



Where energy meets innovation.

API 47-095-02511

# Actual Wellpath Report

WEU4 516540 AWP Proj: 12436'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT	Slot	Slot 516540
Area	Tyler County, WV	Well	WEU4 516540
Field	Tyler	Wellbore	WEU4 516540 AWB
Facility	WEU4 Pad		

## REPORT SETUP INFORMATION

Projection System	NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchitect® 5.1
North Reference	Grid	User	Jacostec
Scale	0.999951	Report Generated	1/22/2019 at 3:55:10 PM
Convergence at slot	0.84° West	Database/Source file	WA_MPL_EASTERNUS_Defn/WEU4_516540_AWP_Proj_12436_.xml

## WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-41.99	16.18	1626558.69	318406.30	39°22'00.033"N	80°49'15.240"W
Facility Reference Pt			1626542.51	318448.29	39°22'00.446"N	80°49'15.454"W
Field Reference Pt			609601.22	0.00	38°23'48.753"N	84°21'09.765"W

## WELLPATH DATUM

Calculation method	Minimum curvature	Precision 539 (RKB) to Facility Vertical Datum	1097.00ft
Horizontal Reference Pt	Slot	Precision 539 (RKB) to Mean Sea Level	1097.00ft
Vertical Reference Pt	Precision 539 (RKB)	Precision 539 (RKB) to Ground Level at Slot (Slot 516540)	18.00ft
MD Reference Pt	Precision 539 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	122.46°

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Environmental Protection



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Field	Tyler	Wellbore	WEU4 516540 AWB
Facility	WEU4 Pad		

### WELLPATH DATA (170 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	62.380	0.00	0.00	0.00	0.00	1626558.69	318406.30	39°22'00.033"N	80°49'15.240"W	0.00	0.000	0.00	0.00	0.00
18.00	0.000	62.380	18.00	0.00	0.00	0.00	1626558.69	318406.30	39°22'00.033"N	80°49'15.240"W	0.00	0.000	0.00	0.00	0.00
105.00	0.040	62.380	105.00	0.02	0.01	0.03	1626558.72	318406.31	39°22'00.033"N	80°49'15.240"W	0.03	62.380	0.05	0.05	71.70
205.00	0.090	131.380	205.00	0.11	-0.02	0.12	1626558.81	318406.28	39°22'00.033"N	80°49'15.239"W	0.12	100.507	0.08	0.05	69.00
305.00	0.090	132.110	305.00	0.27	-0.13	0.23	1626558.92	318406.17	39°22'00.033"N	80°49'15.237"W	0.27	118.350	0.00	0.00	0.73
405.00	0.170	150.840	405.00	0.47	-0.31	0.36	1626559.05	318405.99	39°22'00.030"N	80°49'15.235"W	0.48	130.238	0.09	0.08	18.73
505.00	0.180	149.640	505.00	0.74	-0.57	0.52	1626559.21	318405.73	39°22'00.028"N	80°49'15.233"W	0.77	138.013	0.01	0.01	-1.20
605.00	0.200	138.430	605.00	1.05	-0.84	0.71	1626559.40	318405.46	39°22'00.025"N	80°49'15.231"W	1.10	139.727	0.04	0.02	-11.21
705.00	0.290	128.960	705.00	1.47	-1.13	1.02	1626559.71	318405.17	39°22'00.022"N	80°49'15.227"W	1.52	137.802	0.10	0.09	-9.47
805.00	0.740	118.010	804.99	2.37	-1.59	1.79	1626560.48	318404.71	39°22'00.018"N	80°49'15.217"W	2.40	131.631	0.46	0.45	-10.95
905.00	1.100	113.610	904.98	3.96	-2.28	3.24	1626561.93	318404.02	39°22'00.011"N	80°49'15.198"W	3.96	125.123	0.37	0.36	-4.40
1005.00	1.160	110.350	1004.96	5.90	-3.02	5.07	1626563.76	318403.28	39°22'00.004"N	80°49'15.175"W	5.90	120.751	0.09	0.06	-3.26
1105.00	1.190	109.710	1104.94	7.90	-3.72	7.00	1626565.69	318402.58	39°21'59.997"N	80°49'15.150"W	7.92	117.990	0.03	0.03	-0.64
1205.00	1.140	97.830	1204.92	9.82	-4.20	8.96	1626567.65	318402.10	39°21'59.993"N	80°49'15.125"W	9.90	115.138	0.25	-0.05	-11.88
1305.00	1.160	96.130	1304.90	11.63	-4.45	10.95	1626569.64	318401.85	39°21'59.991"N	80°49'15.100"W	11.82	112.104	0.04	0.02	-1.70
1405.00	1.250	95.650	1404.88	13.51	-4.66	13.04	1626571.73	318401.64	39°21'59.989"N	80°49'15.073"W	13.85	109.673	0.09	0.09	-0.48
1505.00	1.390	97.490	1504.85	15.58	-4.93	15.33	1626574.02	318401.37	39°21'59.987"N	80°49'15.044"W	16.10	107.821	0.15	0.14	1.84
1605.00	1.610	98.140	1604.82	17.96	-5.29	17.92	1626576.61	318401.01	39°21'59.984"N	80°49'15.011"W	18.69	106.430	0.22	0.22	0.65
1705.00	2.510	91.980	1704.75	21.13	-5.56	21.50	1626580.19	318400.74	39°21'59.981"N	80°49'14.965"W	22.21	104.497	0.93	0.90	-6.16
1805.00	7.470	90.010	1804.34	28.50	-5.64	30.20	1626588.89	318400.66	39°21'59.982"N	80°49'14.855"W	30.72	100.574	4.96	4.96	-1.97
1905.00	10.020	92.260	1903.17	41.51	-5.98	45.39	1626604.08	318400.32	39°21'59.981"N	80°49'14.661"W	45.79	97.506	2.57	2.55	2.25
2005.00	8.830	97.910	2001.82	56.01	-7.38	61.69	1626620.38	318398.92	39°21'59.969"N	80°49'14.453"W	62.13	96.822	1.51	-1.19	5.65
2105.00	6.420	102.480	2000.93	68.25	-9.65	74.75	1626633.44	318396.66	39°21'59.949"N	80°49'14.287"W	75.37	97.352	2.48	-2.41	4.57
2205.00	5.990	104.930	2000.34	78.39	-11.93	85.32	1626644.00	318394.37	39°21'59.928"N	80°49'14.152"W	86.15	97.962	0.43	-0.43	-0.55
2305.00	7.840	94.640	2299.70	88.70	-13.51	96.53	1626655.21	318392.79	39°21'59.914"N	80°49'14.009"W	97.47	97.965	1.33	1.05	-7.29
2405.00	9.820	92.350	2398.71	100.90	-14.32	110.47	1626669.16	318391.98	39°21'59.908"N	80°49'13.831"W	111.40	97.388	2.01	1.98	-2.29
2505.00	5.870	93.240	2407.86	112.15	-14.93	123.41	1626682.10	318391.37	39°21'59.904"N	80°49'13.666"W	124.31	96.900	3.15	-3.15	0.89
2605.00	3.030	97.130	2597.55	118.98	-15.55	131.12	1626689.81	318390.75	39°21'59.899"N	80°49'13.568"W	132.04	96.763	2.87	-2.86	3.89
2705.00	0.880	130.950	2697.49	122.08	-16.36	134.28	1626692.97	318389.95	39°21'59.891"N	80°49'13.527"W	135.28	96.944	2.36	-2.17	33.82
2805.00	0.740	269.900	2797.48	122.28	-16.84	134.22	1626692.90	318389.46	39°21'59.886"N	80°49'13.528"W	135.27	97.150	1.45	-0.13	138.95



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Area	Tyler County, WV	Well	WEU4 516540
Field	Tyler	Wellbore	WEU4 516540 AWB
Facility	WEU4 Pad		

### WELLPATH DATA (170 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]
2905.00	0.290	277.370	2897.48	121.53	-16.81	133.35	1626692.03	318389.50	39°21'59.886"N	80°49'13.539"W	134.40	97.183	0.42	-0.42	7.47
3005.00	0.290	272.240	2997.48	121.09	-16.76	132.84	1626691.53	318389.54	39°21'59.887"N	80°49'13.546"W	133.90	97.192	0.03	0.00	-5.13
3105.00	0.210	261.740	3097.48	120.73	-16.78	132.41	1626691.09	318389.52	39°21'59.887"N	80°49'13.551"W	133.47	97.222	0.09	-0.08	-10.50
3205.00	0.130	264.400	3197.48	120.50	-16.82	132.11	1626690.80	318389.48	39°21'59.886"N	80°49'13.555"W	133.18	97.254	0.08	-0.08	2.66
3305.00	0.130	239.750	3297.48	120.36	-16.89	131.90	1626690.59	318389.42	39°21'59.885"N	80°49'13.558"W	132.98	97.295	0.06	0.00	-24.65
3405.00	0.090	242.270	3397.48	120.27	-16.98	131.74	1626690.42	318389.32	39°21'59.885"N	80°49'13.560"W	132.83	97.344	0.04	-0.04	2.52
3505.00	0.070	225.390	3497.48	120.21	-17.06	131.62	1626690.31	318389.24	39°21'59.884"N	80°49'13.561"W	132.72	97.385	0.03	-0.02	-16.88
3605.00	0.100	235.690	3597.48	120.17	-17.15	131.51	1626690.19	318389.15	39°21'59.883"N	80°49'13.563"W	132.62	97.430	0.03	0.03	10.30
3705.00	0.070	195.650	3697.48	120.15	-17.26	131.42	1626690.10	318389.04	39°21'59.882"N	80°49'13.564"W	132.55	97.482	0.06	-0.03	-40.04
3805.00	0.120	157.730	3797.48	120.25	-17.41	131.44	1626690.13	318388.89	39°21'59.880"N	80°49'13.563"W	132.59	97.547	0.08	0.05	-37.92
3905.00	0.160	165.910	3897.48	120.44	-17.65	131.52	1626690.20	318388.65	39°21'59.878"N	80°49'13.562"W	132.69	97.642	0.04	0.04	8.18
4005.00	0.210	236.870	3997.48	120.47	-17.88	131.40	1626690.08	318388.42	39°21'59.876"N	80°49'13.564"W	132.61	97.750	0.22	0.05	70.96
4068.00	0.490	208.760	4060.47	120.44	-18.18	131.17	1626689.85	318388.12	39°21'59.873"N	80°49'13.567"W	132.42	97.892	0.51	0.44	-44.62
4069.00	0.410	211.220	4061.47	120.44	-18.19	131.17	1626689.85	318388.11	39°21'59.872"N	80°49'13.567"W	132.42	97.895	8.23	-8.00	246.00
4169.00	0.430	218.200	4161.47	120.41	-18.79	130.75	1626689.43	318387.51	39°21'59.866"N	80°49'13.572"W	132.09	98.178	0.05	0.02	6.98
4269.00	0.440	209.890	4261.47	120.39	-19.42	130.33	1626689.01	318386.88	39°21'59.860"N	80°49'13.577"W	131.76	98.474	0.06	0.01	-8.31
4369.00	0.420	190.800	4361.47	120.54	-20.11	130.07	1626688.75	318386.19	39°21'59.853"N	80°49'13.580"W	131.61	98.789	0.14	-0.02	-19.09
4469.00	0.420	185.890	4461.46	120.84	-20.83	129.96	1626688.64	318385.47	39°21'59.846"N	80°49'13.582"W	131.62	99.108	0.04	0.00	-4.91
4569.00	0.420	193.910	4561.46	121.12	-21.55	129.83	1626688.52	318384.75	39°21'59.839"N	80°49'13.583"W	131.61	99.426	0.06	0.00	8.02
4669.00	0.400	189.170	4661.46	121.37	-22.26	129.69	1626688.37	318384.05	39°21'59.832"N	80°49'13.585"W	131.59	99.737	0.04	-0.02	-4.74
4769.00	0.370	197.660	4761.46	121.59	-22.91	129.54	1626688.22	318383.39	39°21'59.826"N	80°49'13.587"W	131.55	100.029	0.06	-0.03	8.49
4869.00	0.360	205.070	4861.45	121.72	-23.50	129.30	1626687.99	318382.80	39°21'59.820"N	80°49'13.590"W	131.42	100.301	0.05	-0.01	7.41
4969.00	0.340	241.450	4961.45	121.61	-23.93	128.91	1626687.59	318382.38	39°21'59.815"N	80°49'13.594"W	131.11	100.515	0.22	-0.02	36.38
5069.00	0.410	267.970	5061.45	121.17	-24.08	128.29	1626686.98	318382.22	39°21'59.814"N	80°49'13.602"W	130.53	100.631	0.19	0.07	26.52
5074.00	0.450	266.640	5066.45	121.14	-24.08	128.26	1626686.94	318382.22	39°21'59.814"N	80°49'13.603"W	130.50	100.635	0.82	0.80	-26.60
5120.00	0.480	350.830	5112.45	120.87	-23.90	128.04	1626686.73	318382.40	39°21'59.816"N	80°49'13.605"W	130.26	100.574	1.36	0.07	183.02
5152.00	0.250	56.070	5144.44	121.06	-23.38	128.61	1626687.29	318382.92	39°21'59.821"N	80°49'13.598"W	130.72	100.302	7.40	6.41	203.87
5183.00	0.290	62.350	5175.36	122.08	-22.31	130.49	1626689.17	318384.00	39°21'59.832"N	80°49'13.575"W	132.38	99.700	9.64	9.55	20.26
5215.00	0.290	61.080	5207.12	123.95	-20.47	133.88	1626692.56	318385.83	39°21'59.850"N	80°49'13.532"W	135.43	98.695	8.89	8.88	-3.97
5246.00	0.290	69.350	5237.68	126.36	-17.88	138.38	1626697.07	318388.42	39°21'59.877"N	80°49'13.475"W	139.53	97.363	8.60	8.55	-5.58



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MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
5277.00	13.320	59.300	5267.98	129.31	-14.55	143.99	1626702.68	318391.75	39°21'59.910"N	80°49'13.404"W	144.73	95.772	7.55	7.55	-0.16
5309.00	15.190	64.050	5299.00	133.17	-10.84	150.93	1626709.62	318395.46	39°21'59.948"N	80°49'13.317"W	151.32	94.107	6.89	5.84	14.84
5341.00	16.060	67.810	5329.82	137.93	-7.33	158.80	1626717.48	318398.97	39°21'59.984"N	80°49'13.217"W	158.97	92.643	4.17	2.72	11.75
5373.00	17.710	69.570	5360.44	143.42	-3.96	167.46	1626726.14	318402.34	39°22'00.018"N	80°49'13.107"W	167.51	91.355	5.40	5.16	5.50
5404.00	20.120	67.830	5389.76	149.36	-0.30	176.82	1626735.50	318406.00	39°22'00.056"N	80°49'12.989"W	176.82	90.098	7.98	7.77	-5.61
5435.00	22.580	66.510	5418.63	155.78	4.08	187.22	1626745.90	318410.38	39°22'00.101"N	80°49'12.857"W	187.26	88.750	8.09	7.94	-4.26
5467.00	24.620	65.970	5447.95	162.90	9.25	198.94	1626757.62	318415.55	39°22'00.153"N	80°49'12.709"W	199.16	87.339	6.41	6.37	-1.69
5499.00	27.070	64.700	5476.75	170.46	15.07	211.61	1626770.29	318421.37	39°22'00.213"N	80°49'12.549"W	212.15	85.925	7.85	7.66	-3.97
5531.00	28.960	63.590	5505.00	178.35	21.63	225.14	1626783.82	318427.93	39°22'00.280"N	80°49'12.378"W	226.17	84.512	6.13	5.91	-3.47
5563.00	31.640	62.830	5532.63	186.60	28.91	239.55	1626798.22	318435.21	39°22'00.354"N	80°49'12.196"W	241.28	83.118	8.46	8.37	-2.38
5594.00	34.500	62.600	5558.60	195.12	36.67	254.58	1626813.25	318442.97	39°22'00.433"N	80°49'12.006"W	257.20	81.804	9.23	9.23	-0.74
5627.00	37.280	62.650	5585.33	204.84	45.56	271.75	1626830.43	318451.86	39°22'00.523"N	80°49'11.789"W	275.55	80.483	8.42	8.42	0.15
5658.00	40.100	63.470	5609.53	214.71	54.34	289.03	1626847.70	318460.63	39°22'00.612"N	80°49'11.571"W	294.09	79.353	9.25	9.10	2.65
5690.00	42.860	64.010	5633.50	225.72	63.71	308.04	1626866.71	318470.01	39°22'00.708"N	80°49'11.330"W	314.56	78.314	8.70	8.62	1.69
5721.00	45.770	64.450	5655.68	237.12	73.12	327.54	1626886.21	318479.42	39°22'00.803"N	80°49'11.084"W	335.60	77.415	9.44	9.39	1.42
5753.00	48.700	64.720	5677.40	249.61	83.20	348.76	1626907.43	318489.50	39°22'00.906"N	80°49'10.816"W	358.54	76.582	9.18	9.16	0.84
5785.00	51.430	64.850	5697.94	262.73	93.65	370.95	1626929.62	318499.95	39°22'01.013"N	80°49'10.535"W	382.59	75.831	8.54	8.53	0.41
5816.00	54.140	65.320	5716.69	276.04	104.05	393.34	1626952.01	318510.35	39°22'01.119"N	80°49'10.252"W	406.87	75.183	8.82	8.74	1.52
5848.00	57.100	65.420	5734.76	290.39	115.06	417.35	1626976.01	318521.35	39°22'01.231"N	80°49'09.948"W	432.91	74.587	9.25	9.25	0.31
5880.00	59.690	66.050	5751.53	305.34	126.25	442.19	1627000.86	318532.55	39°22'01.345"N	80°49'09.634"W	459.86	74.065	8.27	8.09	1.97
5912.00	61.960	66.550	5767.12	320.90	137.48	467.77	1627026.44	318543.78	39°22'01.460"N	80°49'09.311"W	487.56	73.621	7.22	7.09	1.56
5944.00	63.680	67.170	5781.74	336.99	148.67	493.95	1627052.61	318554.96	39°22'01.574"N	80°49'08.979"W	515.84	73.249	5.64	5.37	1.94
5975.00	65.560	67.260	5795.04	352.95	159.51	519.76	1627078.43	318565.80	39°22'01.685"N	80°49'08.653"W	543.69	72.939	5.88	5.87	0.29
6007.00	68.080	67.930	5807.65	369.87	170.72	546.95	1627105.61	318577.01	39°22'01.800"N	80°49'08.309"W	572.98	72.665	8.29	8.06	2.09
6039.00	68.790	68.160	5819.15	387.25	181.88	574.65	1627133.31	318588.17	39°22'01.914"N	80°49'07.958"W	602.74	72.437	5.39	5.34	0.72
6071.00	68.940	67.930	5830.43	404.68	193.08	602.42	1627161.08	318599.37	39°22'02.029"N	80°49'07.607"W	632.61	72.229	2.74	-2.66	-0.72
6102.00	67.580	67.490	5841.93	421.29	204.00	629.06	1627187.72	318610.29	39°22'02.141"N	80°49'07.270"W	661.31	72.033	4.74	-4.55	-1.42
6134.00	67.370	66.000	5854.20	437.94	215.67	656.21	1627214.87	318621.95	39°22'02.260"N	80°49'06.926"W	690.74	71.807	4.33	-0.50	-4.66
6166.00	66.580	65.000	5866.71	454.00	227.88	683.01	1627241.66	318634.17	39°22'02.384"N	80°49'06.587"W	720.02	71.549	3.79	-2.47	-3.13
6197.00	68.180	63.300	5878.64	469.03	240.36	708.76	1627267.41	318646.64	39°22'02.511"N	80°49'06.262"W	748.40	71.267	7.23	5.16	-5.48



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# Actual Wellpath Report

WEU4 516540 AWP Proj: 12436'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT	Slot	Slot 516540
Area	Tyler County, WV	Well	WEU4 516540
Field	Tyler	Wellbore	WEU4 516540 AWB
Facility	WEU4 Pad		

## WELLPATH DATA (170 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]
6229.52	70.330	62.520	5890.16	484.44	254.20	735.83	1627294.48	318660.49	39°22'02.652"N	80°49'05.920"W	778.50	70.942	6.98	6.61	-2.40
6261.00	72.180	62.960	5900.27	499.47	267.86	762.33	1627320.98	318674.14	39°22'02.791"N	80°49'05.585"W	808.02	70.640	6.02	5.88	1.40
6293.00	72.170	62.750	5910.07	514.88	281.76	789.44	1627348.09	318688.04	39°22'02.932"N	80°49'05.242"W	838.21	70.358	0.63	-0.03	-0.66
6324.00	71.750	63.580	5919.67	529.93	295.06	815.74	1627374.39	318701.35	39°22'03.068"N	80°49'04.910"W	867.46	70.114	2.88	-1.35	2.68
6356.00	70.820	63.760	5929.94	545.64	308.51	842.90	1627401.55	318714.79	39°22'03.204"N	80°49'04.567"W	897.59	69.897	2.95	-2.91	0.56
6387.00	71.050	63.900	5940.06	560.89	321.43	869.20	1627427.84	318727.71	39°22'03.336"N	80°49'04.234"W	926.73	69.706	0.86	0.74	0.45
6419.00	70.180	64.960	5950.68	576.87	334.46	896.43	1627455.07	318740.74	39°22'03.469"N	80°49'03.890"W	956.79	69.539	4.14	-2.72	3.31
6451.00	70.920	64.900	5961.34	593.07	347.24	923.76	1627482.40	318753.52	39°22'03.599"N	80°49'03.544"W	986.87	69.399	2.32	2.31	-0.19
6482.00	70.670	66.930	5971.54	609.21	359.19	950.48	1627509.12	318765.47	39°22'03.721"N	80°49'03.206"W	1016.09	69.298	6.24	-0.81	6.55
6514.00	71.430	67.490	5981.93	626.46	370.91	978.39	1627537.03	318777.19	39°22'03.841"N	80°49'02.853"W	1046.33	69.238	2.89	2.38	1.75
6546.00	70.620	68.130	5992.33	643.96	382.34	1006.40	1627565.04	318788.62	39°22'03.958"N	80°49'02.499"W	1076.58	69.198	3.16	-2.53	2.00
6578.00	70.000	67.170	6003.12	661.33	393.80	1034.27	1627592.91	318800.08	39°22'04.075"N	80°49'02.146"W	1106.70	69.156	3.43	-1.94	-3.00
6610.00	70.040	67.980	6014.05	678.63	405.27	1062.07	1627620.71	318811.55	39°22'04.192"N	80°49'01.794"W	1136.76	69.114	2.38	0.13	2.53
6642.00	69.450	66.980	6025.13	695.85	416.77	1089.80	1627648.44	318823.05	39°22'04.310"N	80°49'01.444"W	1166.77	69.072	3.46	-1.84	-3.12
6698.00	70.020	66.920	6044.52	725.60	437.34	1138.14	1627696.77	318843.61	39°22'04.520"N	80°49'00.832"W	1219.27	68.981	1.02	1.02	-0.11
6723.00	70.020	66.790	6053.07	738.87	446.57	1159.74	1627718.38	318852.85	39°22'04.615"N	80°49'00.559"W	1242.75	68.940	0.49	0.00	-0.52
6812.00	70.610	70.720	6083.06	788.47	476.92	1237.83	1627796.46	318883.20	39°22'04.926"N	80°48'59.570"W	1326.53	68.929	4.21	0.66	4.42
6902.00	70.380	76.570	6113.13	844.30	500.80	1319.19	1627877.81	318907.08	39°22'05.174"N	80°48'58.539"W	1411.05	69.212	6.13	-0.26	6.50
6991.00	70.410	77.740	6142.99	903.27	519.44	1400.93	1627959.55	318925.71	39°22'05.370"N	80°48'57.502"W	1494.13	69.656	1.24	0.03	1.31
7081.00	70.350	77.980	6173.21	963.63	537.27	1483.81	1628042.42	318943.54	39°22'05.558"N	80°48'56.450"W	1578.08	70.095	0.26	-0.07	0.27
7171.00	70.480	78.230	6203.38	1024.26	554.75	1566.78	1628125.39	318961.02	39°22'05.743"N	80°48'55.397"W	1662.09	70.503	0.30	0.14	0.28
7260.00	70.510	77.290	6233.10	1083.89	572.53	1648.77	1628207.37	318978.80	39°22'05.930"N	80°48'54.356"W	1745.34	70.851	1.00	0.03	-1.06
7350.00	70.480	76.200	6263.15	1143.12	591.98	1731.34	1628289.94	318998.25	39°22'06.134"N	80°48'53.309"W	1829.75	71.123	1.14	-0.03	-1.21
7439.00	70.510	74.990	6292.87	1200.48	612.85	1812.59	1628371.19	319019.12	39°22'06.352"N	80°48'52.278"W	1913.39	71.319	1.28	0.03	-1.36
7529.00	70.510	73.930	6322.90	1257.25	635.58	1894.33	1628452.93	319041.85	39°22'06.589"N	80°48'51.242"W	1998.11	71.452	1.11	0.00	-1.18
7618.00	70.480	72.680	6352.61	1312.12	659.68	1974.69	1628533.28	319065.95	39°22'06.839"N	80°48'50.223"W	2081.96	71.527	1.32	-0.03	-1.40
7708.00	70.480	72.030	6382.68	1366.52	685.39	2055.52	1628614.11	319091.66	39°22'07.104"N	80°48'49.199"W	2166.78	71.560	0.68	0.00	-0.72
7798.00	70.510	72.480	6412.73	1420.82	711.25	2136.32	1628694.90	319117.51	39°22'07.372"N	80°48'48.175"W	2251.61	71.586	0.47	0.03	0.50
7887.00	70.510	71.040	6442.43	1475.64	735.42	2216.66	1628775.24	319141.68	39°22'07.622"N	80°48'47.156"W	2335.47	71.646	1.65	0.00	1.75
7977.00	70.470	75.040	6472.49	1532.49	758.03	2298.42	1628857.00	319164.29	39°22'07.857"N	80°48'46.120"W	2420.20	71.747	1.05	-0.04	1.11



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# Actual Wellpath Report

## WEU4 516540 AWP Proj: 12436'

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### REFERENCE WELLPATH IDENTIFICATION

Operator	EQT	Slot	Slot 516540
Area	Tyler County, WV	Well	WEU4 516540
Field	Tyler	Wellbore	WEU4 516540 AWB
Facility	WEU4 Pad		

### WELLPATH DATA (170 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]
8066.00	72.710	83.150	6500.64	1593.84	773.95	2381.26	1628939.83	319180.21	39°22'08.027"N	80°48'45.068"W	2503.88	71.995	9.00	2.52	9.11
8156.00	73.940	93.500	6526.53	1665.10	776.44	2467.30	1629025.87	319182.70	39°22'08.064"N	80°48'43.973"W	2586.59	72.532	11.10	1.37	11.50
8246.00	73.560	103.380	6551.77	1743.91	763.78	2552.65	1629111.21	319170.04	39°22'07.951"N	80°48'42.884"W	2664.47	73.342	10.55	-0.42	10.98
8335.00	74.550	111.330	6576.25	1826.46	738.27	2634.25	1629192.81	319144.53	39°22'07.711"N	80°48'41.840"W	2735.75	74.344	8.66	1.11	8.93
8425.00	77.880	117.880	6597.72	1912.98	701.87	2713.65	1629272.20	319108.13	39°22'07.362"N	80°48'40.823"W	2802.95	75.499	7.98	3.70	7.28
8514.00	80.510	125.130	6614.42	2000.32	656.20	2788.11	1629346.66	319062.47	39°22'06.922"N	80°48'39.866"W	2864.29	76.756	8.53	2.96	8.15
8604.00	82.060	133.340	6628.08	2088.58	599.97	2856.94	1629415.49	319006.24	39°22'06.376"N	80°48'38.980"W	2919.26	78.140	9.18	1.72	9.12
8694.00	85.040	142.390	6638.21	2174.69	533.72	2916.85	1629475.40	318939.99	39°22'05.730"N	80°48'38.204"W	2965.28	79.631	10.53	3.31	10.06
8783.00	90.490	152.800	6641.69	2255.05	458.76	2964.42	1629522.96	318865.04	39°22'04.996"N	80°48'37.585"W	2999.70	81.203	13.19	6.12	11.70
8873.00	91.230	156.660	6640.34	2331.13	377.40	3002.83	1629561.36	318783.68	39°22'04.197"N	80°48'37.081"W	3026.45	82.837	4.37	0.82	4.29
8962.00	90.060	154.340	6639.34	2405.73	296.42	3039.73	1629598.26	318702.71	39°22'03.402"N	80°48'36.596"W	3054.15	84.430	2.92	-1.31	-2.61
9052.00	90.340	154.500	6639.02	2482.08	215.24	3078.59	1629637.12	318621.53	39°22'02.606"N	80°48'36.086"W	3086.10	86.001	0.36	0.31	0.18
9142.00	90.060	154.600	6638.71	2558.33	133.98	3117.26	1629675.79	318540.27	39°22'01.808"N	80°48'35.579"W	3120.14	87.539	0.33	-0.31	0.11
9231.00	90.090	154.020	6638.59	2633.93	53.78	3155.84	1629714.37	318460.07	39°22'01.021"N	80°48'35.073"W	3156.30	89.024	0.65	0.03	-0.65
9321.00	90.490	154.630	6638.14	2710.37	-27.34	3194.84	1629753.36	318378.97	39°22'00.225"N	80°48'34.561"W	3194.95	90.490	0.81	0.44	0.68
9410.00	90.430	155.040	6637.42	2785.53	-107.89	3232.68	1629791.20	318298.42	39°21'59.435"N	80°48'34.064"W	3234.48	91.911	0.47	-0.07	0.46
9500.00	90.400	156.650	6636.77	2860.67	-190.00	3269.51	1629828.03	318216.31	39°21'58.629"N	80°48'33.580"W	3275.02	93.326	1.79	-0.03	1.79
9589.00	90.550	159.410	6636.03	2933.06	-272.53	3302.80	1629861.32	318133.79	39°21'57.818"N	80°48'33.141"W	3314.02	94.717	3.11	0.17	3.10
9679.00	90.650	160.290	6635.09	3004.56	-357.01	3333.80	1629892.32	318049.31	39°21'56.987"N	80°48'32.731"W	3352.86	96.112	0.98	0.11	0.98
9769.00	89.970	158.330	6634.60	3076.57	-441.20	3365.60	1629924.11	317965.12	39°21'56.160"N	80°48'32.310"W	3394.39	97.468	2.31	-0.76	-2.18
9858.00	89.940	155.850	6634.67	3149.80	-523.18	3400.24	1629958.76	317883.15	39°21'55.355"N	80°48'31.854"W	3440.25	98.747	2.79	-0.03	-2.79
9949.00	89.780	152.800	6634.90	3227.08	-605.18	3439.66	1629998.18	317801.15	39°21'54.550"N	80°48'31.337"W	3492.49	99.979	3.36	-0.18	-3.35
10037.00	89.780	152.100	6635.23	3303.29	-683.20	3480.36	1630038.88	317723.13	39°21'53.785"N	80°48'30.805"W	3546.79	101.106	0.80	0.00	-0.80
10127.00	89.660	151.870	6635.67	3381.61	-762.65	3522.64	1630081.15	317643.68	39°21'53.006"N	80°48'30.252"W	3604.25	102.216	0.29	-0.13	-0.26
10217.00	89.940	152.260	6635.99	3459.86	-842.17	3564.80	1630123.31	317564.18	39°21'52.226"N	80°48'29.700"W	3662.93	103.292	0.53	0.31	0.43
10306.00	89.910	153.570	6636.10	3536.58	-921.40	3605.32	1630163.83	317484.94	39°21'51.449"N	80°48'29.170"W	3721.20	104.336	1.47	-0.03	1.47
10396.00	90.030	155.340	6636.15	3612.90	-1002.60	3644.13	1630202.63	317403.75	39°21'50.652"N	80°48'28.660"W	3779.53	105.383	1.97	0.13	1.97
10485.00	89.970	155.920	6636.15	3687.90	-1083.67	3680.85	1630239.35	317322.68	39°21'49.856"N	80°48'28.178"W	3837.06	106.405	0.66	-0.07	0.65
10575.00	90.000	155.220	6636.17	3762.78	-1165.61	3718.07	1630276.57	317240.74	39°21'49.052"N	80°48'27.689"W	3896.50	107.406	0.78	0.03	-0.78
10664.00	90.060	153.380	6636.13	3838.39	-1245.81	3756.67	1630315.17	317160.56	39°21'48.265"N	80°48'27.183"W	3957.85	108.347	2.07	0.07	-2.07



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# Actual Wellpath Report

## WEU4 516540 AWP Proj: 12436'

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### REFERENCE WELLPATH IDENTIFICATION

Operator	EQT	Slot	Slot 516540
Area	Tyler County, WV	Well	WEU4 516540
Field	Tyler	Wellbore	WEU4 516540 AWB
Facility	WEU4 Pad		

### WELLPATH DATA (170 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]
10754.00	89.690	154.720	6636.32	3915.05	-1326.73	3796.05	1630354.55	317079.64	39°21'47.471"N	80°48'26.666"W	4021.22	109.265	1.54	-0.41	1.49
10844.00	89.690	156.540	6636.81	3990.38	-1408.71	3833.18	1630391.68	316997.66	39°21'46.666"N	80°48'26.178"W	4083.84	110.179	2.02	0.00	2.02
10933.00	89.450	157.780	6637.48	4063.55	-1490.72	3867.73	1630426.22	316915.65	39°21'45.860"N	80°48'25.723"W	4145.07	111.078	1.42	-0.27	1.39
11023.00	89.380	157.180	6638.40	4137.25	-1573.86	3902.20	1630460.69	316832.52	39°21'45.044"N	80°48'25.269"W	4207.63	111.965	0.67	-0.08	-0.67
11113.00	89.510	158.260	6639.27	4210.73	-1657.13	3936.32	1630494.81	316749.25	39°21'44.225"N	80°48'24.819"W	4270.91	112.830	1.21	0.14	1.20
11202.00	89.940	158.220	6639.70	4282.93	-1739.79	3969.31	1630527.80	316666.60	39°21'43.413"N	80°48'24.384"W	4333.85	113.668	0.49	0.48	-0.04
11292.00	90.060	157.090	6639.70	4356.48	-1823.03	4003.53	1630562.01	316583.36	39°21'42.596"N	80°48'23.933"W	4399.05	114.482	1.26	0.13	-1.26
11381.00	89.910	154.020	6639.72	4431.03	-1904.04	4040.35	1630598.84	316502.35	39°21'41.800"N	80°48'23.449"W	4466.52	115.232	3.45	-0.17	-3.45
11471.00	90.520	153.210	6639.38	4508.05	-1984.67	4080.35	1630638.83	316421.74	39°21'41.009"N	80°48'22.925"W	4537.41	115.938	1.13	0.68	-0.90
11560.00	91.760	151.470	6637.61	4585.20	-2063.47	4121.65	1630680.13	316342.93	39°21'40.236"N	80°48'22.385"W	4609.33	116.594	2.40	1.39	-1.96
11650.00	89.350	151.670	6636.74	4663.82	-2142.61	4164.49	1630722.97	316263.80	39°21'39.461"N	80°48'21.825"W	4683.35	117.226	2.69	-2.68	0.22
11739.00	89.230	153.160	6637.84	4740.93	-2221.49	4205.70	1630764.18	316184.93	39°21'38.687"N	80°48'21.286"W	4756.36	117.843	1.68	-0.13	1.67
11829.00	89.170	153.830	6639.10	4818.03	-2302.02	4245.86	1630804.34	316104.40	39°21'37.897"N	80°48'20.760"W	4829.77	118.466	0.75	-0.07	0.74
11918.00	89.230	155.160	6640.34	4893.47	-2382.33	4284.18	1630842.65	316024.09	39°21'37.109"N	80°48'20.257"W	4902.01	119.077	1.50	0.07	1.49
12008.00	89.450	153.640	6641.38	4969.84	-2463.49	4323.07	1630881.53	315942.93	39°21'36.312"N	80°48'19.747"W	4975.71	119.677	1.71	0.24	-1.69
12098.00	89.290	152.200	6642.37	5047.41	-2543.62	4364.03	1630922.50	315862.81	39°21'35.526"N	80°48'19.211"W	5051.22	120.236	1.61	-0.18	-1.60
12187.00	89.200	153.430	6643.54	5124.20	-2622.78	4404.69	1630963.15	315783.66	39°21'34.750"N	80°48'18.678"W	5126.43	120.772	1.39	-0.10	1.38
12277.00	89.420	155.490	6644.63	5200.52	-2703.97	4443.49	1631001.95	315702.46	39°21'33.953"N	80°48'18.169"W	5201.54	121.322	2.30	0.24	2.29
12367.00	89.510	157.020	6645.47	5275.30	-2786.35	4479.72	1631038.19	315620.09	39°21'33.144"N	80°48'17.693"W	5275.57	121.881	1.70	0.10	1.70
12436.00	89.510	157.020	6646.06	5332.13	-2849.87	4506.66	1631065.12	315556.57	39°21'32.520"N	80°48'17.338"W	5332.14	122.308	0.00	0.00	0.00

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API 47-095-02511

# Actual Wellpath Report

## WEU4 516540 AWP Proj: 12436'

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### REFERENCE WELLPATH IDENTIFICATION

Operator	EQT	Slot	Slot 516540
Area	Tyler County, WV	Well	WEU4 516540
Field	Tyler	Wellbore	WEU4 516540 AWB
Facility	WEU4 Pad		

### HOLE & CASING SECTIONS - Ref Wellbore: WEU4 516540 AWB Ref Wellpath: WEU4 516540 AWP Proj: 12436'

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]
12.25in Open Hole	18.00	2870.00	2852.00	18.00	2862.48	0.00	0.00	-16.82	133.57
9.625in Casing Intermediate	18.00	2870.00	2852.00	18.00	2862.48	0.00	0.00	-16.82	133.57
8.75in Open Hole	2870.00	6717.00	3847.00	2862.48	6051.02	-16.82	133.57	444.35	1154.56
8.5in Open Hole	6717.00	12436.00	5719.00	6051.02	6646.06	444.35	1154.56	-2849.87	4506.66
5.5in Casing Production	18.00	12436.00	12418.00	18.00	6646.06	0.00	0.00	-2849.87	4506.66

### TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
WEU4 516540 LP Rev-1	6643.00	437.12	2963.20	1629521.74	318843.40	39°22'04.782"N	80°48'37.596"W	point
WEU4 516540 BHL Rev-1	6649.36	-2863.82	4502.44	1631060.90	315542.63	39°21'32.382"N	80°48'17.389"W	point
WEU4 HL1 Rev-1	6700.00	-14.00	5.39	1626564.08	318392.30	39°21'59.896"N	80°49'15.169"W	polygon

### WELLPATH COMPOSITION - Ref Wellbore: WEU4 516540 AWB Ref Wellpath: WEU4 516540 AWP Proj: 12436'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
18.00	5074.00	Gyrodata relative depth - Continuous gyro	01_Gyrodata Cont Gyro <8-3/4">(105'-5074')	WEU4 516540 AWB
5074.00	6642.00	OWSG MWD rev2 - Standard	02_SDI MWD <8-3/4">(5074')(5120'-6642')	WEU4 516540 AWB
6642.00	12367.00	OWSG MWD rev2 + IFR1 + Multi-Station Correction	03_BH AT Curve + MagVar MSA <8-1/2">(6642')(6698'-12367')	WEU4 516540 AWB
12367.00	12436.00	Blind Drilling (std)	Projection to bit	WEU4 516540 AWB

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API 47-095-02511

# Actual Wellpath Report

WEU4 516540 AWP Proj: 12436'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT	Slot	Slot 516540
Area	Tyler County, WV	Well	WEU4 516540
Field	Tyler	Wellbore	WEU4 516540 AWB
Facility	WEU4 Pad		

## COMMENTS

### Wellpath general comments

API: 47-095-02403-0000  
 BH Job#: 109589923  
 Rig: Precision 539  
 Duration: 12/29/2018 - 1/4/2019  
 01\_Gyrodata Cont Gyro <8-3/4">(105'-5074')  
 02\_SDI MWD <8-3/4">(5074')(5120'-6642')  
 03\_BH AT Curve + MagVar MSA <8-1/2"> (6642')(6698'-12367')  
 Projected MD at TD: 12436'

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