



# Actual Wellpath Report

Haggard 12H AWB Proj:20242'

Page 1 of 11



## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Haggard 12H
Field	Wetzel	API	47-103-03530-0000
Facility	Haggard Pad	Wellbore	Haggard 12H AWB
Slot	Slot 12		

## REPORT SETUP INFORMATION

Projection System	NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Scurdan
Scale	0.999941	Report Generated	11/22/2023 at 8:45:37 AM
Convergence at slot	0.71° West	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	57.09	48.64	1684594.27	422388.84	39°39'15.4870"N	80°37'12.8331"W
Facility Reference Pt			1684545.63	422331.75	39°39'14.9168"N	80°37'13.4459"W
Field Reference Pt			1688243.35	385255.46	39°33'8.9436"N	80°36'20.3370"W

## WELLPATH DATUM

Calculation method	Minimum curvature	Patterson 292 (RKB) to Facility Vertical Datum	1547.00ft
Horizontal Reference Pt	Slot	Patterson 292 (RKB) to Mean Sea Level	1547.00ft
Vertical Reference Pt	Patterson 292 (RKB)	Patterson 292 (RKB) to Ground Level at Slot (Slot 12)	28.00ft
MD Reference Pt	Patterson 292 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	147.37°

RECEIVED  
 Office of Oil and Gas  
 JUL 08 2024  
 WV Department of  
 Environmental Protection





# Actual Wellpath Report

Haggard 12H AWB Proj:20242'  
Page 2 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT PRODUCTION COMPANY	Well	Haggard 12H
Field	Wetzel	API	47-103-03530-0000
Facility	Haggard Pad	Wellbore	Haggard 12H AWB
Slot	Slot 12		

WELLPATH DATA (228 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	327.260	0.00	0.00	0.00	0.00	1684594.27	422388.84	39°39'15.4870"N	80°37'12.8331"W	0.00	0.000	0.00	0.00	0.00
28.00	0.000	327.260	28.00	0.00	0.00	0.00	1684594.27	422388.84	39°39'15.4870"N	80°37'12.8331"W	0.00	0.000	0.00	0.00	0.00
115.00	0.000	327.260	115.00	0.00	0.00	0.00	1684594.27	422388.84	39°39'15.4870"N	80°37'12.8331"W	0.00	0.000	0.00	0.00	0.00
215.00	0.010	93.310	215.00	0.01	0.00	0.01	1684594.28	422388.84	39°39'15.4870"N	80°37'12.8330"W	0.01	93.310	0.01	0.01	0.00
315.00	0.020	118.230	315.00	0.03	-0.01	0.03	1684594.30	422388.83	39°39'15.4869"N	80°37'12.8327"W	0.03	105.770	0.01	0.01	24.92
415.00	0.010	320.880	415.00	0.03	-0.01	0.04	1684594.31	422388.83	39°39'15.4869"N	80°37'12.8326"W	0.04	104.138	0.03	-0.01	-157.35
515.00	0.010	203.400	515.00	0.03	-0.01	0.03	1684594.30	422388.83	39°39'15.4869"N	80°37'12.8327"W	0.04	109.580	0.02	0.00	-117.48
615.00	0.050	88.770	615.00	0.06	-0.02	0.07	1684594.34	422388.82	39°39'15.4868"N	80°37'12.8322"W	0.08	104.470	0.05	0.04	-114.63
715.00	0.050	60.310	715.00	0.08	0.00	0.16	1684594.43	422388.84	39°39'15.4871"N	80°37'12.8311"W	0.16	88.714	0.02	0.00	-28.46
815.00	0.080	81.430	815.00	0.11	0.04	0.26	1684594.53	422388.88	39°39'15.4874"N	80°37'12.8298"W	0.26	82.292	0.04	0.03	21.12
915.00	0.120	72.640	915.00	0.17	0.08	0.43	1684594.70	422388.92	39°39'15.4878"N	80°37'12.8276"W	0.44	79.858	0.04	0.04	-8.79
1015.00	0.150	79.720	1015.00	0.24	0.13	0.66	1684594.93	422388.97	39°39'15.4884"N	80°37'12.8247"W	0.67	78.711	0.03	0.03	7.08
1115.00	0.190	66.670	1115.00	0.32	0.22	0.94	1684595.21	422389.06	39°39'15.4893"N	80°37'12.8211"W	0.97	76.797	0.06	0.04	-13.05
1215.00	0.190	70.410	1215.00	0.39	0.34	1.25	1684595.52	422389.18	39°39'15.4905"N	80°37'12.8172"W	1.30	74.692	0.01	0.00	3.74
1315.00	0.190	81.330	1315.00	0.49	0.42	1.57	1684595.84	422389.26	39°39'15.4914"N	80°37'12.8131"W	1.63	74.931	0.04	0.00	10.92
1415.00	0.210	72.920	1415.00	0.61	0.50	1.91	1684596.18	422389.34	39°39'15.4922"N	80°37'12.8088"W	1.97	75.281	0.04	0.02	-8.41
1515.00	0.180	76.140	1515.00	0.71	0.59	2.24	1684596.51	422389.43	39°39'15.4931"N	80°37'12.8046"W	2.31	75.152	0.03	-0.03	3.22
1615.00	0.210	76.230	1615.00	0.82	0.67	2.57	1684596.84	422389.51	39°39'15.4940"N	80°37'12.8004"W	2.65	75.285	0.03	0.03	0.09
1715.00	0.210	77.450	1715.00	0.94	0.76	2.92	1684597.19	422389.60	39°39'15.4949"N	80°37'12.7959"W	3.02	75.474	0.00	0.00	1.22
1815.00	0.210	78.860	1814.99	1.07	0.83	3.28	1684597.55	422389.67	39°39'15.4956"N	80°37'12.7913"W	3.39	75.764	0.01	0.00	1.41
1915.00	0.220	80.190	1914.99	1.21	0.90	3.65	1684597.92	422389.74	39°39'15.4964"N	80°37'12.7866"W	3.76	76.140	0.01	0.01	1.33
2015.00	0.240	79.180	2014.99	1.36	0.97	4.05	1684598.32	422389.81	39°39'15.4971"N	80°37'12.7816"W	4.16	76.480	0.02	0.02	-1.01
2115.00	0.360	65.730	2114.99	1.49	1.14	4.54	1684598.81	422389.98	39°39'15.4988"N	80°37'12.7753"W	4.68	75.883	0.14	0.12	-13.45
2215.00	0.320	64.310	2214.99	1.57	1.39	5.08	1684599.35	422390.23	39°39'15.5014"N	80°37'12.7685"W	5.26	74.670	0.04	-0.04	-1.42
2315.00	0.310	74.580	2314.99	1.68	1.58	5.59	1684599.86	422390.42	39°39'15.5034"N	80°37'12.7619"W	5.81	74.171	0.06	-0.01	10.27
2415.00	0.250	94.150	2414.99	1.89	1.64	6.07	1684600.34	422390.48	39°39'15.5040"N	80°37'12.7558"W	6.29	74.868	0.11	-0.06	19.57
2515.00	0.260	87.630	2514.99	2.13	1.63	6.51	1684600.78	422390.47	39°39'15.5040"N	80°37'12.7502"W	6.71	75.911	0.03	0.01	-6.52
2615.00	0.270	86.060	2614.99	2.36	1.66	6.97	1684601.24	422390.50	39°39'15.5043"N	80°37'12.7443"W	7.17	76.611	0.01	0.01	-1.57
2715.00	0.240	103.190	2714.98	2.63	1.63	7.41	1684601.68	422390.47	39°39'15.5040"N	80°37'12.7386"W	7.59	77.611	0.08	-0.03	17.13
2815.00	0.240	94.870	2814.98	2.96	1.56	7.91	1684602.18	422390.40	39°39'15.5034"N	80°37'12.7322"W	8.06	78.879	0.11	0.10	-8.32

RECEIVED  
 Office of Oil and Gas  
 JUL 08 2024  
 Environmental Protection  
 Department of





# Actual Wellpath Report

Haggard 12H AWB Proj:20242'

Page 3 of 11



## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Haggard 12H
Field	Wetzel	API	47-103-03530-0000
Facility	Haggard Pad	Wellbore	Haggard 12H AWB
Slot	Slot 12		

## WELLPATH DATA (228 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]
2915.00	0.320	98.500	2914.98	3.32	1.49	8.48	1684602.75	422390.33	39°39'15.5028"N	80°37'12.7249"W	8.61	80.046	0.03	-0.02	3.63
2937.00	0.320	97.520	2936.98	3.40	1.47	8.61	1684602.87	422390.31	39°39'15.5026"N	80°37'12.7234"W	8.73	80.295	0.02	0.00	-4.45
3012.00	0.270	81.820	3011.98	3.61	1.47	8.99	1684603.26	422390.31	39°39'15.5026"N	80°37'12.7185"W	9.11	80.715	0.13	-0.07	-20.93
3055.00	0.180	84.820	3054.98	3.68	1.49	9.16	1684603.42	422390.33	39°39'15.5029"N	80°37'12.7163"W	9.28	80.757	0.21	-0.21	6.98
3141.00	0.140	71.220	3140.98	3.77	1.54	9.39	1684603.66	422390.38	39°39'15.5033"N	80°37'12.7133"W	9.51	80.710	0.06	-0.05	-15.81
3228.00	0.150	52.410	3227.98	3.78	1.64	9.58	1684603.85	422390.48	39°39'15.5044"N	80°37'12.7109"W	9.72	80.288	0.06	0.01	-21.62
3314.00	0.090	106.320	3313.98	3.83	1.69	9.73	1684604.00	422390.53	39°39'15.5049"N	80°37'12.7090"W	9.88	80.155	0.14	-0.07	62.69
3401.00	0.170	121.470	3400.98	3.99	1.60	9.91	1684604.18	422390.44	39°39'15.5041"N	80°37'12.7067"W	10.04	80.813	0.10	0.09	17.41
3488.00	0.180	111.060	3487.98	4.22	1.49	10.15	1684604.42	422390.33	39°39'15.5029"N	80°37'12.7036"W	10.26	81.667	0.04	0.01	-11.97
3574.00	0.110	68.920	3573.98	4.35	1.47	10.35	1684604.62	422390.31	39°39'15.5028"N	80°37'12.7010"W	10.45	81.931	0.14	-0.08	-49.00
3618.00	0.270	355.110	3617.98	4.26	1.59	10.38	1684604.65	422390.43	39°39'15.5040"N	80°37'12.7007"W	10.50	81.314	0.59	0.36	-167.75
3661.00	0.570	354.530	3660.98	3.98	1.90	10.35	1684604.62	422390.74	39°39'15.5071"N	80°37'12.7011"W	10.53	79.601	0.70	0.70	-1.35
3704.00	1.050	4.860	3703.97	3.48	2.51	10.37	1684604.63	422391.35	39°39'15.5130"N	80°37'12.7010"W	10.66	76.412	1.16	1.12	24.02
3747.00	1.710	12.140	3746.96	2.71	3.53	10.53	1684604.80	422392.36	39°39'15.5231"N	80°37'12.6990"W	11.11	71.497	1.59	1.53	16.93
3790.00	2.530	16.960	3789.93	1.64	5.06	10.95	1684605.21	422393.90	39°39'15.5384"N	80°37'12.6940"W	12.06	65.189	1.95	1.91	11.21
3833.00	3.380	19.750	3832.87	0.25	7.16	11.65	1684605.92	422396.00	39°39'15.5592"N	80°37'12.6853"W	13.68	58.423	2.00	1.98	6.49
3876.00	4.330	23.210	3875.77	-1.43	9.85	12.72	1684606.99	422398.69	39°39'15.5859"N	80°37'12.6721"W	16.08	52.255	2.27	2.21	8.05
3920.00	5.370	24.740	3919.62	-3.48	13.24	14.24	1684608.50	422402.08	39°39'15.6196"N	80°37'12.6533"W	19.44	47.068	2.38	2.36	3.48
3963.00	6.070	23.960	3962.40	-5.81	17.15	16.00	1684610.27	422405.99	39°39'15.6584"N	80°37'12.6313"W	23.45	43.018	1.64	1.63	-1.81
4006.00	6.640	22.400	4005.14	-8.49	21.52	17.87	1684612.14	422410.36	39°39'15.7019"N	80°37'12.6081"W	27.98	39.703	1.38	1.33	-3.63
4049.00	7.430	23.500	4047.81	-11.46	26.37	19.93	1684614.20	422415.21	39°39'15.7501"N	80°37'12.5826"W	33.05	37.075	1.86	1.84	2.56
4093.00	8.180	26.530	4091.41	-14.66	31.78	22.46	1684616.73	422420.62	39°39'15.8039"N	80°37'12.5511"W	38.92	35.248	1.94	1.70	6.89
4136.00	8.800	31.180	4133.94	-17.68	37.33	25.53	1684619.80	422426.17	39°39'15.8591"N	80°37'12.5127"W	45.23	34.365	2.15	1.44	10.81
4179.00	9.760	35.290	4176.37	-20.50	43.12	29.34	1684623.61	422431.96	39°39'15.9168"N	80°37'12.4650"W	52.16	34.229	2.71	2.23	9.56
4222.00	10.970	37.240	4218.67	-23.28	49.35	33.92	1684628.19	422438.19	39°39'15.9789"N	80°37'12.4074"W	59.89	34.499	2.93	2.81	4.53
4266.00	12.270	38.190	4261.77	-26.25	56.36	39.34	1684633.61	422445.20	39°39'16.0488"N	80°37'12.3391"W	68.74	34.917	2.99	2.95	2.16
4309.00	13.540	38.580	4303.68	-29.37	63.89	45.31	1684639.58	422452.72	39°39'16.1240"N	80°37'12.2641"W	78.32	35.343	2.96	2.95	0.91
4352.00	14.010	37.550	4345.44	-32.76	71.95	51.62	1684645.89	422460.79	39°39'16.2044"N	80°37'12.1847"W	88.55	35.657	1.23	1.09	-2.40
4439.00	16.000	37.060	4429.47	-40.49	89.87	65.26	1684659.53	422478.70	39°39'16.3832"N	80°37'12.0131"W	111.07	35.988	2.29	2.29	-0.56
4516.00	16.300	38.540	4503.43	-47.67	106.81	78.40	1684672.67	422495.64	39°39'16.5522"N	80°37'11.8478"W	132.49	36.282	0.69	0.43	1.92

RECEIVED  
 Dept of Oil and Gas  
 JUL 08 2024  
 Environmental Protection  
 Department of





# Actual Wellpath Report

Haggard 12H AWB Proj:20242'

Page 4 of 11



## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Haggard 12H
Field	Wetzel	API	47-103-03530-0000
Facility	Haggard Pad	Wellbore	Haggard 12H AWB
Slot	Slot 12		

## WELLPATH DATA (228 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]
4601.00	16.370	42.350	4584.99	-54.63	125.01	93.92	1684688.18	422513.84	39°39'16.7339"N	80°37'11.6524"W	156.36	36.919	1.26	0.05	4.48
4688.00	16.660	42.760	4668.40	-60.96	143.22	110.65	1684704.91	422532.05	39°39'16.9160"N	80°37'11.4415"W	180.98	37.688	0.36	0.33	0.47
4774.00	16.680	40.740	4750.79	-67.60	161.62	127.07	1684721.33	422550.45	39°39'17.0999"N	80°37'11.2344"W	205.60	38.175	0.67	0.02	-2.35
4861.00	15.590	38.390	4834.36	-74.97	180.25	142.48	1684736.74	422569.08	39°39'17.2858"N	80°37'11.0404"W	229.76	38.325	1.46	-1.25	-2.70
4947.00	14.960	35.080	4917.33	-82.94	198.39	156.04	1684750.30	422587.22	39°39'17.4668"N	80°37'10.8700"W	252.40	38.185	1.25	-0.73	-3.85
5033.00	15.190	35.830	5000.37	-91.29	216.61	169.01	1684763.27	422605.44	39°39'17.6484"N	80°37'10.7070"W	274.74	37.963	0.35	0.27	0.87
5120.00	16.600	37.140	5084.04	-99.77	235.76	183.19	1684777.45	422624.58	39°39'17.8394"N	80°37'10.5288"W	298.56	37.848	1.67	1.62	1.51
5207.00	16.830	38.150	5167.36	-108.22	255.57	198.47	1684792.73	422644.39	39°39'18.0371"N	80°37'10.3366"W	323.58	37.832	0.43	0.26	1.16
5293.00	16.600	37.400	5249.73	-116.51	275.12	213.62	1684807.88	422663.94	39°39'18.2321"N	80°37'10.1460"W	348.32	37.828	0.37	-0.27	-0.87
5379.00	14.970	38.580	5332.48	-124.28	293.56	228.01	1684822.27	422682.38	39°39'18.4162"N	80°37'9.9650"W	371.71	37.837	1.93	-1.90	1.37
5466.00	14.910	39.220	5416.54	-131.39	311.02	242.10	1684836.35	422699.84	39°39'18.5904"N	80°37'9.7877"W	394.14	37.897	0.20	-0.07	0.74
5552.00	15.560	40.320	5499.52	-138.22	328.38	256.56	1684850.81	422717.20	39°39'18.7638"N	80°37'9.6056"W	416.72	37.999	0.83	0.76	1.28
5639.00	14.630	42.260	5583.52	-144.50	345.41	271.50	1684865.75	422734.23	39°39'18.9339"N	80°37'9.4173"W	439.34	38.167	1.22	-1.07	2.23
5725.00	14.870	37.390	5666.69	-151.11	362.22	285.50	1684879.75	422751.04	39°39'19.1017"N	80°37'9.2410"W	461.21	38.245	1.47	0.28	-5.66
5810.00	14.790	34.090	5748.86	-159.12	379.87	298.20	1684892.46	422768.69	39°39'19.2777"N	80°37'9.0814"W	482.94	38.133	1.00	-0.09	-3.88
5897.00	13.560	33.170	5833.21	-167.69	397.60	310.01	1684904.26	422786.42	39°39'19.4544"N	80°37'8.9333"W	504.18	37.943	1.44	-1.41	-1.06
5983.00	13.990	35.600	5916.73	-175.68	414.50	321.58	1684915.83	422803.31	39°39'19.6228"N	80°37'8.7881"W	524.61	37.805	0.84	0.50	2.83
6070.00	14.620	41.380	6001.04	-182.60	431.29	334.96	1684929.21	422820.10	39°39'19.7904"N	80°37'8.6197"W	546.08	37.835	1.79	0.72	6.64
6156.00	14.990	42.810	6084.18	-188.39	447.59	349.69	1684943.94	422836.40	39°39'19.9533"N	80°37'8.4339"W	568.00	38.000	0.60	0.43	1.66
6243.00	15.030	41.690	6168.22	-194.27	464.27	364.84	1684959.09	422853.08	39°39'20.1200"N	80°37'8.2429"W	590.47	38.162	0.34	0.05	-1.29
6329.00	12.520	44.800	6251.74	-199.31	479.21	378.83	1684973.07	422868.02	39°39'20.2694"N	80°37'8.0665"W	610.86	38.327	3.04	-2.92	3.62
6416.00	11.500	44.040	6336.83	-203.36	492.14	391.50	1684985.75	422880.95	39°39'20.3987"N	80°37'7.9065"W	628.87	38.503	1.19	-1.17	-0.87
6502.00	12.650	39.300	6420.93	-208.26	505.59	403.42	1684997.67	422894.40	39°39'20.5331"N	80°37'7.7562"W	646.82	38.587	1.76	1.34	-5.51
6588.00	14.280	38.930	6504.56	-214.54	521.13	416.05	1685010.30	422909.93	39°39'20.6882"N	80°37'7.5972"W	666.84	38.603	1.90	1.90	-0.43
6675.00	14.250	33.500	6588.88	-222.26	538.40	428.71	1685022.95	422927.21	39°39'20.8605"N	80°37'7.4382"W	688.24	38.529	1.54	-0.03	-6.24
6761.00	14.180	30.680	6672.25	-231.28	556.29	439.92	1685034.17	422945.10	39°39'21.0386"N	80°37'7.2977"W	709.22	38.338	0.81	-0.08	-3.28
6847.00	13.890	33.920	6755.69	-240.12	573.91	451.06	1685045.30	422962.72	39°39'21.2142"N	80°37'7.1581"W	729.95	38.165	0.97	-0.34	3.77
6954.00	14.410	30.370	6859.46	-251.24	596.00	464.93	1685059.17	422984.81	39°39'21.4342"N	80°37'6.9844"W	755.90	37.957	0.91	0.42	-3.32
6983.00	14.660	29.360	6887.53	-254.60	602.30	468.54	1685062.78	422991.10	39°39'21.4968"N	80°37'6.9391"W	763.08	37.880	1.41	1.10	-3.48
7078.00	14.660	36.880	6979.57	-263.91	621.79	481.70	1685075.94	423010.59	39°39'21.6911"N	80°37'6.7740"W	786.55	37.765	2.55	-0.59	10.02

RECEIVED  
 Division of Oil and Gas  
 Environmental Protection  
 08 2024





# Actual Wellpath Report

Haggard 12H AWB Proj:20242'

Page 5 of 11



## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Haggard 12H
Field	Wetzel	API	47-103-03530-0000
Facility	Haggard Pad	Wellbore	Haggard 12H AWB
Slot	Slot 12		

## WELLPATH DATA (228 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]
7173.00	15.330	74.870	7071.64	-263.81	634.10	501.13	1685095.37	423022.90	39°39'21.8151"N	80°37'6.5276"W	808.22	38.319	9.56	1.29	37.88
7265.00	17.330	102.770	7160.06	-250.37	634.25	526.27	1685120.51	423023.05	39°39'21.8196"N	80°37'6.2062"W	824.16	39.684	8.71	2.17	30.33
7360.00	22.600	121.850	7249.41	-223.78	621.47	555.63	1685149.86	423010.27	39°39'21.6969"N	80°37'5.8289"W	833.63	41.799	8.75	5.55	20.08
7455.00	30.000	125.550	7334.53	-185.20	597.99	590.51	1685184.74	422986.79	39°39'21.4692"N	80°37'5.3792"W	840.41	44.639	7.97	7.79	3.89
7550.00	38.450	130.460	7413.02	-134.79	564.95	632.39	1685226.62	422953.75	39°39'21.1479"N	80°37'4.8385"W	847.99	48.224	9.35	8.89	5.17
7645.00	47.930	137.670	7482.25	-71.59	519.58	678.74	1685272.97	422908.39	39°39'20.7052"N	80°37'4.2387"W	854.78	52.566	11.24	9.98	7.59
7740.00	54.750	143.220	7541.59	1.98	462.35	725.79	1685320.01	422851.16	39°39'20.1455"N	80°37'3.6281"W	860.54	57.502	8.50	7.18	5.84
7835.00	63.330	146.260	7590.42	83.27	395.85	772.69	1685366.91	422784.67	39°39'19.4940"N	80°37'3.0180"W	868.18	62.874	9.44	9.03	3.20
7930.00	69.050	146.080	7628.76	170.13	323.68	821.06	1685415.28	422712.50	39°39'18.7868"N	80°37'2.3882"W	882.55	68.484	6.02	6.02	-0.19
8025.00	77.260	149.060	7656.27	260.96	246.99	869.72	1685463.94	422635.81	39°39'18.0348"N	80°37'1.7538"W	904.11	74.146	9.15	8.64	3.14
8120.00	84.680	151.680	7671.17	354.58	165.49	916.05	1685510.27	422554.32	39°39'17.2351"N	80°37'1.1485"W	930.88	79.760	8.27	7.81	2.76
8215.00	87.930	148.570	7677.29	449.25	83.30	963.27	1685557.48	422472.14	39°39'16.4288"N	80°37'0.5319"W	966.86	85.057	4.73	3.42	-3.27
8309.00	88.080	148.280	7680.57	543.18	3.27	1012.46	1685606.67	422392.11	39°39'15.6439"N	80°36'59.8903"W	1012.46	89.815	0.35	0.16	-0.31
8404.00	89.130	150.710	7682.88	638.07	-78.55	1060.66	1685654.87	422310.30	39°39'14.8412"N	80°36'59.2611"W	1063.57	94.235	2.79	1.11	2.56
8499.00	89.470	150.080	7684.04	732.93	-161.14	1107.59	1685701.79	422227.71	39°39'14.0308"N	80°36'58.6480"W	1119.25	98.278	0.75	0.36	-0.66
8594.00	89.290	150.150	7685.07	827.82	-243.50	1154.92	1685749.12	422145.35	39°39'13.2227"N	80°36'58.0299"W	1180.31	101.906	0.20	-0.19	0.07
8689.00	88.980	147.780	7686.50	922.76	-324.89	1203.89	1685798.09	422063.97	39°39'12.4244"N	80°36'57.3909"W	1246.96	105.102	2.52	-0.33	-2.49
8784.00	90.270	149.810	7687.12	1017.73	-406.14	1253.11	1685847.30	421982.73	39°39'11.6275"N	80°36'56.7489"W	1317.28	107.958	2.53	1.36	2.14
8879.00	89.990	149.890	7686.91	1112.64	-488.28	1300.82	1685895.01	421900.59	39°39'10.8216"N	80°36'56.1258"W	1389.44	110.574	0.31	-0.29	0.08
8974.00	89.220	148.910	7687.56	1207.57	-570.05	1349.18	1685943.36	421818.82	39°39'10.0195"N	80°36'55.4947"W	1464.66	112.905	1.31	-0.81	-1.03
9069.00	89.900	149.080	7688.29	1302.53	-651.48	1398.11	1685992.30	421737.40	39°39'9.2208"N	80°36'54.8562"W	1542.44	114.984	0.74	0.72	0.18
9164.00	90.150	149.760	7688.25	1397.47	-733.26	1446.44	1686040.62	421655.62	39°39'8.4185"N	80°36'54.2254"W	1621.69	116.882	0.76	0.26	0.72
9259.00	89.780	149.040	7688.31	1492.41	-815.03	1494.80	1686088.98	421573.86	39°39'7.6164"N	80°36'53.5942"W	1702.56	118.601	0.85	-0.39	-0.76
9354.00	89.100	149.040	7689.24	1587.36	-896.49	1543.67	1686137.84	421492.40	39°39'6.8173"N	80°36'52.9565"W	1785.11	120.146	0.72	-0.72	0.00
9449.00	89.680	150.420	7690.25	1682.28	-978.53	1591.55	1686185.72	421410.37	39°39'6.0125"N	80°36'52.3314"W	1868.31	121.584	1.58	0.61	1.45
9544.00	88.910	151.700	7691.42	1777.07	-1061.66	1637.52	1686231.69	421327.24	39°39'5.1966"N	80°36'51.7306"W	1951.56	122.957	1.57	-0.81	1.35
9638.00	89.930	151.100	7692.37	1870.83	-1144.19	1682.51	1686276.68	421244.72	39°39'4.3866"N	80°36'51.1424"W	2034.70	124.218	1.26	1.09	-0.64
9733.00	90.050	151.410	7692.39	1965.61	-1227.48	1728.20	1686322.36	421161.44	39°39'3.5690"N	80°36'50.5451"W	2119.76	125.385	0.35	0.13	0.33
9828.00	90.050	150.810	7692.30	2060.41	-1310.66	1774.09	1686368.26	421078.26	39°39'2.7527"N	80°36'49.9452"W	2205.73	126.456	0.63	0.00	-0.63
9923.00	90.390	149.630	7691.94	2155.29	-1393.11	1821.28	1686415.44	420995.82	39°39'1.9436"N	80°36'49.3290"W	2292.99	127.413	1.29	0.36	-1.24

RECEIVED  
 Department of  
 Environmental Protection  
 08 2024  
 Office of Oil and Gas





# Actual Wellpath Report

Haggard 12H AWB Proj:20242'

Page 6 of 11



REFERENCE WELLPATH IDENTIFICATION				
Operator	EQT PRODUCTION COMPANY		Well	Haggard 12H
Field	Wetzel		API	47-103-03530-0000
Facility	Haggard Pad		Wellbore	Haggard 12H AWB
Slot	Slot 12			

WELLPATH DATA (228 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]
10018.00	90.420	149.840	7691.27	2250.20	-1475.16	1869.16	1686463.31	420913.77	39°39'1.1387"N	80°36'48.7039"W	2381.14	128.281	0.22	0.03	0.22
10113.00	90.300	149.240	7690.67	2345.13	-1557.04	1917.31	1686511.47	420831.89	39°39'0.3353"N	80°36'48.0753"W	2469.91	129.080	0.64	-0.13	-0.63
10208.00	90.300	149.530	7690.17	2440.07	-1638.80	1965.69	1686559.84	420750.14	39°38'59.5333"N	80°36'47.4439"W	2559.22	129.818	0.31	0.00	0.31
10303.00	90.420	149.930	7689.58	2534.99	-1720.85	2013.58	1686607.73	420668.10	39°38'58.7284"N	80°36'46.8188"W	2648.74	130.518	0.44	0.13	0.42
10398.00	89.840	149.660	7689.36	2629.91	-1802.95	2061.37	1686655.52	420586.00	39°38'57.9229"N	80°36'46.1948"W	2738.59	131.174	0.67	-0.61	-0.28
10493.00	90.300	149.990	7689.24	2724.82	-1885.07	2109.12	1686703.27	420503.88	39°38'57.1171"N	80°36'45.5714"W	2828.76	131.789	0.60	0.48	0.35
10588.00	89.840	148.030	7689.13	2819.77	-1966.51	2158.04	1686752.17	420422.45	39°38'56.3183"N	80°36'44.9333"W	2919.64	132.341	2.12	-0.48	-2.06
10682.00	89.870	147.620	7689.37	2913.77	-2046.07	2208.09	1686802.23	420342.89	39°38'55.5382"N	80°36'44.2808"W	3010.33	132.819	0.44	0.03	-0.44
10777.00	89.800	151.340	7689.64	3008.69	-2127.90	2256.33	1686850.46	420261.07	39°38'54.7355"N	80°36'43.6513"W	3101.44	133.322	3.92	-0.07	3.92
10872.00	90.110	151.920	7689.71	3103.43	-2211.49	2301.47	1686895.60	420177.49	39°38'53.9149"N	80°36'43.0610"W	3191.77	133.858	0.69	0.33	0.61
10967.00	89.650	149.360	7689.91	3198.26	-2294.28	2348.04	1686942.17	420094.70	39°38'53.1025"N	80°36'42.4526"W	3282.83	134.336	2.74	-0.48	-2.69
11062.00	89.650	149.200	7690.49	3293.21	-2375.94	2396.57	1686990.69	420013.04	39°38'52.3013"N	80°36'41.8193"W	3374.71	134.752	0.17	0.00	-0.17
11157.00	90.020	144.750	7690.77	3388.18	-2455.57	2448.33	1687042.45	419933.42	39°38'51.5207"N	80°36'41.1450"W	3467.59	135.085	4.70	0.39	-4.68
11252.00	90.210	140.670	7690.58	3482.85	-2531.14	2505.88	1687099.99	419857.86	39°38'50.7810"N	80°36'40.3975"W	3561.75	135.287	4.30	0.20	-4.29
11347.00	89.810	140.470	7690.56	3577.18	-2604.52	2566.21	1687160.33	419784.48	39°38'50.0632"N	80°36'39.6146"W	3656.36	135.424	0.47	-0.42	-0.21
11442.00	89.800	137.550	7690.88	3671.16	-2676.22	2628.52	1687222.63	419712.79	39°38'49.3623"N	80°36'38.8069"W	3751.17	135.515	3.07	-0.01	-3.07
11537.00	89.870	136.460	7691.16	3764.61	-2745.70	2693.30	1687287.41	419643.31	39°38'48.6835"N	80°36'37.9678"W	3846.13	135.552	1.15	0.07	-1.15
11631.00	89.650	137.200	7691.55	3857.02	-2814.26	2757.61	1687351.71	419574.76	39°38'48.0139"N	80°36'37.1349"W	3940.11	135.582	0.82	-0.23	0.79
11726.00	89.620	138.920	7692.16	3950.76	-2884.92	2821.10	1687415.20	419504.10	39°38'47.3234"N	80°36'36.3122"W	4035.02	135.641	1.81	-0.03	1.81
11821.00	89.280	134.940	7693.07	4044.17	-2954.30	2885.96	1687480.05	419434.72	39°38'46.6456"N	80°36'35.4721"W	4129.97	135.670	4.20	-0.36	-4.19
11916.00	89.840	135.840	7693.80	4137.09	-3021.93	2952.67	1687546.76	419367.10	39°38'45.9854"N	80°36'34.6087"W	4224.96	135.664	1.12	0.59	0.95
12012.00	90.540	135.640	7693.48	4231.12	-3090.68	3019.67	1687613.76	419298.35	39°38'45.3142"N	80°36'33.7414"W	4320.96	135.666	0.76	0.73	-0.21
12107.00	90.450	135.710	7692.66	4324.15	-3158.64	3086.05	1687680.13	419230.39	39°38'44.6507"N	80°36'32.8822"W	4415.96	135.666	0.12	-0.09	0.07
12202.00	90.790	135.370	7691.63	4417.12	-3226.44	3152.59	1687746.66	419162.60	39°38'43.9888"N	80°36'32.0210"W	4510.95	135.663	0.51	0.36	-0.36
12297.00	90.880	135.750	7690.25	4510.10	-3294.26	3219.09	1687813.17	419094.78	39°38'43.3267"N	80°36'31.1602"W	4605.94	135.661	0.41	0.09	0.40
12392.00	90.270	135.420	7689.29	4603.09	-3362.11	3285.58	1687879.64	419026.93	39°38'42.6642"N	80°36'30.2997"W	4700.94	135.660	0.73	-0.64	-0.35
12487.00	90.330	139.980	7688.80	4696.72	-3432.36	3349.49	1687943.56	418956.69	39°38'41.9778"N	80°36'29.4716"W	4795.85	135.700	4.80	0.06	4.80
12583.00	90.200	142.710	7688.35	4792.18	-3507.32	3409.45	1688003.51	418881.73	39°38'41.2443"N	80°36'28.6934"W	4891.39	135.811	2.85	-0.14	2.84
12678.00	89.900	148.710	7688.27	4887.09	-3585.77	3462.95	1688057.01	418803.29	39°38'40.4756"N	80°36'27.9972"W	4984.96	135.998	6.32	-0.32	6.32
12773.00	89.880	151.150	7688.52	4981.99	-3667.98	3510.55	1688104.60	418721.08	39°38'39.6689"N	80°36'27.3758"W	5077.21	136.256	2.57	-0.11	2.57

RECEIVED  
 Office of Oil and Gas  
 JUL 08 2024  
 Department of Environmental Protection





# Actual Wellpath Report

Haggard 12H AWB Proj:20242'

Page 7 of 11



## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Haggard 12H
Field	Wetzel	API	47-103-03530-0000
Facility	Haggard Pad	Wellbore	Haggard 12H AWB
Slot	Slot 12		

## WELLPATH DATA (228 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]
12868.00	89.830	154.340	7688.82	5076.56	-3752.42	3554.05	1688148.10	418636.65	39°38'38.8398"N	80°36'26.8065"W	5168.36	136.555	3.36	0.03	3.36
12963.00	89.960	154.040	7689.00	5170.89	-3837.95	3595.41	1688189.46	418551.13	39°38'37.9996"N	80°36'26.2643"W	5258.97	136.869	0.34	0.14	-0.32
13058.00	89.870	154.700	7689.14	5265.18	-3923.60	3636.50	1688230.55	418465.48	39°38'37.1582"N	80°36'25.7256"W	5349.65	137.175	0.70	-0.09	0.69
13153.00	90.020	158.790	7689.23	5358.89	-4010.86	3674.00	1688268.05	418378.22	39°38'36.3004"N	80°36'25.2325"W	5439.23	137.510	4.31	0.16	4.31
13248.00	89.900	164.680	7689.30	5450.88	-4101.03	3703.76	1688297.80	418288.06	39°38'35.4129"N	80°36'24.8379"W	5525.97	137.914	6.20	-0.13	6.20
13343.00	90.630	167.050	7688.86	5540.97	-4193.15	3726.96	1688321.00	418195.95	39°38'34.5054"N	80°36'24.5269"W	5610.06	138.369	2.61	0.77	2.49
13439.00	90.420	166.560	7687.98	5631.49	-4286.61	3748.87	1688342.91	418102.49	39°38'33.5844"N	80°36'24.2321"W	5694.65	138.829	0.56	-0.22	-0.51
13533.00	90.480	166.820	7687.24	5720.20	-4378.08	3770.51	1688364.55	418011.02	39°38'32.6831"N	80°36'23.9411"W	5777.92	139.264	0.28	0.06	0.28
13629.00	90.420	168.090	7686.49	5810.35	-4471.79	3791.36	1688385.40	417917.33	39°38'31.7596"N	80°36'23.6598"W	5862.70	139.707	1.32	-0.06	1.32
13724.00	90.350	168.680	7685.85	5899.03	-4564.84	3810.49	1688404.53	417824.28	39°38'30.8424"N	80°36'23.4007"W	5946.22	140.147	0.63	-0.07	0.62
13819.00	89.920	168.230	7685.62	5987.67	-4657.92	3829.50	1688423.54	417731.21	39°38'29.9249"N	80°36'23.1430"W	6030.03	140.575	0.66	-0.45	-0.47
13914.00	90.320	168.770	7685.42	6076.28	-4751.01	3848.44	1688442.48	417638.12	39°38'29.0072"N	80°36'22.8863"W	6114.13	140.992	0.71	0.42	0.57
14009.00	90.320	168.470	7684.89	6164.82	-4844.14	3867.19	1688461.22	417545.00	39°38'28.0892"N	80°36'22.6320"W	6198.45	141.399	0.32	0.00	-0.32
14104.00	90.290	168.200	7684.39	6253.53	-4937.18	3886.39	1688480.43	417451.97	39°38'27.1721"N	80°36'22.3719"W	6283.29	141.791	0.29	-0.03	-0.28
14199.00	90.170	168.610	7684.01	6342.20	-5030.24	3905.49	1688499.52	417358.91	39°38'26.2547"N	80°36'22.1132"W	6368.37	142.174	0.45	-0.13	0.43
14389.00	90.380	160.550	7683.09	6523.54	-5213.24	3955.96	1688549.99	417175.92	39°38'24.4523"N	80°36'21.4392"W	6544.28	142.808	4.24	0.11	-4.24
14483.00	90.200	157.420	7682.62	6615.60	-5300.98	3989.67	1688583.70	417088.19	39°38'23.5894"N	80°36'20.9946"W	6634.59	143.034	3.34	-0.19	-3.33
14579.00	90.320	154.980	7682.18	6710.46	-5388.81	4028.41	1688622.43	417000.36	39°38'22.7262"N	80°36'20.4857"W	6728.10	143.220	2.54	0.13	-2.54
14674.00	90.260	151.370	7681.70	6804.95	-5473.57	4071.27	1688665.29	416915.61	39°38'21.8937"N	80°36'19.9245"W	6821.67	143.358	3.80	-0.06	-3.80
14769.00	90.140	151.330	7681.37	6899.72	-5556.94	4116.82	1688710.84	416832.24	39°38'21.0754"N	80°36'19.3292"W	6915.76	143.467	0.13	-0.13	-0.04
14864.00	90.570	146.300	7680.78	6994.66	-5638.18	4165.99	1688760.01	416751.00	39°38'20.2785"N	80°36'18.6879"W	7010.32	143.540	5.31	0.45	-5.29
14960.00	90.660	146.580	7679.75	7090.64	-5718.17	4219.06	1688813.07	416671.02	39°38'19.4944"N	80°36'17.9971"W	7106.19	143.579	0.31	0.09	0.29
15055.00	90.540	146.500	7678.76	7185.63	-5797.43	4271.43	1688865.44	416591.77	39°38'18.7176"N	80°36'17.3152"W	7201.06	143.618	0.15	-0.13	-0.08
15150.00	90.840	146.560	7677.61	7280.61	-5876.67	4323.82	1688917.83	416512.53	39°38'17.9409"N	80°36'16.6332"W	7295.93	143.656	0.32	0.32	0.06
15245.00	90.810	146.770	7676.24	7375.59	-5956.03	4376.02	1688970.03	416433.18	39°38'17.1629"N	80°36'15.9535"W	7390.79	143.694	0.22	-0.03	0.22
15340.00	90.870	145.220	7674.85	7470.55	-6034.77	4429.15	1689023.15	416354.44	39°38'16.3912"N	80°36'15.2622"W	7485.71	143.724	1.63	0.06	-1.63
15435.00	90.970	145.180	7673.33	7565.47	-6112.77	4483.36	1689077.35	416276.44	39°38'15.6270"N	80°36'14.5570"W	7580.66	143.742	0.11	0.11	-0.04
15530.00	89.580	143.120	7672.87	7660.31	-6189.77	4538.99	1689132.98	416199.45	39°38'14.8728"N	80°36'13.8339"W	7675.65	143.747	2.62	-1.46	-2.17
15626.00	89.290	145.060	7672.98	7756.15	-6267.52	4595.29	1689189.28	416121.71	39°38'14.1113"N	80°36'13.1021"W	7771.64	143.751	2.15	0.74	2.02
15720.00	89.000	144.440	7672.66	7850.05	-6344.28	4649.54	1689243.53	416044.95	39°38'13.3593"N	80°36'12.3967"W	7865.63	143.763	0.69	-0.20	-0.66

RECEIVED  
 Dept of Oil and Gas  
 Environmental Protection  
 10/8/2024





# Actual Wellpath Report

Haggard 12H AWB Proj:20242'

Page 8 of 11



REFERENCE WELLPATH IDENTIFICATION				
Operator	EQT PRODUCTION COMPANY		Well	Haggard 12H
Field	Wetzel		API	47-103-03530-0000
Facility	Haggard Pad		Wellbore	Haggard 12H AWB
Slot	Slot 12			

## WELLPATH DATA (228 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]
15815.00	90.260	144.840	7672.36	7944.94	-6421.75	4704.52	1689298.50	415967.48	39°38'12.6003"N	80°36'11.6818"W	7960.62	143.774	0.45	0.17	0.42
15910.00	90.320	144.810	7671.88	8039.85	-6499.41	4759.25	1689353.23	415889.83	39°38'11.8396"N	80°36'10.9702"W	8055.60	143.786	0.07	0.06	-0.03
16005.00	90.150	145.690	7671.49	8134.78	-6577.46	4813.40	1689407.37	415811.78	39°38'11.0748"N	80°36'10.2659"W	8150.57	143.803	0.94	-0.18	0.93
16100.00	90.160	146.890	7671.23	8229.76	-6656.49	4866.12	1689460.09	415732.76	39°38'10.3002"N	80°36'9.5797"W	8245.48	143.832	1.26	0.01	1.26
16195.00	90.630	146.430	7670.58	8324.75	-6735.85	4918.33	1689512.30	415653.40	39°38'9.5223"N	80°36'8.8999"W	8340.36	143.864	0.69	0.49	-0.48
16290.00	90.530	146.560	7669.62	8419.74	-6815.06	4970.77	1689564.73	415574.20	39°38'8.7458"N	80°36'8.2173"W	8435.26	143.894	0.17	-0.11	0.14
16385.00	90.530	148.050	7668.74	8514.73	-6895.00	5022.08	1689616.04	415494.26	39°38'7.9620"N	80°36'7.5489"W	8530.08	143.932	1.57	0.00	1.57
16480.00	90.440	150.150	7667.93	8609.68	-6976.51	5070.86	1689664.82	415412.76	39°38'7.1625"N	80°36'6.9127"W	8624.69	143.989	2.21	-0.09	2.21
16575.00	90.350	152.770	7667.28	8704.42	-7059.96	5116.25	1689710.20	415329.31	39°38'6.3433"N	80°36'6.3196"W	8718.88	144.070	2.76	-0.09	2.76
16670.00	90.620	154.880	7666.47	8798.81	-7145.21	5158.15	1689752.10	415244.07	39°38'5.5059"N	80°36'5.7707"W	8812.52	144.174	2.24	0.28	2.22
16765.00	90.500	155.940	7665.54	8892.87	-7231.59	5197.68	1689791.63	415157.70	39°38'4.6571"N	80°36'5.2520"W	8905.71	144.293	1.12	-0.13	1.12
16860.00	90.500	155.820	7664.72	8986.82	-7318.29	5236.50	1689830.45	415071.00	39°38'3.8049"N	80°36'4.7422"W	8998.79	144.415	0.13	0.00	-0.13
16955.00	90.590	155.810	7663.81	9080.79	-7404.95	5275.41	1689869.36	414984.35	39°38'2.9533"N	80°36'4.2313"W	9091.93	144.533	0.10	0.09	-0.01
17050.00	90.380	155.950	7663.01	9174.74	-7491.65	5314.23	1689908.18	414897.65	39°38'2.1011"N	80°36'3.7216"W	9185.09	144.650	0.27	-0.22	0.15
17145.00	89.850	154.560	7662.82	9268.84	-7577.92	5354.00	1689947.94	414811.38	39°38'1.2534"N	80°36'3.1998"W	9278.48	144.758	1.57	-0.56	-1.46
17240.00	90.190	155.480	7662.78	9362.99	-7664.03	5394.12	1689988.06	414725.27	39°38'0.4072"N	80°36'2.6736"W	9371.98	144.861	1.03	0.36	0.97
17335.00	90.220	155.880	7662.44	9457.00	-7750.60	5433.24	1690027.18	414638.71	39°37'59.5565"N	80°36'2.1601"W	9465.30	144.969	0.42	0.03	0.42
17430.00	90.220	155.790	7662.08	9550.96	-7837.28	5472.13	1690066.07	414552.04	39°37'58.7046"N	80°36'1.6495"W	9558.62	145.077	0.09	0.00	-0.09
17525.00	90.220	155.760	7661.71	9644.94	-7923.91	5511.11	1690105.04	414465.41	39°37'57.8532"N	80°36'1.1378"W	9651.98	145.181	0.03	0.00	-0.03
17620.00	90.530	155.410	7661.09	9738.96	-8010.41	5550.38	1690144.31	414378.91	39°37'57.0031"N	80°36'0.6224"W	9745.43	145.282	0.49	0.33	-0.37
17715.00	90.070	155.180	7660.60	9833.05	-8096.72	5590.08	1690184.01	414292.62	39°37'56.1550"N	80°36'0.1014"W	9839.00	145.378	0.54	-0.48	-0.24
17810.00	90.440	155.740	7660.17	9927.11	-8183.14	5629.54	1690223.46	414206.20	39°37'55.3058"N	80°35'59.5837"W	9932.54	145.474	0.71	0.39	0.59
17905.00	90.620	155.950	7659.29	10021.06	-8269.81	5668.41	1690262.33	414119.53	39°37'54.4539"N	80°35'59.0733"W	10026.00	145.572	0.29	0.19	0.22
18000.00	90.530	155.900	7658.34	10115.00	-8356.55	5707.16	1690301.08	414032.81	39°37'53.6015"N	80°35'58.5645"W	10119.46	145.669	0.11	-0.09	-0.05
18096.00	90.320	155.400	7657.63	10210.00	-8444.00	5746.74	1690340.66	413945.35	39°37'52.7420"N	80°35'58.0450"W	10214.02	145.762	0.56	-0.22	-0.52
18191.00	90.280	155.820	7657.13	10304.02	-8530.52	5785.97	1690379.89	413858.84	39°37'51.8917"N	80°35'57.5301"W	10307.63	145.852	0.44	-0.04	0.44
18286.00	90.220	155.520	7656.72	10398.02	-8617.09	5825.11	1690419.02	413772.28	39°37'51.0410"N	80°35'57.0164"W	10401.25	145.941	0.32	-0.06	-0.32
18382.00	90.470	155.690	7656.14	10493.03	-8704.51	5864.76	1690458.67	413684.86	39°37'50.1818"N	80°35'56.4960"W	10495.90	146.029	0.31	0.26	0.18
18477.00	90.840	155.580	7655.05	10587.04	-8791.05	5903.95	1690497.86	413598.33	39°37'49.3313"N	80°35'55.9817"W	10589.57	146.115	0.41	0.39	-0.12
18572.00	90.720	155.440	7653.76	10681.07	-8877.49	5943.33	1690537.23	413511.89	39°37'48.4818"N	80°35'55.4649"W	10683.30	146.198	0.19	-0.13	-0.15

RECEIVED  
 Office of Oil and Gas  
 JUL 08 2024  
 MW Department of  
 Environmental Protection





# Actual Wellpath Report

Haggard 12H AWB Proj:20242'

Page 9 of 11



## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Haggard 12H
Field	Wetzel	API	47-103-03530-0000
Facility	Haggard Pad	Wellbore	Haggard 12H AWB
Slot	Slot 12		

## WELLPATH DATA (228 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]
18668.00	90.720	155.230	7652.55	10776.14	-8964.73	5983.38	1690577.29	413424.66	39°37'47.6246"N	80°35'54.9393"W	10778.09	146.279	0.22	0.00	-0.22
18762.00	90.590	155.160	7651.48	10869.25	-9050.05	6022.82	1690616.72	413339.35	39°37'46.7862"N	80°35'54.4221"W	10870.96	146.356	0.16	-0.14	-0.07
18857.00	90.620	155.410	7650.48	10963.34	-9136.34	6062.54	1690656.44	413253.06	39°37'45.9382"N	80°35'53.9010"W	10964.81	146.433	0.27	0.03	0.26
18953.00	90.680	155.390	7649.39	11058.40	-9223.62	6102.50	1690696.39	413165.78	39°37'45.0805"N	80°35'53.3767"W	11059.64	146.511	0.07	0.06	-0.02
19048.00	90.620	155.590	7648.31	11152.44	-9310.06	6141.90	1690735.80	413079.35	39°37'44.2310"N	80°35'52.8596"W	11153.48	146.587	0.22	-0.06	0.21
19143.00	90.530	155.150	7647.35	11246.51	-9396.41	6181.49	1690775.39	412993.01	39°37'43.3825"N	80°35'52.3402"W	11247.37	146.661	0.47	-0.09	-0.46
19239.00	90.530	155.570	7646.47	11341.57	-9483.66	6221.52	1690815.41	412905.76	39°37'42.5250"N	80°35'51.8151"W	11342.27	146.734	0.44	0.00	0.44
19334.00	90.710	155.950	7645.44	11435.55	-9570.28	6260.52	1690854.40	412819.14	39°37'41.6737"N	80°35'51.3031"W	11436.10	146.809	0.44	0.19	0.40
19429.00	90.560	155.470	7644.39	11529.54	-9656.87	6299.59	1690893.48	412732.56	39°37'40.8228"N	80°35'50.7903"W	11529.96	146.882	0.53	-0.16	-0.51
19523.00	90.440	154.410	7643.57	11622.72	-9742.01	6339.41	1690933.29	412647.42	39°37'39.9861"N	80°35'50.2682"W	11623.03	146.947	1.13	-0.13	-1.13
19618.00	90.560	155.090	7642.74	11716.92	-9827.93	6379.93	1690973.81	412561.51	39°37'39.1419"N	80°35'49.7369"W	11717.16	147.010	0.73	0.13	0.72
19712.00	90.680	155.140	7641.72	11810.06	-9913.20	6419.48	1691013.36	412476.25	39°37'38.3040"N	80°35'49.2182"W	11810.22	147.074	0.14	0.13	0.05
19807.00	90.710	155.940	7640.57	11904.09	-9999.67	6458.81	1691052.69	412389.79	39°37'37.4543"N	80°35'48.7021"W	11904.18	147.141	0.84	0.03	0.84
19902.00	90.710	155.510	7639.39	11998.07	-10086.26	6497.87	1691091.74	412303.20	39°37'36.6033"N	80°35'48.1895"W	11998.12	147.209	0.45	0.00	-0.45
19997.00	90.710	155.250	7638.21	12092.14	-10172.62	6537.44	1691131.31	412216.85	39°37'35.7546"N	80°35'47.6703"W	12092.16	147.273	0.27	0.00	-0.27
20092.00	90.810	155.660	7636.95	12186.19	-10259.02	6576.90	1691170.77	412130.44	39°37'34.9055"N	80°35'47.1526"W	12186.19	147.337	0.44	0.11	0.43
20188.00	90.680	155.880	7635.70	12281.15	-10346.56	6616.30	1691210.16	412042.91	39°37'34.0451"N	80°35'46.6355"W	12281.15	147.402	0.27	-0.14	0.23
20242.00‡	90.680	155.880	7635.06	12334.55	-10395.84	6638.36	1691232.23	411993.63	39°37'33.5608"N	80°35'46.3458"W	12334.56	147.439	0.00	0.00	0.00

RECEIVED  
 Office of Oil and Gas  
 JUL 08 2024  
 WV Department of  
 Environmental Protection





# Actual Wellpath Report

Haggard 12H AWB Proj:20242'

Page 10 of 11



## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Haggard 12H
Field	Wetzel	API	47-103-03530-0000
Facility	Haggard Pad	Wellbore	Haggard 12H AWB
Slot	Slot 12		

## HOLE & CASING SECTIONS - Ref Wellbore: Haggard 12H AWB Ref Wellpath: Haggard 12H AWB Proj:20242'

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	28.00	1490.00	1462.00	28.00	1490.00	0.00	0.00	0.57	2.16
13.375in Casing Surface	28.00	1490.00	1462.00	28.00	1490.00	0.00	0.00	0.57	2.16
12.25in Open Hole	1490.00	2953.00	1463.00	1490.00	2952.98	0.57	2.16	1.46	8.69
9.625in Casing Intermediate	28.00	2953.00	2925.00	28.00	2952.98	0.00	0.00	1.46	8.69
8.75in Open Hole	2953.00	7033.00	4080.00	2952.98	6935.95	1.46	8.69	612.93	475.13
8.5in Open Hole	7033.00	20242.00	13209.00	6935.95	7635.06	612.93	475.13	-10395.84	6638.36
6in Casing Production	28.00	20242.00	20214.00	28.00	7635.06	0.00	0.00	-10395.84	6638.36

## TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Haggard 12H LP Rev-1	7668.00	139.98	931.72	1685525.93	422528.81	39°39'16.9850"N	80°37'0.9442"W	point
Haggard 12H BHL Rev-1	7879.90	-10388.41	6652.45	1691246.31	412001.07	39°37'33.6359"N	80°35'46.1669"W	point

## WELLPATH COMPOSITION - Ref Wellbore: Haggard 12H AWB Ref Wellpath: Haggard 12H AWB Proj:20242'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	1515.00	Gyrodata 2015 - CT+WIR+DPIPE	01 Gyrodata Cont. Gyro <17-1/2">(115'-1515')	Haggard 12H AWB	9/20/2023
1515.00	2937.00	Gyrodata 2015 - CT+WIR+DPIPE	02 Gyrodata Cont. Gyro <12-1/4">(1615'-2937')	Haggard 12H AWB	11/16/2023
2937.00	6954.00	OWSG MWD rev2 + HRGM	03 SDI MWD <8-3/4">(2937')(3012'-6954')	Haggard 12H AWB	9/20/2023
6954.00	20242.00	OWSG MWD rev2 + IFR1 + Sag + Multi-Station Correction	04 BH Lucida+SQC IFR1+SAG+FDIR<8-1/2">(6954')(6983'-20188')	Haggard 12H AWB	11/16/2023

RECEIVED  
 Office of Oil and Gas  
 JUL 08 2024  
 WV Department of  
 Environmental Protection





# Actual Wellpath Report

Haggard 12H AWB Proj:20242'

Page 11 of 11



## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Haggard 12H
Field	Wetzel	API	47-103-03530-0000
Facility	Haggard Pad	Wellbore	Haggard 12H AWB
Slot	Slot 12		

## COMMENTS

### Wellpath general comments

API: 47-103-03530-0000

BH Job #: 111974007

Rig: Patterson 292

Duration: 11/19/2023-11/21/2023

01\_Gyrodata Cont. Gyro <17-1/2">(115'-1515')

02\_Gyrodata Cont. Gyro <12-1/4">(1615'-2937')

03\_SDI MWD <8-3/4">(2937')(3012'-6954')

04\_BH Lucida+SQC IFR1+SAG+FDIR<8-1/2">(6954')(6983'-20188')

Landing Pt. @ 8215' MD

Final Survey @ 20188' MD

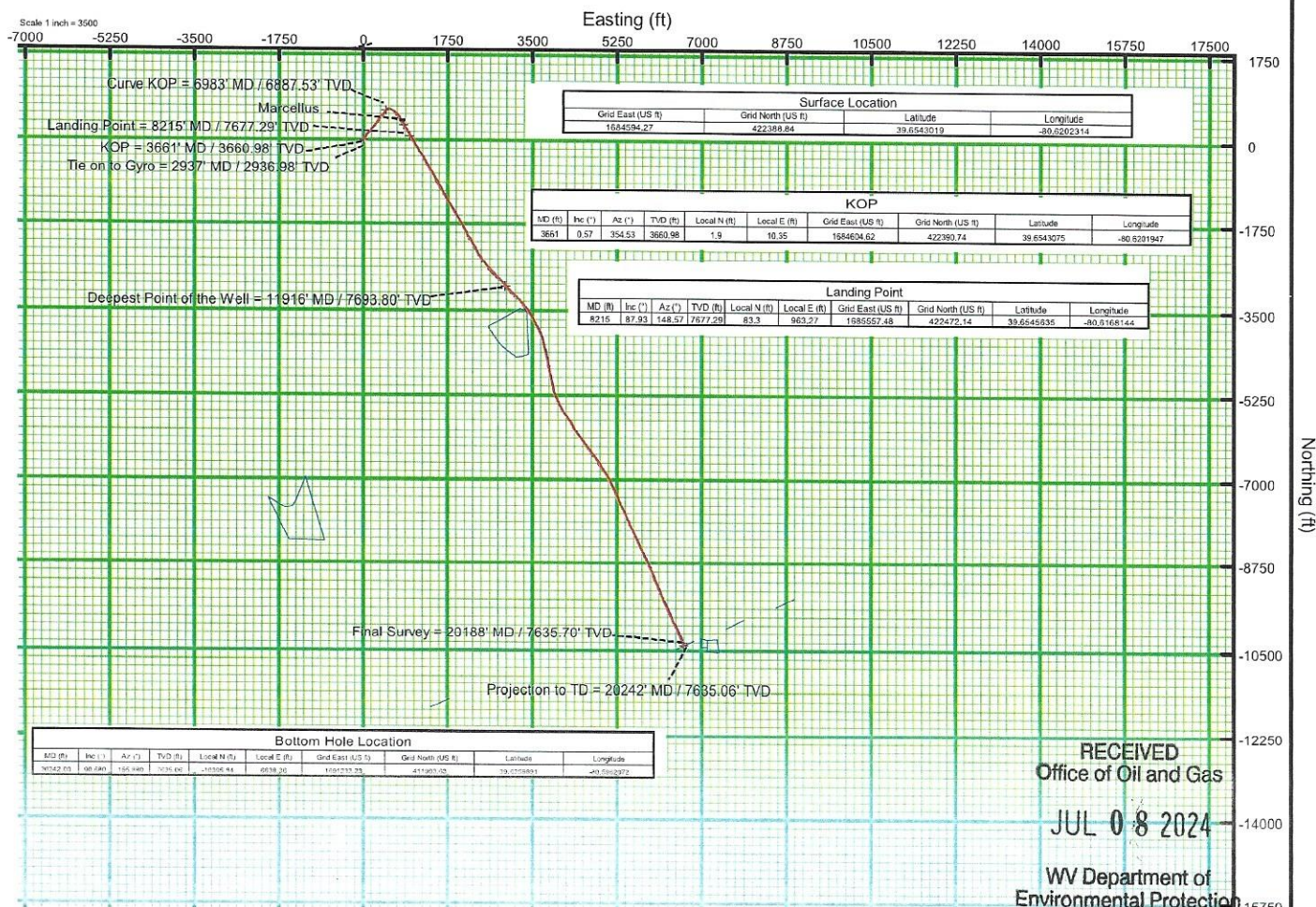
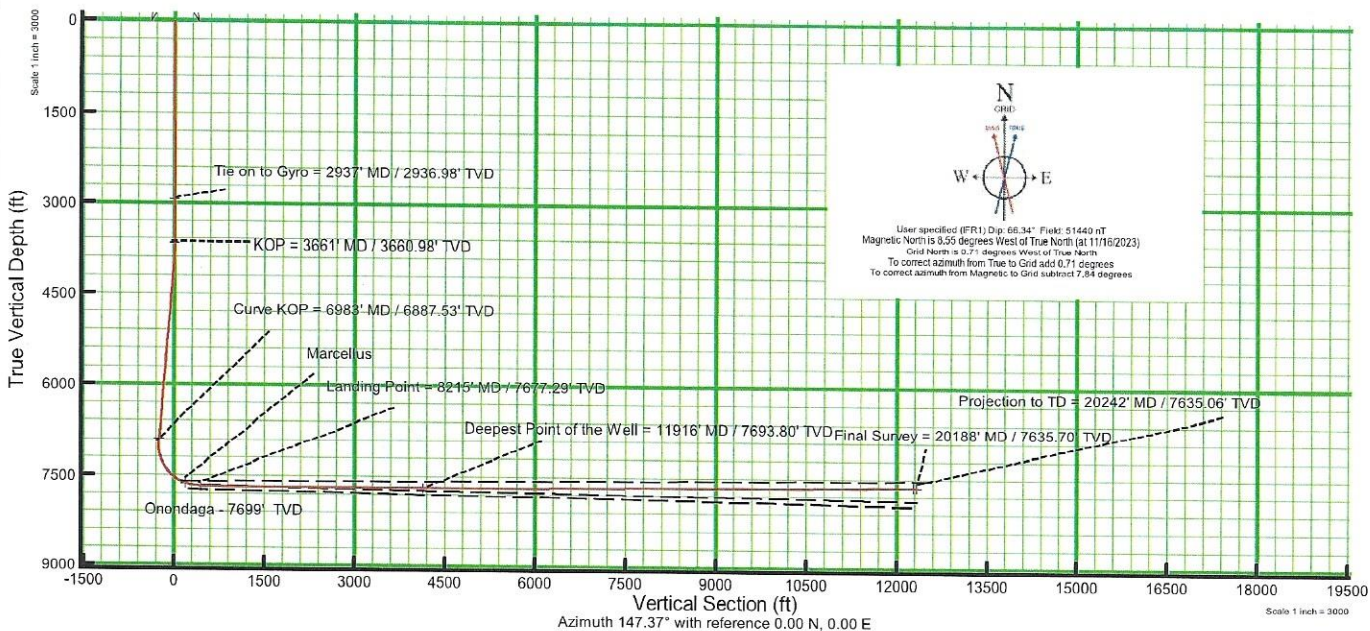
Projected MD at TD: 20424'

RECEIVED  
Office of Oil and Gas  
JUL 08 2024  
WV Department of  
Environmental Protection





KB Elevation=1547 FT  
 Ground Elevation=1519 FT  
 All Survey Measurements were taken from KB Elevation



RECEIVED  
 Office of Oil and Gas  
 JUL 08 2024  
 WV Department of  
 Environmental Protection

08/16/2024