

Actual Wellpath Report

Riter WTZ 1H awp Proj: 32518'

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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Riter WTZ 1H
Field	Wetzel	API	47103036430000
Facility	Riter WTZ Pad	Wellbore	Riter WTZ 1H AWB
Slot	1H		

REPORT SETUP INFORMATION

Projection System	NAD83 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Tranlam
Scale	0.999617	Report Generated	10/7/2024 at 2:33:41 PM
Convergence at slot	0.27° East	Database	WA_MPL_EASTERNUS_Defn

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	1761485.15	14418836.68	39.7028891°	-80.5695517°
Facility Reference Pt			1761485.15	14418836.68	39.7028891°	-80.5695517°
Field Reference Pt			0.00	0.00	0.0000000°	-85.4887439°

WELLPATH DATUM

Calculation method	Minimum curvature	SDC 501 (KB) to Facility Vertical Datum	1437.13ft
Horizontal Reference Pt	Slot	SDC 501 (KB) to Mean Sea Level	1437.13ft
Vertical Reference Pt	SDC 501 (KB)	SDC 501 (KB) to Ground Level at Slot (1H)	26.00ft
MD Reference Pt	SDC 501 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	311.33°

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Office of Oil and Gas
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WV Department of
Environmental Protection

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Facility	Riter WTZ Pad	Wellbore	Riter WTZ 1H AWB
Slot	1H		

WELLPATH DATA (356 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 [°]	OLS [°/100ft]
0.00†	0.000	284.620	0.00	0.00	0.00	0.00	1761485.15	14418836.68	39.7028891	-80.5695517	0.00	0.000	0.00
26.00	0.000	284.620	26.00	0.00	0.00	0.00	1761485.15	14418836.68	39.7028891	-80.5695517	0.00	0.000	0.00
172.00	0.140	284.620	172.00	0.16	0.05	-0.17	1761484.98	14418836.73	39.7028892	-80.5695524	0.18	284.620	0.10
233.00	0.110	238.430	233.00	0.24	0.03	-0.29	1761484.86	14418836.71	39.7028892	-80.5695528	0.30	276.425	0.17
323.00	0.140	316.690	323.00	0.38	0.07	-0.44	1761484.71	14418836.75	39.7028893	-80.5695533	0.45	278.709	0.18
428.00	0.160	171.360	428.00	0.39	0.02	-0.51	1761484.64	14418836.70	39.7028891	-80.5695536	0.51	271.838	0.27
549.00	0.230	127.000	549.00	0.02	-0.30	-0.29	1761484.86	14418836.38	39.7028883	-80.5695528	0.42	224.359	0.13
594.00	0.260	101.110	594.00	-0.16	-0.37	-0.12	1761485.03	14418836.31	39.7028881	-80.5695522	0.39	197.642	0.25
685.00	0.360	144.700	685.00	-0.61	-0.64	0.25	1761485.40	14418836.04	39.7028873	-80.5695509	0.69	158.794	0.27
775.00	0.970	126.990	774.99	-1.65	-1.33	1.02	1761486.17	14418835.35	39.7028854	-80.5695481	1.68	142.532	0.71
865.00	3.270	115.410	864.92	-4.88	-2.89	3.95	1761489.10	14418833.79	39.7028811	-80.5695378	4.90	126.226	2.59
956.00	6.010	115.280	955.62	-11.95	-6.04	10.60	1761495.75	14418830.64	39.7028724	-80.5695142	12.20	119.676	3.01
1046.00	8.790	112.370	1044.86	-22.99	-10.67	21.22	1761506.37	14418826.01	39.7028595	-80.5694765	23.76	116.694	3.12
1137.00	11.380	112.310	1134.44	-38.05	-16.73	35.96	1761521.10	14418819.96	39.7028427	-80.5694242	39.66	114.945	2.85
1227.00	13.960	112.090	1222.25	-56.70	-24.18	54.24	1761539.37	14418812.51	39.7028220	-80.5693594	59.39	114.029	2.87
1318.00	15.840	116.110	1310.18	-79.05	-33.78	75.56	1761560.68	14418802.92	39.7027954	-80.5692838	82.77	114.084	2.36
1409.00	18.300	118.440	1397.17	-104.96	-46.05	99.28	1761584.39	14418790.65	39.7027614	-80.5691997	109.44	114.882	2.81
1499.00	21.260	118.440	1481.85	-134.65	-60.55	126.06	1761611.16	14418776.15	39.7027212	-80.5691048	139.85	115.657	3.29
1590.00	23.980	117.580	1565.84	-168.70	-76.97	156.96	1761642.05	14418759.74	39.7026757	-80.5689952	174.82	116.123	3.01
1680.00	26.830	117.400	1647.13	-206.19	-94.79	191.21	1761676.29	14418741.93	39.7026263	-80.5688738	213.42	116.369	3.17
1771.00	29.640	117.610	1727.30	-247.99	-114.67	229.39	1761714.46	14418722.05	39.7025712	-80.5687385	256.46	116.561	3.09
1861.00	30.720	119.730	1805.10	-292.13	-136.39	269.08	1761754.12	14418700.34	39.7025111	-80.5685978	301.67	116.879	1.69
1952.00	32.020	118.940	1882.79	-338.46	-159.59	310.38	1761795.41	14418677.15	39.7024469	-80.5684514	349.00	117.212	1.50
2042.00	31.840	118.220	1959.18	-384.89	-182.36	352.17	1761837.19	14418654.39	39.7023838	-80.5683033	396.59	117.376	0.47
2135.00	31.690	117.570	2038.25	-432.50	-205.27	395.44	1761880.44	14418631.49	39.7023204	-80.5681499	445.55	117.433	0.40
2226.00	31.900	116.370	2115.59	-478.95	-227.01	438.17	1761923.16	14418609.76	39.7022601	-80.5679984	493.49	117.388	0.73
2317.00	31.480	115.160	2193.02	-525.00	-247.79	481.22	1761966.19	14418588.98	39.7022025	-80.5678457	541.27	117.245	0.84
2409.00	31.460	114.880	2271.49	-571.10	-268.10	524.74	1762009.69	14418568.68	39.7021461	-80.5678914	589.27	117.064	0.16
2499.00	31.580	115.960	2348.21	-616.34	-288.30	567.24	1762052.17	14418548.49	39.7020901	-80.5675407	636.30	116.942	0.64
2590.00	31.100	116.680	2425.94	-662.06	-309.29	609.66	1762094.58	14418527.51	39.7020320	-80.5673903	683.63	116.899	0.67

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WELLPATH DATA (356 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]
2680.00	32.330	117.320	2502.50	-707.90	-330.77	651.82	1762136.71	14418506.04	39.7019724	-80.5672409	730.94	116.906	1.42
2771.00	30.240	117.850	2580.26	-753.80	-352.64	693.70	1762178.58	14418484.17	39.7019118	-80.5670924	778.19	116.947	2.32
2861.00	28.910	116.850	2658.53	-796.90	-373.06	733.15	1762218.02	14418463.77	39.7018553	-80.5669526	822.61	116.969	1.58
2952.00	27.500	115.100	2738.73	-838.37	-391.91	771.80	1762256.66	14418444.93	39.7018030	-80.5668155	865.60	116.921	1.80
3043.00	26.050	113.530	2819.97	-877.57	-408.80	809.15	1762293.99	14418428.04	39.7017562	-80.5666831	906.55	116.804	1.77
3151.00	25.520	111.850	2917.22	-922.09	-426.92	852.49	1762337.31	14418409.92	39.7017058	-80.5665294	953.41	116.602	0.84
3242.00	27.370	114.800	2998.70	-960.62	-442.99	889.68	1762374.48	14418393.86	39.7016612	-80.5663975	993.86	116.470	2.49
3332.00	28.400	115.940	3078.24	-1001.09	-461.03	927.70	1762412.50	14418375.82	39.7016112	-80.5662627	1035.95	116.426	1.29
3423.00	29.510	117.310	3157.87	-1043.71	-480.78	967.08	1762451.86	14418356.08	39.7015564	-80.5661231	1080.00	116.434	1.42
3513.00	33.140	120.410	3234.74	-1089.39	-503.42	1008.01	1762492.77	14418333.46	39.7014938	-80.5659780	1126.72	116.538	4.41
3604.00	35.180	119.600	3310.04	-1139.48	-528.96	1052.26	1762537.00	14418307.93	39.7014231	-80.5658212	1177.73	116.688	2.30
3694.00	31.990	117.010	3385.01	-1187.98	-552.60	1096.05	1762580.78	14418284.29	39.7013576	-80.5656659	1227.48	116.756	3.88
3785.00	32.540	119.050	3461.96	-1235.25	-575.43	1138.93	1762623.64	14418261.47	39.7012943	-80.5655140	1276.04	116.805	1.34
3876.00	34.640	117.780	3537.76	-1284.32	-599.37	1183.21	1762667.90	14418237.54	39.7012280	-80.5653570	1326.36	116.865	2.43
3966.00	35.590	116.280	3611.38	-1334.48	-622.89	1229.32	1762714.00	14418214.03	39.7011628	-80.5651936	1378.13	116.871	1.43
4058.00	35.590	117.340	3686.20	-1386.31	-647.04	1277.11	1762761.77	14418189.89	39.7010959	-80.5650241	1431.67	116.869	0.67
4148.00	35.380	116.470	3759.48	-1436.90	-670.68	1323.70	1762808.34	14418166.26	39.7010304	-80.5648590	1483.91	116.870	0.61
4239.00	35.570	115.850	3833.59	-1487.87	-693.96	1371.10	1762855.72	14418142.98	39.7009658	-80.5646909	1536.72	116.846	0.45
4329.00	35.090	116.010	3907.01	-1538.05	-716.72	1417.91	1762902.51	14418120.24	39.7009027	-80.5645250	1588.76	116.816	0.54
4420.00	35.180	116.340	3981.43	-1588.60	-739.82	1464.91	1762949.49	14418097.14	39.7008387	-80.5643583	1641.12	116.795	0.23
4510.00	35.030	116.010	4055.06	-1638.56	-762.65	1511.35	1762995.92	14418074.32	39.7007754	-80.5641936	1692.88	116.776	0.27
4601.00	35.130	116.320	4129.53	-1689.03	-785.71	1558.29	1763042.84	14418051.27	39.7007115	-80.5640272	1745.17	116.758	0.22
4692.00	34.830	117.460	4204.09	-1739.55	-809.31	1604.82	1763089.35	14418027.68	39.7006461	-80.5638623	1797.34	116.762	0.79
4783.00	34.050	117.050	4279.14	-1789.47	-832.88	1650.57	1763135.09	14418004.12	39.7005808	-80.5637001	1848.80	116.775	0.89
4876.00	34.290	116.790	4356.09	-1840.06	-856.52	1697.14	1763181.64	14417980.49	39.7005152	-80.5635350	1901.04	116.779	0.30
4967.00	34.240	117.060	4431.30	-1889.69	-879.72	1742.83	1763227.30	14417957.29	39.7004509	-80.5633731	1952.27	116.783	0.18
5058.00	32.980	117.180	4507.08	-1938.52	-902.69	1787.66	1763272.12	14417934.34	39.7003873	-80.5632141	2002.64	116.792	1.39
5148.00	31.960	115.760	4583.01	-1985.22	-924.23	1830.90	1763315.35	14417912.81	39.7003276	-80.5630608	2050.95	116.784	1.41
5238.00	33.770	113.280	4658.61	-2031.95	-944.47	1875.34	1763359.77	14417892.57	39.7002714	-80.5629033	2099.74	116.731	2.51
5329.00	34.930	112.210	4733.74	-2080.61	-964.31	1922.69	1763407.10	14417872.74	39.7002163	-80.5627353	2150.96	116.636	1.44

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Field	Wetzel	API	47103036430000
Facility	Riter WTZ Pad	Wellbore	Riter WTZ 1H AWB
Slot	1H		

WELLPATH DATA (356 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]
5419.00	34.820	112.530	4807.57	-2129.28	-983.90	1970.28	1763454.67	14417853.16	39.7001619	-80.5625665	2202.29	116.536	0.24
5510.00	33.750	114.760	4882.76	-2178.11	-1004.44	2017.24	1763501.61	14417832.62	39.7001049	-80.5624000	2253.47	116.470	1.81
5597.00	33.260	116.530	4955.31	-2224.34	-1025.22	2060.53	1763544.88	14417811.85	39.7000473	-80.5622465	2301.49	116.453	1.26
5690.00	32.900	118.530	5033.24	-2273.63	-1048.68	2105.54	1763589.88	14417788.41	39.6999823	-80.5620870	2352.24	116.476	1.24
5780.00	31.970	120.000	5109.20	-2320.83	-1072.26	2147.65	1763631.97	14417764.83	39.6999170	-80.5619377	2400.45	116.532	1.35
5870.00	32.170	121.510	5185.46	-2367.80	-1096.70	2188.71	1763673.02	14417740.40	39.6998493	-80.5617922	2448.10	116.614	0.92
5961.00	33.020	122.220	5262.13	-2416.15	-1122.58	2230.34	1763714.63	14417714.53	39.6997777	-80.5616447	2496.92	116.717	1.02
6052.00	32.570	121.550	5338.63	-2464.77	-1148.62	2272.19	1763756.47	14417688.50	39.6997057	-80.5614965	2546.01	116.817	0.64
6142.00	32.380	119.370	5414.56	-2512.22	-1173.11	2313.84	1763798.10	14417664.02	39.6996379	-80.5613489	2594.23	116.885	1.32
6208.00	32.600	117.670	5470.23	-2546.79	-1190.04	2344.99	1763829.23	14417647.10	39.6995910	-80.5612385	2629.67	116.907	1.42
6300.00	32.490	116.340	5547.78	-2594.74	-1212.51	2389.08	1763873.31	14417624.64	39.6995287	-80.5610822	2679.16	116.909	0.79
6390.00	31.950	116.430	5623.92	-2641.10	-1233.84	2432.07	1763916.28	14417603.32	39.6994696	-80.5609298	2727.14	116.900	0.60
6481.00	31.930	117.200	5701.15	-2687.71	-1255.55	2475.03	1763959.23	14417581.61	39.6994094	-80.5607775	2775.28	116.898	0.45
6572.00	31.880	116.990	5778.40	-2734.32	-1277.46	2517.85	1764002.03	14417559.71	39.6993487	-80.5606257	2823.38	116.901	0.13
6662.00	31.770	111.420	5854.88	-2779.64	-1296.90	2561.09	1764045.25	14417540.28	39.6992947	-80.5604724	2870.74	116.857	3.26
6753.00	31.900	116.920	5932.21	-2825.46	-1316.54	2604.84	1764088.99	14417520.65	39.6992402	-80.5603172	2918.64	116.813	3.19
6843.00	31.880	118.180	6008.63	-2871.63	-1338.53	2646.99	1764131.12	14417498.67	39.6991793	-80.5601678	2966.18	116.825	0.74
6934.00	31.820	118.410	6085.93	-2918.42	-1361.29	2689.28	1764173.39	14417475.91	39.6991162	-80.5600179	3014.19	116.848	0.15
7024.00	31.880	118.130	6162.38	-2964.68	-1383.79	2731.10	1764215.20	14417453.43	39.6990539	-80.5598697	3061.66	116.870	0.18
7115.00	31.540	118.400	6239.79	-3011.27	-1406.44	2773.23	1764257.31	14417430.79	39.6989912	-80.5597204	3109.48	116.892	0.40
7206.00	31.580	118.300	6317.33	-3057.68	-1429.05	2815.15	1764299.21	14417408.18	39.6989285	-80.5595718	3157.09	116.914	0.07
7296.00	31.500	118.450	6394.04	-3103.56	-1451.43	2856.57	1764340.62	14417385.81	39.6988666	-80.5594250	3204.16	116.935	0.12
7386.00	32.730	118.410	6470.26	-3150.20	-1474.20	2898.64	1764382.68	14417363.04	39.6988035	-80.5592759	3251.99	116.957	1.37
7477.00	32.810	118.100	6546.78	-3198.18	-1497.52	2942.03	1764426.05	14417339.73	39.6987389	-80.5591221	3301.23	116.977	0.20
7572.00	33.320	118.350	6626.39	-3248.66	-1522.03	2987.70	1764471.70	14417315.23	39.6986709	-80.5589602	3353.05	116.996	0.56
7663.00	30.930	115.120	6703.46	-3295.48	-1543.83	3030.88	1764514.86	14417293.44	39.6986105	-80.5588072	3401.42	116.993	3.23
7755.00	25.860	105.700	6784.41	-3336.32	-1559.32	3071.65	1764555.62	14417277.96	39.6985675	-80.5586625	3444.78	116.915	7.34
7846.00	20.650	88.330	6868.08	-3366.01	-1564.23	3106.86	1764590.81	14417273.05	39.6985535	-80.5585375	3478.42	116.724	9.41
7938.00	20.810	62.090	6954.31	-3383.70	-1556.09	3137.58	1764621.52	14417281.19	39.6985754	-80.5584282	3502.26	116.379	10.02
8030.00	22.140	39.650	7040.07	-3389.00	-1535.06	3163.13	1764647.06	14417302.21	39.6986328	-80.5583370	3515.93	115.887	8.99

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Operator	SWN PRODUCTION COMPANY, LLC	Well	Riter WTZ 1H
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8121.00	26.110	22.110	7123.21	-3381.89	-1503.25	3181.64	1764665.57	14417334.01	39.6987199	-80.5582707	3518.89	115.290	8.96
8212.00	30.590	8.680	7203.36	-3362.78	-1461.74	3192.69	1764676.61	14417375.50	39.6988337	-80.5582307	3511.40	114.600	8.54
8304.00	36.230	358.420	7280.19	-3331.59	-1411.34	3195.48	1764679.40	14417425.88	39.6989720	-80.5582199	3493.27	113.830	8.66
8396.00	43.940	348.670	7350.59	-3287.59	-1352.72	3188.44	1764672.36	14417484.48	39.6991330	-80.5582439	3463.52	112.990	10.79
8488.00	47.710	340.520	7414.75	-3232.44	-1289.27	3170.80	1764654.73	14417547.91	39.6993075	-80.5583055	3422.89	112.127	7.55
8580.00	55.040	333.800	7472.18	-3167.76	-1223.22	3142.75	1764626.69	14417613.93	39.6994891	-80.5584040	3372.41	111.267	9.79
8672.00	61.370	327.440	7520.66	-3094.00	-1155.25	3104.31	1764588.26	14417681.88	39.6996763	-80.5585394	3312.30	110.412	9.04
8764.00	69.670	324.230	7558.76	-3013.01	-1086.09	3057.27	1764541.24	14417751.01	39.6998668	-80.5587054	3244.45	109.557	9.56
8855.00	76.390	320.670	7585.31	-2927.66	-1017.16	3004.23	1764488.22	14417819.91	39.7000567	-80.5588927	3171.75	108.705	8.28
8947.00	83.680	316.190	7601.23	-2837.82	-949.46	2944.13	1764428.15	14417887.58	39.7002434	-80.5591051	3093.44	107.874	9.28
9039.00	90.180	316.040	7606.15	-2746.32	-883.28	2880.48	1764364.52	14417953.74	39.7004259	-80.5593301	3012.87	107.048	7.07
9131.00	89.970	312.560	7606.03	-2654.46	-819.04	2814.65	1764298.71	14418017.95	39.7006031	-80.5595629	2931.39	106.225	3.79
9222.00	90.030	312.660	7606.03	-2563.48	-757.43	2747.67	1764231.76	14418079.54	39.7007732	-80.5597999	2850.16	105.412	0.13
9314.00	89.970	312.630	7606.03	-2471.51	-695.11	2680.00	1764164.12	14418141.84	39.7009452	-80.5600393	2768.68	104.540	0.07
9405.00	89.720	312.680	7606.28	-2380.53	-633.45	2613.08	1764097.22	14418203.48	39.7011153	-80.5602761	2688.76	103.626	0.28
9497.00	89.660	312.580	7606.78	-2288.56	-571.14	2545.39	1764029.56	14418265.76	39.7012873	-80.5605155	2608.68	102.647	0.13
9589.00	89.750	312.220	7607.25	-2196.57	-509.11	2477.45	1763961.65	14418327.77	39.7014585	-80.5607559	2529.22	101.612	0.40
9681.00	90.740	312.910	7606.86	-2104.60	-446.88	2409.69	1763893.92	14418389.98	39.7016303	-80.5609956	2450.78	100.506	1.31
9773.00	90.680	312.640	7605.72	-2012.64	-384.40	2342.17	1763826.42	14418452.43	39.7018027	-80.5612345	2373.50	99.320	0.30
9864.00	90.710	312.770	7604.61	-1921.67	-322.69	2275.30	1763759.58	14418514.12	39.7019730	-80.5614711	2298.07	98.072	0.15
9956.00	90.740	312.520	7603.45	-1829.70	-260.37	2207.64	1763691.93	14418576.41	39.7021450	-80.5617105	2222.94	96.726	0.27
10048.00	90.740	312.630	7602.26	-1737.73	-198.13	2139.89	1763624.22	14418638.63	39.7023167	-80.5619501	2149.05	95.290	0.12
10140.00	90.800	312.660	7601.02	-1645.76	-135.81	2072.23	1763556.58	14418700.92	39.7024887	-80.5621895	2076.67	93.750	0.07
10231.00	90.740	312.450	7599.80	-1554.79	-74.27	2005.20	1763489.58	14418762.44	39.7026585	-80.5624267	2006.58	92.121	0.24
10323.00	90.460	312.590	7598.84	-1462.82	-12.10	1937.40	1763421.80	14418824.59	39.7028301	-80.5626666	1937.43	90.358	0.34
10415.00	90.740	312.840	7597.88	-1370.85	50.31	1869.80	1763354.23	14418886.97	39.7030024	-80.5629057	1870.48	88.459	0.41
10507.00	90.650	312.620	7596.76	-1278.88	112.73	1802.23	1763286.69	14418949.37	39.7031746	-80.5631448	1805.75	86.421	0.26
10598.00	90.770	312.750	7595.63	-1187.91	174.42	1735.34	1763219.82	14419011.03	39.7033449	-80.5633814	1744.08	84.260	0.19
10690.00	90.800	312.890	7594.37	-1095.95	236.95	1667.87	1763152.37	14419073.53	39.7035174	-80.5636201	1684.61	81.914	0.16
10781.00	90.980	312.780	7592.96	-1005.00	298.81	1601.14	1763085.68	14419135.37	39.7036881	-80.5638562	1628.79	79.429	0.23

Actual Wellpath Report

Riter WTZ 1H awp Proj: 32518'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	Riter WTZ 1H
Field	Wetzel	API	47103036430000
Facility	Riter WTZ Pad	Wellbore	Riter WTZ 1H AWB
Slot	1H		

WELLPATH DATA (356 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]
10873.00	90.650	312.650	7591.65	-913.03	361.21	1533.55	1763018.11	14419197.75	39.7038603	-80.5640953	1575.52	76.746	0.39
10965.00	90.490	312.510	7590.73	-821.06	423.46	1465.81	1762950.40	14419259.97	39.7040321	-80.5643350	1525.75	73.887	0.23
11057.00	90.650	312.320	7589.82	-729.08	485.51	1397.90	1762882.51	14419322.00	39.7042034	-80.5645753	1479.81	70.847	0.27
11148.00	90.250	312.270	7589.10	-638.10	546.74	1330.59	1762815.22	14419383.21	39.7043724	-80.5648135	1438.54	67.662	0.44
11240.00	90.310	312.510	7588.65	-546.11	608.77	1262.64	1762747.30	14419445.21	39.7045435	-80.5650539	1401.73	64.260	0.27
11332.00	90.250	312.240	7588.20	-454.13	670.77	1194.67	1762679.36	14419507.19	39.7047147	-80.5652944	1370.10	60.687	0.30
11424.00	89.970	312.030	7588.03	-362.14	732.49	1126.45	1762611.17	14419568.89	39.7048850	-80.5655358	1343.67	56.965	0.38
11516.00	90.180	312.300	7587.91	-270.15	794.25	1058.26	1762543.00	14419630.62	39.7050554	-80.5657771	1323.16	53.111	0.37
11608.00	90.340	312.270	7587.49	-178.16	856.15	990.20	1762474.97	14419692.50	39.7052263	-80.5660179	1309.00	49.153	0.18
11699.00	90.430	312.720	7586.88	-87.18	917.62	923.10	1762407.90	14419753.94	39.7053959	-80.5662553	1301.59	45.171	0.50
11791.00	90.370	312.700	7586.24	4.79	980.02	855.50	1762340.32	14419816.32	39.7055681	-80.5664945	1300.89	41.119	0.07
11883.00	90.370	312.260	7585.64	96.77	1042.15	787.65	1762272.50	14419878.43	39.7057396	-80.5667346	1306.32	37.082	0.48
11974.00	90.090	312.070	7585.28	187.76	1103.23	720.20	1762205.08	14419939.49	39.7059082	-80.5669733	1317.50	33.137	0.37
12066.00	90.370	312.200	7584.91	279.75	1164.95	651.98	1762136.88	14420001.18	39.7060785	-80.5672147	1334.99	29.234	0.34
12158.00	90.430	312.320	7584.27	371.73	1226.82	583.89	1762068.82	14420063.03	39.7062492	-80.5674556	1358.88	25.452	0.15
12250.00	90.340	312.700	7583.65	463.71	1288.99	516.07	1762001.03	14420125.17	39.7064208	-80.5676956	1388.46	21.820	0.42
12342.00	90.740	311.300	7582.78	555.70	1350.54	447.71	1761932.69	14420186.70	39.7065907	-80.5679375	1422.82	18.341	1.58
12433.00	90.650	311.720	7581.68	646.69	1410.85	379.57	1761864.57	14420246.98	39.7067571	-80.5681786	1461.01	15.058	0.47
12525.00	90.830	311.720	7580.49	738.68	1472.07	310.91	1761795.94	14420308.18	39.7069261	-80.5684216	1504.54	11.926	0.20
12617.00	91.110	312.260	7578.93	830.66	1533.61	242.54	1761727.59	14420369.70	39.7070959	-80.5686636	1552.67	8.987	0.66
12709.00	91.020	311.750	7577.22	922.64	1595.16	174.19	1761659.27	14420431.23	39.7072658	-80.5689055	1604.64	6.232	0.56
12801.00	90.800	311.920	7575.76	1014.62	1656.52	105.65	1761590.76	14420492.56	39.7074352	-80.5691480	1659.88	3.649	0.30
12892.00	90.980	311.650	7574.35	1105.61	1717.15	37.80	1761522.94	14420553.16	39.7076025	-80.5693881	1717.56	1.261	0.36
12984.00	91.200	312.320	7572.60	1197.58	1778.68	-30.57	1761454.59	14420614.67	39.7077723	-80.5696301	1778.94	359.015	0.77
13076.00	91.350	312.730	7570.55	1289.54	1840.84	-98.36	1761386.83	14420676.82	39.7079439	-80.5698699	1843.47	356.942	0.47
13168.00	90.830	312.960	7568.80	1381.49	1903.39	-165.80	1761319.42	14420739.34	39.7081165	-80.5701086	1910.60	355.022	0.62
13260.00	90.980	312.850	7567.35	1473.45	1966.02	-233.18	1761252.06	14420801.94	39.7082893	-80.5703470	1979.80	353.236	0.20
13351.00	91.110	313.230	7565.69	1564.39	2028.12	-299.68	1761185.59	14420864.02	39.7084606	-80.5705823	2050.14	351.595	0.44
13443.00	92.920	313.780	7562.45	1656.26	2091.41	-366.36	1761118.93	14420927.28	39.7086352	-80.5708182	2123.26	350.064	2.06
13534.00	90.710	312.680	7559.57	1747.16	2153.70	-432.63	1761052.69	14420989.55	39.7088071	-80.5710527	2196.72	348.642	2.71

REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Riter WTZ 1H
Field	Wetzel	API	47103036430000
Facility	Riter WTZ Pad	Wellbore	Riter WTZ 1H AWB
Slot	1H		

WELLPATH DATA (356 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]
13626.00	90.890	312.300	7558.28	1839.13	2215.84	-500.46	1760984.88	14421051.66	39.7089786	-80.5712927	2271.65	347.273	0.46
13718.00	90.800	313.260	7556.93	1931.09	2278.31	-567.98	1760917.39	14421114.12	39.7091510	-80.5715316	2348.05	346.002	1.05
13810.00	90.580	313.530	7555.82	2023.03	2341.52	-634.82	1760850.57	14421177.29	39.7093253	-80.5717681	2426.05	344.831	0.38
13902.00	90.860	313.200	7554.66	2114.96	2404.68	-701.70	1760783.72	14421240.44	39.7094996	-80.5720048	2504.97	343.732	0.47
13993.00	90.460	313.190	7553.62	2205.91	2466.97	-768.04	1760717.41	14421302.70	39.7096715	-80.5722395	2583.76	342.707	0.44
14085.00	90.430	313.050	7552.90	2297.86	2529.85	-835.19	1760650.28	14421365.55	39.7098450	-80.5724771	2664.15	341.730	0.16
14177.00	90.400	313.200	7552.23	2389.81	2592.74	-902.33	1760583.16	14421428.42	39.7100185	-80.5727147	2745.27	340.811	0.17
14269.00	90.370	312.890	7551.62	2481.77	2655.53	-969.57	1760515.96	14421491.19	39.7101918	-80.5729526	2827.00	339.942	0.34
14360.00	90.430	312.830	7550.98	2572.73	2717.43	-1036.27	1760449.28	14421553.06	39.7103626	-80.5731886	2908.31	339.126	0.09
14452.00	90.490	313.320	7550.24	2664.69	2780.26	-1103.47	1760382.10	14421615.87	39.7105358	-80.5734264	2991.24	338.352	0.54
14544.00	90.490	313.040	7549.46	2756.63	2843.21	-1170.56	1760315.05	14421678.80	39.7107096	-80.5736638	3074.75	337.623	0.30
14636.00	90.650	313.670	7548.54	2848.57	2906.37	-1237.45	1760248.18	14421741.93	39.7108839	-80.5739005	3158.84	336.937	0.71
14727.00	90.550	313.180	7547.59	2939.51	2968.92	-1303.53	1760182.12	14421804.46	39.7110564	-80.5741343	3242.48	336.296	0.55
14819.00	90.620	312.260	7546.65	3031.47	3031.33	-1371.12	1760114.56	14421866.84	39.7112286	-80.5743735	3327.00	335.662	1.00
14911.00	90.550	313.280	7545.71	3123.44	3093.80	-1438.65	1760047.05	14421929.29	39.7114010	-80.5746125	3411.94	335.061	1.11
15002.00	90.220	312.710	7545.10	3214.40	3155.85	-1505.21	1759980.52	14421991.32	39.7115722	-80.5748480	3496.43	334.501	0.72
15094.00	90.650	313.090	7544.40	3306.36	3218.48	-1572.60	1759913.16	14422053.92	39.7117450	-80.5750865	3582.13	333.959	0.62
15185.00	90.490	313.180	7543.49	3397.31	3280.69	-1639.00	1759846.78	14422116.11	39.7119167	-80.5753215	3667.33	333.454	0.20
15277.00	90.220	312.960	7542.92	3489.27	3343.52	-1706.21	1759779.60	14422178.91	39.7120900	-80.5755593	3753.70	332.965	0.38
15369.00	90.520	313.130	7542.33	3581.22	3406.31	-1773.44	1759712.39	14422241.68	39.7122633	-80.5757972	3840.32	332.497	0.37
15461.00	90.800	313.280	7541.27	3673.17	3469.29	-1840.50	1759645.36	14422304.64	39.7124370	-80.5760345	3927.27	332.054	0.35
15552.00	90.220	312.850	7540.46	3764.12	3531.43	-1906.98	1759578.91	14422366.75	39.7126085	-80.5762697	4013.42	331.631	0.79
15644.00	90.310	313.190	7540.03	3856.08	3594.19	-1974.24	1759511.67	14422429.49	39.7127817	-80.5765078	4100.71	331.221	0.38
15736.00	90.220	313.240	7539.61	3948.03	3657.19	-2041.29	1759444.65	14422492.46	39.7129555	-80.5767450	4188.30	330.832	0.11
15828.00	90.370	312.570	7539.14	4039.99	3719.82	-2108.67	1759377.29	14422555.07	39.7131283	-80.5769835	4275.93	330.452	0.75
15919.00	90.310	312.960	7538.60	4130.96	3781.61	-2175.48	1759310.51	14422616.83	39.7132987	-80.5772199	4362.71	330.089	0.43
16011.00	89.780	312.680	7538.52	4222.93	3844.14	-2242.96	1759243.05	14422679.34	39.7134713	-80.5774587	4450.65	329.737	0.65
16103.00	90.520	313.250	7538.28	4314.89	3906.84	-2310.28	1759175.76	14422742.02	39.7136443	-80.5776970	4538.81	329.402	1.02
16194.00	90.580	313.130	7537.41	4405.84	3969.12	-2376.63	1759109.44	14422804.27	39.7138161	-80.5779318	4626.26	329.088	0.15
16286.00	90.590	313.140	7536.47	4497.79	4032.02	-2443.76	1759042.33	14422867.15	39.7139896	-80.5781693	4714.78	328.780	0.02

Actual Wellpath Report

Riter WTZ 1H awp Proj: 32518'

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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Riter WTZ 1H
Field	Wetzel	API	47103036430000
Facility	Riter WTZ Pad	Wellbore	Riter WTZ 1H AWB
Slot	1H		

WELLPATH DATA (356 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]
16377.00	90.520	312.810	7535.59	4588.75	4094.05	-2510.34	1758975.78	14422929.15	39.7141608	-80.5784050	4802.40	328.485	0.37
16469.00	90.710	313.470	7534.60	4680.70	4156.95	-2577.46	1758908.68	14422992.03	39.7143343	-80.5786425	4891.17	328.200	0.75
16560.00	90.400	313.300	7533.72	4771.63	4219.46	-2643.60	1758842.57	14423054.51	39.7145068	-80.5788765	4979.20	327.932	0.39
16652.00	90.710	313.390	7532.83	4863.57	4282.60	-2710.50	1758775.70	14423117.63	39.7146810	-80.5791133	5068.28	327.670	0.35
16744.00	90.340	313.200	7531.98	4955.51	4345.69	-2777.46	1758708.76	14423180.69	39.7148550	-80.5793502	5157.45	327.416	0.45
16836.00	90.550	313.170	7531.27	5047.46	4408.65	-2844.53	1758641.71	14423243.63	39.7150287	-80.5795876	5246.67	327.169	0.23
16927.00	90.430	313.010	7530.49	5138.42	4470.81	-2910.99	1758575.28	14423305.77	39.7152002	-80.5798228	5334.98	326.931	0.22
17019.00	90.310	312.790	7529.90	5230.38	4533.44	-2978.38	1758507.92	14423368.37	39.7153730	-80.5800613	5424.28	326.696	0.27
17110.00	90.490	313.400	7529.26	5321.33	4595.61	-3044.83	1758441.49	14423430.52	39.7155445	-80.5802965	5512.77	326.473	0.70
17202.00	90.430	313.030	7528.52	5413.28	4658.60	-3111.88	1758374.47	14423493.49	39.7157183	-80.5805338	5602.35	326.258	0.41
17294.00	90.460	313.100	7527.81	5505.24	4721.42	-3179.09	1758307.29	14423556.28	39.7158917	-80.5807716	5691.96	326.046	0.08
17386.00	90.370	312.860	7527.14	5597.20	4784.14	-3246.39	1758240.01	14423618.97	39.7160647	-80.5810098	5781.61	325.840	0.28
17477.00	90.460	312.810	7526.48	5688.16	4846.01	-3313.12	1758173.31	14423680.82	39.7162354	-80.5812460	5870.31	325.640	0.11
17569.00	90.550	313.160	7525.67	5780.12	4908.73	-3380.42	1758106.03	14423743.52	39.7164084	-80.5814842	5960.11	325.447	0.39
17661.00	90.490	313.150	7524.84	5872.07	4971.65	-3447.53	1758038.95	14423806.42	39.7165820	-80.5817217	6050.02	325.261	0.07
17752.00	90.340	312.600	7524.18	5963.03	5033.57	-3514.22	1757972.29	14423868.31	39.7167529	-80.5819577	6138.93	325.079	0.63
17844.00	90.370	313.250	7523.61	6054.99	5096.22	-3581.58	1757904.95	14423930.94	39.7169257	-80.5821961	6228.90	324.901	0.71
17936.00	90.520	313.190	7522.89	6146.94	5159.22	-3648.62	1757837.93	14423993.91	39.7170995	-80.5824334	6319.02	324.732	0.18
18028.00	90.580	313.080	7522.01	6238.89	5222.12	-3715.76	1757770.82	14424056.79	39.7172730	-80.5826710	6409.16	324.567	0.14
18120.00	90.400	312.840	7521.22	6330.85	5284.81	-3783.08	1757703.52	14424119.46	39.7174460	-80.5829093	6499.31	324.403	0.33
18211.00	90.460	312.910	7520.54	6421.82	5346.73	-3849.77	1757636.86	14424181.35	39.7176168	-80.5831453	6588.49	324.245	0.10
18303.00	90.340	313.160	7519.90	6513.77	5409.51	-3917.01	1757569.65	14424244.11	39.7177900	-80.5833833	6678.76	324.092	0.30
18395.00	90.400	313.170	7519.31	6605.72	5472.45	-3984.12	1757502.57	14424307.02	39.7179637	-80.5836208	6769.11	323.944	0.07
18486.00	90.220	312.970	7518.81	6696.68	5534.59	-4050.59	1757436.12	14424369.14	39.7181351	-80.5838561	6858.50	323.801	0.30
18578.00	90.520	313.180	7518.22	6788.64	5597.42	-4117.79	1757368.94	14424431.95	39.7183085	-80.5840939	6948.91	323.660	0.40
18670.00	89.850	313.390	7517.92	6880.58	5660.50	-4184.76	1757302.00	14424495.00	39.7184825	-80.5843309	7039.42	323.525	0.76
18762.00	89.820	312.620	7518.19	6972.54	5723.25	-4252.04	1757234.75	14424557.72	39.7186556	-80.5845691	7129.90	323.390	0.84
18853.00	89.970	312.580	7518.35	7063.52	5784.84	-4319.03	1757167.79	14424619.29	39.7188255	-80.5848062	7219.31	323.255	0.17
18945.00	89.940	313.190	7518.43	7155.48	5847.45	-4386.44	1757100.40	14424681.88	39.7189982	-80.5850448	7309.82	323.125	0.66
19036.00	89.720	313.110	7518.70	7246.44	5909.69	-4452.83	1757034.04	14424744.09	39.7191699	-80.5852798	7399.46	323.003	0.26

REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Riter WTZ 1H
Field	Wetzel	API	47103036430000
Facility	Riter WTZ Pad	Wellbore	Riter WTZ 1H AWB
Slot	1H		

WELLPATH DATA (356 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]
19128.00	90.090	313.170	7518.85	7338.39	5972.59	-4519.96	1756966.93	14424806.97	39.7193435	-80.5855174	7490.12	322.882	0.41
19220.00	90.830	313.780	7518.11	7430.32	6035.89	-4586.72	1756900.20	14424870.25	39.7195181	-80.5857536	7580.89	322.769	1.04
19311.00	90.250	312.940	7517.25	7521.26	6098.37	-4652.88	1756834.07	14424932.70	39.7196904	-80.5859878	7670.68	322.657	1.12
19403.00	90.180	313.000	7516.91	7613.22	6161.07	-4720.19	1756766.78	14424995.38	39.7198634	-80.5862261	7761.38	322.543	0.10
19495.00	90.060	313.270	7516.71	7705.18	6223.98	-4787.33	1756699.67	14425058.26	39.7200370	-80.5864637	7852.16	322.433	0.32
19586.00	90.520	313.550	7516.25	7796.11	6286.51	-4853.43	1756633.59	14425120.77	39.7202095	-80.5866977	7942.04	322.330	0.59
19678.00	90.860	315.300	7515.15	7887.97	6350.90	-4919.13	1756567.91	14425185.14	39.7203871	-80.5869301	8033.17	322.240	1.94
19770.00	90.580	313.030	7513.99	7979.84	6414.99	-4985.12	1756501.95	14425249.20	39.7205638	-80.5871637	8124.25	322.149	2.49
19861.00	90.620	313.010	7513.04	8070.80	6477.07	-5051.64	1756435.45	14425311.26	39.7207351	-80.5873991	8214.11	322.048	0.05
19953.00	90.620	313.390	7512.04	8162.74	6540.05	-5118.70	1756368.42	14425374.21	39.7209088	-80.5876365	8305.02	321.951	0.41
20045.00	90.650	313.110	7511.02	8254.69	6603.08	-5185.71	1756301.44	14425437.22	39.7210827	-80.5878737	8395.97	321.856	0.31
20137.00	90.680	313.020	7509.95	8346.64	6665.90	-5252.92	1756234.25	14425500.01	39.7212560	-80.5881116	8486.89	321.761	0.10
20228.00	90.650	313.160	7508.90	8437.59	6728.06	-5319.37	1756167.83	14425562.15	39.7214275	-80.5883468	8576.86	321.669	0.16
20320.00	90.620	313.150	7507.88	8529.54	6790.98	-5386.48	1756100.74	14425625.05	39.7216011	-80.5885843	8667.85	321.579	0.03
20412.00	90.770	313.310	7506.76	8621.48	6853.99	-5453.51	1756033.74	14425688.03	39.7217749	-80.5888216	8758.88	321.492	0.24
20504.00	90.490	312.770	7505.75	8713.43	6916.78	-5520.74	1755966.53	14425750.79	39.7219481	-80.5890596	8849.88	321.404	0.66
20595.00	90.650	313.130	7504.84	8804.39	6978.78	-5587.35	1755899.95	14425812.77	39.7221191	-80.5892953	8939.90	321.319	0.43
20687.00	90.800	313.600	7503.68	8896.33	7041.94	-5654.23	1755833.10	14425875.91	39.7222934	-80.5895320	9031.02	321.238	0.54
20779.00	90.650	312.840	7502.52	8988.27	7104.94	-5721.26	1755766.09	14425938.88	39.7224672	-80.5897693	9122.12	321.157	0.84
20870.00	90.550	311.270	7501.56	9079.25	7165.89	-5788.83	1755698.55	14425999.81	39.7226353	-80.5900085	9211.97	321.068	1.73
20962.00	90.620	313.120	7500.62	9171.23	7227.68	-5856.98	1755630.43	14426061.57	39.7228058	-80.5902498	9302.88	320.980	2.01
21053.00	90.580	313.270	7499.67	9262.18	7289.96	-5923.32	1755564.12	14426123.83	39.7229776	-80.5904846	9393.04	320.905	0.17
21145.00	90.650	313.380	7498.68	9354.12	7353.08	-5990.24	1755497.22	14426186.93	39.7231517	-80.5907215	9484.24	320.832	0.14
21237.00	90.770	313.340	7497.54	9446.06	7416.24	-6057.12	1755430.36	14426250.07	39.7233260	-80.5909583	9575.46	320.760	0.14
21328.00	90.430	313.160	7496.59	9537.00	7478.59	-6123.40	1755364.11	14426312.39	39.7234980	-80.5911929	9665.68	320.690	0.42
21420.00	90.740	313.970	7495.65	9628.92	7541.99	-6190.06	1755297.47	14426375.77	39.7236728	-80.5914288	9756.97	320.623	0.94
21511.00	91.420	313.210	7493.94	9719.83	7604.72	-6255.96	1755231.60	14426438.47	39.7238459	-80.5916621	9847.27	320.558	1.12
21603.00	91.780	313.110	7491.38	9811.75	7667.63	-6323.04	1755164.54	14426501.36	39.7240194	-80.5918995	9938.48	320.490	0.39
21694.00	92.060	314.300	7488.35	9902.62	7730.47	-6388.79	1755098.82	14426564.17	39.7241927	-80.5921322	10028.80	320.428	1.35
21786.00	92.030	313.650	7485.07	9994.47	7794.31	-6454.95	1755032.68	14426627.99	39.7243688	-80.5923664	10120.16	320.370	0.71

REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Riter WTZ 1H
Field	Wetzel	API	47103036430000
Facility	Riter WTZ Pad	Wellbore	Riter WTZ 1H AWB
Slot	1H		

WELLPATH DATA (356 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]
21877.00	92.220	313.570	7481.69	10085.33	7857.03	-6520.80	1754966.87	14426690.69	39.7245418	-80.5925995	10210.47	320.310	0.23
21969.00	91.970	313.500	7478.33	10177.20	7920.36	-6587.45	1754900.24	14426753.99	39.7247165	-80.5928354	10301.77	320.249	0.28
22061.00	91.970	313.130	7475.17	10269.09	7983.43	-6654.35	1754833.37	14426817.04	39.7248905	-80.5930722	10393.05	320.188	0.40
22152.00	91.660	313.390	7472.29	10359.99	8045.77	-6720.58	1754767.16	14426879.35	39.7250624	-80.5933067	10483.35	320.128	0.44
22244.00	91.200	312.910	7469.99	10451.92	8108.67	-6787.68	1754700.08	14426942.22	39.7252359	-80.5935442	10574.64	320.068	0.72
22336.00	91.170	312.910	7468.09	10543.86	8171.29	-6855.05	1754632.74	14427004.82	39.7254087	-80.5937827	10665.91	320.006	0.03
22428.00	92.000	313.530	7465.54	10635.78	8234.27	-6922.07	1754565.75	14427067.78	39.7255824	-80.5940200	10757.24	319.948	1.13
22519.00	91.630	313.480	7462.66	10726.67	8296.88	-6988.04	1754499.80	14427130.37	39.7257551	-80.5942535	10847.62	319.894	0.41
22611.00	90.990	312.890	7460.56	10818.59	8359.83	-7055.10	1754432.77	14427193.29	39.7259287	-80.5944909	10938.97	319.838	0.95
22703.00	91.350	313.220	7458.68	10910.53	8422.62	-7122.31	1754365.58	14427256.06	39.7261020	-80.5947288	11030.32	319.782	0.53
22795.00	91.170	313.180	7456.65	11002.46	8485.58	-7189.36	1754298.56	14427318.99	39.7262756	-80.5949662	11121.69	319.727	0.20
22886.00	91.630	313.240	7454.43	11093.38	8547.87	-7255.67	1754232.28	14427381.26	39.7264474	-80.5952009	11212.08	319.674	0.51
22978.00	91.480	313.130	7451.93	11185.30	8610.81	-7322.72	1754165.25	14427444.17	39.7266210	-80.5954383	11303.46	319.622	0.20
23069.00	91.600	313.520	7449.49	11276.21	8673.22	-7388.90	1754099.10	14427506.56	39.7267932	-80.5956726	11393.89	319.572	0.45
23161.00	91.600	313.200	7446.92	11368.12	8736.36	-7455.76	1754032.26	14427569.68	39.7269674	-80.5959093	11485.31	319.522	0.35
23252.00	91.570	313.220	7444.40	11459.04	8798.65	-7522.06	1753965.99	14427631.94	39.7271392	-80.5961440	11575.73	319.472	0.04
23344.00	91.450	313.360	7441.98	11550.95	8861.71	-7589.00	1753899.07	14427694.97	39.7273131	-80.5963810	11667.17	319.424	0.20
23436.00	91.630	313.290	7439.51	11642.86	8924.81	-7655.91	1753832.19	14427758.05	39.7274872	-80.5966178	11758.62	319.376	0.21
23527.00	91.570	313.170	7436.97	11733.78	8987.11	-7722.19	1753765.94	14427820.33	39.7276590	-80.5968525	11849.07	319.329	0.15
23619.00	91.630	312.960	7434.40	11825.70	9049.91	-7789.37	1753698.78	14427883.10	39.7278322	-80.5970903	11940.48	319.281	0.24
23710.00	91.630	313.250	7431.81	11916.62	9112.07	-7855.78	1753632.39	14427945.24	39.7280037	-80.5973254	12030.92	319.234	0.32
23802.00	91.420	313.110	7429.36	12008.54	9175.00	-7922.85	1753565.35	14428008.15	39.7281773	-80.5975629	12122.38	319.189	0.27
23893.00	91.540	313.330	7427.01	12099.46	9237.30	-7989.14	1753499.09	14428070.42	39.7283491	-80.5977975	12212.86	319.144	0.28
23985.00	91.600	313.310	7424.49	12191.37	9300.39	-8056.05	1753432.21	14428133.49	39.7285231	-80.5980344	12304.36	319.101	0.07
24077.00	91.510	313.550	7421.99	12283.27	9363.61	-8122.84	1753365.44	14428196.69	39.7286976	-80.5982709	12395.88	319.059	0.28
24168.00	91.970	313.150	7419.23	12374.17	9426.05	-8188.98	1753299.33	14428259.10	39.7288697	-80.5985050	12486.39	319.017	0.67
24260.00	91.910	313.140	7416.11	12466.07	9488.93	-8256.06	1753232.27	14428321.96	39.7290432	-80.5987425	12577.85	318.974	0.07
24351.00	92.030	313.460	7412.99	12556.97	9551.30	-8322.25	1753166.10	14428384.30	39.7292152	-80.5989769	12668.36	318.934	0.38
24443.00	91.880	313.240	7409.85	12648.85	9614.42	-8389.11	1753099.27	14428447.40	39.7293893	-80.5992136	12759.87	318.894	0.29
24535.00	91.910	313.970	7406.81	12740.73	9677.84	-8455.69	1753032.71	14428510.79	39.7295642	-80.5994493	12851.43	318.856	0.79

Actual Wellpath Report

Riter WTZ 1H awp Proj: 32518'

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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Riter WTZ 1H
Field	Wetzel	API	47103036430000
Facility	Riter WTZ Pad	Wellbore	Riter WTZ 1H AWB
Slot	1H		

WELLPATH DATA (356 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]
24626.00	91.940	313.250	7403.75	12831.61	9740.57	-8521.55	1752966.89	14428573.49	39.7297372	-80.5996824	12942.00	318.819	0.79
24718.00	91.850	313.320	7400.71	12923.50	9803.61	-8588.48	1752899.98	14428636.51	39.7299111	-80.5999194	13033.52	318.780	0.12
24810.00	91.970	313.390	7397.64	13015.39	9866.73	-8655.34	1752833.15	14428699.61	39.7300852	-80.6001561	13125.06	318.742	0.15
24902.00	92.060	313.460	7394.41	13107.28	9929.94	-8722.11	1752766.40	14428762.79	39.7302595	-80.6003925	13216.62	318.705	0.12
24994.00	91.940	313.440	7391.19	13199.16	9993.17	-8788.86	1752699.67	14428826.00	39.7304339	-80.6006288	13308.18	318.669	0.13
25085.00	91.720	313.480	7388.29	13290.05	10055.73	-8854.88	1752633.68	14428888.54	39.7306065	-80.6008625	13398.76	318.633	0.25
25177.00	91.880	313.300	7385.40	13381.94	10118.90	-8921.70	1752566.88	14428951.68	39.7307807	-80.6010991	13490.33	318.598	0.26
25268.00	91.940	313.350	7382.37	13472.84	10181.30	-8987.87	1752500.74	14429014.06	39.7309528	-80.6013334	13580.90	318.563	0.09
25360.00	91.910	313.350	7379.28	13564.73	10244.42	-9054.73	1752433.91	14429077.16	39.7311269	-80.6015701	13672.47	318.528	0.03
25452.00	92.000	313.400	7376.14	13656.62	10307.57	-9121.56	1752367.10	14429140.28	39.7313011	-80.6018067	13764.04	318.493	0.11
25543.00	91.880	313.520	7373.08	13747.50	10370.13	-9187.58	1752301.11	14429202.81	39.7314736	-80.6020404	13854.64	318.460	0.19
25641.00	92.000	312.460	7369.74	13845.40	10436.91	-9259.22	1752229.50	14429269.57	39.7316578	-80.6022941	13952.14	318.422	1.09
25735.00	91.880	312.380	7366.56	13939.33	10500.28	-9328.57	1752160.17	14429332.92	39.7318327	-80.6025397	14045.58	318.382	0.15
25829.00	91.850	312.440	7363.50	14033.27	10563.65	-9397.94	1752090.83	14429396.26	39.7320074	-80.6027853	14139.02	318.342	0.07
25923.00	91.880	312.420	7360.44	14127.20	10627.03	-9467.29	1752021.51	14429459.62	39.7321823	-80.6030309	14232.47	318.303	0.04
26017.00	91.940	312.190	7357.31	14221.13	10690.27	-9536.77	1751952.06	14429522.83	39.7323567	-80.6032769	14325.91	318.264	0.25
26111.00	91.910	312.100	7354.15	14315.07	10753.31	-9606.42	1751882.43	14429585.84	39.7325306	-80.6035236	14419.33	318.224	0.10
26205.00	92.000	312.480	7350.94	14409.00	10816.52	-9675.92	1751812.96	14429649.03	39.7327050	-80.6037697	14512.77	318.186	0.42
26299.00	91.910	312.290	7347.73	14502.93	10879.85	-9745.31	1751743.59	14429712.34	39.7328797	-80.6040154	14606.24	318.149	0.22
26393.00	91.910	312.450	7344.60	14596.86	10943.16	-9814.72	1751674.21	14429775.63	39.7330544	-80.6042612	14699.71	318.112	0.17
26488.00	91.820	312.440	7341.51	14691.79	11007.24	-9884.79	1751604.17	14429839.88	39.7332311	-80.6045093	14794.20	318.075	0.10
26582.00	91.750	312.390	7338.58	14785.73	11070.61	-9954.15	1751534.83	14429903.03	39.7334059	-80.6047549	14887.70	318.040	0.09
26676.00	91.880	312.720	7335.60	14879.66	11134.15	-10023.36	1751465.65	14429966.54	39.7335812	-80.6050000	14981.22	318.005	0.38
26770.00	91.910	312.230	7332.50	14973.59	11197.59	-10092.65	1751396.39	14430029.96	39.7337562	-80.6052454	15074.74	317.971	0.52
26864.00	91.820	312.060	7329.44	15067.53	11260.64	-10162.31	1751326.75	14430092.98	39.7339301	-80.6054921	15168.21	317.935	0.20
26958.00	91.750	312.310	7326.51	15161.48	11323.73	-10231.93	1751257.16	14430156.05	39.7341041	-80.6057386	15261.69	317.900	0.28
27053.00	91.820	312.370	7323.55	15256.42	11387.68	-10302.12	1751187.00	14430219.98	39.7342805	-80.6059872	15356.20	317.865	0.10
27147.00	91.940	312.430	7320.47	15350.35	11451.03	-10371.49	1751117.65	14430283.30	39.7344553	-80.6062329	15449.73	317.832	0.14
27241.00	92.340	312.940	7316.96	15444.26	11514.72	-10440.54	1751048.63	14430346.96	39.7346310	-80.6064774	15543.28	317.801	0.69
27335.00	91.940	312.750	7313.45	15538.16	11578.59	-10509.42	1750979.78	14430410.81	39.7348071	-80.6067213	15636.87	317.771	0.47

Actual Wellpath Report

Riter WTZ 1H awp Proj: 32518'

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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Riter WTZ 1H
Field	Wetzel	API	47103036430000
Facility	Riter WTZ Pad	Wellbore	Riter WTZ 1H AWB
Slot	1H		

WELLPATH DATA (356 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]
27428.00	92.370	312.350	7309.95	15631.07	11641.44	-10577.88	1750911.35	14430473.63	39.7349805	-80.6069637	15729.42	317.740	0.63
27522.00	92.460	312.610	7305.99	15724.97	11704.86	-10647.14	1750842.11	14430537.03	39.7351554	-80.6072090	15822.94	317.709	0.29
27616.00	92.310	312.450	7302.08	15818.87	11768.35	-10716.35	1750772.92	14430600.50	39.7353305	-80.6074541	15916.48	317.679	0.23
27709.00	92.770	312.300	7297.95	15911.76	11830.97	-10784.99	1750704.31	14430663.09	39.7355033	-80.6076972	16008.99	317.648	0.52
27804.00	92.370	312.400	7293.69	16006.65	11894.90	-10855.13	1750634.20	14430727.00	39.7356796	-80.6079456	16103.49	317.617	0.43
27899.00	92.160	311.950	7289.94	16101.56	11958.63	-10925.48	1750563.88	14430790.71	39.7358554	-80.6081947	16197.99	317.585	0.52
27993.00	92.310	312.380	7286.27	16195.48	12021.69	-10995.10	1750494.29	14430853.73	39.7360293	-80.6084413	16291.50	317.554	0.48
28088.00	92.310	312.280	7282.44	16290.39	12085.61	-11065.27	1750424.14	14430917.63	39.7362057	-80.6086898	16386.03	317.524	0.11
28182.00	92.310	312.550	7278.66	16384.30	12148.96	-11134.61	1750354.82	14430980.96	39.7363804	-80.6089354	16479.59	317.494	0.29
28276.00	92.430	312.550	7274.77	16478.20	12212.47	-11203.80	1750285.66	14431044.44	39.7365556	-80.6091804	16573.16	317.467	0.13
28371.00	91.630	312.270	7271.40	16573.12	12276.50	-11273.90	1750215.59	14431108.45	39.7367322	-80.6094287	16667.73	317.438	0.89
28464.00	91.570	312.260	7268.81	16666.07	12339.02	-11342.70	1750146.82	14431170.95	39.7369047	-80.6096723	16760.32	317.409	0.07
28559.00	91.690	312.470	7266.10	16761.02	12403.01	-11412.86	1750076.68	14431234.91	39.7370812	-80.6099208	16854.91	317.381	0.25
28653.00	91.570	312.260	7263.43	16854.96	12466.33	-11482.28	1750007.29	14431298.21	39.7372558	-80.6101667	16948.52	317.353	0.26
28748.00	91.790	312.730	7260.65	16949.90	12530.48	-11552.30	1749937.30	14431362.33	39.7374327	-80.6104147	17043.14	317.326	0.55
28842.00	91.630	312.020	7257.84	17043.84	12593.80	-11621.72	1749867.91	14431425.63	39.7376074	-80.6106605	17136.75	317.299	0.77
28936.00	91.720	310.790	7255.09	17137.80	12655.94	-11692.19	1749797.47	14431487.75	39.7377788	-80.6109101	17230.21	317.267	1.31
29030.00	91.660	312.390	7252.32	17231.76	12718.31	-11762.46	1749727.22	14431550.09	39.7379509	-80.6111590	17323.71	317.236	1.70
29124.00	91.600	312.620	7249.65	17325.70	12781.80	-11831.73	1749657.98	14431613.55	39.7381260	-80.6114044	17417.35	317.210	0.25
29219.00	91.630	312.510	7246.97	17420.64	12846.03	-11901.67	1749588.06	14431677.76	39.7383032	-80.6116521	17512.00	317.185	0.12
29313.00	91.630	312.650	7244.30	17514.58	12909.61	-11970.86	1749518.90	14431741.31	39.7384785	-80.6118971	17605.66	317.161	0.15
29407.00	91.690	311.810	7241.57	17608.53	12972.76	-12040.43	1749449.36	14431804.44	39.7386527	-80.6121435	17699.28	317.135	0.90
29501.00	92.460	308.850	7238.17	17702.44	13033.55	-12112.03	1749377.78	14431865.21	39.7388204	-80.6123972	17792.55	317.099	3.25
29595.00	92.060	306.230	7234.46	17796.15	13090.77	-12186.51	1749303.34	14431922.41	39.7389784	-80.6126611	17885.17	317.049	2.82
29690.00	92.190	302.530	7230.94	17890.37	13144.37	-12264.84	1749225.03	14431975.99	39.7391265	-80.6129388	17977.79	316.982	3.89
29785.00	92.310	299.640	7227.21	17983.78	13193.38	-12346.13	1749143.78	14432024.98	39.7392620	-80.6132271	18069.09	316.900	3.04
29879.00	92.060	296.890	7223.62	18075.27	13237.86	-12428.85	1749061.09	14432069.44	39.7393851	-80.6135206	18158.12	316.805	2.94
29973.00	92.150	296.820	7220.17	18166.22	13280.29	-12512.66	1748977.31	14432111.85	39.7395025	-80.6138180	18246.44	316.705	0.12
30068.00	92.370	296.770	7216.42	18258.11	13323.08	-12597.39	1748892.61	14432154.63	39.7396210	-80.6141186	18335.72	316.604	0.24
30162.00	92.090	296.940	7212.77	18349.06	13365.51	-12681.19	1748808.84	14432197.04	39.7397385	-80.6144159	18424.16	316.505	0.35

REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Riter WTZ 1H
Field	Wetzel	API	47103036430000
Facility	Riter WTZ Pad	Wellbore	Riter WTZ 1H AWB
Slot	1H		

WELLPATH DATA (356 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]
30257.00	92.190	297.060	7209.22	18441.04	13408.61	-12765.78	1748724.29	14432240.13	39.7398578	-80.6147160	18513.67	316.407	0.16
30350.00	92.220	296.890	7205.64	18531.07	13450.77	-12848.60	1748641.50	14432282.26	39.7399745	-80.6150099	18601.33	316.312	0.19
30445.00	92.150	296.940	7202.02	18623.01	13493.74	-12933.25	1748556.89	14432325.22	39.7400935	-80.6153102	18690.90	316.215	0.09
30539.00	91.170	296.870	7199.29	18714.01	13536.26	-13017.03	1748473.13	14432367.72	39.7402112	-80.6156075	18779.60	316.120	1.05
30633.00	91.170	296.730	7197.38	18804.98	13578.63	-13100.92	1748389.28	14432410.08	39.7403285	-80.6159052	18868.31	316.026	0.15
30727.00	91.110	296.680	7195.51	18895.92	13620.86	-13184.88	1748305.35	14432452.30	39.7404454	-80.6162031	18957.03	315.932	0.08
30822.00	91.230	296.880	7193.57	18987.85	13663.66	-13269.67	1748220.59	14432495.08	39.7405639	-80.6165039	19046.78	315.838	0.25
30916.00	91.230	299.960	7191.55	19079.44	13708.38	-13352.31	1748137.98	14432539.78	39.7406876	-80.6167971	19136.46	315.754	3.28
31010.00	91.230	302.890	7189.53	19172.01	13757.37	-13432.50	1748057.83	14432588.75	39.7408231	-80.6170815	19227.52	315.685	3.12
31104.00	91.140	302.630	7187.58	19264.94	13808.23	-13511.53	1747978.83	14432639.59	39.7409636	-80.6173618	19319.13	315.622	0.29
31199.00	90.950	302.910	7185.85	19358.87	13859.64	-13591.40	1747898.99	14432690.98	39.7411057	-80.6176450	19411.74	315.560	0.36
31294.00	90.800	302.820	7184.40	19452.82	13911.19	-13671.18	1747819.23	14432742.51	39.7412481	-80.6179279	19504.42	315.499	0.18
31389.00	90.890	302.940	7183.00	19546.78	13962.76	-13750.96	1747739.49	14432794.06	39.7413906	-80.6182108	19597.13	315.438	0.16
31483.00	90.090	302.380	7182.20	19639.70	14013.48	-13830.09	1747660.39	14432844.76	39.7415308	-80.6184914	19688.80	315.377	1.04
31578.00	90.370	302.730	7181.82	19733.59	14064.60	-13910.16	1747580.35	14432895.86	39.7416721	-80.6187754	19781.45	315.316	0.47
31672.00	90.460	303.010	7181.13	19826.56	14115.62	-13989.11	1747501.43	14432946.86	39.7418130	-80.6190554	19873.24	315.258	0.31
31767.00	90.430	302.880	7180.40	19920.54	14167.28	-14068.83	1747421.74	14432998.50	39.7419558	-80.6193381	19966.07	315.200	0.14
31862.00	90.370	303.600	7179.73	20014.60	14219.35	-14148.29	1747342.32	14433050.55	39.7420997	-80.6196198	20059.01	315.144	0.76
31956.00	90.430	302.860	7179.08	20107.66	14270.86	-14226.91	1747263.72	14433102.04	39.7422420	-80.6198986	20150.99	315.088	0.79
32050.00	90.430	302.940	7178.37	20200.64	14321.92	-14305.83	1747184.83	14433153.08	39.7423831	-80.6201785	20242.88	315.032	0.09
32144.00	90.460	302.840	7177.64	20293.62	14372.96	-14384.76	1747105.93	14433204.10	39.7425241	-80.6204584	20334.78	314.976	0.11
32238.00	90.400	302.840	7176.94	20386.58	14423.94	-14463.74	1747026.98	14433255.06	39.7426649	-80.6207385	20426.69	314.921	0.06
32332.00	89.970	302.570	7176.63	20479.52	14474.72	-14542.84	1746947.92	14433305.83	39.7428053	-80.6210190	20518.57	314.866	0.54
32425.00	90.280	302.800	7176.43	20571.46	14524.95	-14621.11	1746869.67	14433356.03	39.7429441	-80.6212966	20609.49	314.811	0.42
32493.00	89.880	302.670	7176.33	20638.70	14561.72	-14678.31	1746812.49	14433392.79	39.7430457	-80.6214994	20675.99	314.772	0.62
32518.00‡	89.880	302.670	7176.39	20663.41	14575.21	-14699.35	1746791.46	14433406.28	39.7430830	-80.6215741	20700.43	314.757	0.00

Actual Wellpath Report

Riter WTZ 1H awp Proj: 32518'

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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Riter WTZ 1H
Field	Wetzel	API	47103036430000
Facility	Riter WTZ Pad	Wellbore	Riter WTZ 1H AWB
Slot	1H		

HOLE & CASING SECTIONS - Ref Wellbore: Riter WTZ 1H AWB Ref Wellpath: Riter WTZ 1H awp Proj: 32518'

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.375in Casing	26.00	496.00	470.00	26.00	496.00	0.00	0.00	-0.16	-0.43
9.625in Casing	26.00	3129.00	3103.00	26.00	2897.37	0.00	0.00	-423.36	843.68

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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Riter WTZ 1H
Field	Wetzel	API	47103036430000
Facility	Riter WTZ Pad	Wellbore	Riter WTZ 1H AWB
Slot	1H		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Riter WTZ 1H BHL rev 2	7176.00	14572.76	-14702.75	1746788.06	14433403.83	39.7430763	-80.6215862	point
Riter WTZ 1H wp5	7187.13	13738.79	-13415.14	1748075.17	14432570.18	39.7407719	-80.6170201	point
Riter WTZ 1H wp4	7207.13	13287.57	-12343.66	1749146.25	14432119.13	39.7395205	-80.6132169	point
Riter WTZ 1H wp3	7433.00	8750.79	-7489.46	1753998.58	14427584.10	39.7270074	-80.5960288	point
Riter WTZ 1H wp2	7507.00	4752.14	-3190.05	1758296.33	14423586.99	39.7159761	-80.5808101	point
Riter WTZ 1H wp1	7589.00	420.91	1466.73	1762951.31	14419257.43	39.7040251	-80.5643318	point
Riter WTZ 1H LP rev 3	7605.00	-894.01	2879.33	1764363.37	14417943.01	39.7003964	-80.5593344	point

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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Riter WTZ 1H
Field	Wetzel	API	47103036430000
Facility	Riter WTZ Pad	Wellbore	Riter WTZ 1H AWB
Slot	1H		

WELLPATH COMPOSITION - Ref Wellbore: Riter WTZ 1H AWB Ref Wellpath: Riter WTZ 1H awp Proj: 32518'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
26.00	428.00	OWSG MWD rev2 + IFR1 + Multi-Station Correction	1 Total MWD 17.5" IFR-MSA 172' - 428'	Riter WTZ 1H AWB	9/28/2024
428.00	3043.00	OWSG MWD rev2 + IFR1 + Multi-Station Correction	2 Total MWD 12.25" IFR-MSA 549' - 3043'	Riter WTZ 1H AWB	9/28/2024
3043.00	3604.00	OWSG MWD rev2 + IFR1 + Multi-Station Correction	3 Total MWD 8.75" IFR-MSA 3151' - 3604'	Riter WTZ 1H AWB	9/28/2024
3604.00	6142.00	OWSG MWD rev2 + IFR1 + Multi-Station Correction	4 Total MWD 8.75" IFR-MSA 3694' - 6142'	Riter WTZ 1H AWB	9/28/2024
6142.00	13443.00	OWSG MWD rev2 + IFR1 + Multi-Station Correction	5 BH MWD 8.5" IFR-MSA 6208' - 13443'	Riter WTZ 1H AWB	9/28/2024
13443.00	32518.00	OWSG MWD rev2 + IFR1 + Multi-Station Correction	6 BH MWD 8.5" IFR-MSA 13534' - 32493'	Riter WTZ 1H AWB	9/28/2024

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Location: Wetzel County, WV
Field: Wetzel
Facility: Riter WTZ Pad

Slot: 1H
Well: Riter WTZ 1H
Wellbore: Riter WTZ 1H AWB

Plot reference wellpath is Riter WTZ 1H awp Proj: 32518'

Grid System: NAD83 / UTM Zone 17 North, US feet

True vertical depths are referenced to SDC 501 (KB)

North Reference: Grid north

Reference wellpath measured depths are referenced to SDC 501 (KB)

Scale: True distance

SDC 501 (KB) to Mean Sea Level: 1437.13 feet

Coordinates are in feet referenced to Slot

Mean Sea Level to Ground level (At Slot: 1H): -1411.13 feet

Depths are in feet

Offset wellpath MDs are referenced to each path's default MD datum

Created by: tranlam on 2024-10-07; Database: WA_MPL_EASTERNUS_Defn

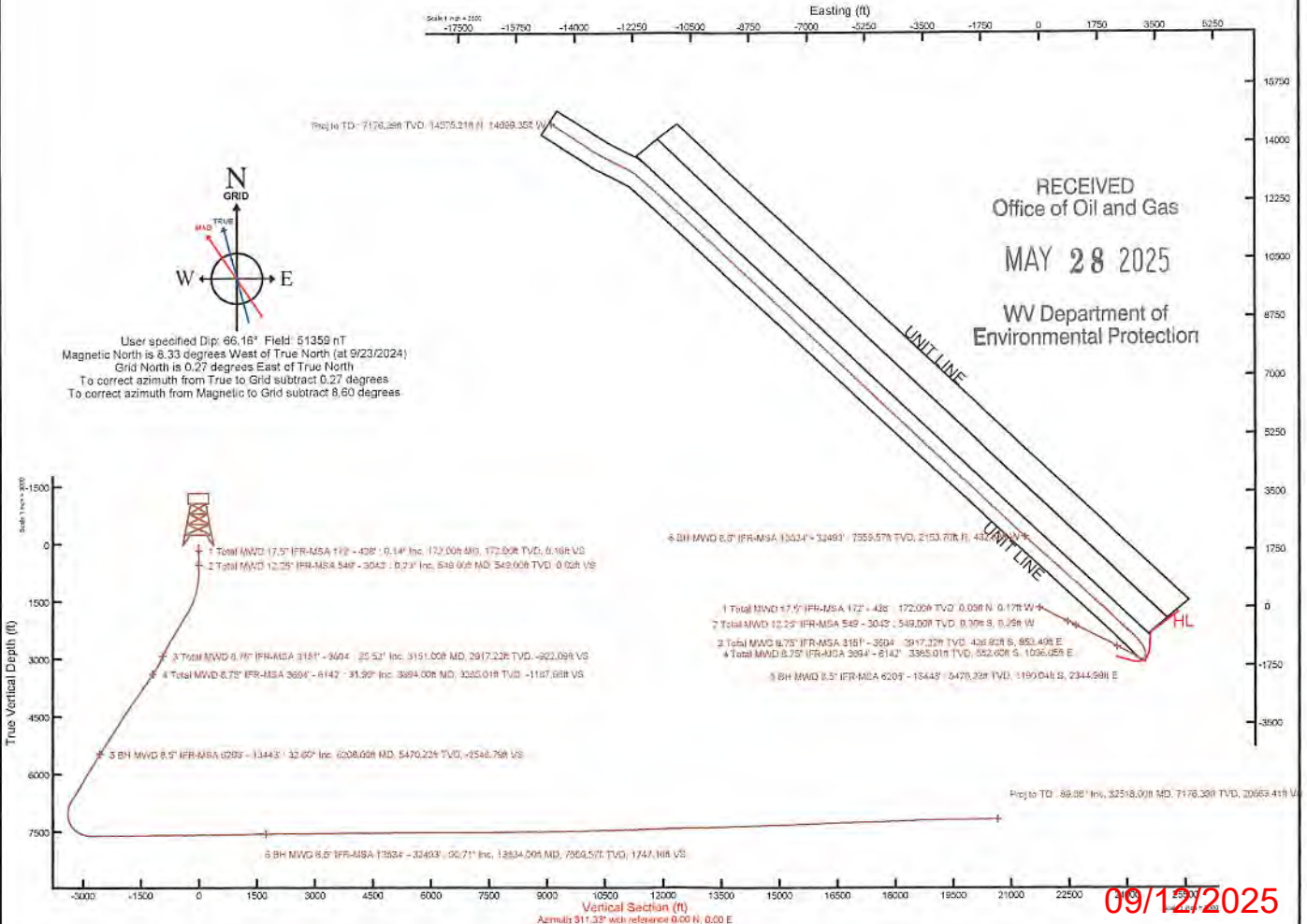
Location Information

Facility Name			Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Riter WTZ Pad			1761485.150	14418836.680	39.7028891°	-80.5695517°
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
1H	0.00	0.00	1761485.150	14418836.680	39.7028891°	-80.5695517°
SDC 501 (KB) to Ground level (At Slot: 1H)					28ft	
Mean Sea Level to Ground level (At Slot: 1H)					-1411.13ft	
SDC 501 (KB) to Mean Sea Level					1437.13ft	

Bottom Hole Location

MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
32518.00	89.880	302.670	7176.39	14575.21	-14699.35	1746791.46	14433406.28	39.7430830°	-80.6215741°

API: 47103036430000
BH JOB: 112375010
DURATION: 09.29.2024 to 10.06.2024
RIG: SDC 501



09/12/2025