



API 47-095-02508

Where energy meets innovation.

# Actual Wellpath Report

WEU4 516537 AWP Proj: 11517

Page 1 of 9



## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT	Slot	Slot 516537
Area	Tyler County, WV	Well	WEU4 516537
Field	Tyler	Wellbore	WEU4 516537 AWB
Facility	WEU4 Pad		

## REPORT SETUP INFORMATION

Projection System	NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet		
North Reference	Grid	Software System	WellArchitect@ 5.1
Scale	0.999951	User	Jacostec
Convergence at slot	0.84° West	Report Generated	1/29/2019 at 3:56:50 PM
		Database/Source file	WA_MPL_EASTERNUS_Defn\WEU4_516537_AWP_Proj_11517_.xml

## 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	1626542.51	318448.29	39°22'00.446"N	80°49'15.454"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 516537)	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	172.52°

RECEIVED  
Office of Oil and Gas

JUN 14 2019

WV Department of  
Environmental Protection



API 47-095-02508

# Actual Wellpath Report

WEU4 516537 AWP Proj: 11517

Page 2 of 9



## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT	Slot	Slot 516537
Area	Tyler County, WV	Well	WEU4 516537
Field	Tyler	Wellbore	WEU4 516537 AWB
Facility	WEU4 Pad		

## WELLPATH DATA (139 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	0.00	193.020	0.00	0.00	0.00	0.00	1626542.51	318448.29	39°22'00.446"N	80°49'15.454"W	0.00	0.000	0.00	0.00	0.00
18.00	0.00	193.020	18.00	0.00	0.00	0.00	1626542.51	318448.29	39°22'00.446"N	80°49'15.454"W	0.00	0.000	0.00	0.00	0.00
105.00	0.300	193.020	105.00	0.21	-0.22	-0.05	1626542.46	318448.07	39°22'00.444"N	80°49'15.455"W	0.23	193.020	0.34	0.34	-191.93
205.00	0.250	215.180	205.00	0.62	-0.66	-0.24	1626542.27	318447.63	39°22'00.439"N	80°49'15.457"W	0.70	199.805	0.12	-0.05	22.18
305.00	0.170	141.600	305.00	0.91	-0.95	-0.27	1626542.24	318447.34	39°22'00.436"N	80°49'15.457"W	0.99	195.842	0.26	-0.08	-73.58
405.00	0.200	124.820	405.00	1.15	-1.17	-0.03	1626542.48	318447.12	39°22'00.434"N	80°49'15.454"W	1.17	181.676	0.06	0.03	-16.78
505.00	0.140	154.180	505.00	1.38	-1.38	0.16	1626542.67	318446.91	39°22'00.432"N	80°49'15.452"W	1.38	173.267	0.10	-0.02	29.36
605.00	0.120	170.790	605.00	1.61	-1.59	0.23	1626542.74	318446.70	39°22'00.430"N	80°49'15.451"W	1.61	171.679	0.04	-0.02	16.61
705.00	0.170	94.520	705.00	1.74	-1.70	0.40	1626542.91	318446.59	39°22'00.429"N	80°49'15.449"W	1.75	166.883	0.18	0.05	-76.27
805.00	0.760	109.310	804.99	2.07	-1.93	1.17	1626543.68	318446.36	39°22'00.427"N	80°49'15.439"W	2.26	148.821	0.60	0.59	14.79
905.00	0.900	108.720	904.98	2.72	-2.41	2.54	1626545.05	318445.88	39°22'00.422"N	80°49'15.421"W	3.50	133.445	0.14	0.14	-0.59
1005.00	0.920	107.870	1004.97	3.41	-2.90	4.05	1626546.56	318445.39	39°22'00.418"N	80°49'15.402"W	4.98	125.658	0.02	0.02	-0.85
1105.00	0.810	106.000	1104.96	4.03	-3.35	5.49	1626548.00	318444.94	39°22'00.414"N	80°49'15.383"W	6.43	121.350	0.11	-0.11	-1.87
1205.00	0.690	96.730	1204.95	4.46	-3.61	6.77	1626549.28	318444.68	39°22'00.411"N	80°49'15.367"W	7.67	118.078	0.17	-0.12	-9.27
1305.00	0.640	94.800	1304.94	4.73	-3.73	7.92	1626550.43	318444.56	39°22'00.410"N	80°49'15.352"W	6.76	115.189	0.05	-0.05	-1.93
1405.00	0.660	95.190	1404.94	4.97	-3.83	9.05	1626551.56	318444.46	39°22'00.409"N	80°49'15.338"W	9.83	112.915	0.02	0.02	0.39
1505.00	0.770	89.410	1504.93	5.18	-3.87	10.30	1626552.81	318444.42	39°22'00.409"N	80°49'15.322"W	11.00	110.606	0.13	0.11	-5.78
1605.00	0.960	94.220	1604.92	5.43	-3.93	11.81	1626554.32	318444.36	39°22'00.409"N	80°49'15.303"W	12.44	108.398	0.20	0.19	4.81
1705.00	0.960	100.980	1704.90	5.87	-4.15	13.46	1626555.97	318444.14	39°22'00.407"N	80°49'15.282"W	14.09	107.124	0.11	0.00	6.78
1805.00	0.970	105.200	1804.89	6.46	-4.53	15.10	1626557.61	318443.76	39°22'00.403"N	80°49'15.261"W	15.77	106.695	0.07	0.01	4.22
1905.00	0.890	110.590	1904.88	7.15	-5.02	16.65	1626559.16	318443.27	39°22'00.399"N	80°49'15.241"W	17.39	106.796	0.12	-0.08	5.39
2005.00	0.700	115.150	2004.87	7.84	-5.56	17.93	1626560.44	318442.73	39°22'00.393"N	80°49'15.225"W	18.77	107.224	0.20	-0.19	4.56
2105.00	0.700	115.310	2104.86	8.50	-6.08	19.03	1626561.54	318442.21	39°22'00.388"N	80°49'15.211"W	19.98	107.712	0.00	0.00	0.16
2205.00	0.650	117.350	2204.85	9.16	-6.60	20.09	1626562.60	318441.69	39°22'00.383"N	80°49'15.197"W	21.15	108.188	0.06	-0.05	2.04
2305.00	0.500	130.010	2304.85	9.80	-7.14	20.93	1626563.44	318441.15	39°22'00.378"N	80°49'15.186"W	22.11	108.842	0.20	-0.15	12.66
2405.00	0.420	139.610	2404.84	10.43	-7.70	21.50	1626564.01	318440.59	39°22'00.373"N	80°49'15.179"W	22.84	109.708	0.11	-0.08	9.60
2505.00	0.340	142.930	2504.84	11.00	-8.22	21.91	1626564.42	318440.07	39°22'00.368"N	80°49'15.173"W	23.40	110.553	0.08	-0.08	3.32
2605.00	0.260	142.210	2604.84	11.45	-8.63	22.23	1626564.74	318439.66	39°22'00.364"N	80°49'15.169"W	23.85	111.221	0.08	-0.08	-0.72
2705.00	0.270	153.490	2704.84	11.87	-9.02	22.48	1626564.99	318439.27	39°22'00.360"N	80°49'15.166"W	24.22	111.872	0.05	0.01	11.28
2805.00	0.160	164.140	2804.84	12.23	-9.37	22.62	1626565.13	318438.92	39°22'00.357"N	80°49'15.164"W	24.48	112.497	0.12	-0.11	10.55

RECEIVED  
Office of Oil and Gas  
JUN 14 2019  
WV Department of  
Environmental Protection



API 47-095-02508

Where energy meets innovation.

# Actual Wellpath Report

WEU4 516537 AWP Proj: 11517'

Page 3 of 9



## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT	Slot	Slot 516537
Area	Tyler County, WV	Well	WEU4 516537
Field	Tyler	Wellbore	WEU4 516537 AWB
Facility	WEU4 Pad		

## WELLPATH DATA (139 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	0.18	168.26	2904.84	12.53	-9.66	22.69	1626565.20	318436.63	39°22'00.354"N	80°49'15.163"W	24.66	113.063	0.02	0.02	4.12
3005.00	0.27	199.23	3004.84	12.90	-10.03	22.64	1626565.15	318436.26	39°22'00.350"N	80°49'15.164"W	24.77	113.895	0.15	0.03	30.97
3105.00	0.25	197.67	3104.84	13.30	-10.46	22.50	1626565.01	318437.83	39°22'00.346"N	80°49'15.166"W	24.81	114.938	0.02	-0.02	-1.55
3205.00	0.18	188.98	3204.84	13.65	-10.83	22.41	1626564.92	318437.46	39°22'00.342"N	80°49'15.167"W	24.89	115.784	0.08	-0.07	-8.63
3305.00	0.24	182.49	3304.83	14.01	-11.19	22.38	1626564.69	318437.10	39°22'00.338"N	80°49'15.167"W	25.02	116.589	0.06	0.06	-6.50
3405.00	0.22	193.04	3404.83	14.39	-11.59	22.32	1626564.83	318436.70	39°22'00.335"N	80°49'15.168"W	25.15	117.430	0.05	-0.02	10.53
3505.00	0.23	195.80	3504.83	14.76	-11.97	22.23	1626564.74	318436.32	39°22'00.331"N	80°49'15.169"W	25.24	118.298	0.01	0.01	27.65
3605.00	0.21	213.45	3604.83	15.08	-12.31	22.07	1626564.58	318435.98	39°22'00.327"N	80°49'15.171"W	25.27	119.156	0.07	-0.02	17.65
3705.00	0.22	207.95	3704.83	15.38	-12.64	21.88	1626564.39	318435.66	39°22'00.324"N	80°49'15.173"W	25.27	120.006	0.02	0.01	-5.50
3805.00	0.19	190.40	3804.83	15.69	-12.97	21.76	1626564.27	318435.32	39°22'00.321"N	80°49'15.175"W	25.33	120.793	0.07	-0.03	-17.55
3905.00	0.23	169.91	3904.83	16.05	-13.33	21.77	1626564.27	318434.96	39°22'00.317"N	80°49'15.174"W	25.52	121.483	0.08	0.04	-20.43
4005.00	0.57	166.21	4004.83	16.74	-14.01	21.92	1626564.43	318434.28	39°22'00.311"N	80°49'15.172"W	26.01	122.585	0.34	0.34	-3.70
4105.00	0.74	167.43	4104.82	17.88	-15.12	22.18	1626564.69	318433.17	39°22'00.300"N	80°49'15.169"W	26.84	124.290	0.17	0.17	1.22
4183.00	0.66	173.95	4182.82	18.83	-16.06	22.33	1626564.84	318432.23	39°22'00.290"N	80°49'15.167"W	27.51	125.720	0.14	-0.10	8.36
4248.00	0.85	180.70	4247.81	19.88	-16.92	22.37	1626564.88	318431.38	39°22'00.282"N	80°49'15.166"W	28.04	127.097	0.32	0.29	10.33
4279.00	1.56	195.92	4309.80	20.68	-17.94	22.23	1626564.74	318430.35	39°22'00.272"N	80°49'15.166"W	28.29	127.798	0.43	-0.42	6.77
4342.00	4.36	206.44	4341.75	22.09	-19.45	21.57	1626564.08	318428.84	39°22'00.257"N	80°49'15.176"W	29.04	132.040	3.86	8.75	32.88
4374.00	7.42	205.68	4373.58	24.83	-22.40	20.13	1626562.64	318425.89	39°22'00.227"N	80°49'15.193"W	30.12	138.053	9.57	9.56	-2.37
4406.00	10.86	208.49	4405.17	29.00	-26.91	17.80	1626560.31	318421.38	39°22'00.182"N	80°49'15.222"W	32.27	146.523	10.84	10.79	8.78
4438.00	13.92	211.85	4436.42	34.42	-32.83	14.33	1626556.84	318415.46	39°22'00.123"N	80°49'15.265"W	35.82	156.424	9.82	9.56	10.50
4469.00	16.71	212.59	4466.32	40.72	-39.76	9.96	1626552.47	318408.53	39°22'00.054"N	80°49'15.320"W	40.99	165.937	9.02	9.00	2.39
4501.00	18.31	215.42	4496.84	47.92	-47.73	4.57	1626547.08	318400.56	39°21'59.975"N	80°49'15.387"W	47.95	174.534	5.66	5.00	8.84
4533.00	19.60	218.10	4527.10	55.36	-56.05	-1.66	1626540.85	318392.24	39°21'59.892"N	80°49'15.465"W	56.08	181.694	4.86	4.03	8.35
4565.00	20.88	219.27	4557.12	63.02	-64.69	-8.58	1626533.93	318383.60	39°21'59.805"N	80°49'15.551"W	65.26	187.555	4.20	4.00	3.66
4597.00	23.06	220.85	4586.80	71.10	-73.85	-16.29	1626526.22	318374.45	39°21'59.714"N	80°49'15.648"W	75.62	192.439	7.06	6.81	4.94
4629.00	25.39	220.83	4615.98	79.83	-83.78	-24.88	1626517.64	318364.51	39°21'59.614"N	80°49'15.755"W	87.39	196.537	7.28	7.28	-0.05
4661.00	28.25	221.02	4644.53	89.41	-94.69	-34.33	1626508.18	318353.61	39°21'59.505"N	80°49'15.873"W	100.72	199.930	8.94	8.94	0.59
4692.00	31.17	220.03	4671.46	99.69	-106.37	-44.31	1626498.20	318341.93	39°21'59.388"N	80°49'15.998"W	115.23	202.615	9.55	9.42	-3.13
4723.00	33.12	219.97	4697.70	110.84	-119.00	-54.91	1626487.60	318329.29	39°21'59.262"N	80°49'16.131"W	131.06	204.770	6.29	6.29	-0.19

RECEIVED  
Office of Oil and Gas

JUN 14 2019

WV Department of  
Environmental Protection



API 47-095-02508



# Actual Wellpath Report

WEU4 516537 AWP Proj: 11517'

Page 4 of 9



## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT	Slot	Slot 516537
Area	Tyler County, WV	Well	WEU4 516537
Field	Tyler	Wellbore	WEU4 516537 AWB
Facility	WEU4 Pad		

## WELLPATH DATA (139 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)
4755.00	35.65	219.86	4724.11	123.07	-132.86	-66.51	1626476.01	318315.43	39°21'59.123"N	80°49'16.276"W	148.58	206.591	7.91	7.91	-0.34
4787.00	38.61	219.74	4749.62	136.18	-147.70	-78.87	1626463.65	318300.60	39°21'58.975"N	80°49'16.430"W	167.44	208.101	9.25	9.25	-0.37
4819.00	40.09	219.93	4774.36	149.93	-163.28	-91.87	1626450.65	318285.02	39°21'58.819"N	80°49'16.593"W	187.35	209.363	4.64	4.63	0.55
4914.00	41.73	219.51	4846.16	192.20	-211.13	-131.62	1626410.90	318237.17	39°21'58.340"N	80°49'17.090"W	248.80	211.939	1.75	1.73	-0.44
5007.00	41.72	219.10	4916.57	234.59	-259.03	-170.63	1626371.69	318189.27	39°21'57.861"N	80°49'17.580"W	310.29	213.404	0.29	-0.01	-0.44
5102.00	40.95	219.38	4986.90	277.60	-307.62	-210.51	1626332.01	318140.68	39°21'57.375"N	80°49'18.076"W	372.76	214.385	0.83	-0.81	0.29
5197.00	41.53	219.29	5058.33	320.46	-356.06	-250.21	1626292.31	318092.25	39°21'56.891"N	80°49'18.573"W	435.18	215.096	0.61	0.61	-0.09
5292.00	39.94	218.60	5130.32	363.11	-404.20	-289.26	1626253.26	318044.11	39°21'56.409"N	80°49'19.061"W	497.05	215.589	1.71	-1.67	-0.52
5387.00	40.44	217.57	5202.89	405.95	-452.39	-327.16	1626215.37	317995.92	39°21'55.927"N	80°49'19.534"W	558.29	215.873	0.99	0.93	-1.29
5482.00	39.91	218.78	5275.48	448.79	-500.57	-365.03	1626177.50	317947.74	39°21'55.446"N	80°49'20.007"W	619.53	216.101	0.99	-0.56	1.27
5577.00	39.38	221.03	5348.63	489.83	-547.07	-403.91	1626138.62	317901.25	39°21'54.981"N	80°49'20.494"W	680.02	216.439	1.61	-0.56	2.37
5672.00	39.52	220.82	5421.99	529.90	-592.67	-443.45	1626099.08	317855.65	39°21'54.524"N	80°49'20.988"W	740.21	216.804	0.20	0.15	-0.22
5767.00	40.78	219.90	5494.60	571.02	-639.35	-483.11	1626059.43	317808.97	39°21'54.057"N	80°49'21.485"W	801.35	217.076	1.47	1.33	-0.97
5863.00	40.73	219.31	5567.32	613.69	-687.64	-523.06	1626019.47	317760.69	39°21'53.574"N	80°49'21.984"W	863.97	217.259	0.40	-0.05	-0.61
5957.00	40.70	217.39	5638.57	656.41	-735.72	-561.10	1625981.44	317712.61	39°21'53.093"N	80°49'22.459"W	925.27	217.331	1.33	-0.03	-2.04
6052.00	40.90	218.27	5710.49	699.68	-784.41	-599.60	1625942.94	317663.92	39°21'52.607"N	80°49'22.940"W	987.33	217.394	1.31	0.21	1.98
6147.00	40.68	218.28	5782.41	742.59	-832.79	-638.47	1625904.07	317615.54	39°21'52.123"N	80°49'23.426"W	1049.38	217.476	0.72	-0.22	-1.04
6242.00	41.58	218.51	5853.96	786.10	-881.77	-677.28	1625865.26	317566.56	39°21'51.633"N	80°49'23.911"W	1111.86	217.528	0.95	0.94	0.24
6338.00	41.73	217.43	5925.69	830.86	-932.07	-716.54	1625826.01	317516.27	39°21'51.130"N	80°49'24.401"W	1175.66	217.552	0.76	0.16	-1.12
6433.00	41.67	219.33	5996.82	874.87	-981.61	-755.77	1625786.78	317466.73	39°21'50.636"N	80°49'24.892"W	1238.85	217.594	1.33	-0.06	2.00
6527.00	41.59	219.28	6066.88	917.63	-1029.93	-795.33	1625747.22	317418.41	39°21'50.152"N	80°49'25.386"W	1301.27	217.676	0.09	-0.09	-0.05
6622.00	41.50	217.06	6137.99	961.66	-1079.45	-834.26	1625708.29	317368.89	39°21'49.657"N	80°49'25.872"W	1364.26	217.699	1.55	-0.09	-2.34
6717.00	40.86	219.94	6209.50	1005.13	-1128.40	-873.18	1625669.37	317319.95	39°21'49.167"N	80°49'26.359"W	1426.79	217.733	2.11	-0.67	3.03
6752.00	40.53	220.65	6236.03	1020.47	-1145.81	-887.94	1625654.61	317302.54	39°21'48.993"N	80°49'26.543"W	1449.59	217.774	1.62	-0.94	2.03
6793.00	40.32	220.27	6267.24	1038.28	-1166.04	-905.19	1625637.36	317282.31	39°21'48.791"N	80°49'26.759"W	1476.15	217.822	0.79	-0.51	-0.93
6813.00	40.58	219.15	6282.46	1047.09	-1176.02	-913.48	1625629.07	317272.33	39°21'48.691"N	80°49'26.863"W	1489.12	217.839	3.86	1.30	-5.60
6903.00	46.26	212.49	6347.84	1092.17	-1226.21	-949.48	1625593.08	317222.14	39°21'48.190"N	80°49'27.312"W	1550.84	217.751	8.10	6.31	-7.40
6992.00	50.46	203.14	6407.04	1146.44	-1284.98	-980.28	1625562.28	317163.37	39°21'47.604"N	80°49'27.693"W	1616.21	217.339	9.15	4.72	-10.51
7082.00	55.66	195.01	6461.17	1210.74	-1352.90	-1003.59	1625538.98	317095.46	39°21'46.930"N	80°49'27.977"W	1684.50	216.568	9.24	5.78	-9.03
7172.00	61.78	187.89	6507.92	1283.45	-1428.21	-1018.88	1625523.88	317020.15	39°21'46.183"N	80°49'28.155"W	1754.28	215.499	9.58	6.80	-7.91

RECEIVED  
Office of Oil and Gas

JUN 14 2019

WV Department of  
Environmental Protection



API 47-095-02508

Where energy meets innovation.

# Actual Wellpath Report

WEU4 516537 AWP Proj: 11517'

Page 5 of 9



## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT	Slot	Slot 516537
Area	Tyler County, WV	Well	WEU4 516537
Field	Tyler	Wellbore	WEU4 516537 AWB
Facility	WEU4 Pad		

## WELLPATH DATA (139 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)
7261.00	66.740	182.330	6545.58	1361.64	-1508.00	-1025.73	1625516.83	316940.37	39°21'45.394"N	80°49'28.230"W	1823.79	214.223	7.92	5.57	-6.25
7351.00	73.650	175.840	6577.09	1445.66	-1592.56	-1024.28	1625518.28	316855.81	39°21'44.558"N	80°49'28.195"W	1893.51	212.748	10.24	7.68	-7.21
7440.00	80.660	169.090	6596.88	1532.33	-1678.46	-1012.84	1625529.72	316769.91	39°21'43.711"N	80°49'28.034"W	1960.38	211.108	10.80	7.88	-7.58
7530.00	87.810	162.250	6605.93	1621.12	-1765.10	-990.68	1625551.88	316683.28	39°21'42.858"N	80°49'27.735"W	2024.11	209.304	10.96	7.94	-7.60
7619.00	90.710	156.390	6607.08	1707.71	-1848.32	-959.26	1625583.29	316600.07	39°21'42.040"N	80°49'27.320"W	2082.42	207.429	7.35	3.26	-6.56
7709.00	89.940	153.700	6606.57	1793.55	-1929.91	-921.30	1625621.26	316518.48	39°21'41.239"N	80°49'26.821"W	2138.53	205.519	3.11	-0.86	-2.99
7799.00	88.890	151.130	6607.48	1878.05	-2009.66	-879.63	1625662.93	316438.73	39°21'40.457"N	80°49'26.275"W	2193.74	203.639	3.08	-1.17	-2.86
7888.00	89.600	150.020	6608.66	1960.59	-2087.17	-835.91	1625706.64	316361.22	39°21'39.698"N	80°49'25.704"W	2248.34	201.826	1.48	0.80	-1.25
7978.00	89.540	149.080	6609.33	2043.45	-2164.76	-790.30	1625752.25	316283.64	39°21'38.938"N	80°49'25.109"W	2304.51	200.056	1.05	-0.07	-1.04
8067.00	89.050	148.990	6610.43	2125.08	-2241.07	-744.51	1625798.04	316207.34	39°21'38.190"N	80°49'24.512"W	2361.50	198.377	0.66	-0.55	-0.70
8157.00	88.580	151.350	6612.29	2208.29	-2319.12	-699.76	1625842.79	316129.29	39°21'37.425"N	80°49'23.928"W	2422.39	196.790	2.67	-0.52	2.62
8247.00	88.580	156.190	6614.52	2293.46	-2399.80	-660.00	1625882.54	316048.61	39°21'36.634"N	80°49'23.406"W	2488.91	195.377	5.38	0.00	5.38
8336.00	89.880	158.740	6616.65	2379.38	-2481.98	-625.91	1625916.64	315966.44	39°21'35.827"N	80°49'22.957"W	2559.68	194.154	2.87	0.11	2.87
8426.00	89.290	160.050	6618.24	2467.01	-2566.20	-594.24	1625948.30	315882.22	39°21'34.999"N	80°49'22.538"W	2634.11	193.038	1.61	0.68	1.46
8516.00	90.340	160.510	6618.53	2553.98	-2649.98	-564.21	1625978.33	315798.44	39°21'34.175"N	80°49'22.140"W	2709.38	192.019	1.29	1.18	0.52
8605.00	90.180	158.510	6618.12	2641.67	-2734.28	-532.71	1626009.83	315714.15	39°21'33.347"N	80°49'21.723"W	2785.69	191.025	2.23	-0.18	-2.22
8695.00	90.180	154.420	6617.84	2728.14	-2816.78	-496.78	1626045.76	315631.65	39°21'32.537"N	80°49'21.250"W	2860.25	190.002	4.54	0.00	-4.54
8784.00	89.880	150.390	6617.79	2811.69	-2895.64	-455.56	1626086.98	315552.80	39°21'31.763"N	80°49'20.711"W	2931.26	188.941	4.54	-0.34	-4.53
8874.00	89.820	151.170	6618.03	2895.29	-2974.19	-411.62	1626130.91	315474.26	39°21'30.993"N	80°49'20.137"W	3002.53	187.880	0.87	-0.07	0.87
8963.00	89.720	153.200	6618.39	2978.74	-3052.90	-370.10	1626172.43	315395.55	39°21'30.222"N	80°49'19.594"W	3075.25	186.912	2.28	-0.11	2.28
9053.00	90.280	155.620	6618.39	3064.27	-3134.06	-331.23	1626211.30	315314.39	39°21'29.425"N	80°49'19.084"W	3151.52	186.033	2.76	0.62	2.69
9143.00	90.950	158.770	6617.42	3151.06	-3217.01	-296.35	1626246.18	315231.44	39°21'28.611"N	80°49'18.624"W	3230.63	185.263	3.68	0.74	3.50
9232.00	90.980	154.860	6615.92	3236.71	-3298.80	-261.32	1626281.20	315149.66	39°21'27.807"N	80°49'18.163"W	3309.13	184.529	4.39	0.03	-4.39
9322.00	90.800	153.920	6614.52	3322.23	-3379.94	-222.43	1626320.10	315068.52	39°21'27.011"N	80°49'17.653"W	3387.26	183.765	1.06	-0.20	-1.04
9411.00	89.750	154.040	6614.09	3406.61	-3459.92	-183.38	1626359.14	314988.55	39°21'26.226"N	80°49'17.141"W	3464.78	183.034	1.19	-1.18	0.13
9501.00	88.980	154.700	6615.09	3492.12	-3541.06	-144.46	1626394.06	314907.41	39°21'25.430"N	80°49'16.630"W	3544.01	182.336	1.13	-0.86	0.73
9590.00	88.980	156.930	6616.68	3577.35	-3622.23	-108.00	1626434.51	314826.24	39°21'24.633"N	80°49'16.151"W	3623.84	181.708	2.51	0.00	2.51
9680.00	87.970	157.400	6619.07	3664.10	-3705.15	-73.09	1626469.43	314743.33	39°21'23.819"N	80°49'15.691"W	3705.87	181.130	1.24	-1.12	0.52
9770.00	88.000	156.590	6622.24	3750.76	-3787.94	-37.94	1626504.58	314660.55	39°21'23.006"N	80°49'15.228"W	3788.13	180.574	0.90	0.03	-0.90
9859.00	87.940	156.980	6625.39	3836.37	-3869.68	-2.88	1626539.63	314578.81	39°21'22.203"N	80°49'14.766"W	3869.68	180.043	0.44	-0.07	0.44

RECEIVED  
Office of Oil and Gas

JUN 14 2019

WV Department of Energy  
Environmental Protection



API 47-095-02508

Where energy meets innovation.

# Actual Wellpath Report

WEU4 516537 AWP Proj: 11517'

Page 6 of 9



## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT	Slot	Slot 516537
Area	Tyler County, WV	Well	WEU4 516537
Field	Tyler	Wellbore	WEU4 516537 AWB
Facility	WEU4 Pad		

## WELLPATH DATA (139 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)
9949.00	88.830	156.620	6627.93	3922.97	-3952.37	32.56	1626575.07	314496.12	39°21'21.391"N	80°49'14.300"W	3952.50	179.528	1.07	0.99	-0.40
10038.00	88.770	154.010	6629.79	4007.96	-4033.21	69.72	1626612.23	314415.29	39°21'20.598"N	80°49'13.812"W	4033.81	179.010	2.93	-0.07	-2.93
10128.00	88.740	152.820	6631.75	4092.99	-4113.67	109.99	1626652.49	314334.83	39°21'19.808"N	80°49'13.284"W	4115.14	178.468	1.32	-0.03	-1.32
10218.00	89.510	155.490	6633.12	4178.38	-4194.65	149.21	1626691.72	314253.85	39°21'19.014"N	80°49'12.769"W	4197.31	177.963	3.09	0.86	2.97
10307.00	90.000	156.720	6633.50	4263.75	-4276.02	185.26	1626727.76	314172.49	39°21'18.215"N	80°49'12.295"W	4280.03	177.519	1.49	0.55	1.38
10397.00	89.910	156.160	6633.57	4350.23	-4358.52	221.24	1626763.74	314089.99	39°21'17.405"N	80°49'11.822"W	4364.13	177.094	0.63	-0.10	-0.62
10486.00	89.880	156.190	6633.73	4435.63	-4439.94	257.19	1626799.68	314008.58	39°21'16.605"N	80°49'11.349"W	4447.38	176.685	0.05	-0.03	0.03
10576.00	90.740	154.890	6633.25	4521.71	-4521.85	294.45	1626836.95	313926.67	39°21'15.801"N	80°49'10.860"W	4531.43	176.274	1.73	0.96	-1.44
10666.00	90.680	153.950	6632.13	4607.25	-4603.03	333.31	1626875.80	313845.03	39°21'15.005"N	80°49'10.350"W	4615.08	175.868	1.05	-0.07	-1.04
10755.00	90.370	152.570	6631.32	4691.26	-4682.50	373.35	1626915.84	313766.03	39°21'14.225"N	80°49'09.825"W	4697.36	175.441	1.59	-0.35	-1.55
10845.00	90.920	153.370	6630.30	4776.06	-4762.67	414.25	1626956.74	313685.87	39°21'13.439"N	80°49'09.290"W	4780.65	175.029	1.08	0.61	0.83
10935.00	90.620	155.990	6629.09	4861.72	-4844.01	452.73	1626995.22	313604.53	39°21'12.641"N	80°49'08.785"W	4865.12	174.661	2.93	-0.33	2.91
11024.00	90.650	156.870	6628.11	4947.23	-4925.57	488.32	1627030.80	313522.97	39°21'11.840"N	80°49'08.316"W	4949.72	174.338	0.99	0.03	0.95
11114.00	90.310	156.700	6627.35	5033.85	-5008.28	523.79	1627066.28	313440.26	39°21'11.027"N	80°49'07.849"W	5035.60	174.029	0.42	-0.38	-0.19
11203.00	90.310	156.230	6626.87	5119.38	-5089.88	559.33	1627101.81	313358.67	39°21'10.226"N	80°49'07.382"W	5120.52	173.729	0.53	0.00	-0.53
11293.00	89.780	155.480	6626.80	5205.60	-5172.00	596.14	1627138.62	313276.55	39°21'09.420"N	80°49'06.898"W	5206.25	173.425	1.02	-0.58	-0.83
11382.00	89.850	153.830	6627.09	5290.30	-5252.44	634.24	1627176.72	313196.12	39°21'08.631"N	80°49'06.398"W	5290.59	173.115	1.86	0.08	-1.85
11472.00	89.850	151.750	6627.32	5375.02	-5332.47	675.39	1627217.87	313116.09	39°21'07.846"N	80°49'05.859"W	5375.07	172.782	2.31	0.00	-2.31
11517.00	89.850	151.750	6627.44	5417.09	-5372.11	696.69	1627239.16	313076.45	39°21'07.457"N	80°49'05.581"W	5417.10	172.511	0.00	0.00	0.00



API 47-095-02508

# Actual Wellpath Report

## WEU4 516537 AWP Proj: 11517'

Page 7 of 9



### REFERENCE WELLPATH IDENTIFICATION

Operator	IEQT	Slot	Slot 516537
Area	Tyler County, WV	Well	WEU4 516537
Field	Tyler	Wellbore	WEU4 516537 AWB
Facility	WEU4 Pad		

### HOLE & CASING SECTIONS - Ref Wellbore: WEU4 516537 AWB Ref Wellpath: WEU4 516537 AWP Proj: 11517'

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]
17.5in Open Hole	18.00	755.00	737.00	18.00	755.00	0.00	0.00	-1.77	0.66
13.375in Casing Surface	18.00	755.00	737.00	18.00	755.00	0.00	0.00	-1.77	0.66
12.25in Open Hole	755.00	2870.00	2115.00	755.00	2869.84	-1.77	0.66	-9.55	22.67
9.625in Casing Intermediate	18.00	2870.00	2852.00	18.00	2869.84	0.00	0.00	-9.55	22.67
8.75in Open Hole	2870.00	6824.00	3954.00	2869.84	6290.78	-9.55	22.67	-1181.64	-917.99
8.5in Open Hole	6824.00	11517.00	4693.00	6290.78	6627.44	-1181.64	-917.99	-5372.11	696.69
5.5in Casing Production	18.00	11517.00	11499.00	18.00	6627.44	0.00	0.00	-5372.11	696.69

### TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
WEU4 516537 BHL Rev-1	6621.00	-5371.46	704.55	1627247.43	313077.10	39°21'07.465"N	80°49'05.476"W	point
WEU4 516537 LP Rev-1	6621.00	-1822.10	-950.13	1625592.43	316626.28	39°21'42.301"N	80°49'27.208"W	point
WEU4 HL11 Rev-1	6700.00	-911.98	-1122.93	1625419.64	317536.36	39°21'51.270"N	80°49'29.579"W	polygon
WEU4 HL2 Rev-1	6700.00	-55.99	21.57	1626564.08	318392.30	39°21'59.896"N	80°49'15.169"W	polygon
WEU4 HL9 Rev-1	6700.00	-55.99	21.57	1626564.08	318392.30	39°21'59.896"N	80°49'15.169"W	polygon

RECEIVED  
Office of Oil and Gas

JUN 14 2019

West Virginia Department of Energy, Mineral and Natural Resources



# Actual Wellpath Report

WEU4 516537 AWP Proj: 11517'

Page 8 of 9



## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT	Slot	Slot 516537
Area	Tyler County, WV	Well	WEU4 516537
Field	Tyler	Wellbore	WEU4 516537 AWB
Facility	WEU4 Pad		

## WELLPATH COMPOSITION - Ref Wellbore: WEU4 516537 AWB Ref Wellpath: WEU4 516537 AWP Proj: 11517'

Start MD (ft)	End MD (ft)	Positional Uncertainty Model	Log Name/Comment	Wellbore
18.00	4183.00	Gyrodata standard - Continuous gyro	01_Gyrodata Cont Gyro <8-3/4">(100'-4178')	WEU4 516537 AWB
4183.00	6752.00	OWSG MWD rev2 - Standard	02_SDI MWD <8-3/4">(4178')\4243'-6747')	WEU4 516537 AWB
6752.00	11472.00	OWSG MWD rev2 + IFR1 + Multi-Station Correction	03_BH AT Curve + MagVar MSA <8-1/2">(6752')\6793'-11472')	WEU4 516537 AWB
11472.00	11517.00	Blind Drilling (std)	Projection to bit	WEU4 516537 AWB

RECEIVED  
Office of Oil and Gas

JUN 14 2019

West Virginia Department of Energy





# Actual Wellpath Report

WEU4 516537 AWP Proj: 11517

Page 9 of 9



## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT	Slot	Slot 516537
Area	Tyler County, WV	Well	WEU4 516537
Field	Tyler	Wellbore	WEU4 516537 AWB
Facility	WEU4 Pad		

## COMMENTS

Wellpath general comments  
 API: 47-095-02508-0000  
 BH Job#: 109614387  
 Rig: Precision 539  
 Duration: 1/11/2019 - 1/16/2019  
 01\_Gyrodata Cont Gyro <8-3/4">(100'-4178')  
 02\_SDI MWD <8-3/4">(4178')(4243-6747')  
 03\_BH AT Curve + MagVar MSA <8-1/2">(6752')(6793'-11472')  
 Projected MD at TD: 11517'

RECEIVED  
 Office of Oil and Gas

JUN 14 2019

WV Department of



Well Operator's Report of Well Work



Well Number: WEU4H10 (516537)

API: 47 - 095 - 02508

Submission:  Initial  Amended

Notes: Please Note That Wireline Stage 12  
Was Re-Perforated.

RECEIVED  
Office of Oil and Gas

JUN 14 2019

WV Department of  
Environmental Protection