109.494	0.44	0.12	57.00
275.00	0.290	142.150	274.99	-1.70	-0.65	1.70	1730725.28	14401100.68	39°39'16.3245"N	80°40'44.9016"W	1.82	110.836	0.91	-0.60	110.56
300.00	0.280	146.210	299.99	-1.83	-0.75	1.77	1730725.35	14401100.58	39°39'16.3235"N	80°40'44.9007"W	1.92	112.872	0.09	-0.04	16.24
325.00	0.220	133.190	324.99	-1.93	-0.83	1.84	1730725.42	14401100.50	39°39'16.3227"N	80°40'44.8998"W	2.02	114.298	0.33	-0.24	-52.08
350.00	0.230	126.120	349.99	-2.03	-0.89	1.91	1730725.49	14401100.44	39°39'16.3220"N	80°40'44.8988"W	2.11	114.999	0.12	0.04	-28.28
375.00	0.290	151.140	374.99	-2.14	-0.98	1.99	1730725.56	14401100.35	39°39'16.3212"N	80°40'44.8979"W	2.21	116.215	0.51	0.24	100.08
400.00	0.250	124.360	399.99	-2.25	-1.06	2.06	1730725.64	14401100.27	39°39'16.3204"N	80°40'44.8970"W	2.32	117.301	0.52	-0.16	-107.12
425.00	0.170	102.250	424.99	-2.34	-1.10	2.14	1730725.72	14401100.23	39°39'16.3200"N	80°40'44.8959"W	2.41	117.231	0.45	-0.32	-88.44
450.00	0.130	180.250	449.99	-2.39	-1.14	2.18	1730725.76	14401100.19	39°39'16.3196"N	80°40'44.8955"W	2.46	117.597	0.77	-0.16	312.00
475.00	0.170	116.680	474.99	-2.45	-1.18	2.21	1730725.79	14401100.15	39°39'16.3192"N	80°40'44.8950"W	2.51	118.159	0.65	0.16	-254.28
500.00	0.120	165.240	499.99	-2.50	-1.23	2.25	1730725.83	14401100.10	39°39'16.3187"N	80°40'44.8945"W	2.56	118.566	0.51	-0.20	194.24
525.00	0.280	144.040	524.99	-2.58	-1.30	2.29	1730725.87	14401100.03	39°39'16.3180"N	80°40'44.8940"W	2.64	119.550	0.69	0.64	-84.80
550.00	0.580	143.140	549.99	-2.77	-1.45	2.41	1730725.98	14401099.88	39°39'16.3165"N	80°40'44.8926"W	2.81	121.100	1.20	1.20	-3.60
575.00	0.770	140.300	574.99	-3.06	-1.68	2.59	1730726.17	14401099.65	39°39'16.3142"N	80°40'44.8902"W	3.09	123.007	0.77	0.76	-11.36
600.00	1.110	143.830	599.98	-3.46	-2.01	2.84	1730726.42	14401099.32	39°39'16.3110"N	80°40'44.8870"W	3.48	125.249	1.38	1.36	14.12
625.00	1.200	139.650	624.98	-3.95	-2.40	3.15	1730726.73	14401098.93	39°39'16.3071"N	80°40'44.8831"W	3.96	127.306	0.49	0.36	-16.72
650.00	1.470	136.020	649.97	-4.53	-2.83	3.54	1730727.12	14401098.50	39°39'16.3028"N	80°40'44.8781"W	4.54	128.627	1.13	1.08	-14.52
675.00	2.110	131.810	674.96	-5.31	-3.37	4.11	1730727.69	14401097.96	39°39'16.2975"N	80°40'44.8709"W	5.31	129.347	2.61	2.56	-16.84
700.00	2.780	130.460	699.94	-6.38	-4.07	4.91	1730728.49	14401097.26	39°39'16.2905"N	80°40'44.8606"W	6.38	129.631	2.69	2.68	-5.40
725.00	3.290	129.090	724.90	-7.70	-4.92	5.93	1730729.51	14401096.42	39°39'16.2822"N	80°40'44.8476"W	7.70	129.646	2.06	2.04	-5.48
750.00	3.390	126.890	749.86	-9.16	-5.81	7.08	1730730.66	14401095.52	39°39'16.2733"N	80°40'44.8330"W	9.16	129.380	0.65	0.40	-8.80
858.00	3.480	126.720	857.67	-15.61	-9.69	12.26	1730735.84	14401091.65	39°39'16.2348"N	80°40'44.7669"W	15.63	128.313	0.08	0.08	-0.16



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Page 3 of 13



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Field	Wetzel	API/Legal	
Facility	Constance Taylor WTZ Pad	Wellbore	Constance Taylor WTZ 401H AWB
Slot	Slot 401H		

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]
951.00	3.380	128.150	950.50	-21.16	-13.07	16.68	1730740.25	14401088.27	39°39'16.2012"N	80°40'44.7106"W	21.19	128.080	0.14	-0.11	1.54
1039.00	3.400	142.030	1038.35	-26.31	-16.73	20.33	1730743.90	14401084.61	39°39'16.1649"N	80°40'44.6642"W	26.32	129.456	0.93	0.02	15.77
1129.00	4.180	171.470	1128.16	-31.43	-22.08	22.45	1730746.02	14401079.26	39°39'16.1120"N	80°40'44.6372"W	31.49	134.515	2.30	0.87	32.71
1221.00	5.570	191.530	1219.83	-36.18	-29.77	22.06	1730745.63	14401071.57	39°39'16.0360"N	80°40'44.6426"W	37.05	143.461	2.37	1.51	21.80
1313.00	6.650	205.370	1311.31	-39.81	-38.96	18.88	1730742.46	14401062.39	39°39'15.9453"N	80°40'44.6836"W	43.29	154.139	1.98	1.17	15.04
1405.00	8.390	215.670	1402.52	-41.87	-49.22	12.69	1730736.26	14401052.12	39°39'15.8440"N	80°40'44.7633"W	50.83	165.548	2.39	1.89	11.20
1495.00	9.860	220.690	1491.38	-42.52	-60.40	3.83	1730727.41	14401040.95	39°39'15.7339"N	80°40'44.8770"W	60.52	176.369	1.86	1.63	5.58
1584.00	11.720	223.690	1578.80	-42.14	-72.72	-7.38	1730716.20	14401028.64	39°39'15.6125"N	80°40'45.0209"W	73.09	185.795	2.18	2.09	3.37
1676.00	13.820	228.010	1668.52	-40.36	-86.83	-22.00	1730701.59	14401014.54	39°39'15.4736"N	80°40'45.2085"W	89.57	194.220	2.51	2.28	4.70
1764.00	15.480	228.230	1753.66	-37.60	-101.68	-38.58	1730685.02	14400999.69	39°39'15.3274"N	80°40'45.4211"W	108.75	200.775	1.89	1.89	0.25
1857.00	15.630	227.890	1843.25	-34.53	-118.35	-57.13	1730666.48	14400983.03	39°39'15.1633"N	80°40'45.6590"W	131.42	205.766	0.19	0.16	-0.37
1949.00	16.930	226.820	1931.56	-31.69	-135.83	-76.09	1730647.52	14400965.55	39°39'14.9913"N	80°40'45.9023"W	155.69	209.257	1.45	1.41	-1.16
2042.00	18.560	227.810	2020.14	-28.56	-155.04	-96.93	1730626.69	14400946.35	39°39'14.8022"N	80°40'46.1696"W	182.84	212.014	1.78	1.75	1.06
2135.00	18.890	226.820	2108.21	-25.28	-175.28	-118.87	1730604.75	14400926.12	39°39'14.6029"N	80°40'46.4511"W	211.79	214.145	0.49	0.35	-1.06
2225.00	18.650	226.070	2193.43	-22.53	-195.23	-139.86	1730583.77	14400906.18	39°39'14.4064"N	80°40'46.7204"W	240.16	215.618	0.38	-0.27	-0.83
2316.00	18.880	225.410	2279.59	-20.11	-215.66	-160.83	1730562.82	14400885.75	39°39'14.2053"N	80°40'46.9893"W	269.03	216.713	0.34	0.25	-0.73
2409.00	18.840	222.720	2367.60	-18.50	-237.26	-181.73	1730541.92	14400864.17	39°39'13.9926"N	80°40'47.2576"W	298.86	217.451	0.94	-0.04	-2.89
2501.00	19.070	223.110	2454.61	-17.50	-259.14	-202.08	1730521.58	14400842.29	39°39'13.7770"N	80°40'47.5187"W	328.62	217.947	0.29	0.25	0.42
2593.00	20.020	223.410	2541.31	-16.29	-281.56	-223.17	1730500.50	14400819.88	39°39'13.5562"N	80°40'47.7894"W	359.28	218.402	1.04	1.03	0.33
2682.00	19.470	222.870	2625.08	-15.16	-303.49	-243.73	1730479.94	14400797.96	39°39'13.3402"N	80°40'48.0533"W	389.25	218.768	0.65	-0.62	-0.61
2773.00	19.330	223.790	2710.91	-13.93	-325.48	-264.47	1730459.21	14400775.98	39°39'13.1236"N	80°40'48.3195"W	419.39	219.096	0.37	-0.15	1.01
2835.00	19.120	225.140	2769.45	-12.70	-340.05	-278.77	1730444.92	14400761.41	39°39'12.9801"N	80°40'48.5029"W	439.71	219.345	0.79	-0.34	2.18
2949.00	18.690	225.070	2877.30	-10.06	-366.12	-304.94	1730418.76	14400735.35	39°39'12.7234"N	80°40'48.8387"W	476.48	219.791	0.38	-0.38	-0.06
2995.00	18.820	223.400	2920.86	-9.22	-376.72	-315.25	1730408.45	14400724.76	39°39'12.6190"N	80°40'48.9710"W	491.22	219.924	1.20	0.28	-3.63
3086.00	19.910	221.210	3006.71	-8.55	-399.04	-335.55	1730388.16	14400702.45	39°39'12.3991"N	80°40'49.2315"W	521.37	220.060	1.44	1.20	-2.41
3179.00	20.310	227.040	3094.05	-6.80	-421.95	-357.79	1730365.93	14400679.54	39°39'12.1734"N	80°40'49.5170"W	553.23	220.296	2.20	0.43	6.27
3271.00	21.100	226.970	3180.11	-3.39	-444.14	-381.58	1730342.15	14400657.37	39°39'11.9551"N	80°40'49.8222"W	585.54	220.668	0.86	0.86	-0.08
3361.00	22.110	223.750	3263.79	-0.90	-467.43	-405.14	1730318.60	14400634.09	39°39'11.7257"N	80°40'50.1244"W	618.57	220.917	1.73	1.12	-3.58
3449.00	21.360	223.750	3345.53	0.67	-490.97	-427.68	1730296.07	14400610.56	39°39'11.4939"N	80°40'50.4136"W	651.12	221.059	0.85	-0.85	0.00
3539.00	19.120	231.370	3429.98	4.11	-512.01	-450.53	1730273.23	14400589.52	39°39'11.2867"N	80°40'50.7067"W	682.01	221.345	3.84	-2.49	8.47

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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]
3631.00	19.270	231.650	3516.87	9.63	-530.84	-474.21	1730249.56	14400570.70	39°39'11.1014"N	80°40'51.0103"W	711.80	221.775	0.19	0.16	0.30
3724.00	19.790	227.540	3604.52	14.26	-550.99	-497.86	1730225.92	14400550.56	39°39'10.9031"N	80°40'51.3136"W	742.60	222.100	1.58	0.56	-4.42
3815.00	18.160	228.390	3690.57	17.83	-570.81	-519.83	1730203.96	14400530.75	39°39'10.7080"N	80°40'51.5954"W	772.04	222.324	1.82	-1.79	0.93
3907.00	17.810	225.840	3778.08	20.87	-590.13	-540.64	1730183.15	14400511.43	39°39'10.5178"N	80°40'51.8623"W	800.34	222.494	0.94	-0.38	-2.77
4000.00	18.360	221.550	3866.49	22.21	-611.00	-560.56	1730163.24	14400490.57	39°39'10.3122"N	80°40'52.1180"W	829.19	222.535	1.55	0.59	-4.61
4092.00	19.030	226.000	3953.64	23.65	-632.27	-580.96	1730142.85	14400469.31	39°39'10.1028"N	80°40'52.3797"W	858.65	222.579	1.71	0.73	4.84
4185.00	18.960	225.760	4041.57	26.23	-653.34	-602.69	1730121.13	14400448.25	39°39'9.8953"N	80°40'52.6585"W	888.87	222.691	0.11	-0.08	-0.26
4277.00	19.130	222.490	4128.54	27.86	-674.88	-623.58	1730100.24	14400426.71	39°39'9.6831"N	80°40'52.9266"W	918.87	222.737	1.17	0.18	-3.55
4369.00	19.500	227.550	4215.37	30.00	-696.36	-645.10	1730078.74	14400405.24	39°39'9.4716"N	80°40'53.2026"W	949.25	222.811	1.86	0.40	5.50
4462.00	20.000	227.250	4302.90	33.51	-717.64	-668.23	1730055.61	14400383.98	39°39'9.2622"N	80°40'53.4993"W	980.58	222.958	0.55	0.54	-0.32
4554.00	19.810	224.180	4389.40	36.08	-739.50	-690.65	1730033.21	14400362.12	39°39'9.0469"N	80°40'53.7869"W	1011.85	223.044	1.15	-0.21	-3.34
4647.00	18.990	228.030	4477.13	38.81	-760.92	-712.88	1730010.98	14400340.71	39°39'8.8360"N	80°40'54.0722"W	1042.69	223.133	1.63	-0.88	4.14
4735.00	18.670	226.630	4560.42	41.94	-780.17	-733.76	1729990.10	14400321.47	39°39'8.6465"N	80°40'54.3400"W	1071.01	223.244	0.63	-0.36	-1.59
4826.00	18.510	223.050	4646.67	43.89	-800.72	-754.21	1729969.66	14400300.92	39°39'8.4440"N	80°40'54.6024"W	1100.00	223.287	1.27	-0.18	-3.93
4917.00	18.350	224.940	4733.00	45.39	-821.42	-774.19	1729949.69	14400280.23	39°39'8.2402"N	80°40'54.8588"W	1128.76	223.305	0.68	-0.18	2.08
5009.00	19.080	227.980	4820.14	48.21	-841.74	-795.59	1729928.30	14400259.92	39°39'8.0402"N	80°40'55.1333"W	1158.23	223.386	1.32	0.79	3.30
5099.00	19.530	226.490	4905.08	51.44	-861.94	-817.43	1729906.47	14400239.73	39°39'7.8412"N	80°40'55.4134"W	1187.91	223.482	0.74	0.50	-1.66
5190.00	18.860	221.240	4991.03	52.96	-883.47	-838.16	1729885.75	14400218.20	39°39'7.6292"N	80°40'55.6794"W	1217.80	223.492	2.03	-0.74	-5.77
5282.00	19.470	223.380	5077.93	53.66	-905.80	-858.50	1729865.42	14400195.89	39°39'7.4092"N	80°40'55.9404"W	1247.99	223.464	1.01	0.66	2.33
5375.00	19.950	226.730	5165.48	55.88	-927.94	-880.69	1729843.23	14400173.75	39°39'7.1912"N	80°40'56.2252"W	1279.33	223.504	1.32	0.52	3.60
5467.00	19.280	226.580	5252.14	58.93	-949.14	-903.15	1729820.78	14400152.56	39°39'6.9825"N	80°40'56.5133"W	1310.17	223.578	0.73	-0.73	-0.16
5557.00	18.950	227.990	5337.18	62.15	-969.13	-924.80	1729799.14	14400132.58	39°39'6.7856"N	80°40'56.7910"W	1339.58	223.659	0.63	-0.37	1.57
5648.00	19.060	227.050	5423.22	65.52	-989.15	-946.66	1729777.29	14400112.57	39°39'6.5886"N	80°40'57.0714"W	1369.15	223.743	0.36	0.12	-1.03
5740.00	19.920	226.040	5509.95	68.48	-1010.26	-968.94	1729755.02	14400091.47	39°39'6.3807"N	80°40'57.3571"W	1399.81	223.804	1.00	0.93	-1.10
5832.00	20.320	225.140	5596.34	71.01	-1032.41	-991.54	1729732.43	14400069.33	39°39'6.1626"N	80°40'57.6471"W	1431.44	223.843	0.55	0.43	-0.98
5924.00	19.390	224.840	5682.87	73.18	-1054.50	-1013.63	1729710.34	14400047.24	39°39'5.9450"N	80°40'57.9306"W	1462.68	223.868	1.02	-1.01	-0.33
6014.00	19.280	225.400	5767.79	75.32	-1075.53	-1034.75	1729689.24	14400026.22	39°39'5.7380"N	80°40'58.2014"W	1492.47	223.893	0.24	-0.12	0.62
6102.00	19.230	227.170	5850.87	77.99	-1095.58	-1055.72	1729668.27	14400006.18	39°39'5.5405"N	80°40'58.4705"W	1521.46	223.938	0.67	-0.06	2.01
6192.00	20.290	227.470	5935.57	81.35	-1116.21	-1078.09	1729645.91	14399985.56	39°39'5.3375"N	80°40'58.7574"W	1551.84	224.005	1.18	1.18	0.33
6284.00	19.830	223.620	6021.99	83.86	-1138.29	-1100.61	1729623.40	14399963.49	39°39'5.1200"N	80°40'59.0463"W	1583.37	224.036	1.52	-0.50	-4.18



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WV Department of
Environmental Protection

Actual Wellpath Report

Constance Taylor WTZ 401H AWP Proj: 22224'
Page 5 of 13



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Field	Wetzel	API/Legal	
Facility	Constance Taylor WTZ Pad	Wellbore	Constance Taylor WTZ 401H AWP
Slot	Slot 401H		

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]
6376.00	19.550	226.030	6108.61	85.92	-1160.27	-1122.45	1729601.57	14399941.51	39°39'4.9035"N	80°40'59.3266"W	1614.35	224.051	0.93	-0.30	2.62
6469.00	18.830	224.390	6196.44	88.17	-1181.80	-1144.15	1729579.88	14399919.99	39°39'4.6915"N	80°40'59.6050"W	1644.91	224.073	0.97	-0.77	-1.76
6561.00	18.610	226.130	6283.58	90.36	-1202.59	-1165.12	1729558.92	14399899.22	39°39'4.4868"N	80°40'59.8740"W	1674.43	224.094	0.65	-0.24	1.89
6653.00	18.630	225.960	6370.76	92.94	-1222.97	-1186.27	1729537.78	14399878.84	39°39'4.2861"N	80°41'0.1453"W	1703.79	224.127	0.06	0.02	-0.18
6744.00	19.320	225.670	6456.82	95.43	-1243.60	-1207.49	1729516.57	14399858.22	39°39'4.0830"N	80°41'0.4174"W	1733.37	224.156	0.77	0.76	-0.32
6835.00	18.420	228.320	6542.93	98.48	-1263.68	-1228.99	1729495.07	14399838.15	39°39'3.8853"N	80°41'0.6933"W	1762.75	224.203	1.37	-0.99	2.91
6928.00	17.970	228.250	6631.28	102.17	-1283.00	-1250.67	1729473.40	14399818.83	39°39'3.6951"N	80°41'0.9713"W	1791.72	224.269	0.48	-0.48	-0.08
7020.00	19.120	228.850	6718.50	106.02	-1302.37	-1272.60	1729451.48	14399799.47	39°39'3.5045"N	80°41'1.2526"W	1820.90	224.338	1.27	1.25	0.65
7109.00	20.480	231.320	6802.24	110.80	-1321.69	-1295.73	1729428.35	14399780.16	39°39'3.3143"N	80°41'1.5492"W	1850.89	224.432	1.79	1.53	2.78
7200.00	25.720	242.100	6885.95	120.77	-1340.90	-1325.65	1729398.45	14399760.96	39°39'3.1255"N	80°41'1.9325"W	1885.57	224.672	7.38	5.76	11.85
7291.00	29.940	249.040	6966.43	138.56	-1358.28	-1364.33	1729359.78	14399743.59	39°39'2.9551"N	80°41'2.4278"W	1925.18	225.127	5.84	4.64	7.63
7340.00	32.850	254.240	7008.25	151.60	-1366.26	-1388.55	1729335.58	14399735.60	39°39'2.8770"N	80°41'2.7378"W	1948.01	225.464	8.11	5.94	10.61
7395.00	34.020	254.780	7054.15	168.33	-1374.35	-1417.75	1729306.38	14399727.52	39°39'2.7981"N	80°41'3.1116"W	1974.56	225.891	2.19	2.13	0.98
7484.00	37.480	262.640	7126.41	200.20	-1384.37	-1468.67	1729255.48	14399717.51	39°39'2.7009"N	80°41'3.7630"W	2018.29	226.693	6.45	3.89	8.83
7574.00	44.410	269.840	7194.39	242.17	-1387.97	-1527.43	1729196.75	14399713.91	39°39'2.6673"N	80°41'4.5143"W	2063.85	227.739	9.31	7.70	8.00
7662.00	51.100	274.910	7253.54	293.10	-1385.12	-1592.43	1729131.77	14399716.75	39°39'2.6977"N	80°41'5.3452"W	2110.54	228.983	8.71	7.60	5.76
7752.00	56.940	281.040	7306.42	354.17	-1374.89	-1664.45	1729059.79	14399726.98	39°39'2.8014"N	80°41'6.2655"W	2158.86	230.442	8.51	6.49	6.81
7799.00	60.710	282.520	7330.75	389.26	-1366.67	-1703.80	1729020.45	14399735.20	39°39'2.8840"N	80°41'6.7682"W	2184.20	231.266	8.46	8.02	3.15
7844.00	65.520	283.920	7351.09	424.76	-1357.48	-1742.86	1728981.41	14399744.38	39°39'2.9761"N	80°41'7.2672"W	2209.14	232.086	11.04	10.69	3.11
7887.00	68.340	283.680	7367.94	459.95	-1348.05	-1781.27	1728943.01	14399753.81	39°39'3.0707"N	80°41'7.7579"W	2233.87	232.882	6.58	6.56	-0.56
7933.00	70.390	280.860	7384.15	497.69	-1338.91	-1823.33	1728900.96	14399762.95	39°39'3.1625"N	80°41'8.2952"W	2262.13	233.709	7.26	4.46	-6.13
7980.00	74.380	281.600	7398.37	536.56	-1330.18	-1867.26	1728857.05	14399771.67	39°39'3.2502"N	80°41'8.8564"W	2292.61	234.535	8.62	8.49	1.57
8025.00	77.690	285.140	7409.24	575.25	-1320.08	-1909.73	1728814.60	14399781.77	39°39'3.3515"N	80°41'9.3989"W	2321.57	235.346	10.60	7.36	7.87
8070.00	82.070	286.240	7417.14	615.28	-1308.10	-1952.37	1728771.98	14399793.75	39°39'3.4714"N	80°41'9.9435"W	2350.08	236.178	10.03	9.73	2.44
8117.00	87.320	285.710	7421.49	657.67	-1295.22	-1997.35	1728727.02	14399806.62	39°39'3.6002"N	80°41'10.5179"W	2380.55	237.038	11.23	11.17	-1.13
8206.00	91.290	284.850	7422.56	737.83	-1271.78	-2083.18	1728641.22	14399830.05	39°39'3.8349"N	80°41'11.6142"W	2440.70	238.596	4.56	4.46	-0.97
8296.00	91.420	284.880	7420.44	818.61	-1248.69	-2170.14	1728554.29	14399853.13	39°39'4.0660"N	80°41'12.7250"W	2503.75	240.084	0.15	0.14	0.03
8387.00	91.020	284.700	7418.50	900.23	-1225.47	-2258.10	1728466.36	14399876.34	39°39'4.2986"N	80°41'13.8485"W	2569.20	241.511	0.48	-0.44	-0.20
8478.00	91.080	288.670	7416.83	983.13	-1199.35	-2345.24	1728379.26	14399902.45	39°39'4.5597"N	80°41'14.9614"W	2634.12	242.915	4.36	0.07	4.36
8568.00	90.650	292.630	7415.47	1067.49	-1167.62	-2429.43	1728295.10	14399934.17	39°39'4.8762"N	80°41'16.0363"W	2695.46	244.330	4.43	-0.48	4.40



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WV Department of
Environmental Protection

Actual Wellpath Report

Constance Taylor WTZ 401H AWP Proj: 22224'
Page 6 of 13



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Field	Wetzel	API/Legal	
Facility	Constance Taylor WTZ Pad	Wellbore	Constance Taylor WTZ 401H AWB
Slot	Slot 401H		

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]
8660.00	92.310	293.360	7413.10	1154.95	-1131.70	-2514.09	1728210.48	14399970.08	39°39'5.2341"N	80°41'17.1171"W	2757.06	245.766	1.97	1.80	0.79
8752.00	91.450	294.820	7410.08	1242.92	-1094.16	-2598.03	1728126.57	14400007.60	39°39'5.6079"N	80°41'18.1886"W	2819.03	247.162	1.84	-0.93	1.59
8845.00	91.910	299.510	7407.35	1333.16	-1051.74	-2680.71	1728043.92	14400050.01	39°39'6.0301"N	80°41'19.2438"W	2879.65	248.578	5.07	0.49	5.04
8935.00	92.000	302.000	7404.28	1421.66	-1005.74	-2758.00	1727966.66	14400095.98	39°39'6.4872"N	80°41'20.2299"W	2935.66	249.965	2.77	0.10	2.77
9025.00	91.320	302.440	7401.67	1510.57	-957.78	-2834.11	1727890.58	14400143.93	39°39'6.9639"N	80°41'21.2008"W	2991.58	251.327	0.90	-0.76	0.49
9116.00	91.420	305.180	7399.50	1600.82	-907.16	-2909.69	1727815.03	14400194.52	39°39'7.4667"N	80°41'22.1649"W	3047.83	252.684	3.01	0.11	3.01
9207.00	91.080	305.140	7397.51	1691.33	-854.77	-2984.07	1727740.68	14400246.90	39°39'7.9870"N	80°41'23.1135"W	3104.08	254.016	0.38	-0.37	-0.04
9298.00	91.350	307.410	7395.58	1781.99	-800.94	-3057.41	1727667.37	14400300.70	39°39'8.5215"N	80°41'24.0488"W	3160.58	255.320	2.51	0.30	2.49
9388.00	90.800	309.180	7393.89	1871.87	-745.18	-3128.03	1727596.78	14400356.44	39°39'9.0750"N	80°41'24.9492"W	3215.57	256.600	2.06	-0.61	1.97
9478.00	91.450	311.310	7392.12	1961.84	-687.05	-3196.71	1727528.12	14400414.55	39°39'9.6518"N	80°41'25.8247"W	3269.71	257.870	2.47	0.72	2.37
9569.00	91.050	312.820	7390.14	2052.80	-626.10	-3264.25	1727460.61	14400475.47	39°39'10.2565"N	80°41'26.6855"W	3323.75	259.142	1.72	-0.44	1.66
9660.00	90.650	312.370	7388.79	2143.76	-564.52	-3331.23	1727393.66	14400537.03	39°39'10.8674"N	80°41'27.5391"W	3378.73	260.382	0.66	-0.44	-0.49
9751.00	91.690	313.360	7386.93	2234.69	-502.63	-3397.92	1727327.00	14400598.90	39°39'11.4813"N	80°41'28.3890"W	3434.89	261.586	1.58	1.14	1.09
9843.00	91.200	312.520	7384.61	2326.60	-439.98	-3465.24	1727259.70	14400661.53	39°39'12.1028"N	80°41'29.2470"W	3493.06	262.764	1.06	-0.53	-0.91
9935.00	91.630	311.860	7382.34	2418.55	-378.21	-3533.39	1727191.58	14400723.27	39°39'12.7155"N	80°41'30.1155"W	3553.57	263.890	0.86	0.47	-0.72
10025.00	92.220	313.220	7379.32	2508.47	-317.40	-3599.66	1727125.33	14400784.06	39°39'13.3188"N	80°41'30.9602"W	3613.63	264.961	1.65	0.66	1.51
10117.00	91.260	312.880	7376.52	2600.37	-254.62	-3666.86	1727058.16	14400846.81	39°39'13.9414"N	80°41'31.8166"W	3675.69	266.028	1.11	-1.04	-0.37
10207.00	91.510	313.140	7374.35	2690.28	-193.25	-3732.65	1726992.39	14400908.16	39°39'14.5502"N	80°41'32.6550"W	3737.65	267.036	0.40	0.28	0.29
10297.00	91.750	312.280	7371.79	2780.21	-132.23	-3798.76	1726926.32	14400969.15	39°39'15.1555"N	80°41'33.4975"W	3801.06	268.006	0.99	0.27	-0.96
10388.00	91.720	313.370	7369.03	2871.12	-70.40	-3865.47	1726859.63	14401030.96	39°39'15.7688"N	80°41'34.3477"W	3866.11	268.957	1.20	-0.03	1.20
10479.00	92.650	313.020	7365.56	2961.98	-8.16	-3931.76	1726793.37	14401093.18	39°39'16.3862"N	80°41'35.1926"W	3931.77	269.881	1.09	1.02	-0.38
10569.00	91.050	313.020	7362.66	3051.88	53.21	-3997.52	1726727.63	14401154.52	39°39'16.9949"N	80°41'36.0307"W	3997.88	270.763	1.78	-1.78	0.00
10660.00	91.600	313.140	7360.55	3142.79	115.35	-4063.97	1726661.20	14401216.63	39°39'17.6112"N	80°41'36.8776"W	4065.61	271.626	0.62	0.60	0.13
10751.00	91.600	312.650	7358.01	3233.71	177.26	-4130.61	1726594.59	14401278.52	39°39'18.2254"N	80°41'37.7269"W	4134.41	272.457	0.54	0.00	-0.54
10841.00	92.680	311.920	7354.65	3323.62	237.77	-4197.15	1726528.08	14401339.01	39°39'18.8256"N	80°41'38.5750"W	4203.88	273.242	1.45	1.20	-0.81
10932.00	91.290	312.530	7351.50	3414.54	298.89	-4264.49	1726460.76	14401400.10	39°39'19.4319"N	80°41'39.4333"W	4274.95	274.009	1.67	-1.53	0.67
11024.00	91.570	312.790	7349.20	3506.47	361.22	-4332.12	1726393.16	14401462.40	39°39'20.0501"N	80°41'40.2954"W	4347.16	274.766	0.42	0.30	0.28
11114.00	90.430	313.380	7347.63	3596.40	422.68	-4397.84	1726327.46	14401523.85	39°39'20.6598"N	80°41'41.1329"W	4418.11	275.490	1.43	-1.27	0.66
11205.00	93.140	312.940	7344.80	3687.28	484.89	-4464.18	1726261.15	14401586.03	39°39'21.2769"N	80°41'41.9785"W	4490.44	276.199	3.02	2.98	-0.48
11296.00	91.170	313.240	7341.38	3778.15	547.01	-4530.59	1726194.77	14401648.13	39°39'21.8930"N	80°41'42.8248"W	4563.49	276.884	2.19	-2.16	0.33



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JUN 03 2021

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Page 7 of 13



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Slot	Slot 401H		

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]
11386.00	91.570	313.060	7339.22	3868.06	608.55	-4596.23	1726129.15	14401709.64	39°39'22.5033"N	80°41'43.6614"W	4636.34	277.542	0.49	0.44	-0.20
11477.00	91.480	313.830	7336.80	3958.95	671.10	-4662.28	1726063.13	14401772.17	39°39'23.1238"N	80°41'44.5031"W	4710.33	278.191	0.85	-0.10	0.85
11568.00	91.230	312.960	7334.65	4049.84	733.60	-4728.38	1725997.05	14401834.64	39°39'23.7437"N	80°41'45.3456"W	4784.95	278.819	0.99	-0.27	-0.96
11658.00	91.170	311.810	7332.77	4139.79	794.26	-4794.84	1725930.62	14401895.28	39°39'24.3453"N	80°41'46.1927"W	4860.18	279.406	1.28	-0.07	-1.28
11749.00	91.690	313.080	7330.49	4230.73	855.65	-4861.97	1725863.52	14401956.65	39°39'24.9543"N	80°41'47.0484"W	4936.69	279.981	1.51	0.57	1.40
11839.00	92.990	312.720	7326.82	4320.61	916.86	-4927.84	1725797.67	14402017.83	39°39'25.5615"N	80°41'47.8880"W	5012.41	280.540	1.50	1.44	-0.40
11930.00	91.940	312.620	7322.91	4411.48	978.48	-4994.69	1725730.85	14402079.43	39°39'26.1727"N	80°41'48.7400"W	5089.63	281.084	1.16	-1.15	-0.11
12020.00	92.430	312.950	7319.47	4501.37	1039.57	-5060.69	1725664.87	14402140.49	39°39'26.7786"N	80°41'49.5813"W	5166.37	281.608	0.66	0.54	0.37
12111.00	91.350	313.380	7316.47	4592.26	1101.79	-5127.03	1725598.56	14402202.69	39°39'27.3957"N	80°41'50.4268"W	5244.08	282.128	1.28	-1.19	0.47
12201.00	91.660	311.410	7314.11	4682.20	1162.45	-5193.47	1725532.15	14402263.32	39°39'27.9974"N	80°41'51.2737"W	5321.98	282.616	2.22	0.34	-2.19
12292.00	92.490	313.150	7310.81	4773.11	1223.62	-5260.75	1725464.89	14402324.47	39°39'28.6043"N	80°41'52.1313"W	5401.18	283.094	2.12	0.91	1.91
12382.00	91.380	312.170	7307.78	4863.02	1284.58	-5326.90	1725398.77	14402385.40	39°39'29.2088"N	80°41'52.9744"W	5479.60	283.558	1.64	-1.23	-1.09
12473.00	91.750	313.270	7305.29	4953.94	1346.29	-5393.73	1725331.97	14402447.09	39°39'29.8209"N	80°41'53.8262"W	5559.21	284.015	1.27	0.41	1.21
12563.00	92.740	312.070	7301.76	5043.83	1407.24	-5459.85	1725265.88	14402508.02	39°39'30.4255"N	80°41'54.6690"W	5638.29	284.453	1.73	1.10	-1.33
12654.00	91.170	312.340	7298.66	5134.76	1468.33	-5527.21	1725198.54	14402569.09	39°39'31.0315"N	80°41'55.5278"W	5718.93	284.877	1.75	-1.73	0.30
12744.00	91.290	312.640	7296.73	5224.70	1529.11	-5593.56	1725132.21	14402629.84	39°39'31.6344"N	80°41'56.3735"W	5798.81	285.289	0.36	0.13	0.33
12835.00	91.480	311.680	7294.53	5315.66	1590.17	-5661.00	1725064.80	14402690.88	39°39'32.2401"N	80°41'57.2332"W	5880.10	285.690	1.08	0.21	-1.05
12926.00	90.460	313.340	7292.99	5406.61	1651.65	-5728.07	1724997.76	14402752.33	39°39'32.8499"N	80°41'58.0881"W	5961.44	286.085	2.14	-1.12	1.82
13016.00	91.510	312.720	7291.44	5496.54	1713.06	-5793.85	1724932.01	14402813.71	39°39'33.4589"N	80°41'58.9265"W	6041.79	286.471	1.35	1.17	-0.69
13106.00	92.310	313.750	7288.44	5586.42	1774.67	-5859.38	1724866.50	14402875.30	39°39'34.0700"N	80°41'59.7618"W	6122.24	286.850	1.45	0.89	1.14
13197.00	90.980	313.190	7285.83	5677.29	1837.25	-5925.39	1724800.51	14402937.86	39°39'34.6906"N	80°42'0.6032"W	6203.69	287.227	1.59	-1.46	-0.62
13287.00	90.920	312.920	7284.34	5767.22	1898.68	-5991.15	1724734.79	14402999.27	39°39'35.2999"N	80°42'1.4413"W	6284.81	287.584	0.31	-0.07	-0.30
13379.00	91.660	312.610	7282.27	5859.15	1961.13	-6058.67	1724667.29	14403061.69	39°39'35.9194"N	80°42'2.3020"W	6368.16	287.936	0.87	0.80	-0.34
13470.00	92.310	313.670	7279.11	5950.04	2023.32	-6125.03	1724600.96	14403123.85	39°39'36.5361"N	80°42'3.1479"W	6450.57	288.280	1.37	0.71	1.16
13560.00	90.120	311.310	7277.21	6039.97	2084.09	-6191.37	1724534.64	14403184.60	39°39'37.1389"N	80°42'3.9936"W	6532.73	288.604	3.58	-2.43	-2.62
13651.00	93.690	317.620	7274.18	6130.70	2147.75	-6256.24	1724469.80	14403248.24	39°39'37.7702"N	80°42'4.8203"W	6614.63	288.947	7.96	3.92	6.93
13742.00	91.750	315.250	7269.86	6221.17	2213.60	-6318.88	1724407.18	14403314.07	39°39'38.4231"N	80°42'5.6184"W	6695.39	289.306	3.36	-2.13	-2.60
13832.00	91.380	313.630	7267.40	6310.98	2276.59	-6383.11	1724342.97	14403377.03	39°39'39.0477"N	80°42'6.4371"W	6776.95	289.629	1.85	-0.41	-1.80
13924.00	91.450	311.420	7265.13	6402.91	2338.75	-6450.89	1724275.22	14403439.17	39°39'39.6642"N	80°42'7.3011"W	6861.76	289.928	2.40	0.08	-2.40
14015.00	91.260	311.060	7262.98	6493.88	2398.73	-6519.30	1724206.84	14403499.11	39°39'40.2592"N	80°42'8.1732"W	6946.59	290.201	0.45	-0.21	-0.40



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Actual Wellpath Report

Constance Taylor WTZ 401H AWP Proj: 22224'

Page 8 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	Constance Taylor WTZ 401H
Field	Wetzel	API/Legal	
Facility	Constance Taylor WTZ Pad	Wellbore	Constance Taylor WTZ 401H AWB
Slot	Slot 401H		

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]
14105.00	92.220	311.690	7260.24	6583.84	2458.19	-6586.80	1724139.36	14403558.55	39°39'40.8490"N	80°42'9.0339"W	7030.55	290.466	1.28	1.07	0.70
14194.00	91.350	311.090	7257.47	6672.79	2517.00	-6653.54	1724072.65	14403617.34	39°39'41.4325"N	80°42'9.8847"W	7113.71	290.721	1.19	-0.98	-0.67
14283.00	91.690	311.670	7255.11	6761.76	2575.81	-6720.30	1724005.92	14403676.13	39°39'42.0159"N	80°42'10.7358"W	7197.03	290.971	0.76	0.38	0.65
14371.00	91.970	312.280	7252.30	6849.70	2634.64	-6785.68	1723940.56	14403734.93	39°39'42.5994"N	80°42'11.5694"W	7279.20	291.219	0.76	0.32	0.69
14460.00	91.750	310.940	7249.41	6938.64	2693.71	-6852.19	1723874.08	14403793.98	39°39'43.1853"N	80°42'12.4173"W	7362.65	291.461	1.52	-0.25	-1.51
14548.00	91.320	311.290	7247.05	7026.61	2751.55	-6918.47	1723807.83	14403851.80	39°39'43.7592"N	80°42'13.2623"W	7445.55	291.688	0.63	-0.49	0.40
14638.00	91.110	311.970	7245.15	7116.59	2811.33	-6985.72	1723740.60	14403911.55	39°39'44.3521"N	80°42'14.1198"W	7530.20	291.922	0.79	-0.23	0.76
14725.00	91.230	310.900	7243.37	7203.56	2868.89	-7050.93	1723675.42	14403969.09	39°39'44.9231"N	80°42'14.9512"W	7612.24	292.140	1.24	0.14	-1.23
14815.00	91.230	310.100	7241.44	7293.54	2927.32	-7119.35	1723607.03	14404027.51	39°39'45.5028"N	80°42'15.8236"W	7697.69	292.351	0.89	0.00	-0.89
14905.00	91.690	311.250	7239.14	7383.51	2985.96	-7187.58	1723538.82	14404086.12	39°39'46.0846"N	80°42'16.6936"W	7783.15	292.560	1.38	0.51	1.28
14995.00	91.050	311.340	7236.99	7473.48	3045.34	-7255.18	1723471.24	14404145.47	39°39'46.6736"N	80°42'17.5555"W	7868.40	292.770	0.72	-0.71	0.10
15083.00	91.350	310.950	7235.15	7561.46	3103.23	-7321.44	1723405.02	14404203.34	39°39'47.2478"N	80°42'18.4003"W	7951.95	292.970	0.56	0.34	-0.44
15171.00	91.230	309.760	7233.17	7649.43	3160.20	-7388.48	1723338.00	14404260.28	39°39'47.8130"N	80°42'19.2552"W	8035.95	293.157	1.36	-0.14	-1.35
15261.00	92.150	311.190	7230.51	7739.38	3218.59	-7456.91	1723269.60	14404318.65	39°39'48.3923"N	80°42'20.1277"W	8121.87	293.346	1.89	1.02	1.59
15350.00	92.120	312.570	7227.20	7828.31	3277.96	-7523.13	1723203.41	14404378.00	39°39'48.9812"N	80°42'20.9720"W	8206.24	293.544	1.55	-0.03	1.55
15440.00	91.170	312.280	7224.61	7918.24	3338.65	-7589.53	1723137.03	14404438.67	39°39'49.5832"N	80°42'21.8186"W	8291.42	293.745	1.10	-1.06	-0.32
15530.00	91.420	311.250	7222.58	8008.21	3398.58	-7656.64	1723069.94	14404498.58	39°39'50.1776"N	80°42'22.6742"W	8377.02	293.935	1.18	0.28	-1.14
15618.00	91.630	311.490	7220.24	8096.18	3456.72	-7722.66	1723003.95	14404556.69	39°39'50.7543"N	80°42'23.5159"W	8460.99	294.114	0.36	0.24	0.27
15708.00	91.570	312.280	7217.73	8186.13	3516.78	-7789.64	1722937.00	14404616.73	39°39'51.3501"N	80°42'24.3699"W	8546.71	294.298	0.88	-0.07	0.88
15798.00	91.320	310.820	7215.46	8276.10	3576.46	-7856.97	1722869.70	14404676.38	39°39'51.9420"N	80°42'25.2284"W	8632.67	294.475	1.65	-0.28	-1.62
15887.00	91.200	311.010	7213.50	8365.08	3634.73	-7924.21	1722802.48	14404734.64	39°39'52.5201"N	80°42'26.0857"W	8718.05	294.640	0.25	-0.13	0.21
15977.00	90.860	310.920	7211.88	8455.06	3693.73	-7992.16	1722734.56	14404793.61	39°39'53.1053"N	80°42'26.9521"W	8804.44	294.805	0.39	-0.38	-0.10
16065.00	91.480	311.280	7210.08	8543.04	3751.56	-8058.46	1722668.29	14404851.42	39°39'53.6791"N	80°42'27.7975"W	8888.92	294.964	0.81	0.70	0.41
16155.00	92.280	312.180	7207.13	8632.98	3811.44	-8125.58	1722601.19	14404911.27	39°39'54.2729"N	80°42'28.6534"W	8975.09	295.130	1.34	0.89	1.00
16245.00	91.110	312.190	7204.47	8722.92	3871.85	-8192.24	1722534.55	14404971.66	39°39'54.8721"N	80°42'29.5033"W	9061.13	295.297	1.30	-1.30	0.01
16335.00	91.420	312.670	7202.48	8812.87	3932.55	-8258.66	1722468.17	14405032.34	39°39'55.4742"N	80°42'30.3500"W	9147.15	295.463	0.63	0.34	0.53
16423.00	91.320	310.400	7200.38	8900.84	3990.88	-8324.50	1722402.34	14405090.65	39°39'56.0528"N	80°42'31.1896"W	9231.71	295.614	2.58	-0.11	-2.58
16513.00	90.430	310.730	7199.00	8990.82	4049.40	-8392.87	1722334.01	14405149.14	39°39'56.6333"N	80°42'32.0614"W	9318.68	295.756	1.05	-0.99	0.37
16603.00	90.920	311.240	7197.94	9080.82	4108.43	-8460.80	1722266.10	14405208.14	39°39'57.2188"N	80°42'32.9276"W	9405.55	295.900	0.79	0.54	0.57
16693.00	92.890	313.480	7194.95	9170.73	4169.03	-8527.26	1722199.67	14405268.72	39°39'57.8198"N	80°42'33.7750"W	9491.84	296.054	3.31	2.19	2.49



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Actual Wellpath Report

Constance Taylor WTZ 401H AWP Proj: 22224'

Page 9 of 13



REFERENCE WELLPATH IDENTIFICATION				
Operator	SWN PRODUCTION COMPANY, LLC		Well	Constance Taylor WTZ 401H
Field	Wetzel		API/Legal	
Facility	Constance Taylor WTZ Pad		Wellbore	Constance Taylor WTZ 401H AWB
Slot	Slot 401H			

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]	
16782.00	91.350	311.520	7191.66	9259.63	4229.11	-8592.83	1722134.13	14405328.78	39°39'58.4157"N	80°42'34.6110"W	9577.16	296.205	2.80	-1.73	-2.20	
16872.00	91.570	310.990	7189.37	9349.60	4288.44	-8660.47	1722066.51	14405388.08	39°39'59.0042"N	80°42'35.4734"W	9664.08	296.343	0.64	0.24	-0.59	
16962.00	91.450	311.130	7186.99	9439.57	4347.53	-8728.30	1721998.70	14405447.15	39°39'59.5904"N	80°42'36.3385"W	9751.12	296.478	0.20	-0.13	0.16	
17051.00	91.350	311.680	7184.82	9528.54	4406.38	-8795.04	1721931.99	14405505.98	39°40'0.1741"N	80°42'37.1894"W	9837.12	296.611	0.63	-0.11	0.62	
17141.00	91.480	312.580	7182.60	9618.50	4466.73	-8861.76	1721865.30	14405566.31	39°40'0.7727"N	80°42'38.0402"W	9923.84	296.750	1.01	0.14	1.00	
17230.00	91.940	312.130	7179.94	9707.43	4526.66	-8927.50	1721799.58	14405626.22	39°40'1.3671"N	80°42'38.8784"W	10009.55	296.887	0.72	0.52	-0.51	
17320.00	91.320	312.050	7177.38	9797.38	4586.97	-8994.27	1721732.85	14405686.50	39°40'1.9652"N	80°42'39.7296"W	10096.39	297.021	0.69	-0.69	-0.09	
17410.00	91.140	312.300	7175.45	9887.34	4647.38	-9060.95	1721666.19	14405746.88	39°40'2.5643"N	80°42'40.5799"W	10183.27	297.153	0.34	-0.20	0.28	
17499.00	91.230	312.420	7173.61	9976.30	4707.33	-9126.70	1721600.46	14405806.81	39°40'3.1589"N	80°42'41.4182"W	10269.16	297.284	0.17	0.10	0.13	
17587.00	91.140	311.690	7171.79	10064.26	4766.27	-9192.02	1721535.16	14405865.72	39°40'3.7434"N	80°42'42.2512"W	10354.26	297.408	0.84	-0.10	-0.83	
17677.00	91.290	312.630	7169.88	10154.22	4826.66	-9258.72	1721468.49	14405926.09	39°40'4.3424"N	80°42'43.1016"W	10441.29	297.533	1.06	0.17	1.04	
17767.00	92.220	312.890	7167.12	10244.14	4887.73	-9324.77	1721402.47	14405987.14	39°40'4.9481"N	80°42'43.9437"W	10528.12	297.662	1.07	1.03	0.29	
17856.00	90.950	311.790	7164.66	10333.07	4947.65	-9390.53	1721336.74	14406047.04	39°40'5.5424"N	80°42'44.7821"W	10614.20	297.784	1.89	-1.43	-1.24	
17944.00	91.940	312.030	7162.44	10421.03	5006.41	-9456.00	1721271.30	14406105.78	39°40'6.1252"N	80°42'45.6169"W	10699.53	297.899	1.16	1.13	0.27	
18035.00	91.350	312.100	7159.83	10511.98	5067.36	-9523.52	1721203.79	14406166.70	39°40'6.7296"N	80°42'46.4780"W	10787.75	298.017	0.65	-0.65	0.08	
18125.00	91.260	311.820	7157.78	10601.94	5127.52	-9590.43	1721136.91	14406226.83	39°40'7.3262"N	80°42'47.3312"W	10875.10	298.131	0.33	-0.10	-0.31	
18215.00	90.950	311.980	7156.05	10691.92	5187.61	-9657.41	1721069.96	14406286.90	39°40'7.9223"N	80°42'48.1852"W	10962.52	298.243	0.39	-0.34	0.18	
18304.00	91.230	313.080	7154.35	10780.87	5247.76	-9722.98	1721004.42	14406347.03	39°40'8.5188"N	80°42'49.0213"W	11048.77	298.357	1.28	0.31	1.24	
18395.00	92.370	312.700	7151.49	10871.77	5309.66	-9789.62	1720937.81	14406408.91	39°40'9.1326"N	80°42'49.8709"W	11136.84	298.474	1.32	1.25	-0.42	
18486.00	90.120	312.100	7149.52	10962.72	5371.00	-9856.80	1720870.65	14406470.23	39°40'9.7410"N	80°42'50.7275"W	11225.16	298.586	2.56	-2.47	-0.66	
18577.00	93.230	313.100	7146.86	11053.63	5432.56	-9923.75	1720803.73	14406531.76	39°40'10.3515"N	80°42'51.5812"W	11313.42	298.698	3.59	3.42	1.10	
18667.00	91.720	312.680	7142.97	11143.49	5493.76	-9989.62	1720737.88	14406592.93	39°40'10.9583"N	80°42'52.4211"W	11400.61	298.808	1.74	-1.68	-0.47	
18756.00	91.450	312.190	7140.51	11232.43	5553.79	-10055.28	1720672.25	14406652.94	39°40'11.5537"N	80°42'53.2583"W	11487.09	298.913	0.63	-0.30	-0.55	
18848.00	91.320	312.460	7138.29	11324.38	5615.72	-10123.28	1720604.27	14406714.84	39°40'12.1678"N	80°42'54.1254"W	11576.58	299.019	0.33	-0.14	0.29	
18940.00	92.180	313.250	7135.48	11416.29	5678.26	-10190.69	1720536.89	14406777.36	39°40'12.7881"N	80°42'54.9849"W	11665.88	299.127	1.27	0.93	0.86	
19028.00	91.110	312.840	7132.95	11504.19	5738.30	-10254.98	1720472.63	14406837.38	39°40'13.3834"N	80°42'55.8046"W	11751.28	299.230	1.30	-1.22	-0.47	
19117.00	91.660	312.900	7130.80	11593.12	5798.83	-10320.19	1720407.45	14406897.89	39°40'13.9837"N	80°42'56.6360"W	11837.77	299.331	0.62	0.62	0.07	
19207.00	91.350	312.650	7128.44	11683.04	5859.93	-10386.22	1720341.43	14406958.96	39°40'14.5896"N	80°42'57.4781"W	11925.29	299.432	0.44	-0.34	-0.28	
19298.00	91.600	312.210	7126.09	11773.99	5921.31	-10453.37	1720274.32	14407020.31	39°40'15.1983"N	80°42'58.3343"W	12013.94	299.529	0.56	0.27	-0.48	
19388.00	91.850	312.660	7123.38	11863.92	5982.01	-10519.76	1720207.95	14407080.99	39°40'15.8003"N	80°42'59.1809"W	12101.65	299.625	0.57	0.28	0.50	



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WV Department of
Environmental Protection

Actual Wellpath Report

Constance Taylor WTZ 401H AWP Proj: 22224'
Page 10 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	Constance Taylor WTZ 401H
Field	Wetzel	API/Legal	
Facility	Constance Taylor WTZ Pad	Wellbore	Constance Taylor WTZ 401H AWB
Slot	Slot 401H		

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)
19478.00	91.390	312.460	7120.84	11953.85	6042.86	-10586.03	1720141.71	14407141.81	39°40'16.4037"N	80°43'0.0259"W	12189.34	299.719	0.56	-0.51	-0.22
19567.00	91.690	312.470	7118.45	12042.79	6102.92	-10651.66	1720076.10	14407201.86	39°40'16.9993"N	80°43'0.8628"W	12276.13	299.811	0.34	0.34	0.01
19657.00	91.850	312.520	7115.67	12132.71	6163.69	-10717.99	1720009.80	14407262.60	39°40'17.6020"N	80°43'1.7086"W	12363.91	299.902	0.19	0.18	0.06
19748.00	91.970	312.010	7112.63	12223.64	6224.86	-10785.29	1719942.52	14407323.75	39°40'18.2086"N	80°43'2.5669"W	12452.77	299.992	0.58	0.13	-0.56
19838.00	92.150	312.510	7109.40	12313.56	6285.34	-10851.86	1719875.98	14407384.21	39°40'18.8084"N	80°43'3.4157"W	12540.67	300.079	0.59	0.20	0.56
19928.00	92.310	313.240	7105.90	12403.44	6346.53	-10917.76	1719810.10	14407445.37	39°40'19.4152"N	80°43'4.2561"W	12628.38	300.170	0.83	0.18	0.81
20018.00	92.560	313.150	7102.07	12493.29	6408.08	-10983.32	1719744.58	14407506.90	39°40'20.0255"N	80°43'5.0919"W	12716.00	300.261	0.30	0.28	-0.10
20109.00	91.780	312.900	7098.63	12584.17	6470.13	-11049.79	1719678.12	14407568.92	39°40'20.6408"N	80°43'5.9396"W	12804.71	300.351	0.90	-0.86	-0.27
20200.00	91.790	312.480	7095.79	12675.09	6531.80	-11116.65	1719611.29	14407630.56	39°40'21.2523"N	80°43'6.7921"W	12893.58	300.437	0.46	0.01	-0.46
20290.00	90.890	312.780	7093.69	12765.03	6592.73	-11182.85	1719545.12	14407691.48	39°40'21.8566"N	80°43'7.6363"W	12981.53	300.521	1.05	-1.00	0.33
20379.00	90.770	311.790	7092.40	12853.99	6652.61	-11248.68	1719479.31	14407751.33	39°40'22.4504"N	80°43'8.4758"W	13068.67	300.601	1.12	-0.13	-1.11
20470.00	90.740	312.940	7091.20	12944.96	6713.92	-11315.91	1719412.11	14407812.62	39°40'23.0584"N	80°43'9.3332"W	13157.76	300.681	1.26	-0.03	1.26
20563.00	90.920	312.870	7089.85	13037.90	6777.23	-11384.03	1719344.02	14407875.90	39°40'23.6861"N	80°43'10.2017"W	13248.66	300.767	0.21	0.19	-0.08
20655.00	91.320	312.560	7088.05	13129.84	6839.63	-11451.61	1719276.47	14407938.27	39°40'24.3049"N	80°43'11.0635"W	13338.66	300.848	0.55	0.43	-0.34
20741.00	91.110	311.330	7086.23	13215.80	6897.10	-11515.56	1719212.54	14407995.72	39°40'24.8748"N	80°43'11.8791"W	13423.04	300.919	1.45	-0.24	-1.43
20833.00	91.450	312.100	7084.18	13307.77	6958.30	-11584.22	1719143.91	14408056.90	39°40'25.4818"N	80°43'12.7547"W	13513.40	300.992	0.91	0.37	0.84
20923.00	90.830	312.170	7082.39	13397.74	7018.67	-11650.94	1719077.21	14408117.24	39°40'26.0805"N	80°43'13.6057"W	13601.70	301.065	0.69	-0.69	0.08
21013.00	90.800	312.330	7081.11	13487.71	7079.17	-11717.56	1719010.62	14408177.72	39°40'26.6805"N	80°43'14.4552"W	13689.99	301.138	0.18	-0.03	0.18
21105.00	90.460	312.620	7080.09	13579.67	7141.29	-11785.41	1718942.80	14408239.82	39°40'27.2965"N	80°43'15.3205"W	13780.20	301.213	0.49	-0.37	0.32
21198.00	90.770	311.990	7079.10	13672.64	7203.89	-11854.19	1718874.05	14408302.39	39°40'27.9172"N	80°43'16.1976"W	13871.47	301.287	0.75	0.33	-0.68
21288.00	90.860	312.050	7077.82	13762.62	7264.12	-11921.04	1718807.22	14408362.60	39°40'28.5146"N	80°43'17.0502"W	13959.90	301.356	0.12	0.10	0.07
21379.00	91.200	312.280	7076.18	13853.58	7325.20	-11988.48	1718739.81	14408423.65	39°40'29.1203"N	80°43'17.9103"W	14049.28	301.426	0.45	0.37	0.25
21469.00	90.860	311.880	7074.56	13943.55	7385.50	-12055.27	1718673.05	14408483.93	39°40'29.7183"N	80°43'18.7620"W	14137.72	301.493	0.58	-0.38	-0.44
21558.00	91.260	312.370	7072.92	14032.52	7445.19	-12121.27	1718607.07	14408543.60	39°40'30.3102"N	80°43'19.6037"W	14225.19	301.559	0.71	0.45	0.55
21648.00	91.600	313.090	7070.67	14122.45	7506.24	-12187.36	1718541.01	14408604.62	39°40'30.9155"N	80°43'20.4465"W	14313.46	301.629	0.88	0.38	0.80
21738.00	91.110	312.060	7068.54	14212.39	7567.11	-12253.61	1718474.78	14408665.47	39°40'31.5192"N	80°43'21.2915"W	14401.81	301.697	1.27	-0.54	-1.14
21827.00	90.890	312.250	7066.99	14301.36	7626.83	-12319.58	1718408.84	14408725.17	39°40'32.1114"N	80°43'22.1328"W	14489.33	301.761	0.33	-0.25	0.21
21917.00	91.350	312.610	7065.23	14391.31	7687.54	-12386.00	1718342.45	14408785.86	39°40'32.7134"N	80°43'22.9798"W	14577.76	301.826	0.65	0.51	0.40
22006.00	90.980	312.520	7063.42	14480.26	7747.73	-12451.53	1718276.94	14408846.02	39°40'33.3103"N	80°43'23.8156"W	14665.20	301.891	0.43	-0.42	-0.10
22095.00	90.920	312.270	7061.94	14569.22	7807.73	-12517.25	1718211.24	14408906.00	39°40'33.9052"N	80°43'24.6538"W	14752.70	301.954	0.29	-0.07	-0.28



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WV Department of
Environmental Protection

Actual Wellpath Report

Constance Taylor WTZ 401H AWP Proj: 22224'
Page 11 of 13



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Field	Wetzel	API/Legal	
Facility	Constance Taylor WTZ Pad	Wellbore	Constance Taylor WTZ 401H AWB
Slot	Slot 401H		

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]	
22183.00	91.200	312.570	7060.32	14657.18	7867.08	-12582.20	1718146.32	14408965.32	39°40'34.4938"N	80°43'25.4821"W	14839.23	302.016	0.47	0.32	0.34	
22199.00	90.890	312.680	7060.02	14673.17	7877.92	-12593.97	1718134.55	14408976.15	39°40'34.6012"N	80°43'25.6322"W	14854.96	302.027	2.06	-1.94	0.69	
22224.00‡	90.890	312.680	7059.64	14698.16	7894.86	-12612.35	1718116.18	14408993.09	39°40'34.7692"N	80°43'25.8666"W	14879.52	302.045	0.00	0.00	0.00	

HOLE & CASING SECTIONS - Ref Wellbore: Constance Taylor WTZ 401H AWB Ref Wellpath: Constance Taylor WTZ 401H AWP Proj: 22224'									
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	-0.10	0.30
17.5in Open Hole	100.00	439.00	339.00	100.00	438.99	-0.10	0.30	-1.12	2.17
13.375in Casing Surface	26.00	439.00	413.00	26.00	438.99	0.00	0.00	-1.12	2.17
12.25in Open Hole	439.00	2973.00	2534.00	438.99	2900.03	-1.12	2.17	-371.60	-310.35
9.625in Casing Intermediate	26.00	2973.00	2947.00	26.00	2900.03	0.00	0.00	-371.60	-310.35
8.75in Open Hole	2973.00	7365.00	4392.00	2900.03	7029.19	-371.60	-310.35	-1369.94	-1401.70
8.5in Open Hole	7365.00	22224.00	14859.00	7029.19	7059.64	-1369.94	-1401.70	7894.86	-12612.35
5.5in Casing Production	26.00	22224.00	22198.00	26.00	7059.64	0.00	0.00	7894.86	-12612.35



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WV Department of
Environmental Protection

Actual Wellpath Report

Constance Taylor WTZ 401H AWP Proj: 22224'

Page 12 of 13



REFERENCE WELLPATH IDENTIFICATION

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Field	Wetzel	API/Legal	
Facility	Constance Taylor WTZ Pad	Wellbore	Constance Taylor WTZ 401H AWB
Slot	Slot 401H		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Constance Taylor WTZ 401H BHL Rev-4	7172.32	7902.05	-12606.36	1718122.17	14409000.28	39°40'34.8401"N	80°43'25.7897"W	point
Constance Taylor WTZ 401H LP Rev-4	7418.00	-1305.14	-2016.47	1728707.91	14399796.70	39°39'3.5028"N	80°41'10.7628"W	point

WELLPATH COMPOSITION - Ref Wellbore: Constance Taylor WTZ 401H AWB Ref Wellpath: Constance Taylor WTZ 401H AWP Proj: 22224'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
26.00	425.00	Gyrodata 2015 - GC+WIR+DPIPE	01_Gyrodata <17-1/2"> (100'-425')	Constance Taylor WTZ 401H AWB	12/9/2020
425.00	750.00	Gyrodata 2015 - GC+WIR+DPIPE	02_Gyrodata <12-1/4"> (450'-750')	Constance Taylor WTZ 401H AWB	12/9/2020
750.00	2835.00	OWSG MWD rev2 + HRGM	03_Premier MWD <12-1/4"> (858'-2835')	Constance Taylor WTZ 401H AWB	12/9/2020
2835.00	7291.00	OWSG MWD rev2 + HRGM	04_Premier MWD <8-3/4"> (2949'-7291')	Constance Taylor WTZ 401H AWB	12/9/2020
7291.00	22224.00	BH AutoTrak Curve (2019) (Short spacing)	05_BH AT Curve <8-1/2"> (7340'-22199')	Constance Taylor WTZ 401H AWB	12/9/2020



Actual Wellpath Report

Constance Taylor WTZ 401H AWP Proj: 22224'
Page 13 of 13



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Slot	Slot 401H		

COMMENTS
<p>Wellpath general comments API: 47-103-03360-0000 BH Job #: 110657669 Rig: SDC 41 Duration: 12/10/2020 - 12/13/2020</p>

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