



# Actual Wellpath Report

Haggard 6H AWB Proj: 25460'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Haggard 6H
Field	Wetzel	API	47-103-03528-0000
Facility	Haggard Pad	Wellbore	Haggard 6H AWB
Slot	Slot 06		

## 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	11/6/2023 at 8:37:11 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	22.84	19.46	1684565.09	422354.59	39°39'15.1449"N	80°37'13.2007"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 06)	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	160.20°

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 Environmental Protection



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## WELLPATH DATA (280 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	77.740	0.00	0.00	0.00	0.00	1684565.09	422354.59	39°39'15.1449"N	80°37'13.2007"W	0.00	0.000	0.00	0.00	0.00
28.00	0.000	77.740	28.00	0.00	0.00	0.00	1684565.09	422354.59	39°39'15.1449"N	80°37'13.2007"W	0.00	0.000	0.00	0.00	0.00
115.00	0.140	77.740	115.00	0.01	0.02	0.10	1684565.19	422354.61	39°39'15.1452"N	80°37'13.1994"W	0.11	77.740	0.16	0.16	0.00
215.00	0.180	69.460	215.00	0.03	0.10	0.37	1684565.46	422354.69	39°39'15.1460"N	80°37'13.1960"W	0.38	74.368	0.05	0.04	-8.28
315.00	0.170	66.100	315.00	0.02	0.22	0.65	1684565.74	422354.81	39°39'15.1472"N	80°37'13.1924"W	0.69	71.474	0.01	-0.01	-3.36
415.00	0.150	78.170	415.00	0.02	0.31	0.92	1684566.01	422354.90	39°39'15.1481"N	80°37'13.1891"W	0.97	71.555	0.04	-0.02	12.07
515.00	0.150	68.660	515.00	0.04	0.38	1.17	1684566.26	422354.97	39°39'15.1488"N	80°37'13.1859"W	1.23	71.950	0.02	0.00	-9.51
615.00	0.130	69.510	615.00	0.03	0.47	1.40	1684566.48	422355.06	39°39'15.1497"N	80°37'13.1830"W	1.47	71.470	0.02	-0.02	0.85
715.00	0.200	99.730	715.00	0.12	0.48	1.67	1684566.76	422355.07	39°39'15.1498"N	80°37'13.1794"W	1.74	74.064	0.11	0.07	30.22
815.00	0.270	111.930	815.00	0.36	0.36	2.06	1684567.15	422354.95	39°39'15.1487"N	80°37'13.1744"W	2.10	80.097	0.09	0.07	12.20
915.00	0.320	110.330	915.00	0.70	0.18	2.54	1684567.63	422354.77	39°39'15.1470"N	80°37'13.1682"W	2.55	86.059	0.05	0.05	-1.60
1015.00	0.300	115.520	1014.99	1.06	-0.03	3.04	1684568.13	422354.56	39°39'15.1450"N	80°37'13.1618"W	3.04	90.650	0.03	-0.02	5.19
1115.00	0.320	115.080	1114.99	1.45	-0.27	3.53	1684568.62	422354.32	39°39'15.1427"N	80°37'13.1555"W	3.54	94.302	0.02	0.02	-0.44
1215.00	0.210	106.440	1214.99	1.75	-0.44	3.96	1684569.05	422354.15	39°39'15.1411"N	80°37'13.1500"W	3.98	96.281	0.12	-0.11	-8.64
1315.00	0.230	105.060	1314.99	1.97	-0.54	4.33	1684569.42	422354.05	39°39'15.1401"N	80°37'13.1453"W	4.36	97.108	0.02	0.02	-1.38
1415.00	0.250	103.780	1414.99	2.21	-0.64	4.74	1684569.83	422353.95	39°39'15.1391"N	80°37'13.1401"W	4.78	97.745	0.02	0.02	-1.28
1515.00	0.250	114.740	1514.99	2.48	-0.79	5.15	1684570.24	422353.80	39°39'15.1378"N	80°37'13.1348"W	5.21	98.699	0.05	0.00	10.96
1615.00	0.250	113.840	1614.99	2.79	-0.97	5.54	1684570.63	422353.62	39°39'15.1360"N	80°37'13.1297"W	5.63	99.893	0.00	0.00	-0.90
1715.00	0.200	130.300	1714.99	3.09	-1.17	5.88	1684570.97	422353.42	39°39'15.1341"N	80°37'13.1254"W	5.99	101.241	0.08	-0.05	16.46
1815.00	0.180	132.730	1814.99	3.38	-1.39	6.12	1684571.21	422353.20	39°39'15.1320"N	80°37'13.1222"W	6.28	102.763	0.02	-0.02	2.43
1915.00	0.200	135.310	1914.99	3.68	-1.62	6.36	1684571.45	422352.97	39°39'15.1297"N	80°37'13.1191"W	6.57	104.268	0.02	0.02	2.58
2015.00	0.190	127.840	2014.99	3.98	-1.84	6.62	1684571.71	422352.75	39°39'15.1275"N	80°37'13.1159"W	6.87	105.572	0.03	-0.01	-7.47
2115.00	0.230	111.950	2114.98	4.25	-2.02	6.93	1684572.02	422352.57	39°39'15.1258"N	80°37'13.1118"W	7.22	106.247	0.07	0.04	-15.89
2215.00	0.230	122.380	2214.98	4.54	-2.20	7.29	1684572.38	422352.39	39°39'15.1240"N	80°37'13.1072"W	7.61	106.817	0.04	0.00	10.43
2315.00	0.390	133.330	2314.98	5.00	-2.54	7.71	1684572.80	422352.05	39°39'15.1207"N	80°37'13.1018"W	8.12	108.270	0.17	0.16	10.95
2415.00	0.400	131.860	2414.98	5.61	-3.01	8.21	1684573.30	422351.58	39°39'15.1162"N	80°37'13.0953"W	8.75	110.129	0.01	0.01	-1.47
2515.00	0.340	127.130	2514.98	6.17	-3.42	8.71	1684573.80	422351.17	39°39'15.1122"N	80°37'13.0888"W	9.36	111.452	0.07	-0.06	-4.73
2615.00	0.280	147.870	2614.98	6.66	-3.81	9.08	1684574.17	422350.78	39°39'15.1084"N	80°37'13.0841"W	9.84	112.763	0.13	-0.06	20.74
2715.00	0.270	151.730	2714.98	7.13	-4.22	9.32	1684574.41	422350.37	39°39'15.1043"N	80°37'13.0809"W	10.23	114.380	0.02	-0.01	3.86
2815.00	0.170	132.160	2814.97	7.49	-4.53	9.54	1684574.63	422350.06	39°39'15.1013"N	80°37'13.0781"W	10.56	115.401	0.12	-0.10	-19.57



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Facility	Haggard Pad	Wellbore	Haggard 6H AWB
Slot	Slot 06		

## WELLPATH DATA (280 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]
2893.00	0.300	153.790	2892.97	7.80	-4.79	9.72	1684574.81	422349.80	39°39'15.0988"N	80°37'13.0758"W	10.83	116.248	0.20	0.17	27.73
2976.00	0.260	155.960	2975.97	8.20	-5.16	9.89	1684574.98	422349.43	39°39'15.0952"N	80°37'13.0735"W	11.15	117.547	0.05	-0.05	2.61
3019.00	0.270	179.080	3018.97	8.40	-5.35	9.93	1684575.02	422349.24	39°39'15.0933"N	80°37'13.0729"W	11.28	118.307	0.25	0.02	53.77
3062.00	0.590	201.540	3061.97	8.66	-5.66	9.85	1684574.94	422348.93	39°39'15.0902"N	80°37'13.0739"W	11.36	119.863	0.83	0.74	52.23
3105.00	1.180	205.850	3104.97	9.13	-6.26	9.58	1684574.67	422348.33	39°39'15.0842"N	80°37'13.0773"W	11.44	123.173	1.38	1.37	10.02
3148.00	1.970	209.440	3147.95	9.93	-7.30	9.02	1684574.11	422347.29	39°39'15.0739"N	80°37'13.0843"W	11.60	128.993	1.85	1.84	8.35
3192.00	2.920	217.640	3191.91	11.02	-8.85	7.96	1684573.05	422345.74	39°39'15.0585"N	80°37'13.0975"W	11.90	138.013	2.30	2.16	18.64
3235.00	3.970	226.350	3234.83	12.21	-10.74	6.22	1684571.31	422343.85	39°39'15.0395"N	80°37'13.1195"W	12.41	149.940	2.72	2.44	20.26
3278.00	5.170	231.530	3277.69	13.44	-12.98	3.62	1684568.71	422341.61	39°39'15.0171"N	80°37'13.1523"W	13.47	164.398	2.95	2.79	12.05
3321.00	6.440	234.010	3320.47	14.73	-15.60	0.16	1684565.25	422338.99	39°39'14.9908"N	80°37'13.1963"W	15.60	179.430	3.01	2.95	5.77
3364.00	7.610	236.940	3363.15	16.05	-18.57	-4.18	1684560.91	422336.02	39°39'14.9609"N	80°37'13.2512"W	19.03	192.693	2.84	2.72	6.81
3407.00	8.830	240.460	3405.71	17.27	-21.75	-9.44	1684555.65	422332.84	39°39'14.9288"N	80°37'13.3180"W	23.71	203.463	3.07	2.84	8.19
3451.00	9.770	240.250	3449.13	18.48	-25.27	-15.62	1684549.47	422329.32	39°39'14.8933"N	80°37'13.3964"W	29.70	211.724	2.14	2.14	-0.48
3537.00	11.500	236.490	3533.65	21.78	-33.62	-29.10	1684535.99	422320.97	39°39'14.8091"N	80°37'13.5674"W	44.47	220.881	2.17	2.01	-4.37
3624.00	13.520	234.960	3618.58	26.50	-44.25	-44.66	1684520.43	422310.34	39°39'14.7021"N	80°37'13.7647"W	62.87	225.267	2.35	2.32	-1.76
3710.00	14.640	236.370	3701.99	31.74	-56.04	-61.94	1684503.15	422298.55	39°39'14.5835"N	80°37'13.9837"W	83.53	227.864	1.36	1.30	1.64
3796.00	15.880	236.200	3784.96	37.19	-68.61	-80.77	1684484.32	422285.99	39°39'14.4570"N	80°37'14.2224"W	105.97	229.656	1.44	1.44	-0.20
3882.00	17.300	233.070	3867.38	43.80	-82.83	-100.77	1684464.33	422271.76	39°39'14.3139"N	80°37'14.4758"W	130.45	230.579	1.95	1.65	-3.64
3969.00	18.980	231.060	3950.05	52.25	-99.50	-122.12	1684442.98	422255.10	39°39'14.1466"N	80°37'14.7460"W	157.52	230.827	2.06	1.93	-2.31
4055.00	20.260	230.790	4031.06	61.79	-117.70	-144.53	1684420.57	422236.89	39°39'13.9639"N	80°37'15.0297"W	186.40	230.842	1.49	1.49	-0.31
4142.00	21.270	232.820	4112.41	71.51	-136.76	-168.78	1684396.32	422217.84	39°39'13.7726"N	80°37'15.3366"W	217.23	230.982	1.43	1.16	2.33
4228.00	23.030	231.530	4192.06	81.55	-156.66	-194.38	1684370.72	422197.94	39°39'13.5728"N	80°37'15.6607"W	249.65	231.134	2.12	2.05	-1.50
4314.00	24.850	228.160	4270.66	93.72	-179.18	-221.02	1684344.09	422175.42	39°39'13.3470"N	80°37'15.9976"W	284.52	230.968	2.65	2.12	-3.92
4401.00	26.300	225.320	4349.14	108.69	-204.93	-248.34	1684316.76	422149.68	39°39'13.0891"N	80°37'16.3429"W	321.98	230.471	2.18	1.67	-3.26
4475.00	27.680	224.160	4415.08	123.13	-228.79	-271.97	1684293.13	422125.82	39°39'12.8504"N	80°37'16.6412"W	355.41	229.929	2.00	1.86	-1.57
4562.00	28.890	224.090	4491.69	141.25	-258.38	-300.68	1684264.43	422096.23	39°39'12.5545"N	80°37'17.0034"W	396.44	229.327	1.39	1.39	-0.08
4648.00	29.340	224.360	4566.82	159.58	-288.36	-329.86	1684235.25	422066.24	39°39'12.2545"N	80°37'17.3717"W	438.14	228.840	0.55	0.52	0.31
4734.00	30.100	224.530	4641.51	178.10	-318.80	-359.72	1684205.40	422035.81	39°39'11.9501"N	80°37'17.7485"W	480.66	228.451	0.89	0.88	0.20
4820.00	29.550	224.130	4716.12	196.77	-349.40	-389.61	1684175.51	422005.21	39°39'11.6440"N	80°37'18.1257"W	523.33	228.114	0.68	-0.64	-0.47
4906.00	28.920	222.830	4791.16	215.65	-379.87	-418.51	1684146.61	421974.74	39°39'11.3393"N	80°37'18.4903"W	565.20	227.771	1.04	-0.73	-1.51



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4984.00	28.460	220.920	4859.59	233.41	-407.74	-443.50	1684121.61	421946.87	39°39'11.0608"N	80°37'18.8054"W	602.46	227.406	1.32	-0.59	-2.45
5070.00	29.180	220.170	4934.93	253.92	-439.25	-470.45	1684094.67	421915.37	39°39'10.7461"N	80°37'19.1449"W	643.63	226.964	0.94	0.84	-0.87
5157.00	29.660	220.050	5010.72	275.35	-471.93	-497.98	1684067.14	421882.69	39°39'10.4197"N	80°37'19.4916"W	686.08	226.538	0.56	0.55	-0.14
5243.00	29.040	220.120	5085.68	296.50	-504.18	-525.13	1684040.00	421850.44	39°39'10.0976"N	80°37'19.8334"W	727.98	226.166	0.72	-0.72	0.08
5330.00	28.730	219.660	5161.85	317.71	-536.43	-552.08	1684013.05	421818.19	39°39'9.7757"N	80°37'20.1728"W	769.77	225.824	0.44	-0.36	-0.53
5416.00	29.440	220.830	5237.01	338.57	-568.33	-579.09	1683986.04	421786.29	39°39'9.4570"N	80°37'20.5131"W	811.38	225.537	1.06	0.83	1.36
5502.00	29.170	223.170	5312.00	358.47	-599.61	-607.25	1683957.88	421755.02	39°39'9.1445"N	80°37'20.8680"W	853.39	225.362	1.37	-0.31	2.72
5589.00	30.420	226.650	5387.51	376.90	-630.20	-637.77	1683927.36	421724.43	39°39'8.8384"N	80°37'21.2534"W	896.61	225.342	2.45	1.44	4.00
5675.00	30.390	229.040	5461.68	393.46	-659.40	-670.03	1683895.10	421695.23	39°39'8.5458"N	80°37'21.6611"W	940.08	225.458	1.41	-0.03	2.78
5762.00	29.780	228.970	5536.96	409.22	-688.01	-702.95	1683862.18	421666.62	39°39'8.2590"N	80°37'22.0773"W	983.62	225.615	0.70	-0.70	-0.08
5847.00	29.350	227.330	5610.90	424.96	-715.99	-734.19	1683830.94	421638.64	39°39'7.9787"N	80°37'22.4722"W	1025.51	225.719	1.08	-0.51	-1.93
5934.00	29.180	223.940	5686.80	442.63	-745.71	-764.59	1683800.55	421608.92	39°39'7.6812"N	80°37'22.8561"W	1068.03	225.716	1.91	-0.20	-3.90
6020.00	28.870	222.570	5762.00	461.54	-776.10	-793.18	1683771.96	421578.54	39°39'7.3774"N	80°37'23.2167"W	1109.71	225.624	0.85	-0.36	-1.59
6107.00	29.000	222.930	5838.14	480.94	-807.01	-821.75	1683743.39	421547.63	39°39'7.0684"N	80°37'23.5770"W	1151.75	225.519	0.25	0.15	0.41
6193.00	30.510	224.970	5912.80	499.80	-837.72	-851.38	1683713.76	421516.92	39°39'6.7612"N	80°37'23.9509"W	1194.41	225.463	2.11	1.76	2.37
6280.00	30.850	226.500	5987.62	518.18	-868.70	-883.17	1683681.97	421485.94	39°39'6.4512"N	80°37'24.3523"W	1238.80	225.473	0.98	0.39	1.76
6366.00	31.430	229.650	6061.23	534.91	-898.40	-916.26	1683648.89	421456.25	39°39'6.1536"N	80°37'24.7705"W	1283.22	225.564	2.01	0.67	3.66
6452.00	30.150	231.050	6135.11	549.87	-926.49	-950.14	1683615.01	421428.15	39°39'5.8717"N	80°37'25.1992"W	1327.09	225.722	1.71	-1.49	1.63
6539.00	29.900	231.680	6210.44	563.93	-953.67	-984.15	1683581.00	421400.97	39°39'5.5989"N	80°37'25.6296"W	1370.42	225.901	0.46	-0.29	0.72
6625.00	29.530	229.060	6285.13	578.38	-980.85	-1016.97	1683548.18	421373.80	39°39'5.3263"N	80°37'26.0449"W	1412.91	226.036	1.57	-0.43	-3.05
6711.00	28.790	224.450	6360.24	595.02	-1009.53	-1047.49	1683517.66	421345.12	39°39'5.0391"N	80°37'26.4304"W	1454.78	226.057	2.75	-0.86	-5.36
6798.00	28.980	222.460	6436.42	613.93	-1040.03	-1076.39	1683488.77	421314.62	39°39'4.7341"N	80°37'26.7950"W	1496.76	225.984	1.13	0.22	-2.29
6884.00	29.010	221.090	6511.64	633.78	-1071.12	-1104.16	1683461.00	421283.53	39°39'4.4234"N	80°37'27.1450"W	1538.33	225.870	0.77	0.03	-1.59
6970.00	28.810	219.140	6586.93	654.61	-1102.91	-1130.95	1683434.21	421251.75	39°39'4.1060"N	80°37'27.4823"W	1579.70	225.719	1.12	-0.23	-2.27
7057.00	28.660	220.280	6663.21	675.83	-1135.09	-1157.67	1683407.49	421219.57	39°39'3.7847"N	80°37'27.8188"W	1621.30	225.564	0.65	-0.17	1.31
7143.00	29.390	220.680	6738.41	696.52	-1166.82	-1184.76	1683380.41	421187.84	39°39'3.4677"N	80°37'28.1600"W	1662.87	225.437	0.88	0.85	0.47
7230.00	29.720	221.250	6814.09	717.48	-1199.23	-1212.89	1683352.27	421155.44	39°39'3.1440"N	80°37'28.5145"W	1705.65	225.325	0.50	0.38	0.66
7316.00	30.130	223.390	6888.63	737.53	-1230.94	-1241.78	1683323.39	421123.73	39°39'2.8270"N	80°37'28.8786"W	1748.49	225.251	1.33	0.48	2.49
7403.00	31.030	224.550	6963.53	757.09	-1262.79	-1272.51	1683292.66	421091.88	39°39'2.5085"N	80°37'29.2664"W	1792.74	225.220	1.24	1.03	1.33
7515.00	30.740	224.410	7059.65	782.04	-1303.81	-1312.79	1683252.38	421050.86	39°39'2.0981"N	80°37'29.7748"W	1850.22	225.197	0.27	-0.26	-0.13

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# Actual Wellpath Report

Haggard 6H AWB Proj: 25460'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Haggard 6H
Field	Wetzel	API	47-103-03528-0000
Facility	Haggard Pad	Wellbore	Haggard 6H AWB
Slot	Slot 06		

## WELLPATH DATA (280 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]
7628.00	32.660	216.090	7155.83	811.72	-1349.10	-1350.98	1683214.19	421005.57	39°39'1.6458"N	80°37'30.2557"W	1909.25	225.040	4.22	1.70	-7.36
7723.00	38.260	206.260	7233.24	846.56	-1396.27	-1379.14	1683186.03	420958.40	39°39'1.1762"N	80°37'30.6082"W	1962.55	224.646	8.40	5.89	-10.35
7818.00	44.510	197.070	7304.55	893.70	-1454.59	-1401.97	1683163.20	420900.08	39°39'0.5970"N	80°37'30.8907"W	2020.24	223.945	9.16	6.58	-9.67
7912.00	51.030	188.570	7367.76	952.33	-1522.37	-1417.12	1683148.06	420832.32	39°38'59.9254"N	80°37'31.0735"W	2079.86	222.949	9.63	6.94	-9.04
8007.00	51.100	176.640	7427.59	1020.43	-1595.95	-1420.47	1683144.71	420758.74	39°38'59.1978"N	80°37'31.1044"W	2136.53	221.671	9.76	0.07	-12.56
8102.00	51.140	164.400	7487.36	1092.94	-1668.64	-1408.32	1683156.85	420686.05	39°38'58.4809"N	80°37'30.9376"W	2183.52	220.164	10.02	0.04	-12.88
8198.00	52.970	152.960	7546.51	1168.39	-1738.92	-1380.79	1683184.38	420615.77	39°38'57.7898"N	80°37'30.5744"W	2220.46	218.451	9.58	1.91	-11.92
8293.00	62.240	153.020	7597.35	1247.89	-1810.31	-1344.41	1683220.77	420544.39	39°38'57.0888"N	80°37'30.0978"W	2254.92	216.599	9.76	9.76	0.06
8388.00	71.640	152.850	7634.52	1334.50	-1888.06	-1304.67	1683260.50	420466.64	39°38'56.3254"N	80°37'29.5775"W	2294.98	214.645	9.90	9.89	-0.18
8483.00	80.630	151.260	7657.26	1425.70	-1969.44	-1261.48	1683303.69	420385.27	39°38'55.5265"N	80°37'29.0123"W	2338.81	212.641	9.60	9.46	-1.67
8578.00	88.880	150.140	7665.94	1518.92	-2051.86	-1215.22	1683349.95	420302.85	39°38'54.7177"N	80°37'28.4077"W	2384.72	210.636	8.76	8.68	-1.18
8672.00	88.760	150.060	7667.88	1611.44	-2133.34	-1168.37	1683396.79	420221.39	39°38'53.9183"N	80°37'27.7958"W	2432.32	208.708	0.15	-0.13	-0.09
8767.00	88.760	150.050	7669.93	1704.94	-2215.63	-1120.96	1683444.20	420139.09	39°38'53.1109"N	80°37'27.1766"W	2483.06	206.836	0.01	0.00	-0.01
8862.00	89.190	149.870	7671.63	1798.41	-2297.86	-1073.41	1683491.75	420056.87	39°38'52.3042"N	80°37'26.5557"W	2536.21	205.039	0.49	0.45	-0.19
8956.00	90.400	150.080	7671.97	1890.91	-2379.24	-1026.37	1683538.78	419975.49	39°38'51.5058"N	80°37'25.9414"W	2591.19	203.335	1.31	1.29	0.22
9052.00	90.460	150.170	7671.25	1985.43	-2462.48	-978.56	1683586.59	419892.26	39°38'50.6891"N	80°37'25.3169"W	2649.79	201.672	0.11	0.06	0.09
9147.00	90.830	150.000	7670.18	2078.95	-2544.82	-931.18	1683633.97	419809.92	39°38'49.8812"N	80°37'24.6981"W	2709.84	200.098	0.43	0.39	-0.18
9242.00	89.810	150.010	7669.65	2172.44	-2627.10	-883.69	1683681.45	419727.65	39°38'49.0740"N	80°37'24.0779"W	2771.74	198.592	1.07	-1.07	0.01
9337.00	90.210	151.030	7669.63	2266.09	-2709.79	-836.94	1683728.20	419644.96	39°38'48.2626"N	80°37'23.4671"W	2836.10	197.164	1.15	0.42	1.07
9431.00	89.780	146.830	7669.64	2358.26	-2790.29	-788.44	1683776.70	419564.47	39°38'47.4731"N	80°37'22.8342"W	2899.54	195.778	4.49	-0.46	-4.47
9527.00	90.400	150.090	7669.49	2452.24	-2872.10	-738.23	1683826.91	419482.67	39°38'46.6708"N	80°37'22.1794"W	2965.46	194.415	3.46	0.65	3.40
9622.00	90.340	150.080	7668.87	2545.76	-2954.44	-690.85	1683874.28	419400.33	39°38'45.8629"N	80°37'21.5606"W	3034.14	193.161	0.06	-0.06	-0.01
9717.00	90.210	149.410	7668.42	2639.18	-3036.50	-642.99	1683922.14	419318.28	39°38'45.0579"N	80°37'20.9357"W	3103.83	191.956	0.72	-0.14	-0.71
9812.00	90.270	149.980	7668.02	2732.58	-3118.51	-595.05	1683970.08	419236.27	39°38'44.2533"N	80°37'20.3098"W	3174.78	190.803	0.60	0.06	0.60
9907.00	90.090	150.300	7667.72	2826.12	-3200.90	-547.75	1684017.37	419153.88	39°38'43.4450"N	80°37'19.6921"W	3247.43	189.711	0.39	-0.19	0.34
10003.00	90.090	149.880	7667.57	2920.63	-3284.12	-499.88	1684065.24	419070.67	39°38'42.6285"N	80°37'19.0669"W	3321.94	188.655	0.44	0.00	-0.44
10099.00	90.150	150.210	7667.37	3015.13	-3367.29	-451.95	1684113.17	418987.50	39°38'41.8125"N	80°37'18.4409"W	3397.49	187.644	0.35	0.06	0.34
10194.00	90.090	149.510	7667.17	3108.58	-3449.45	-404.25	1684160.87	418905.35	39°38'41.0065"N	80°37'17.8181"W	3473.05	186.684	0.74	-0.06	-0.74
10289.00	90.000	150.150	7667.10	3202.03	-3531.58	-356.50	1684208.61	418823.23	39°38'40.2007"N	80°37'17.1947"W	3549.53	185.764	0.68	-0.09	0.67
10384.00	90.060	149.860	7667.05	3295.53	-3613.85	-309.01	1684256.10	418740.96	39°38'39.3935"N	80°37'16.5745"W	3627.04	184.887	0.31	0.06	-0.31



# Actual Wellpath Report

Haggard 6H AWB Proj: 25460'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT PRODUCTION COMPANY	Well	Haggard 6H
Field	Wetzel	API	47-103-03528-0000
Facility	Haggard Pad	Wellbore	Haggard 6H AWB
Slot	Slot 06		

WELLPATH DATA (280 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]
10479.00	90.060	149.710	7666.95	3388.97	-3695.95	-261.20	1684303.90	418658.87	39°38'38.5881"N	80°37'15.9503"W	3705.17	184.043	0.16	0.00	-0.16
10574.00	89.900	149.860	7666.98	3482.40	-3778.04	-213.39	1684351.71	418576.78	39°38'37.7827"N	80°37'15.3261"W	3784.06	183.233	0.23	-0.17	0.16
10669.00	90.030	149.680	7667.04	3575.83	-3860.12	-165.56	1684399.54	418494.70	39°38'36.9775"N	80°37'14.7017"W	3863.67	182.456	0.23	0.14	-0.19
10764.00	90.090	149.640	7666.94	3669.23	-3942.11	-117.58	1684447.52	418412.72	39°38'36.1732"N	80°37'14.0752"W	3943.86	181.708	0.08	0.06	-0.04
10859.00	90.090	149.860	7666.79	3762.65	-4024.18	-69.72	1684495.38	418330.66	39°38'35.3681"N	80°37'13.4504"W	4024.78	180.993	0.23	0.00	0.23
10954.00	89.720	148.710	7666.95	3855.93	-4105.85	-21.20	1684543.89	418248.99	39°38'34.5669"N	80°37'12.8172"W	4105.90	180.296	1.27	-0.39	-1.21
11049.00	90.180	149.900	7667.03	3949.22	-4187.54	27.30	1684592.39	418167.31	39°38'33.7656"N	80°37'12.1843"W	4187.62	179.627	1.34	0.48	1.25
11145.00	90.550	149.350	7666.42	4043.59	-4270.36	75.84	1684640.92	418084.49	39°38'32.9532"N	80°37'11.5506"W	4271.03	178.983	0.69	0.39	-0.57
11240.00	90.150	148.860	7665.84	4136.81	-4351.87	124.62	1684689.70	418002.98	39°38'32.1536"N	80°37'10.9142"W	4353.66	178.360	0.67	-0.42	-0.52
11335.00	89.990	149.140	7665.72	4230.00	-4433.31	173.55	1684738.62	417921.56	39°38'31.3549"N	80°37'10.2758"W	4436.70	177.758	0.34	-0.17	0.29
11430.00	89.870	149.740	7665.84	4323.33	-4515.11	221.85	1684786.92	417839.76	39°38'30.5524"N	80°37'9.6454"W	4520.56	177.187	0.64	-0.13	0.63
11525.00	89.660	148.470	7666.23	4416.55	-4596.63	270.62	1684835.70	417758.24	39°38'29.7528"N	80°37'9.0090"W	4604.59	176.631	1.35	-0.22	-1.34
11620.00	90.090	149.770	7666.43	4509.78	-4678.16	319.38	1684884.45	417676.72	39°38'28.9531"N	80°37'8.3728"W	4689.05	176.094	1.44	0.45	1.37
11715.00	89.440	149.990	7666.82	4603.24	-4760.33	367.05	1684932.12	417594.55	39°38'28.1469"N	80°37'7.7504"W	4774.46	175.591	0.72	-0.68	0.23
11810.00	89.440	149.540	7667.75	4696.66	-4842.40	414.89	1684979.95	417512.48	39°38'27.3417"N	80°37'7.1259"W	4860.14	175.103	0.47	0.00	-0.47
11905.00	90.270	149.630	7667.99	4790.03	-4924.33	462.98	1685028.04	417430.56	39°38'26.5381"N	80°37'6.4982"W	4946.04	174.629	0.88	0.87	0.09
12000.00	90.240	146.350	7667.57	4882.87	-5004.87	513.33	1685078.39	417350.02	39°38'25.7483"N	80°37'5.8418"W	5031.13	174.144	3.45	-0.03	-3.45
12096.00	90.240	151.050	7667.17	4976.92	-5086.88	563.19	1685128.25	417268.02	39°38'24.9440"N	80°37'5.1915"W	5117.96	173.682	4.90	0.00	4.90
12191.00	90.180	150.510	7666.82	5070.64	-5169.79	609.57	1685174.62	417185.12	39°38'24.1304"N	80°37'4.5855"W	5205.60	173.275	0.57	-0.06	-0.57
12286.00	89.040	150.180	7667.47	5164.23	-5252.34	656.57	1685221.62	417102.57	39°38'23.3203"N	80°37'3.9717"W	5293.22	172.875	1.25	-1.20	-0.35
12381.00	90.390	150.470	7667.94	5257.82	-5334.88	703.60	1685268.64	417020.04	39°38'22.5104"N	80°37'3.3574"W	5381.08	172.487	1.45	1.42	0.31
12476.00	90.090	150.030	7667.54	5351.39	-5417.36	750.74	1685315.78	416937.57	39°38'21.7012"N	80°37'2.7418"W	5469.13	172.110	0.56	-0.32	-0.46
12572.00	89.840	150.660	7667.60	5445.97	-5500.78	798.24	1685363.28	416854.15	39°38'20.8826"N	80°37'2.1214"W	5558.40	171.743	0.71	-0.26	0.66
12667.00	90.020	150.650	7667.72	5539.66	-5583.59	844.79	1685409.83	416771.34	39°38'20.0699"N	80°37'1.5132"W	5647.14	171.396	0.19	0.19	-0.01
12762.00	89.560	150.550	7668.06	5633.33	-5666.36	891.43	1685456.46	416688.58	39°38'19.2578"N	80°37'0.9040"W	5736.05	171.060	0.50	-0.48	-0.11
12857.00	89.620	150.260	7668.74	5726.94	-5748.96	938.34	1685503.38	416605.98	39°38'18.4472"N	80°37'0.2912"W	5825.03	170.730	0.31	0.06	-0.31
12953.00	89.530	150.820	7669.46	5821.57	-5832.54	985.56	1685550.59	416522.40	39°38'17.6270"N	80°36'59.6745"W	5915.23	170.409	0.59	-0.09	0.58
13048.00	89.990	152.680	7669.85	5915.54	-5916.22	1030.52	1685595.55	416438.73	39°38'16.8055"N	80°36'59.0866"W	6005.30	170.119	2.02	0.48	1.96
13143.00	89.810	150.720	7670.02	6009.49	-5999.87	1075.56	1685640.58	416355.09	39°38'15.9845"N	80°36'58.4977"W	6095.51	169.837	2.07	-0.19	-2.06
13238.00	90.700	150.590	7669.60	6103.17	-6082.67	1122.11	1685687.13	416272.29	39°38'15.1719"N	80°36'57.8895"W	6185.31	169.548	0.95	0.94	-0.14

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# Actual Wellpath Report

Haggard 6H AWB Proj: 25460'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Haggard 6H
Field	Wetzel	API	47-103-03528-0000
Facility	Haggard Pad	Wellbore	Haggard 6H AWB
Slot	Slot 06		

## WELLPATH DATA (280 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]
13332.00	89.840	150.660	7669.15	6195.86	-6164.59	1168.22	1685733.24	416190.38	39°38'14.3681"N	80°36'57.2872"W	6274.30	169.269	0.92	-0.91	0.07
13427.00	89.410	150.350	7669.78	6289.50	-6247.27	1214.99	1685780.01	416107.70	39°38'13.5567"N	80°36'56.6763"W	6364.32	168.994	0.56	-0.45	-0.33
13522.00	90.120	150.840	7670.17	6383.17	-6330.03	1261.63	1685826.65	416024.95	39°38'12.7445"N	80°36'56.0670"W	6454.53	168.728	0.91	0.75	0.52
13618.00	89.470	150.810	7670.51	6477.88	-6413.85	1308.43	1685873.44	415941.13	39°38'11.9219"N	80°36'55.4556"W	6545.95	168.470	0.68	-0.68	-0.03
13713.00	89.620	150.690	7671.26	6571.59	-6496.74	1354.85	1685919.86	415858.25	39°38'11.1085"N	80°36'54.8492"W	6636.50	168.220	0.20	0.16	-0.13
13808.00	89.130	150.310	7672.30	6665.23	-6579.41	1401.63	1685966.63	415775.58	39°38'10.2972"N	80°36'54.2382"W	6727.05	167.974	0.65	-0.52	-0.40
13902.00	89.410	150.520	7673.50	6757.85	-6661.15	1448.03	1686013.03	415693.84	39°38'9.4951"N	80°36'53.6322"W	6816.73	167.736	0.37	0.30	0.22
13997.00	89.900	150.880	7674.07	6851.55	-6744.00	1494.52	1686059.52	415611.01	39°38'8.6821"N	80°36'53.0248"W	6907.61	167.505	0.64	0.52	0.38
14092.00	90.730	155.140	7673.55	6945.78	-6828.63	1537.62	1686102.62	415526.38	39°38'7.8511"N	80°36'52.4605"W	6999.60	167.310	4.57	0.87	4.48
14187.00	89.990	151.280	7672.95	7040.05	-6913.41	1580.43	1686145.43	415441.60	39°38'7.0184"N	80°36'51.9000"W	7091.76	167.123	4.14	-0.78	-4.06
14282.00	90.300	148.790	7672.71	7133.55	-6995.71	1627.88	1686192.87	415359.31	39°38'6.2110"N	80°36'51.2805"W	7182.61	166.901	2.64	0.33	-2.62
14377.00	90.450	148.940	7672.09	7226.70	-7077.02	1677.00	1686241.99	415278.00	39°38'5.4134"N	80°36'50.6399"W	7273.00	166.669	0.22	0.16	0.16
14472.00	90.210	148.630	7671.54	7319.82	-7158.27	1726.23	1686291.22	415196.76	39°38'4.6166"N	80°36'49.9978"W	7363.47	166.442	0.41	-0.25	-0.33
14567.00	90.270	148.740	7671.14	7412.90	-7239.43	1775.61	1686340.59	415115.61	39°38'3.8206"N	80°36'49.3539"W	7454.00	166.219	0.13	0.06	0.12
14662.00	90.360	148.890	7670.62	7506.03	-7320.70	1824.80	1686389.78	415034.34	39°38'3.0234"N	80°36'48.7123"W	7544.70	166.003	0.18	0.09	0.16
14757.00	90.240	148.540	7670.12	7599.13	-7401.88	1874.13	1686439.11	414953.16	39°38'2.2272"N	80°36'48.0690"W	7635.46	165.792	0.39	-0.13	-0.37
14852.00	90.210	148.680	7669.75	7692.19	-7482.98	1923.61	1686488.58	414872.07	39°38'1.4318"N	80°36'47.4237"W	7726.27	165.583	0.15	-0.03	0.15
14947.00	90.020	148.790	7669.56	7785.29	-7564.18	1972.92	1686537.89	414790.87	39°38'0.6354"N	80°36'46.7808"W	7817.24	165.382	0.23	-0.20	0.12
15042.00	89.960	148.520	7669.58	7878.37	-7645.32	2022.33	1686587.30	414709.74	39°37'59.8396"N	80°36'46.1363"W	7908.27	165.184	0.29	-0.06	-0.28
15137.00	90.080	148.690	7669.54	7971.43	-7726.41	2071.82	1686636.79	414628.65	39°37'59.0443"N	80°36'45.4910"W	7999.36	164.989	0.22	0.13	0.18
15232.00	90.050	149.640	7669.43	8064.68	-7807.98	2120.52	1686685.48	414547.09	39°37'58.2442"N	80°36'44.8558"W	8090.80	164.806	1.00	-0.03	1.00
15326.00	90.420	149.980	7669.05	8157.13	-7889.23	2167.79	1686732.74	414465.84	39°37'57.4470"N	80°36'44.2388"W	8181.64	164.636	0.53	0.39	0.36
15421.00	90.330	149.640	7668.43	8250.57	-7971.34	2215.56	1686780.51	414383.74	39°37'56.6414"N	80°36'43.6153"W	8273.51	164.467	0.37	-0.09	-0.36
15517.00	90.300	149.780	7667.90	8344.97	-8054.23	2263.98	1686828.93	414300.85	39°37'55.8281"N	80°36'42.9834"W	8366.38	164.300	0.15	-0.03	0.15
15611.00	90.300	149.950	7667.41	8437.44	-8135.53	2311.17	1686876.12	414219.56	39°37'55.0305"N	80°36'42.3675"W	8457.44	164.141	0.18	0.00	0.18
15706.00	90.330	149.960	7666.88	8530.93	-8217.76	2358.73	1686923.68	414137.33	39°37'54.2237"N	80°36'41.7466"W	8549.57	163.985	0.03	0.03	0.01
15801.00	90.360	153.090	7666.31	8624.83	-8301.26	2404.02	1686968.96	414053.84	39°37'53.4041"N	80°36'41.1546"W	8642.35	163.849	3.29	0.03	3.29
15896.00	90.540	153.460	7665.57	8719.13	-8386.11	2446.74	1687011.68	413969.00	39°37'52.5708"N	80°36'40.5952"W	8735.75	163.735	0.43	0.19	0.39
15991.00	90.540	153.430	7664.67	8813.47	-8471.08	2489.21	1687054.15	413884.03	39°37'51.7362"N	80°36'40.0391"W	8829.23	163.625	0.03	0.00	-0.03
16086.00	90.450	153.090	7663.85	8907.77	-8555.92	2531.95	1687096.89	413799.20	39°37'50.9031"N	80°36'39.4794"W	8922.70	163.515	0.37	-0.09	-0.36



# Actual Wellpath Report

Haggard 6H AWB Proj: 25460'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Haggard 6H
Field	Wetzel	API	47-103-03528-0000
Facility	Haggard Pad	Wellbore	Haggard 6H AWB
Slot	Slot 06		

## WELLPATH DATA (280 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]
16181.00	90.670	153.390	7662.92	9002.06	-8640.74	2574.72	1687139.66	413714.38	39°37'50.0701"N	80°36'38.9194"W	9016.18	163.407	0.39	0.23	0.32
16276.00	90.420	153.230	7662.02	9096.37	-8725.61	2617.39	1687182.32	413629.51	39°37'49.2365"N	80°36'38.3607"W	9109.72	163.303	0.31	-0.26	-0.17
16370.00	90.020	157.200	7661.66	9190.00	-8810.94	2656.79	1687221.72	413544.19	39°37'48.3981"N	80°36'37.8437"W	9202.78	163.220	4.24	-0.43	4.22
16465.00	90.880	157.650	7660.91	9284.88	-8898.65	2693.26	1687258.18	413456.48	39°37'47.5357"N	80°36'37.3638"W	9297.29	163.161	1.02	0.91	0.47
16560.00	90.110	157.660	7660.09	9379.78	-8986.52	2729.37	1687294.30	413368.62	39°37'46.6718"N	80°36'36.8884"W	9391.86	163.105	0.81	-0.81	0.01
16655.00	89.990	156.910	7660.01	9474.66	-9074.15	2766.06	1687330.98	413281.00	39°37'45.8103"N	80°36'36.4057"W	9486.37	163.047	0.80	-0.13	-0.79
16750.00	89.900	157.400	7660.10	9569.52	-9161.69	2802.94	1687367.86	413193.46	39°37'44.9497"N	80°36'35.9206"W	9580.87	162.989	0.52	-0.09	0.52
16845.00	91.620	157.500	7658.84	9664.40	-9249.42	2839.37	1687404.28	413105.74	39°37'44.0872"N	80°36'35.4412"W	9675.42	162.935	1.81	1.81	0.11
16940.00	90.270	157.600	7657.27	9759.29	-9337.21	2875.64	1687440.55	413017.95	39°37'43.2240"N	80°36'34.9638"W	9769.99	162.882	1.42	-1.42	0.11
17035.00	89.840	157.160	7657.18	9854.17	-9424.90	2912.18	1687477.09	412930.27	39°37'42.3619"N	80°36'34.4830"W	9864.56	162.829	0.65	-0.45	-0.46
17130.00	89.840	157.570	7657.45	9949.05	-9512.58	2948.74	1687513.65	412842.59	39°37'41.4999"N	80°36'34.0020"W	9959.13	162.777	0.43	0.00	0.43
17225.00	89.620	156.140	7657.89	10043.89	-9599.93	2986.08	1687550.99	412755.25	39°37'40.6412"N	80°36'33.5110"W	10053.62	162.722	1.52	-0.23	-1.51
17319.00	89.840	157.220	7658.34	10137.71	-9686.25	3023.29	1687588.19	412668.93	39°37'39.7927"N	80°36'33.0219"W	10147.10	162.666	1.17	0.23	1.15
17414.00	90.730	156.830	7657.86	10232.56	-9773.71	3060.37	1687625.27	412581.48	39°37'38.9329"N	80°36'32.5342"W	10241.65	162.613	1.02	0.94	-0.41
17509.00	90.670	157.010	7656.70	10327.40	-9861.10	3097.61	1687662.51	412494.09	39°37'38.0738"N	80°36'32.0445"W	10336.17	162.561	0.20	-0.06	0.19
17604.00	90.880	157.240	7655.42	10422.25	-9948.62	3134.53	1687699.43	412406.58	39°37'37.2134"N	80°36'31.5589"W	10430.74	162.512	0.33	0.22	0.24
17700.00	90.980	157.440	7653.86	10518.12	-10037.20	3171.51	1687736.41	412318.00	39°37'36.3425"N	80°36'31.0723"W	10526.34	162.465	0.23	0.10	0.21
17795.00	90.910	157.450	7652.29	10613.00	-10124.92	3207.95	1687772.84	412230.29	39°37'35.4801"N	80°36'30.5929"W	10620.97	162.420	0.07	-0.07	0.01
17890.00	90.390	157.320	7651.22	10707.88	-10212.61	3244.48	1687809.37	412142.60	39°37'34.6180"N	80°36'30.1123"W	10715.60	162.375	0.56	-0.55	-0.14
17985.00	90.480	157.210	7650.49	10802.75	-10300.23	3281.19	1687846.08	412054.99	39°37'33.7566"N	80°36'29.6293"W	10810.22	162.330	0.15	0.09	-0.12
18080.00	90.480	156.670	7649.70	10897.59	-10387.63	3318.40	1687883.29	411967.59	39°37'32.8973"N	80°36'29.1400"W	10904.80	162.284	0.57	0.00	-0.57
18175.00	90.420	156.880	7648.95	10992.42	-10474.93	3355.86	1687920.74	411880.30	39°37'32.0392"N	80°36'28.6476"W	10999.36	162.236	0.23	-0.06	0.22
18270.00	90.360	157.320	7648.31	11087.28	-10562.44	3392.83	1687957.71	411792.79	39°37'31.1789"N	80°36'28.1614"W	11093.98	162.192	0.47	-0.06	0.46
18364.00	90.240	156.930	7647.81	11181.14	-10649.05	3429.37	1687994.25	411706.19	39°37'30.3275"N	80°36'27.6808"W	11187.62	162.150	0.43	-0.13	-0.41
18459.00	90.390	157.310	7647.29	11276.00	-10736.57	3466.30	1688031.18	411618.67	39°37'29.4670"N	80°36'27.1950"W	11282.25	162.107	0.43	0.16	0.40
18554.00	90.420	157.410	7646.62	11370.88	-10824.25	3502.87	1688067.75	411531.00	39°37'28.6050"N	80°36'26.7139"W	11376.93	162.068	0.11	0.03	0.11
18649.00	90.300	156.770	7646.02	11465.74	-10911.75	3539.85	1688104.72	411443.50	39°37'27.7448"N	80°36'26.2276"W	11471.57	162.027	0.69	-0.13	-0.67
18744.00	90.330	157.330	7645.50	11560.59	-10999.23	3576.89	1688141.76	411356.03	39°37'26.8848"N	80°36'25.7405"W	11566.21	161.986	0.59	0.03	0.59
18839.00	89.990	157.310	7645.24	11655.44	-11086.66	3614.06	1688178.93	411268.61	39°37'26.0253"N	80°36'25.2518"W	11660.85	161.945	0.84	-0.36	-0.76
18934.00	90.510	157.300	7644.88	11750.26	-11173.91	3651.63	1688216.49	411181.36	39°37'25.1676"N	80°36'24.7580"W	11755.45	161.903	0.58	0.55	0.20

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# Actual Wellpath Report

Haggard 6H AWB Proj: 25460'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Haggard 6H
Field	Wetzel	API	47-103-03528-0000
Facility	Haggard Pad	Wellbore	Haggard 6H AWB
Slot	Slot 06		

## WELLPATH DATA (280 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]
19029.00	90.510	157.570	7643.98	11845.13	-11261.48	3688.46	1688253.33	411093.80	39°37'24.3068"N	80°36'24.2735"W	11850.13	161.865	0.81	0.00	0.81
19124.00	90.610	157.380	7643.05	11940.02	-11349.23	3724.85	1688289.72	411006.06	39°37'23.4440"N	80°36'23.7946"W	11944.85	161.830	0.23	0.11	-0.20
19218.00	90.550	157.160	7642.10	12033.89	-11435.92	3761.17	1688326.03	410919.37	39°37'22.5917"N	80°36'23.3169"W	12038.55	161.794	0.24	-0.06	-0.23
19313.00	90.610	157.420	7641.13	12128.76	-11523.55	3797.85	1688362.70	410831.74	39°37'21.7302"N	80°36'22.8345"W	12133.25	161.759	0.28	0.06	0.27
19408.00	90.150	157.440	7640.50	12223.65	-11611.27	3834.31	1688399.16	410744.03	39°37'20.8677"N	80°36'22.3548"W	12227.98	161.726	0.48	-0.48	0.02
19503.00	90.050	157.040	7640.34	12318.52	-11698.87	3871.06	1688435.91	410656.43	39°37'20.0064"N	80°36'21.8713"W	12322.69	161.691	0.43	-0.11	-0.42
19598.00	90.210	156.980	7640.12	12413.37	-11786.33	3908.16	1688473.02	410568.98	39°37'19.1467"N	80°36'21.3835"W	12417.38	161.655	0.18	0.17	-0.06
19692.00	90.580	157.080	7639.47	12507.23	-11872.87	3944.85	1688509.70	410482.44	39°37'18.2959"N	80°36'20.9011"W	12511.07	161.621	0.41	0.39	0.11
19787.00	89.900	157.290	7639.08	12602.09	-11960.44	3981.68	1688546.53	410394.88	39°37'17.4350"N	80°36'20.4166"W	12605.79	161.587	0.75	-0.72	0.22
19882.00	89.870	157.130	7639.27	12696.96	-12048.02	4018.48	1688583.33	410307.30	39°37'16.5739"N	80°36'19.9327"W	12700.51	161.554	0.17	-0.03	-0.17
19977.00	89.840	157.270	7639.51	12791.83	-12135.60	4055.30	1688620.14	410219.73	39°37'15.7130"N	80°36'19.4485"W	12795.24	161.522	0.15	-0.03	0.15
20072.00	90.210	157.210	7639.47	12886.71	-12223.20	4092.05	1688656.89	410132.14	39°37'14.8517"N	80°36'18.9651"W	12889.98	161.491	0.39	0.39	-0.06
20167.00	90.330	156.790	7639.02	12981.56	-12310.65	4129.17	1688694.00	410044.69	39°37'13.9920"N	80°36'18.4770"W	12984.69	161.458	0.46	0.13	-0.44
20263.00	90.330	157.320	7638.47	13077.41	-12399.05	4166.59	1688731.43	409956.30	39°37'13.1229"N	80°36'17.9849"W	13080.40	161.426	0.55	0.00	0.55
20358.00	90.180	157.050	7638.04	13172.28	-12486.62	4203.43	1688768.26	409868.74	39°37'12.2621"N	80°36'17.5005"W	13175.14	161.395	0.33	-0.16	-0.28
20452.00	90.240	157.290	7637.70	13266.15	-12573.25	4239.90	1688804.73	409782.11	39°37'11.4103"N	80°36'17.0208"W	13268.89	161.365	0.26	0.06	0.26
20547.00	90.550	157.340	7637.04	13361.02	-12660.90	4276.54	1688841.37	409694.46	39°37'10.5486"N	80°36'16.5389"W	13363.65	161.336	0.33	0.33	0.05
20642.00	90.480	157.270	7636.19	13455.90	-12748.54	4313.19	1688878.02	409606.83	39°37'9.6870"N	80°36'16.0568"W	13458.41	161.308	0.10	-0.07	-0.07
20737.00	90.510	157.680	7635.37	13550.79	-12836.29	4349.58	1688914.40	409519.08	39°37'8.8242"N	80°36'15.5780"W	13553.20	161.281	0.43	0.03	0.43
20832.00	90.420	157.500	7634.60	13645.69	-12924.11	4385.80	1688950.62	409431.27	39°37'7.9607"N	80°36'15.1015"W	13648.00	161.255	0.21	-0.09	-0.19
20927.00	90.760	156.410	7633.62	13740.53	-13011.53	4422.98	1688987.80	409343.86	39°37'7.1014"N	80°36'14.6126"W	13742.73	161.226	1.20	0.36	-1.15
21022.00	90.820	157.440	7632.31	13835.36	-13098.92	4460.21	1689025.03	409256.47	39°37'6.2423"N	80°36'14.1232"W	13837.45	161.196	1.09	0.06	1.08
21118.00	90.820	157.300	7630.94	13931.23	-13187.52	4497.15	1689061.96	409167.88	39°37'5.3712"N	80°36'13.6374"W	13933.23	161.170	0.15	0.00	-0.15
21213.00	90.880	157.560	7629.53	14026.11	-13275.23	4533.60	1689098.42	409080.17	39°37'4.5088"N	80°36'13.1577"W	14028.02	161.145	0.28	0.06	0.27
21307.00	91.160	157.420	7627.85	14119.99	-13362.06	4569.59	1689134.40	408993.35	39°37'3.6551"N	80°36'12.6844"W	14121.81	161.120	0.33	0.30	-0.15
21403.00	91.100	157.330	7625.96	14215.86	-13450.65	4606.51	1689171.32	408904.76	39°37'2.7841"N	80°36'12.1987"W	14217.59	161.095	0.11	-0.06	-0.09
21498.00	90.480	157.440	7624.65	14310.73	-13538.34	4643.04	1689207.84	408817.08	39°37'1.9219"N	80°36'11.7182"W	14312.38	161.070	0.66	-0.65	0.12
21593.00	90.570	157.660	7623.78	14405.63	-13626.13	4679.31	1689244.12	408729.29	39°37'1.0587"N	80°36'11.2409"W	14407.20	161.047	0.25	0.09	0.23
21688.00	90.600	157.190	7622.81	14500.51	-13713.85	4715.78	1689280.58	408641.58	39°37'0.1963"N	80°36'10.7612"W	14502.01	161.023	0.50	0.03	-0.49
21784.00	90.730	157.100	7621.69	14596.37	-13802.31	4753.07	1689317.87	408553.13	39°36'59.3266"N	80°36'10.2709"W	14597.78	160.998	0.16	0.14	-0.09



# Actual Wellpath Report

Haggard 6H AWB Proj: 25460'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Haggard 6H
Field	Wetzel	API	47-103-03528-0000
Facility	Haggard Pad	Wellbore	Haggard 6H AWB
Slot	Slot 06		

## WELLPATH DATA (280 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]
21878.00	90.700	157.510	7620.52	14690.24	-13889.02	4789.33	1689354.13	408466.42	39°36'58.4741"N	80°36'9.7940"W	14691.58	160.974	0.44	-0.03	0.44
21973.00	90.660	157.330	7619.39	14785.12	-13976.73	4825.81	1689390.60	408378.71	39°36'57.6117"N	80°36'9.3142"W	14786.39	160.952	0.19	-0.04	-0.19
22069.00	90.630	157.160	7618.31	14880.99	-14065.26	4862.94	1689427.73	408290.19	39°36'56.7414"N	80°36'8.8259"W	14882.19	160.928	0.18	-0.03	-0.18
22164.00	90.660	157.370	7617.24	14975.86	-14152.87	4899.65	1689464.44	408202.59	39°36'55.8800"N	80°36'8.3431"W	14976.99	160.904	0.22	0.03	0.22
22259.00	90.660	157.480	7616.15	15070.74	-14240.58	4936.11	1689500.90	408114.88	39°36'55.0176"N	80°36'7.8634"W	15071.81	160.883	0.12	0.00	0.12
22354.00	90.660	157.170	7615.06	15165.61	-14328.23	4972.74	1689537.52	408027.23	39°36'54.1558"N	80°36'7.3817"W	15166.62	160.860	0.33	0.00	-0.33
22449.00	90.660	157.070	7613.96	15260.47	-14415.75	5009.67	1689574.45	407939.72	39°36'53.2954"N	80°36'6.8961"W	15261.41	160.837	0.11	0.00	-0.11
22544.00	90.170	157.370	7613.27	15355.34	-14503.34	5046.45	1689611.23	407852.14	39°36'52.4343"N	80°36'6.4124"W	15356.22	160.815	0.60	-0.52	0.32
22639.00	90.050	157.060	7613.09	15450.21	-14590.93	5083.24	1689648.02	407764.55	39°36'51.5732"N	80°36'5.9286"W	15451.04	160.792	0.35	-0.13	-0.33
22734.00	90.230	157.300	7612.86	15545.08	-14678.49	5120.09	1689684.86	407677.00	39°36'50.7123"N	80°36'5.4442"W	15545.85	160.770	0.32	0.19	0.25
22830.00	90.450	157.310	7612.29	15640.95	-14767.06	5157.13	1689721.90	407588.44	39°36'49.8415"N	80°36'4.9571"W	15641.67	160.749	0.23	0.23	0.01
22924.00	90.910	157.240	7611.17	15734.82	-14853.75	5193.44	1689758.21	407501.74	39°36'48.9892"N	80°36'4.4796"W	15735.49	160.728	0.49	0.49	-0.07
23019.00	90.820	157.270	7609.74	15829.69	-14941.36	5230.16	1689794.93	407414.15	39°36'48.1279"N	80°36'3.9966"W	15830.31	160.708	0.10	-0.09	0.03
23114.00	90.480	157.140	7608.66	15924.55	-15028.93	5266.97	1689831.73	407326.58	39°36'47.2669"N	80°36'3.5127"W	15925.13	160.687	0.38	-0.36	-0.14
23209.00	90.350	157.390	7607.97	16019.42	-15116.55	5303.68	1689868.44	407238.97	39°36'46.4055"N	80°36'3.0299"W	16019.96	160.666	0.30	-0.14	0.26
23304.00	90.350	157.420	7607.39	16114.31	-15204.25	5340.18	1689904.94	407151.27	39°36'45.5432"N	80°36'2.5498"W	16114.80	160.647	0.03	0.00	0.03
23399.00	90.480	157.480	7606.71	16209.20	-15291.99	5376.61	1689941.37	407063.54	39°36'44.6805"N	80°36'2.0706"W	16209.55	160.629	0.15	0.14	0.06
23494.00	90.320	157.640	7606.04	16304.09	-15379.79	5412.87	1689977.63	406975.74	39°36'43.8172"N	80°36'1.5936"W	16304.51	160.611	0.24	-0.17	0.17
23589.00	90.390	157.210	7605.45	16398.98	-15467.51	5449.34	1690014.10	406888.03	39°36'42.9548"N	80°36'1.1139"W	16399.37	160.592	0.46	0.07	-0.45
23685.00	90.020	157.410	7605.11	16494.86	-15556.08	5486.37	1690051.13	406799.46	39°36'42.0840"N	80°36'0.6269"W	16495.21	160.573	0.44	-0.39	0.21
23780.00	90.170	157.520	7604.95	16589.75	-15643.83	5522.78	1690087.53	406711.72	39°36'41.2212"N	80°36'0.1480"W	16590.07	160.555	0.20	0.16	0.12
23876.00	90.020	157.440	7604.79	16685.64	-15732.51	5559.55	1690124.30	406623.05	39°36'40.3493"N	80°35'59.6644"W	16685.93	160.538	0.18	-0.16	-0.08
23971.00	90.110	157.680	7604.69	16780.54	-15820.31	5595.81	1690160.56	406535.25	39°36'39.4859"N	80°35'59.1874"W	16780.80	160.521	0.27	0.09	0.25
24066.00	89.770	157.450	7604.78	16875.44	-15908.12	5632.07	1690196.81	406447.44	39°36'38.6226"N	80°35'58.7104"W	16875.68	160.504	0.43	-0.36	-0.24
24161.00	89.800	157.430	7605.14	16970.33	-15995.85	5668.51	1690233.26	406359.72	39°36'37.7600"N	80°35'58.2311"W	16970.54	160.487	0.04	0.03	-0.02
24256.00	89.740	157.530	7605.52	17065.22	-16083.61	5704.90	1690269.64	406271.97	39°36'36.8972"N	80°35'57.7525"W	17065.41	160.470	0.12	-0.06	0.11
24351.00	89.620	157.360	7606.05	17160.11	-16171.34	5741.34	1690306.08	406184.24	39°36'36.0345"N	80°35'57.2732"W	17160.28	160.454	0.22	-0.13	-0.18
24446.00	90.020	156.070	7606.35	17254.93	-16258.60	5778.89	1690343.63	406096.99	39°36'35.1768"N	80°35'56.7798"W	17255.07	160.433	1.42	0.42	-1.36
24541.00	90.290	156.620	7606.09	17349.72	-16345.62	5817.01	1690381.74	406009.97	39°36'34.3214"N	80°35'56.2793"W	17349.83	160.411	0.64	0.28	0.58
24636.00	90.290	156.680	7605.69	17444.53	-16432.83	5854.66	1690419.39	405922.76	39°36'33.4640"N	80°35'55.7846"W	17444.63	160.390	0.11	-0.09	0.06

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# Actual Wellpath Report

Haggard 6H AWB Proj: 25460'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT PRODUCTION COMPANY	Well	Haggard 6H
Field	Wetzel	API	47-103-03528-0000
Facility	Haggard Pad	Wellbore	Haggard 6H AWB
Slot	Slot 06		

WELLPATH DATA (280 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]
24731.00	90.110	156.020	7605.43	17539.32	-16519.85	5892.77	1690457.50	405835.75	39°36'32.6087"N	80°35'55.2841"W	17539.39	160.368	0.70	-0.09	-0.69
24826.00	90.260	157.120	7605.12	17634.12	-16607.02	5930.54	1690495.27	405748.59	39°36'31.7518"N	80°35'54.7879"W	17634.18	160.348	1.17	0.16	1.16
24921.00	90.170	156.520	7604.77	17728.96	-16694.35	5967.93	1690532.66	405661.26	39°36'30.8933"N	80°35'54.2965"W	17729.00	160.329	0.64	-0.09	-0.63
25016.00	90.940	157.390	7603.85	17823.80	-16781.76	6005.12	1690569.84	405573.85	39°36'30.0340"N	80°35'53.8078"W	17823.83	160.311	1.22	0.81	0.92
25111.00	91.620	160.400	7601.73	17918.74	-16870.36	6039.32	1690604.04	405485.26	39°36'29.1626"N	80°35'53.3571"W	17918.77	160.303	3.25	0.72	3.17
25206.00	91.280	155.950	7599.32	18013.63	-16958.50	6074.61	1690639.33	405397.13	39°36'28.2958"N	80°35'52.8924"W	18013.65	160.292	4.70	-0.36	-4.68
25301.00	91.310	156.530	7597.17	18108.38	-17045.42	6112.88	1690677.60	405310.21	39°36'27.4414"N	80°35'52.3899"W	18108.39	160.271	0.61	0.03	0.61
25396.00	91.340	156.370	7594.98	18203.15	-17132.49	6150.83	1690715.54	405223.15	39°36'26.5855"N	80°35'51.8916"W	18203.15	160.251	0.17	0.03	-0.17
25435.00	91.370	156.410	7594.05	18242.05	-17168.21	6166.44	1690731.16	405187.43	39°36'26.2344"N	80°35'51.6865"W	18242.05	160.243	0.13	0.08	0.10
25460.00‡	91.370	156.410	7593.46	18266.99	-17191.12	6176.44	1690741.16	405164.52	39°36'26.0092"N	80°35'51.5551"W	18266.99	160.238	0.00	0.00	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Haggard 6H AWB Ref Wellpath: Haggard 6H AWB Proj: 25460'									
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	1487.00	1459.00	28.00	1486.99	0.00	0.00	-0.74	5.03
13.375in Casing Surface	28.00	1487.00	1459.00	28.00	1486.99	0.00	0.00	-0.74	5.03
12.25in Open Hole	1487.00	2924.00	1437.00	1486.99	2923.97	-0.74	5.03	-4.93	9.78
9.625in Casing Intermediate	28.00	2924.00	2896.00	28.00	2923.97	0.00	0.00	-4.93	9.78
8.75in Open Hole	2924.00	7596.00	4672.00	2923.97	7128.80	-4.93	9.78	-1335.46	-1340.62
8.5in Open Hole	7596.00	25460.00	17864.00	7128.80	7593.46	-1335.46	-1340.62	-17191.12	6176.44
5.5in Casing Production	28.00	25460.00	25432.00	28.00	7593.46	0.00	0.00	-17191.12	6176.44

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# Actual Wellpath Report

Haggard 6H AWB Proj: 25460'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT PRODUCTION COMPANY	Well	Haggard 6H
Field	Wetzel	API	47-103-03528-0000
Facility	Haggard Pad	Wellbore	Haggard 6H AWB
Slot	Slot 06		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Haggard 6H LP Rev-1	7665.23	-2034.09	-1226.26	1683338.91	420320.62	39°38'54.8919"N	80°37'28.5517"W	point
Haggard 6H BHL Rev-1	7739.20	-17187.58	6189.48	1690754.20	405168.06	39°36'26.0457"N	80°35'51.3891"W	point

WELLPATH COMPOSITION - Ref Wellbore: Haggard 6H AWB					Ref Wellpath: Haggard 6H AWB Proj: 25460'	
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 6H AWB	10/28/2023	
1515.00	2893.00	Gyrodata 2015 - CT+WIR+DPIPE	02_Gyrodata Cont. Gyro <12-1/4">(1515')(1615'-2893')	Haggard 6H AWB	9/20/2023	
2893.00	7515.00	OWSG MWD rev2 + HRGM	03_SDI MWD <8-3/4">(2893')(2976'-7515')	Haggard 6H AWB	9/20/2023	
7515.00	25460.00	OWSG MWD rev2 + IFR1 + Sag + Multi-Station Correction	04_BH Lucida+SQC IFR1+SAG_FDIR<8-1/2">(7515')(7628'-25435')	Haggard 6H AWB	10/28/2023	

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# Actual Wellpath Report

Haggard 6H AWB Proj: 25460'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT PRODUCTION COMPANY	Well	Haggard 6H
Field	Wetzel	API	47-103-03528-0000
Facility	Haggard Pad	Wellbore	Haggard 6H AWB
Slot	Slot 06		

## COMMENTS

### Wellpath general comments

API: 47-103-03528-0000

BH Job #: 111974028

Rig: Patterson 292

Duration: 10/31/2023-11/3/2023

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

02\_Gyrodata Cont. Gyro <12-1/4">(1515')(1615'-2893')

03\_SD1 MWD <8-3/4">(2893')(2976'-7515')

04\_BH Lucida+SQC IFR1+SAG\_FDIR<8-1/2">(7515')(7628'-25435')

Landing Pt. @ 8578' MD

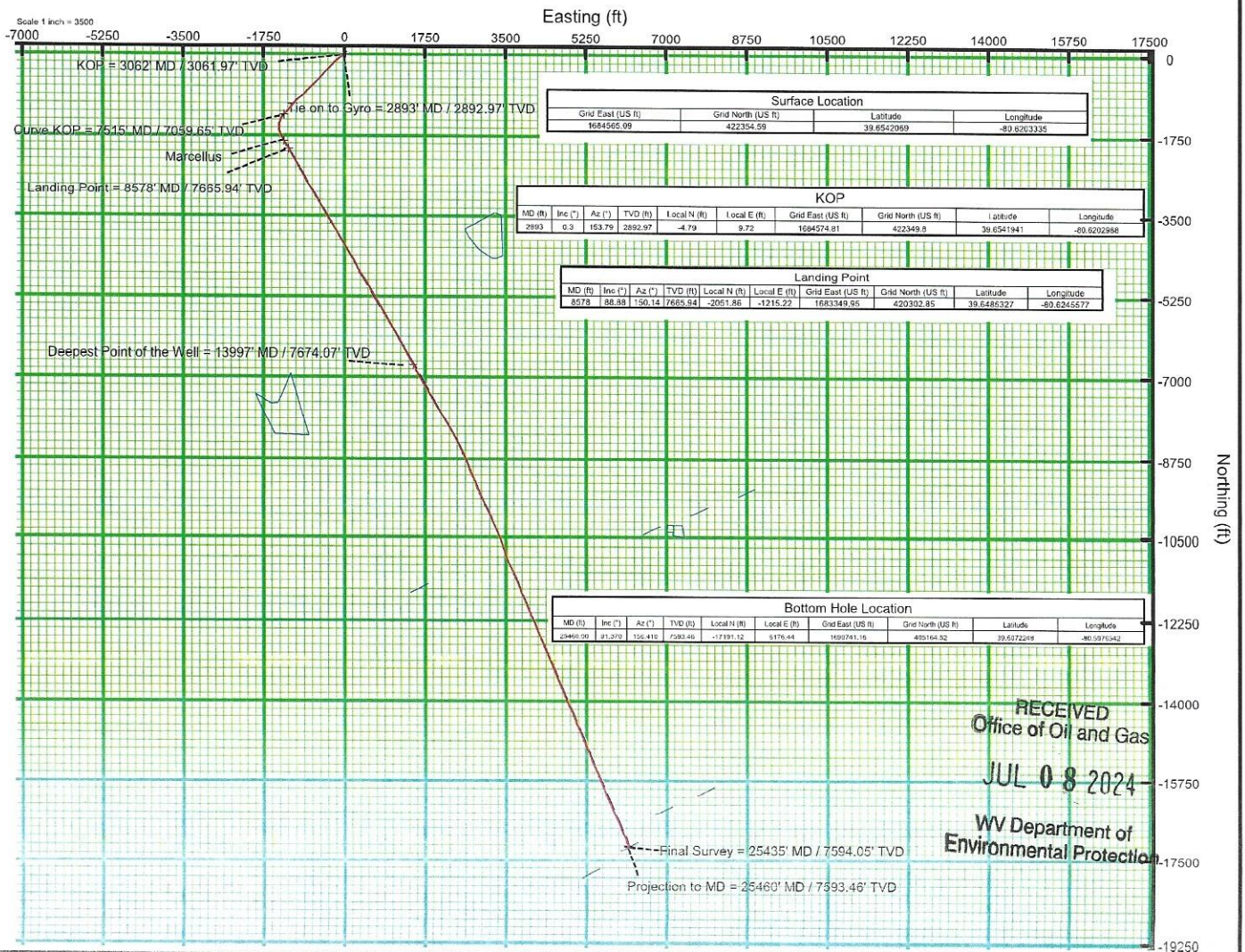
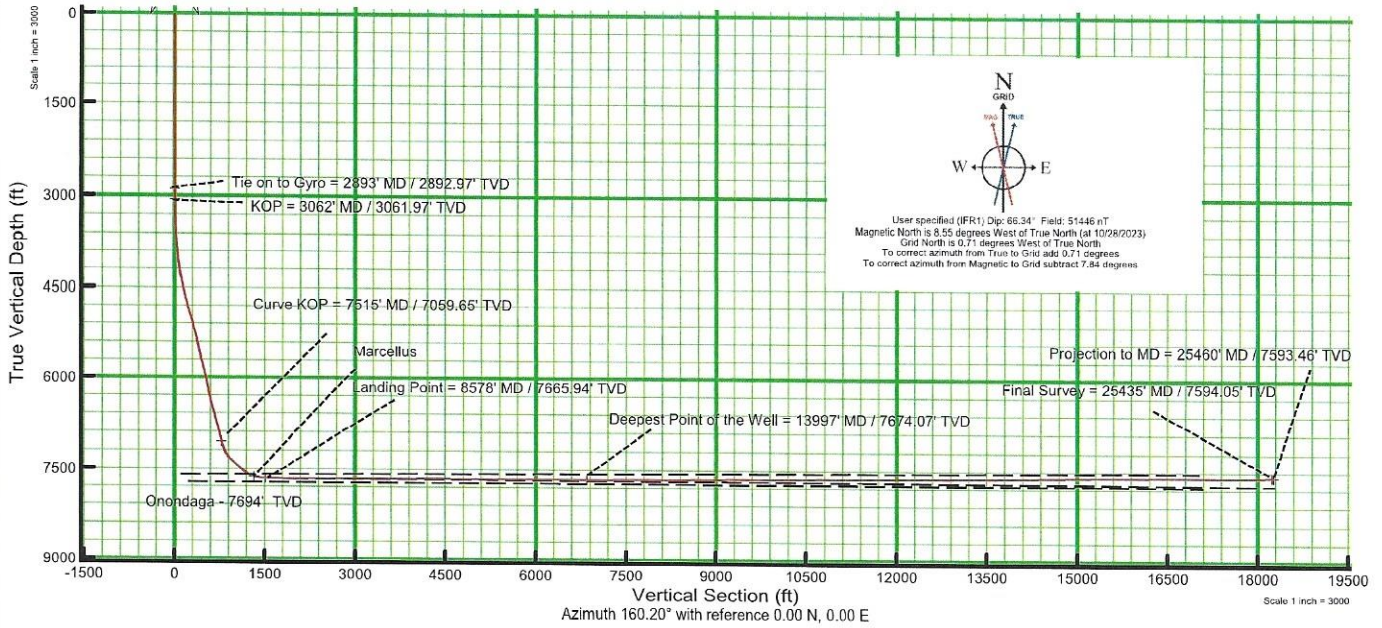
Final Survey @ 25435' MD

Projected MD at TD: 25460'

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



08/16/2024