



# Actual Wellpath Report

Haggard 8H AWB Proj: 25005'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Haggard 8H
Field	Wetzel	API	47-103-03430-0000
Facility	Haggard Pad	Wellbore	Haggard 8H AWB
Slot	Slot 08		

## 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	11/10/2023 at 10:09:13 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	34.25	29.18	1684574.81	422366.00	39°39'15.2589"N	80°37'13.0783"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 08)	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	157.10°

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## WELLPATH DATA (281 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	291.440	0.00	0.00	0.00	0.00	1684574.81	422366.00	39°39'15.2589"N	80°37'13.0783"W	0.00	0.000	0.00	0.00	0.00
28.00	0.000	291.440	28.00	0.00	0.00	0.00	1684574.81	422366.00	39°39'15.2589"N	80°37'13.0783"W	0.00	0.000	0.00	0.00	0.00
115.00	0.170	291.440	115.00	-0.09	0.05	-0.12	1684574.69	422366.05	39°39'15.2593"N	80°37'13.0798"W	0.13	291.440	0.20	0.20	0.00
215.00	0.180	286.160	215.00	-0.29	0.15	-0.41	1684574.40	422366.15	39°39'15.2603"N	80°37'13.0835"W	0.43	289.532	0.02	0.01	-5.28
315.00	0.150	292.540	315.00	-0.49	0.24	-0.68	1684574.13	422366.24	39°39'15.2612"N	80°37'13.0870"W	0.72	289.344	0.04	-0.03	6.38
415.00	0.150	294.480	415.00	-0.67	0.34	-0.92	1684573.89	422366.34	39°39'15.2622"N	80°37'13.0901"W	0.98	290.452	0.01	0.00	1.94
515.00	0.140	287.020	515.00	-0.85	0.43	-1.16	1684573.65	422366.43	39°39'15.2630"N	80°37'13.0931"W	1.24	290.539	0.02	-0.01	-7.46
615.00	0.070	53.430	615.00	-0.94	0.51	-1.22	1684573.59	422366.51	39°39'15.2637"N	80°37'13.0940"W	1.32	292.434	0.19	-0.07	126.41
715.00	0.090	78.820	715.00	-0.94	0.56	-1.10	1684573.71	422366.56	39°39'15.2643"N	80°37'13.0924"W	1.23	296.896	0.04	0.02	25.39
815.00	0.230	126.870	815.00	-0.75	0.45	-0.86	1684573.95	422366.45	39°39'15.2632"N	80°37'13.0894"W	0.97	297.702	0.18	0.14	48.05
915.00	0.250	132.030	915.00	-0.38	0.19	-0.54	1684574.27	422366.19	39°39'15.2606"N	80°37'13.0852"W	0.57	289.018	0.03	0.02	5.16
1015.00	0.260	131.270	1015.00	0.02	-0.11	-0.21	1684574.60	422365.89	39°39'15.2578"N	80°37'13.0809"W	0.23	241.819	0.01	0.01	-0.76
1115.00	0.100	84.030	1115.00	0.25	-0.25	0.05	1684574.86	422365.75	39°39'15.2564"N	80°37'13.0776"W	0.26	168.363	0.21	-0.16	-47.24
1215.00	0.110	72.260	1215.00	0.29	-0.21	0.23	1684575.04	422365.79	39°39'15.2568"N	80°37'13.0753"W	0.31	132.746	0.02	0.01	-11.77
1315.00	0.180	82.240	1314.99	0.33	-0.16	0.48	1684575.29	422365.84	39°39'15.2573"N	80°37'13.0722"W	0.50	108.761	0.07	0.07	9.98
1415.00	0.270	94.500	1414.99	0.48	-0.16	0.87	1684575.68	422365.84	39°39'15.2574"N	80°37'13.0672"W	0.88	100.404	0.10	0.09	12.26
1515.00	0.340	104.490	1514.99	0.77	-0.25	1.39	1684576.20	422365.75	39°39'15.2566"N	80°37'13.0605"W	1.41	100.279	0.09	0.07	9.99
1615.00	0.310	104.080	1614.99	1.12	-0.39	1.94	1684576.75	422365.61	39°39'15.2552"N	80°37'13.0534"W	1.98	101.429	0.03	-0.03	-0.41
1715.00	0.340	118.690	1714.99	1.51	-0.60	2.46	1684577.27	422365.40	39°39'15.2533"N	80°37'13.0467"W	2.53	103.703	0.09	0.03	14.61
1815.00	0.340	120.590	1814.99	1.98	-0.89	2.98	1684577.79	422365.11	39°39'15.2504"N	80°37'13.0401"W	3.11	106.707	0.01	0.00	1.90
1915.00	0.360	118.150	1914.99	2.46	-1.19	3.51	1684578.32	422364.81	39°39'15.2475"N	80°37'13.0332"W	3.71	108.771	0.02	0.02	-2.44
2015.00	0.370	116.340	2014.98	2.95	-1.48	4.08	1684578.89	422364.52	39°39'15.2447"N	80°37'13.0259"W	4.34	110.009	0.02	0.01	-1.81
2115.00	0.400	117.280	2114.98	3.47	-1.79	4.68	1684579.49	422364.21	39°39'15.2418"N	80°37'13.0182"W	5.01	110.922	0.03	0.03	0.94
2215.00	0.420	122.050	2214.98	4.03	-2.14	5.30	1684580.11	422363.86	39°39'15.2384"N	80°37'13.0102"W	5.71	112.019	0.04	0.02	4.77
2315.00	0.520	126.960	2314.98	4.73	-2.61	5.97	1684580.78	422363.39	39°39'15.2338"N	80°37'13.0015"W	6.52	113.610	0.11	0.10	4.91
2415.00	0.490	130.610	2414.97	5.50	-3.16	6.66	1684581.47	422362.84	39°39'15.2285"N	80°37'12.9927"W	7.37	115.396	0.04	-0.03	3.65
2515.00	0.450	126.710	2514.97	6.22	-3.67	7.30	1684582.11	422362.33	39°39'15.2235"N	80°37'12.9844"W	8.17	116.724	0.05	-0.04	-3.90
2615.00	0.330	125.010	2614.97	6.81	-4.07	7.85	1684582.66	422361.93	39°39'15.2196"N	80°37'12.9773"W	8.84	117.434	0.12	-0.12	-1.70
2715.00	0.330	126.210	2714.96	7.30	-4.41	8.32	1684583.13	422361.59	39°39'15.2163"N	80°37'12.9713"W	9.41	117.933	0.01	0.00	1.20
2815.00	0.340	114.520	2814.96	7.76	-4.70	8.82	1684583.63	422361.30	39°39'15.2135"N	80°37'12.9648"W	9.99	118.069	0.07	0.01	-11.69



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Facility	Haggard Pad	Wellbore	Haggard 8H AWB
Slot	Slot 08		

## WELLPATH DATA (281 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	0.470	119.430	2914.96	8.31	-5.03	9.45	1684584.25	422360.97	39°39'15.2104"N	80°37'12.9567"W	10.70	118.023	0.13	0.13	4.91
2936.00	0.500	107.530	2935.96	8.43	-5.10	9.61	1684584.42	422360.90	39°39'15.2097"N	80°37'12.9547"W	10.88	117.946	0.50	0.14	-56.67
2968.00	0.470	107.490	2967.96	8.61	-5.18	9.87	1684584.68	422360.82	39°39'15.2089"N	80°37'12.9513"W	11.14	117.694	0.09	-0.09	-0.13
3011.00	0.540	113.730	3010.96	8.87	-5.31	10.22	1684585.03	422360.69	39°39'15.2076"N	80°37'12.9468"W	11.52	117.469	0.21	0.16	14.51
3054.00	0.460	96.910	3053.96	9.10	-5.42	10.58	1684585.39	422360.59	39°39'15.2067"N	80°37'12.9422"W	11.88	117.113	0.39	-0.19	-39.12
3097.00	0.390	108.570	3096.95	9.29	-5.48	10.89	1684585.70	422360.52	39°39'15.2060"N	80°37'12.9382"W	12.19	116.730	0.26	-0.16	27.12
3141.00	0.470	104.090	3140.95	9.49	-5.57	11.20	1684586.01	422360.43	39°39'15.2052"N	80°37'12.9342"W	12.51	116.452	0.20	0.18	-10.18
3184.00	0.490	107.170	3183.95	9.72	-5.67	11.55	1684586.36	422360.33	39°39'15.2043"N	80°37'12.9297"W	12.87	116.152	0.08	0.05	7.16
3227.00	0.470	122.310	3226.95	9.98	-5.82	11.87	1684586.68	422360.18	39°39'15.2028"N	80°37'12.9255"W	13.22	116.110	0.30	-0.05	35.21
3270.00	0.540	205.740	3269.95	10.26	-6.10	11.94	1684586.75	422359.90	39°39'15.2001"N	80°37'12.9247"W	13.40	117.057	1.57	0.16	194.02
3313.00	1.700	237.950	3312.94	10.50	-6.62	11.31	1684586.12	422359.38	39°39'15.1949"N	80°37'12.9327"W	13.10	120.339	2.97	2.70	74.91
3357.00	2.990	240.410	3356.90	10.73	-7.53	9.76	1684584.57	422358.47	39°39'15.1857"N	80°37'12.9524"W	12.32	127.664	2.94	2.93	5.59
3400.00	3.560	243.030	3399.83	10.96	-8.69	7.59	1684582.40	422357.31	39°39'15.1739"N	80°37'12.9799"W	11.54	138.861	1.37	1.33	6.09
3443.00	3.300	243.060	3442.75	11.14	-9.86	5.30	1684580.11	422356.14	39°39'15.1621"N	80°37'13.0090"W	11.19	151.740	0.60	-0.60	0.07
3487.00	3.120	241.000	3486.69	11.36	-11.01	3.12	1684577.93	422354.99	39°39'15.1505"N	80°37'13.0366"W	11.44	164.170	0.49	-0.41	-4.68
3530.00	3.440	246.090	3529.62	11.50	-12.10	0.92	1684575.73	422353.90	39°39'15.1394"N	80°37'13.0646"W	12.14	175.657	1.01	0.74	11.84
3573.00	4.540	244.960	3572.51	11.59	-13.34	-1.80	1684573.01	422352.66	39°39'15.1268"N	80°37'13.0992"W	13.47	187.692	2.56	2.56	-2.63
3616.00	5.860	243.610	3615.33	11.79	-15.04	-5.31	1684569.50	422350.96	39°39'15.1096"N	80°37'13.1438"W	15.95	199.449	3.08	3.07	-3.14
3659.00	6.450	240.950	3658.08	12.18	-17.19	-9.39	1684565.42	422348.81	39°39'15.0879"N	80°37'13.1956"W	19.59	208.644	1.52	1.37	-6.19
3703.00	7.180	238.520	3701.77	12.86	-19.82	-13.89	1684560.92	422346.18	39°39'15.0613"N	80°37'13.2527"W	24.21	215.025	1.78	1.66	-5.52
3746.00	7.770	232.250	3744.41	14.00	-23.01	-18.48	1684556.33	422342.99	39°39'15.0292"N	80°37'13.3109"W	29.51	218.779	2.34	1.37	-14.58
3789.00	8.930	227.000	3786.95	15.89	-27.06	-23.22	1684551.59	422338.94	39°39'14.9886"N	80°37'13.3709"W	35.65	220.634	3.23	2.70	-12.21
3875.00	11.250	222.250	3871.62	21.71	-37.83	-33.75	1684541.06	422328.18	39°39'14.8809"N	80°37'13.5037"W	50.69	221.738	2.86	2.70	-5.52
3962.00	12.990	221.330	3956.68	29.53	-51.45	-45.91	1684528.90	422314.55	39°39'14.7448"N	80°37'13.6570"W	68.96	221.743	2.01	2.00	-1.06
4048.00	15.150	221.950	4040.09	38.51	-67.07	-59.81	1684515.00	422298.93	39°39'14.5887"N	80°37'13.8322"W	89.86	221.725	2.52	2.51	0.72
4134.00	15.780	221.650	4122.98	48.31	-84.17	-75.09	1684499.72	422281.84	39°39'14.4179"N	80°37'14.0249"W	112.80	221.739	0.74	0.73	-0.35
4221.00	15.840	221.980	4206.69	58.44	-101.83	-90.90	1684483.92	422264.17	39°39'14.2413"N	80°37'14.2241"W	136.50	221.753	0.12	0.07	0.38
4307.00	16.500	223.320	4289.28	68.35	-119.44	-107.13	1684467.69	422246.57	39°39'14.0653"N	80°37'14.4287"W	160.44	221.888	0.88	0.77	1.56
4394.00	15.740	220.190	4372.86	78.67	-137.45	-123.22	1684451.60	422228.56	39°39'13.8854"N	80°37'14.6316"W	184.59	221.876	1.33	-0.87	-3.60
4468.00	16.050	221.020	4444.03	87.71	-152.83	-136.41	1684438.41	422213.18	39°39'13.7317"N	80°37'14.7978"W	204.85	221.750	0.52	0.42	1.12

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4554.00	17.270	224.730	4526.42	97.80	-170.87	-153.20	1684421.62	422195.14	39°39'13.5514"N	80°37'15.0095"W	229.49	221.878	1.88	1.42	4.31
4640.00	17.310	225.300	4608.54	107.41	-188.94	-171.27	1684403.55	422177.07	39°39'13.3706"N	80°37'15.2377"W	255.02	222.192	0.20	0.05	0.66
4727.00	16.640	221.450	4691.75	117.61	-207.38	-188.72	1684386.10	422158.63	39°39'13.1862"N	80°37'15.4578"W	280.40	222.303	1.50	-0.77	-4.43
4813.00	16.790	221.420	4774.12	128.32	-225.92	-205.09	1684369.73	422140.09	39°39'13.0009"N	80°37'15.6641"W	305.13	222.233	0.17	0.17	-0.03
4899.00	16.140	220.520	4856.59	139.05	-244.33	-221.07	1684353.75	422121.69	39°39'12.8171"N	80°37'15.8655"W	329.50	222.140	0.81	-0.76	-1.05
4977.00	15.810	219.460	4931.58	148.83	-260.77	-234.87	1684339.95	422105.25	39°39'12.6529"N	80°37'16.0393"W	350.95	222.009	0.56	-0.42	-1.36
5063.00	16.210	224.750	5014.25	158.83	-278.34	-250.77	1684324.06	422087.68	39°39'12.4773"N	80°37'16.2397"W	374.64	222.017	1.76	0.47	6.15
5150.00	16.350	224.720	5097.76	168.11	-295.67	-267.93	1684306.89	422070.35	39°39'12.3040"N	80°37'16.4564"W	399.01	222.183	0.16	0.16	-0.03
5236.00	16.670	224.940	5180.21	177.37	-313.00	-285.16	1684289.66	422053.02	39°39'12.1306"N	80°37'16.6739"W	423.42	222.336	0.38	0.37	0.26
5323.00	17.080	227.160	5263.47	186.44	-330.52	-303.35	1684271.48	422035.50	39°39'11.9552"N	80°37'16.9035"W	448.62	222.545	0.88	0.47	2.55
5409.00	17.200	224.100	5345.65	195.72	-348.24	-321.46	1684253.37	422017.78	39°39'11.7778"N	80°37'17.1322"W	473.92	222.710	1.06	0.14	-3.56
5495.00	17.330	227.420	5427.78	205.00	-366.04	-339.74	1684235.09	421999.99	39°39'11.5997"N	80°37'17.3631"W	499.40	222.866	1.16	0.15	3.86
5582.00	17.310	228.190	5510.83	213.56	-383.43	-358.93	1684215.91	421982.59	39°39'11.4254"N	80°37'17.6056"W	525.21	223.109	0.26	-0.02	0.89
5668.00	16.400	223.430	5593.14	222.58	-400.78	-376.81	1684198.02	421965.24	39°39'11.2518"N	80°37'17.8315"W	550.10	223.234	1.92	-1.06	-5.53
5755.00	16.880	223.820	5676.50	232.50	-418.81	-394.00	1684180.84	421947.21	39°39'11.0714"N	80°37'18.0483"W	575.01	223.251	0.57	0.55	0.45
5840.00	18.460	224.250	5757.48	242.61	-437.36	-411.93	1684162.90	421928.67	39°39'10.8860"N	80°37'18.2747"W	600.81	223.285	1.87	1.86	0.51
5925.00	18.880	226.310	5838.96	252.83	-456.72	-431.50	1684143.34	421909.31	39°39'10.6922"N	80°37'18.5217"W	628.32	223.373	0.91	0.49	2.40
6013.00	19.070	224.050	5921.23	263.39	-476.66	-451.56	1684123.28	421889.37	39°39'10.4927"N	80°37'18.7749"W	656.59	223.451	0.87	0.22	-2.60
6099.00	17.880	220.300	6002.80	274.85	-496.83	-469.87	1684104.97	421869.20	39°39'10.2911"N	80°37'19.0057"W	683.82	223.402	1.95	-1.38	-4.36
6186.00	18.020	218.460	6085.57	287.32	-517.55	-486.87	1684087.97	421848.48	39°39'10.0842"N	80°37'19.2199"W	710.57	223.251	0.67	0.16	-2.11
6273.00	18.570	220.640	6168.17	299.94	-538.60	-504.27	1684070.57	421827.43	39°39'9.8741"N	80°37'19.4388"W	737.82	223.114	1.01	0.63	2.51
6359.00	16.110	219.850	6250.26	311.51	-558.16	-520.83	1684054.01	421807.88	39°39'9.6788"N	80°37'19.6475"W	763.42	223.019	2.87	-2.86	-0.92
6446.00	15.720	221.730	6333.92	322.09	-576.22	-536.41	1684038.43	421789.82	39°39'9.4983"N	80°37'19.8438"W	787.25	222.951	0.74	-0.45	2.16
6533.00	16.940	221.760	6417.41	332.56	-594.47	-552.70	1684022.14	421771.57	39°39'9.3160"N	80°37'20.0491"W	811.71	222.915	1.40	1.40	0.03
6619.00	17.710	224.520	6499.51	342.95	-613.14	-570.22	1684004.63	421752.90	39°39'9.1293"N	80°37'20.2700"W	837.31	222.923	1.31	0.90	3.21
6705.00	16.820	224.400	6582.59	352.89	-631.57	-588.30	1683986.54	421734.47	39°39'8.9449"N	80°37'20.4983"W	863.12	222.969	1.02	-1.02	-0.14
6792.00	15.050	219.390	6665.28	362.88	-649.09	-604.09	1683970.75	421716.95	39°39'8.7698"N	80°37'20.6974"W	886.71	222.944	2.60	-2.06	-5.83
6879.00	14.750	215.690	6749.36	373.91	-666.82	-617.72	1683957.12	421699.22	39°39'8.5930"N	80°37'20.8688"W	908.97	222.811	1.15	-0.34	-4.25
6965.00	14.790	215.990	6832.52	385.29	-684.59	-630.56	1683944.29	421681.45	39°39'8.4157"N	80°37'21.0301"W	930.74	222.648	0.10	0.05	0.35
7051.00	13.790	220.680	6915.86	395.52	-701.25	-643.69	1683931.16	421664.80	39°39'8.2495"N	80°37'21.1953"W	951.89	222.550	1.78	-1.16	5.45



# Actual Wellpath Report

Haggard 8H AWB Proj: 25005'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT PRODUCTION COMPANY	Well	Haggard 8H
Field	Wetzel	API	47-103-03430-0000
Facility	Haggard Pad	Wellbore	Haggard 8H AWB
Slot	Slot 08		

WELLPATH DATA (281 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]
7117.00	13.510	221.220	6980.00	402.38	-713.01	-653.90	1683920.95	421653.03	39°39'8.1320"N	80°37'21.3239"W	967.46	222.524	0.47	-0.42	0.82
7155.00	13.810	220.340	7016.92	406.36	-719.81	-659.76	1683915.09	421646.24	39°39'8.0641"N	80°37'21.3977"W	976.43	222.508	0.96	0.79	-2.32
7250.00	15.140	217.590	7108.90	417.58	-738.28	-674.67	1683900.18	421627.77	39°39'7.8797"N	80°37'21.5854"W	1000.12	222.422	1.58	1.40	-2.89
7345.00	19.780	193.130	7199.62	436.73	-763.81	-685.91	1683888.94	421602.23	39°39'7.6260"N	80°37'21.7250"W	1026.59	221.924	9.04	4.88	-25.75
7441.00	26.430	182.620	7287.91	469.20	-801.03	-690.58	1683884.27	421565.02	39°39'7.2576"N	80°37'21.7788"W	1057.62	220.765	8.13	6.93	-10.95
7535.00	32.550	169.720	7369.78	512.84	-846.90	-687.02	1683887.83	421519.15	39°39'6.8048"N	80°37'21.7259"W	1090.52	219.050	9.35	6.51	-13.72
7631.00	42.000	161.540	7446.13	570.23	-902.94	-672.20	1683902.65	421463.12	39°39'6.2528"N	80°37'21.5275"W	1125.68	216.666	11.10	9.84	-8.52
7726.00	49.800	156.490	7512.21	638.32	-966.48	-647.62	1683927.23	421399.58	39°39'5.6280"N	80°37'21.2031"W	1163.39	213.825	9.05	8.21	-5.32
7821.00	57.950	155.600	7568.17	714.98	-1036.53	-616.46	1683958.39	421329.54	39°39'4.9395"N	80°37'20.7936"W	1205.99	210.741	8.61	8.58	-0.94
7917.00	66.810	154.610	7612.63	799.90	-1113.59	-580.66	1683994.18	421252.47	39°39'4.1824"N	80°37'20.3236"W	1255.89	207.539	9.27	9.23	-1.03
8012.00	75.090	154.520	7643.61	889.53	-1194.62	-542.13	1684032.72	421171.46	39°39'3.3864"N	80°37'19.8181"W	1311.87	204.409	8.72	8.72	-0.09
8107.00	83.960	152.930	7660.87	982.69	-1278.29	-500.80	1684074.04	421087.79	39°39'2.5647"N	80°37'19.2764"W	1372.89	201.394	9.48	9.34	-1.67
8202.00	88.180	151.520	7667.38	1077.10	-1362.12	-456.64	1684118.20	421003.96	39°39'1.7416"N	80°37'18.6986"W	1436.63	198.533	4.68	4.44	-1.48
8297.00	88.950	151.320	7669.76	1171.60	-1445.52	-411.21	1684163.62	420920.57	39°39'0.9231"N	80°37'18.1045"W	1502.87	195.880	0.84	0.81	-0.21
8392.00	89.040	151.210	7671.42	1266.09	-1528.81	-365.55	1684209.29	420837.29	39°39'0.1056"N	80°37'17.5074"W	1571.90	193.447	0.15	0.09	-0.12
8487.00	89.080	151.490	7672.98	1360.60	-1612.16	-320.00	1684254.83	420753.94	39°38'59.2875"N	80°37'16.9120"W	1643.62	191.227	0.30	0.04	0.29
8582.00	90.860	153.950	7673.03	1455.31	-1696.59	-276.47	1684298.36	420669.52	39°38'58.4586"N	80°37'16.3419"W	1718.96	189.255	3.20	1.87	2.59
8677.00	89.510	150.250	7672.73	1549.93	-1780.53	-232.02	1684342.80	420585.58	39°38'57.6345"N	80°37'15.7604"W	1795.58	187.424	4.15	-1.42	-3.89
8773.00	89.050	149.280	7673.93	1645.14	-1863.46	-183.69	1684391.14	420502.65	39°38'56.8209"N	80°37'15.1293"W	1872.49	185.630	1.12	-0.48	-1.01
8868.00	89.200	149.160	7675.38	1739.23	-1945.07	-135.08	1684439.74	420421.05	39°38'56.0204"N	80°37'14.4949"W	1949.75	183.973	0.20	0.16	-0.13
8963.00	88.980	148.990	7676.89	1833.28	-2026.55	-86.26	1684488.56	420339.57	39°38'55.2212"N	80°37'13.8579"W	2028.39	182.437	0.29	-0.23	-0.18
9058.00	88.920	149.060	7678.63	1927.33	-2107.99	-37.37	1684537.44	420258.14	39°38'54.4224"N	80°37'13.2200"W	2108.32	181.016	0.10	-0.06	0.07
9153.00	90.030	148.610	7679.50	2021.33	-2189.28	11.79	1684586.59	420176.86	39°38'53.6252"N	80°37'12.5786"W	2189.31	179.692	1.26	1.17	-0.47
9248.00	90.240	148.230	7679.28	2115.25	-2270.21	61.54	1684636.34	420095.93	39°38'52.8315"N	80°37'11.9298"W	2271.04	178.447	0.46	0.22	-0.40
9343.00	90.240	150.510	7678.88	2209.37	-2351.95	109.93	1684684.74	420014.20	39°38'52.0297"N	80°37'11.2981"W	2354.52	177.324	2.40	0.00	2.40
9438.00	90.210	149.260	7678.51	2303.62	-2434.12	157.60	1684732.40	419932.03	39°38'51.2235"N	80°37'10.6757"W	2439.22	176.296	1.32	-0.03	-1.32
9534.00	90.220	149.340	7678.15	2398.73	-2516.67	206.61	1684781.41	419849.49	39°38'50.4138"N	80°37'10.0361"W	2525.13	175.307	0.08	0.01	0.08
9628.00	90.250	149.400	7677.76	2491.88	-2597.55	254.50	1684829.30	419768.61	39°38'49.6204"N	80°37'9.4110"W	2609.99	174.404	0.07	0.03	0.06
9724.00	90.150	150.100	7677.43	2587.09	-2680.48	302.86	1684877.65	419685.69	39°38'48.8068"N	80°37'8.7796"W	2697.53	173.554	0.74	-0.10	0.73
9819.00	89.660	150.420	7677.58	2681.41	-2762.96	349.99	1684924.78	419603.20	39°38'47.9974"N	80°37'8.1641"W	2785.04	172.781	0.62	-0.52	0.34

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# Actual Wellpath Report

Haggard 8H AWB Proj: 25005'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT PRODUCTION COMPANY	Well	Haggard 8H
Field	Wetzel	API	47-103-03430-0000
Facility	Haggard Pad	Wellbore	Haggard 8H AWB
Slot	Slot 08		

WELLPATH DATA (281 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]
9914.00	89.690	150.020	7678.12	2775.72	-2845.42	397.17	1684971.96	419520.76	39°38'47.1884"N	80°37'7.5478"W	2873.00	172.054	0.42	0.03	-0.42
10009.00	89.750	149.810	7678.59	2869.97	-2927.62	444.79	1685019.58	419438.56	39°38'46.3820"N	80°37'6.9260"W	2961.21	171.361	0.23	0.06	-0.22
10104.00	89.750	149.800	7679.00	2964.20	-3009.73	492.57	1685067.35	419356.46	39°38'45.5764"N	80°37'6.3022"W	3049.77	170.705	0.01	0.00	-0.01
10199.00	89.690	147.300	7679.47	3058.14	-3090.76	542.13	1685116.91	419275.42	39°38'44.7817"N	80°37'5.6558"W	3137.95	170.051	2.63	-0.06	-2.63
10294.00	89.910	150.320	7679.80	3152.14	-3172.02	591.33	1685166.10	419194.17	39°38'43.9847"N	80°37'5.0140"W	3226.67	169.440	3.19	0.23	3.18
10390.00	89.570	149.990	7680.23	3247.43	-3255.29	639.10	1685213.87	419110.91	39°38'43.1677"N	80°37'4.3901"W	3317.43	168.893	0.49	-0.35	-0.34
10486.00	89.880	150.050	7680.69	3342.70	-3338.44	687.07	1685261.84	419027.76	39°38'42.3518"N	80°37'3.7637"W	3408.41	168.371	0.33	0.32	0.06
10581.00	89.810	150.220	7680.95	3436.99	-3420.83	734.38	1685309.14	418945.38	39°38'41.5435"N	80°37'3.1459"W	3498.77	167.884	0.19	-0.07	0.18
10676.00	89.840	150.560	7681.24	3531.34	-3503.42	781.32	1685356.08	418862.79	39°38'40.7331"N	80°37'2.5328"W	3589.49	167.428	0.36	0.03	0.36
10771.00	89.780	150.270	7681.56	3625.70	-3586.03	828.22	1685402.98	418780.18	39°38'39.9224"N	80°37'1.9202"W	3680.43	166.995	0.31	-0.06	-0.31
10866.00	89.750	149.500	7681.95	3719.94	-3668.21	875.88	1685450.64	418698.01	39°38'39.1162"N	80°37'1.2978"W	3771.33	166.571	0.81	-0.03	-0.81
10961.00	89.660	149.970	7682.44	3814.16	-3750.26	923.76	1685498.52	418615.97	39°38'38.3112"N	80°37'0.6728"W	3862.36	166.162	0.50	-0.09	0.49
11056.00	89.690	149.700	7682.97	3908.39	-3832.39	971.50	1685546.25	418533.84	39°38'37.5054"N	80°37'0.0496"W	3953.61	165.775	0.29	0.03	-0.28
11151.00	89.110	149.880	7683.97	4002.61	-3914.49	1019.30	1685594.04	418451.75	39°38'36.7000"N	80°36'59.4256"W	4045.02	165.405	0.64	-0.61	0.19
11246.00	89.840	149.810	7684.84	4096.85	-3996.63	1067.02	1685641.76	418369.62	39°38'35.8941"N	80°36'58.8026"W	4136.61	165.052	0.77	0.77	-0.07
11341.00	89.780	149.630	7685.15	4191.06	-4078.67	1114.92	1685689.66	418287.58	39°38'35.0893"N	80°36'58.1773"W	4228.30	164.711	0.20	-0.06	-0.19
11436.00	89.750	149.490	7685.54	4285.24	-4160.57	1163.05	1685737.79	418205.68	39°38'34.2858"N	80°36'57.5491"W	4320.07	164.382	0.15	-0.03	-0.15
11531.00	89.440	150.070	7686.22	4379.46	-4242.66	1210.86	1685785.60	418123.60	39°38'33.4804"N	80°36'56.9249"W	4412.07	164.071	0.69	-0.33	0.61
11626.00	89.750	149.940	7686.89	4473.73	-4324.93	1258.35	1685833.09	418041.33	39°38'32.6732"N	80°36'56.3048"W	4504.27	163.777	0.35	0.33	-0.14
11721.00	89.910	149.730	7687.17	4567.97	-4407.07	1306.09	1685880.82	417959.20	39°38'31.8674"N	80°36'55.6816"W	4596.53	163.492	0.28	0.17	-0.22
11815.00	89.780	149.620	7687.42	4661.18	-4488.20	1353.55	1685928.28	417878.07	39°38'31.0714"N	80°36'55.0621"W	4687.87	163.218	0.18	-0.14	-0.12
11910.00	89.750	149.880	7687.81	4755.40	-4570.27	1401.41	1685976.13	417796.01	39°38'30.2662"N	80°36'54.4373"W	4780.30	162.953	0.28	-0.03	0.27
12005.00	90.000	149.790	7688.02	4849.63	-4652.40	1449.14	1686023.87	417713.88	39°38'29.4604"N	80°36'53.8141"W	4872.87	162.699	0.28	0.26	-0.09
12100.00	89.780	149.500	7688.20	4943.83	-4734.38	1497.15	1686071.87	417631.91	39°38'28.6562"N	80°36'53.1875"W	4965.46	162.451	0.38	-0.23	-0.31
12195.00	90.090	150.240	7688.31	5038.07	-4816.54	1544.84	1686119.56	417549.75	39°38'27.8501"N	80°36'52.5650"W	5058.22	162.217	0.84	0.33	0.78
12291.00	89.970	149.510	7688.26	5133.31	-4899.58	1593.02	1686167.73	417466.72	39°38'27.0354"N	80°36'51.9360"W	5152.04	161.989	0.77	-0.13	-0.76
12385.00	88.430	149.390	7689.57	5226.46	-4980.52	1640.79	1686215.50	417385.79	39°38'26.2414"N	80°36'51.3125"W	5243.83	161.766	1.64	-1.64	-0.13
12481.00	90.090	150.000	7690.81	5321.65	-5063.39	1689.23	1686263.94	417302.92	39°38'25.4283"N	80°36'50.6803"W	5337.73	161.550	1.84	1.73	0.64
12576.00	89.940	149.040	7690.79	5415.82	-5145.26	1737.42	1686312.12	417221.05	39°38'24.6252"N	80°36'50.0514"W	5430.68	161.342	1.02	-0.16	-1.01
12670.00	90.000	150.070	7690.84	5509.00	-5226.30	1785.05	1686359.75	417140.02	39°38'23.8302"N	80°36'49.4298"W	5522.73	161.142	1.10	0.06	1.10



# Actual Wellpath Report

Haggard 8H AWB Proj: 25005'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Haggard 8H
Field	Wetzel	API	47-103-03430-0000
Facility	Haggard Pad	Wellbore	Haggard 8H AWB
Slot	Slot 08		

## WELLPATH DATA (281 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]
12766.00	90.000	149.890	7690.84	5604.26	-5309.42	1833.08	1686407.77	417056.91	39°38'23.0146"N	80°36'48.8027"W	5616.95	160.953	0.19	0.00	-0.19
12861.00	90.030	150.190	7690.81	5698.54	-5391.72	1880.52	1686455.21	416974.60	39°38'22.2070"N	80°36'48.1833"W	5710.26	160.772	0.32	0.03	0.32
12955.00	90.090	149.770	7690.71	5791.82	-5473.11	1927.55	1686502.24	416893.22	39°38'21.4085"N	80°36'47.5693"W	5802.62	160.599	0.45	0.06	-0.45
13051.00	89.410	149.440	7691.13	5886.99	-5555.92	1976.12	1686550.81	416810.42	39°38'20.5961"N	80°36'46.9354"W	5896.89	160.421	0.79	-0.71	-0.34
13145.00	90.370	148.940	7691.31	5980.10	-5638.65	2024.26	1686598.95	416729.69	39°38'19.8042"N	80°36'46.3073"W	5989.11	160.246	1.15	1.02	-0.53
13240.00	89.940	149.360	7691.06	6074.18	-5718.21	2072.98	1686647.66	416648.14	39°38'19.0042"N	80°36'45.6717"W	6082.36	160.073	0.63	-0.45	0.44
13335.00	90.340	149.870	7690.82	6168.37	-5800.16	2121.03	1686695.71	416566.19	39°38'18.2002"N	80°36'45.0446"W	6175.81	159.913	0.68	0.42	0.54
13430.00	90.240	149.840	7690.34	6262.61	-5882.31	2168.74	1686743.41	416484.05	39°38'17.3942"N	80°36'44.4219"W	6269.37	159.762	0.11	-0.11	-0.03
13524.00	90.310	150.380	7689.89	6355.91	-5963.81	2215.58	1686790.25	416402.56	39°38'16.5945"N	80°36'43.8103"W	6362.06	159.620	0.58	0.07	0.57
13619.00	90.310	151.000	7689.38	6450.32	-6046.64	2262.08	1686836.76	416319.73	39°38'15.7816"N	80°36'43.2028"W	6455.92	159.489	0.65	0.00	0.65
13714.00	90.210	150.690	7688.95	6544.75	-6129.61	2308.37	1686883.03	416236.77	39°38'14.9674"N	80°36'42.5981"W	6549.86	159.364	0.34	-0.11	-0.33
13809.00	90.490	150.410	7688.37	6639.13	-6212.33	2355.07	1686929.74	416154.05	39°38'14.1556"N	80°36'41.9881"W	6643.75	159.238	0.42	0.29	-0.29
13904.00	89.970	150.100	7687.99	6733.45	-6294.81	2402.21	1686976.87	416071.57	39°38'13.3463"N	80°36'41.3726"W	6737.60	159.112	0.64	-0.55	-0.33
13999.00	90.270	150.550	7687.79	6827.78	-6377.35	2449.24	1687023.90	415989.04	39°38'12.5363"N	80°36'40.7585"W	6831.50	158.991	0.57	0.32	0.47
14094.00	90.210	150.210	7687.39	6922.13	-6459.94	2496.19	1687070.85	415906.46	39°38'11.7259"N	80°36'40.1453"W	6925.44	158.873	0.36	-0.06	-0.36
14189.00	90.520	151.040	7686.78	7016.52	-6542.72	2542.79	1687117.44	415823.68	39°38'10.9135"N	80°36'39.5367"W	7019.47	158.762	0.93	0.33	0.87
14284.00	90.580	150.910	7685.87	7110.97	-6625.78	2588.88	1687163.53	415740.62	39°38'10.0983"N	80°36'38.9345"W	7113.60	158.658	0.15	0.06	-0.14
14379.00	90.610	150.800	7684.88	7205.41	-6708.75	2635.14	1687209.79	415657.66	39°38'9.2840"N	80°36'38.3300"W	7207.73	158.555	0.12	0.03	-0.12
14473.00	90.520	151.130	7683.96	7298.86	-6790.93	2680.76	1687255.41	415575.48	39°38'8.4774"N	80°36'37.7340"W	7300.91	158.458	0.36	-0.10	0.35
14569.00	90.430	150.810	7683.16	7394.31	-6874.87	2727.35	1687301.99	415491.55	39°38'7.6536"N	80°36'37.1254"W	7396.10	158.361	0.35	-0.09	-0.33
14663.00	90.460	150.920	7682.43	7487.75	-6956.97	2773.11	1687347.75	415409.45	39°38'6.8479"N	80°36'36.5275"W	7489.30	158.267	0.12	0.03	0.12
14758.00	90.550	150.840	7681.59	7582.19	-7039.96	2819.34	1687393.98	415326.47	39°38'6.0334"N	80°36'35.9236"W	7583.52	158.175	0.13	0.09	-0.08
14854.00	90.460	150.580	7680.75	7677.59	-7123.69	2866.31	1687440.94	415242.75	39°38'5.2117"N	80°36'35.3101"W	7678.71	158.082	0.29	-0.09	-0.27
14949.00	90.490	150.700	7679.96	7771.98	-7206.48	2912.88	1687487.51	415159.96	39°38'4.3992"N	80°36'34.7018"W	7772.92	157.991	0.13	0.03	0.13
15043.00	90.370	150.850	7679.26	7865.40	-7288.51	2958.78	1687533.40	415077.93	39°38'3.5941"N	80°36'34.1023"W	7866.18	157.905	0.20	-0.13	0.16
15138.00	90.210	150.870	7678.77	7959.84	-7371.49	3005.03	1687579.66	414994.96	39°38'2.7798"N	80°36'33.4980"W	7960.47	157.821	0.17	-0.17	0.02
15233.00	90.240	150.130	7678.40	8054.21	-7454.17	3051.81	1687626.44	414912.28	39°38'1.9684"N	80°36'32.8871"W	8054.70	157.735	0.78	0.03	-0.78
15328.00	89.780	150.640	7678.38	8148.56	-7536.76	3098.76	1687673.38	414829.70	39°38'1.1579"N	80°36'32.2741"W	8148.93	157.650	0.72	-0.48	0.54
15423.00	90.180	150.790	7678.42	8242.97	-7619.62	3145.23	1687719.85	414746.85	39°38'0.3448"N	80°36'31.6671"W	8243.24	157.570	0.45	0.42	0.16
15518.00	90.180	150.780	7678.12	8337.38	-7702.50	3191.66	1687766.27	414663.97	39°37'59.5313"N	80°36'31.0607"W	8337.58	157.493	0.09	0.00	-0.09

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# Actual Wellpath Report

Haggard 8H AWB Proj: 25005'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT PRODUCTION COMPANY	Well	Haggard 8H
Field	Wetzel	API	47-103-03430-0000
Facility	Haggard Pad	Wellbore	Haggard 8H AWB
Slot	Slot 08		

WELLPATH DATA (281 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]
15613.00	90.030	150.360	7677.95	8431.76	-7785.21	3238.39	1687813.00	414581.27	39°37'58.7197"N	80°36'30.4503"W	8431.88	157.414	0.39	-0.16	-0.36
15708.00	90.060	150.570	7677.87	8526.12	-7867.86	3285.22	1687859.83	414498.62	39°37'57.9086"N	80°36'29.8388"W	8526.19	157.337	0.22	0.03	0.22
15803.00	90.210	150.870	7677.65	8620.53	-7950.73	3331.69	1687906.29	414415.76	39°37'57.0954"N	80°36'29.2320"W	8620.57	157.264	0.35	0.16	0.32
15898.00	90.060	152.100	7677.42	8715.07	-8034.20	3377.04	1687951.64	414332.29	39°37'56.2760"N	80°36'28.6392"W	8715.09	157.201	1.30	-0.16	1.29
15993.00	89.910	152.680	7677.45	8809.75	-8118.38	3421.06	1687995.66	414248.11	39°37'55.4494"N	80°36'28.0633"W	8809.76	157.150	0.63	-0.16	0.61
16088.00	90.030	156.440	7677.50	8904.64	-8204.16	3461.87	1688036.46	414162.35	39°37'54.6067"N	80°36'27.5283"W	8904.64	157.122	3.96	0.13	3.96
16183.00	90.210	156.830	7677.30	8999.64	-8291.36	3499.54	1688074.14	414075.14	39°37'53.7495"N	80°36'27.0331"W	8999.64	157.117	0.45	0.19	0.41
16278.00	90.180	156.720	7676.98	9094.64	-8378.67	3537.00	1688111.60	413987.85	39°37'52.8913"N	80°36'26.5406"W	9094.64	157.113	0.12	-0.03	-0.12
16372.00	90.120	156.970	7676.73	9188.64	-8465.09	3573.97	1688148.56	413901.42	39°37'52.0417"N	80°36'26.0546"W	9188.64	157.111	0.27	-0.06	0.27
16467.00	90.210	156.840	7676.46	9283.63	-8552.48	3611.23	1688185.82	413814.04	39°37'51.1827"N	80°36'25.5646"W	9283.63	157.108	0.17	0.09	-0.14
16562.00	90.400	156.800	7675.95	9378.63	-8639.81	3648.62	1688223.21	413726.72	39°37'50.3242"N	80°36'25.0729"W	9378.63	157.105	0.20	0.20	-0.04
16657.00	90.400	156.930	7675.29	9473.63	-8727.17	3685.95	1688260.53	413639.37	39°37'49.4654"N	80°36'24.5822"W	9473.63	157.103	0.14	0.00	0.14
16752.00	90.490	157.100	7674.55	9568.63	-8814.62	3723.04	1688297.63	413551.92	39°37'48.6057"N	80°36'24.0944"W	9568.63	157.102	0.20	0.09	0.18
16847.00	90.490	157.010	7673.74	9663.62	-8902.10	3760.08	1688334.66	413464.44	39°37'47.7457"N	80°36'23.6073"W	9663.62	157.102	0.09	0.00	-0.09
16942.00	90.640	156.680	7672.80	9758.62	-8989.44	3797.43	1688372.01	413377.10	39°37'46.8871"N	80°36'23.1162"W	9758.62	157.099	0.38	0.16	-0.35
17037.00	90.830	156.770	7671.58	9853.61	-9076.71	3834.97	1688409.54	413289.85	39°37'46.0293"N	80°36'22.6228"W	9853.61	157.096	0.22	0.20	0.09
17132.00	90.640	156.730	7670.36	9948.60	-9163.98	3872.46	1688447.04	413202.58	39°37'45.1713"N	80°36'22.1298"W	9948.60	157.092	0.20	-0.20	-0.04
17227.00	90.740	157.050	7669.22	10043.59	-9251.35	3909.75	1688484.32	413115.21	39°37'44.3125"N	80°36'21.6396"W	10043.59	157.090	0.35	0.11	0.34
17321.00	90.740	157.150	7668.00	10137.58	-9337.94	3946.32	1688520.89	413028.63	39°37'43.4612"N	80°36'21.1586"W	10137.58	157.091	0.11	0.00	0.11
17416.00	90.550	156.610	7666.94	10232.57	-9425.30	3983.62	1688558.19	412941.27	39°37'42.6024"N	80°36'20.6682"W	10232.57	157.089	0.60	-0.20	-0.57
17511.00	90.610	156.320	7665.97	10327.56	-9512.40	4021.56	1688596.12	412854.19	39°37'41.7463"N	80°36'20.1697"W	10327.56	157.083	0.31	0.06	-0.31
17606.00	90.580	156.290	7664.99	10422.55	-9599.38	4059.73	1688634.29	412767.20	39°37'40.8914"N	80°36'19.6682"W	10422.55	157.076	0.04	-0.03	-0.03
17701.00	90.550	157.110	7664.05	10517.54	-9686.63	4097.31	1688671.87	412679.96	39°37'40.0337"N	80°36'19.1743"W	10517.54	157.072	0.86	-0.03	0.86
17796.00	90.370	156.880	7663.29	10612.54	-9774.07	4134.43	1688708.99	412592.53	39°37'39.1741"N	80°36'18.6861"W	10612.54	157.072	0.31	-0.19	-0.24
17891.00	90.400	156.840	7662.65	10707.54	-9861.43	4171.76	1688746.32	412505.18	39°37'38.3154"N	80°36'18.1953"W	10707.54	157.070	0.05	0.03	-0.04
17986.00	90.460	156.670	7661.94	10802.53	-9948.71	4209.26	1688783.81	412417.90	39°37'37.4573"N	80°36'17.7025"W	10802.53	157.067	0.19	0.06	-0.18
18081.00	90.430	155.900	7661.20	10897.52	-10035.69	4247.46	1688822.01	412330.93	39°37'36.6024"N	80°36'17.2005"W	10897.52	157.060	0.81	-0.03	-0.81
18176.00	90.270	156.500	7660.62	10992.50	-10122.61	4285.80	1688860.35	412244.01	39°37'35.7481"N	80°36'16.6970"W	10992.51	157.053	0.65	-0.17	0.63
18271.00	90.300	156.690	7660.15	11087.50	-10209.79	4323.53	1688898.08	412156.84	39°37'34.8911"N	80°36'16.2011"W	11087.50	157.049	0.20	0.03	0.20
18365.00	90.340	156.590	7659.62	11181.49	-10296.08	4360.81	1688935.35	412070.55	39°37'34.0429"N	80°36'15.7112"W	11181.50	157.045	0.11	0.04	-0.11





# Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT PRODUCTION COMPANY	Well	Haggard 8H
Field	Welzel	API	47-103-03430-0000
Facility	Haggard Pad	Wellbore	Haggard 8H AWB
Slot	Slot 08		

## WELLPATH DATA (281 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]
18460.00	90.280	156.430	7659.11	11276.49	-10383.21	4398.67	1688973.21	411983.43	39°37'33.1865"N	80°36'15.2137"W	11276.49	157.041	0.18	-0.06	-0.17
18555.00	90.460	157.040	7658.49	11371.48	-10470.48	4436.19	1689010.73	411896.16	39°37'32.3286"N	80°36'14.7205"W	11371.49	157.038	0.67	0.19	0.64
18650.00	89.750	156.080	7658.32	11466.48	-10557.64	4473.98	1689048.52	411809.01	39°37'31.4718"N	80°36'14.2239"W	11466.49	157.034	1.26	-0.75	-1.01
18746.00	90.210	157.340	7658.35	11562.47	-10645.82	4511.94	1689086.47	411720.84	39°37'30.6050"N	80°36'13.7250"W	11562.48	157.032	1.40	0.48	1.31
18841.00	90.060	155.820	7658.13	11657.47	-10732.99	4549.70	1689124.23	411633.67	39°37'29.7482"N	80°36'13.2288"W	11657.48	157.028	1.61	-0.16	-1.60
18936.00	90.060	157.520	7658.03	11752.46	-10820.22	4587.32	1689161.85	411546.45	39°37'28.8907"N	80°36'12.7344"W	11752.47	157.025	1.79	0.00	1.79
19031.00	90.120	157.920	7657.88	11847.45	-10908.12	4623.34	1689197.86	411458.54	39°37'28.0263"N	80°36'12.2603"W	11847.46	157.031	0.43	0.06	0.42
19126.00	89.750	157.490	7657.99	11942.45	-10996.02	4659.38	1689233.90	411370.65	39°37'27.1621"N	80°36'11.7860"W	11942.46	157.036	0.60	-0.39	-0.45
19221.00	90.060	157.920	7658.15	12037.44	-11083.92	4695.42	1689269.94	411282.76	39°37'26.2978"N	80°36'11.3116"W	12037.45	157.041	0.56	0.33	0.45
19317.00	90.000	156.910	7658.09	12133.44	-11172.55	4732.29	1689306.81	411194.13	39°37'25.4263"N	80°36'10.8266"W	12133.45	157.044	1.05	-0.06	-1.05
19412.00	90.120	157.660	7658.00	12228.44	-11260.19	4768.97	1689343.49	411106.50	39°37'24.5648"N	80°36'10.3441"W	12228.44	157.046	0.80	0.13	0.79
19507.00	90.340	157.770	7657.61	12323.43	-11348.09	4804.99	1689379.51	411018.60	39°37'23.7005"N	80°36'9.8699"W	12323.44	157.051	0.26	0.23	0.12
19602.00	90.370	157.330	7657.03	12418.43	-11435.89	4841.27	1689415.79	410930.81	39°37'22.8372"N	80°36'9.3926"W	12418.43	157.055	0.46	0.03	-0.46
19697.00	90.430	158.010	7656.36	12513.42	-11523.76	4877.37	1689451.88	410842.94	39°37'21.9732"N	80°36'8.9176"W	12513.42	157.060	0.72	0.06	0.72
19792.00	90.550	157.860	7655.55	12608.41	-11611.80	4913.05	1689487.56	410754.91	39°37'21.1075"N	80°36'8.4478"W	12608.41	157.066	0.20	0.13	-0.16
19887.00	90.430	157.640	7654.74	12703.40	-11699.72	4949.02	1689523.53	410666.99	39°37'20.2429"N	80°36'7.9744"W	12703.40	157.071	0.26	-0.13	-0.23
19982.00	90.770	158.100	7653.74	12798.38	-11787.72	4984.81	1689559.31	410579.00	39°37'19.3777"N	80°36'7.5033"W	12798.38	157.077	0.60	0.36	0.48
20077.00	90.610	158.030	7652.60	12893.36	-11875.84	5020.29	1689594.80	410490.89	39°37'18.5112"N	80°36'7.0361"W	12893.36	157.085	0.18	-0.17	-0.07
20173.00	90.740	157.740	7651.47	12989.35	-11964.77	5056.43	1689630.93	410401.97	39°37'17.6367"N	80°36'6.5603"W	12989.35	157.091	0.33	0.14	-0.30
20267.00	90.700	157.690	7650.29	13083.33	-12051.74	5092.07	1689666.57	410315.00	39°37'16.7815"N	80°36'6.0913"W	13083.33	157.095	0.07	-0.04	-0.05
20362.00	90.580	157.450	7649.23	13178.32	-12139.55	5128.32	1689702.82	410227.20	39°37'15.9182"N	80°36'5.6144"W	13178.32	157.099	0.28	-0.13	-0.25
20458.00	90.770	157.940	7648.09	13274.31	-12228.36	5164.75	1689739.25	410138.39	39°37'15.0449"N	80°36'5.1349"W	13274.31	157.103	0.55	0.20	0.51
20553.00	90.640	157.130	7646.93	13369.30	-12316.14	5201.05	1689775.54	410050.61	39°37'14.1818"N	80°36'4.6573"W	13369.30	157.106	0.86	-0.14	-0.85
20648.00	91.230	158.150	7645.37	13464.28	-12403.98	5237.19	1689811.67	409962.78	39°37'13.3181"N	80°36'4.1819"W	13464.28	157.110	1.24	0.62	1.07
20743.00	91.100	156.850	7643.44	13559.26	-12491.73	5273.53	1689848.02	409875.03	39°37'12.4553"N	80°36'3.7037"W	13559.26	157.112	1.37	-0.14	-1.37
20838.00	91.630	157.810	7641.18	13654.23	-12579.37	5310.14	1689884.62	409787.40	39°37'11.5937"N	80°36'3.2222"W	13654.23	157.114	1.15	0.56	1.01
20933.00	91.530	157.510	7638.56	13749.19	-12667.20	5346.23	1689920.72	409699.57	39°37'10.7300"N	80°36'2.7473"W	13749.19	157.118	0.33	-0.11	-0.32
21028.00	91.100	157.650	7636.38	13844.16	-12755.00	5382.45	1689956.94	409611.78	39°37'9.8668"N	80°36'2.2707"W	13844.16	157.121	0.48	-0.45	0.15
21122.00	91.170	157.930	7634.52	13938.13	-12842.01	5417.98	1689992.46	409524.78	39°37'9.0112"N	80°36'1.8031"W	13938.14	157.125	0.31	0.07	0.30
21217.00	91.000	157.690	7632.76	14033.11	-12929.96	5453.85	1690028.33	409436.84	39°37'8.1464"N	80°36'1.3310"W	14033.11	157.130	0.34	-0.23	-0.25

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## REFERENCE WELLPATH IDENTIFICATION

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Facility	Haggard Pad	Wellbore	Haggard 8H AWB
Slot	Slot 08		

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MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
21312.00	91.070	158.030	7631.09	14128.09	-13017.94	5489.65	1690064.12	409348.86	39°37'7.2813"N	80°36'0.8598"W	14128.09	157.135	0.38	0.13	0.36
21408.00	90.330	157.640	7629.91	14224.07	-13106.83	5525.87	1690100.34	409259.97	39°37'6.4072"N	80°36'0.3832"W	14224.08	157.140	0.87	-0.77	-0.41
21503.00	90.180	157.890	7629.49	14319.06	-13194.77	5561.81	1690136.28	409172.04	39°37'5.5425"N	80°35'59.9101"W	14319.07	157.144	0.31	-0.16	0.26
21598.00	90.210	157.490	7629.17	14414.06	-13282.66	5597.88	1690172.35	409084.15	39°37'4.6783"N	80°35'59.4355"W	14414.06	157.147	0.42	0.03	-0.42
21694.00	90.090	157.460	7628.92	14510.06	-13371.33	5634.65	1690209.12	408995.48	39°37'3.8064"N	80°35'58.9517"W	14510.06	157.150	0.13	-0.12	-0.03
21789.00	90.180	157.540	7628.69	14605.05	-13459.10	5671.01	1690245.47	408907.72	39°37'2.9435"N	80°35'58.4735"W	14605.06	157.152	0.13	0.09	0.08
21884.00	90.180	157.900	7628.39	14700.05	-13547.01	5707.03	1690281.49	408819.82	39°37'2.0791"N	80°35'57.9995"W	14700.05	157.155	0.38	0.00	0.38
21979.00	90.370	158.700	7627.94	14795.02	-13635.27	5742.15	1690316.61	408731.56	39°37'1.2111"N	80°35'57.5369"W	14795.03	157.163	0.87	0.20	0.84
22074.00	90.000	157.560	7627.63	14890.01	-13723.44	5777.54	1690351.99	408643.40	39°37'0.3441"N	80°35'57.0710"W	14890.02	157.169	1.26	-0.39	-1.20
22169.00	90.150	157.820	7627.51	14985.00	-13811.32	5813.60	1690388.06	408555.52	39°36'59.4799"N	80°35'56.5965"W	14985.01	157.172	0.32	0.16	0.27
22264.00	90.150	156.980	7627.26	15080.00	-13899.03	5850.11	1690424.56	408467.82	39°36'58.6176"N	80°35'56.1163"W	15080.01	157.174	0.88	0.00	-0.88
22360.00	90.210	156.940	7626.96	15176.00	-13987.37	5887.68	1690462.13	408379.49	39°36'57.7491"N	80°35'55.6224"W	15176.01	157.172	0.08	0.06	-0.04
22454.00	90.240	156.230	7626.59	15269.99	-14073.63	5925.03	1690499.48	408293.23	39°36'56.9012"N	80°35'55.1317"W	15270.00	157.169	0.76	0.03	-0.76
22549.00	90.060	157.010	7626.34	15364.99	-14160.83	5962.73	1690537.18	408206.04	39°36'56.0440"N	80°35'54.6364"W	15365.00	157.165	0.84	-0.19	0.82
22644.00	89.780	156.420	7626.47	15459.99	-14248.09	6000.29	1690574.73	408118.78	39°36'55.1862"N	80°35'54.1429"W	15460.00	157.163	0.69	-0.29	-0.62
22739.00	89.720	156.790	7626.89	15554.98	-14335.28	6038.01	1690612.45	408031.60	39°36'54.3291"N	80°35'53.6474"W	15554.99	157.159	0.39	-0.06	0.39
22834.00	89.870	156.330	7627.23	15649.98	-14422.44	6075.80	1690650.24	407944.44	39°36'53.4723"N	80°35'53.1509"W	15649.98	157.156	0.51	0.16	-0.48
22929.00	89.660	156.640	7627.62	15744.97	-14509.55	6113.70	1690688.14	407857.34	39°36'52.6160"N	80°35'52.6530"W	15744.98	157.152	0.39	-0.22	0.33
23024.00	89.900	156.600	7627.98	15839.97	-14596.75	6151.40	1690725.83	407770.15	39°36'51.7588"N	80°35'52.1577"W	15839.97	157.148	0.26	0.25	-0.04
23119.00	89.780	156.650	7628.25	15934.96	-14683.95	6189.09	1690763.52	407682.95	39°36'50.9016"N	80°35'51.6626"W	15934.97	157.145	0.14	-0.13	0.05
23214.00	89.960	156.860	7628.46	16029.96	-14771.24	6226.58	1690801.01	407595.67	39°36'50.0435"N	80°35'51.1699"W	16029.96	157.143	0.29	0.19	0.22
23309.00	89.930	156.310	7628.55	16124.96	-14858.41	6264.33	1690838.76	407508.50	39°36'49.1866"N	80°35'50.6740"W	16124.96	157.140	0.58	-0.03	-0.58
23404.00	90.000	156.740	7628.61	16219.95	-14945.55	6302.18	1690876.60	407421.36	39°36'48.3300"N	80°35'50.1768"W	16219.95	157.136	0.46	0.07	0.45
23499.00	90.400	157.090	7628.28	16314.95	-15032.94	6339.43	1690913.85	407333.98	39°36'47.4709"N	80°35'49.6873"W	16314.95	157.135	0.56	0.42	0.37
23594.00	90.360	156.850	7627.65	16409.95	-15120.37	6376.59	1690951.01	407246.56	39°36'46.6114"N	80°35'49.1988"W	16409.95	157.134	0.26	-0.04	-0.25
23689.00	90.580	157.180	7626.87	16504.94	-15207.82	6413.69	1690988.10	407159.11	39°36'45.7516"N	80°35'48.7112"W	16504.95	157.133	0.42	0.23	0.35
23784.00	90.490	156.600	7625.98	16599.94	-15295.20	6450.97	1691025.39	407071.74	39°36'44.8926"N	80°35'48.2212"W	16599.94	157.132	0.62	-0.09	-0.61
23879.00	90.520	156.700	7625.15	16694.93	-15382.41	6488.62	1691063.04	406984.53	39°36'44.0353"N	80°35'47.7266"W	16694.93	157.129	0.11	0.03	0.11
23974.00	90.460	156.510	7624.33	16789.92	-15469.60	6526.34	1691100.75	406897.35	39°36'43.1782"N	80°35'47.2311"W	16789.93	157.126	0.21	-0.06	-0.20
24069.00	90.640	156.920	7623.42	16884.92	-15556.86	6563.90	1691138.30	406810.09	39°36'42.3204"N	80°35'46.7377"W	16884.92	157.124	0.47	0.19	0.43



# Actual Wellpath Report

Haggard 8H AWB Proj: 25005'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Haggard 8H
Field	Wetzel	API	47-103-03430-0000
Facility	Haggard Pad	Wellbore	Haggard 8H AWB
Slot	Slot 08		

## WELLPATH DATA (281 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]
24163.00	90.550	156.760	7622.44	16978.91	-15643.28	6600.86	1691175.27	406723.68	39°36'41.4708"N	80°35'46.2519"W	16978.91	157.122	0.20	-0.10	-0.17
24259.00	90.580	156.920	7621.50	17074.91	-15731.54	6638.62	1691213.02	406635.43	39°36'40.6032"N	80°35'45.7558"W	17074.91	157.121	0.17	0.03	0.17
24354.00	90.490	156.910	7620.61	17169.90	-15818.92	6675.87	1691250.27	406548.04	39°36'39.7440"N	80°35'45.2663"W	17169.90	157.119	0.10	-0.09	-0.01
24449.00	90.330	156.820	7619.93	17264.90	-15906.28	6713.19	1691287.59	406460.69	39°36'38.8852"N	80°35'44.7758"W	17264.90	157.118	0.19	-0.17	-0.09
24544.00	90.490	156.780	7619.25	17359.89	-15993.60	6750.61	1691325.01	406373.38	39°36'38.0268"N	80°35'44.2840"W	17359.90	157.116	0.17	0.17	-0.04
24639.00	89.840	156.140	7618.98	17454.89	-16080.69	6788.56	1691362.95	406286.29	39°36'37.1707"N	80°35'43.7857"W	17454.89	157.113	0.96	-0.68	-0.67
24734.00	89.990	156.480	7619.12	17549.88	-16167.69	6826.73	1691401.12	406199.30	39°36'36.3156"N	80°35'43.2845"W	17549.88	157.108	0.39	0.16	0.36
24830.00	90.240	156.550	7618.93	17645.87	-16255.73	6864.98	1691439.37	406111.26	39°36'35.4501"N	80°35'42.7820"W	17645.87	157.105	0.27	0.26	0.07
24925.00	89.900	156.960	7618.81	17740.87	-16343.02	6902.47	1691476.86	406023.98	39°36'34.5920"N	80°35'42.2894"W	17740.87	157.103	0.56	-0.36	0.43
24980.00	90.030	156.500	7618.84	17795.87	-16393.55	6924.20	1691498.59	405973.46	39°36'34.0953"N	80°35'42.0040"W	17795.87	157.102	0.87	0.24	-0.84
25005.00	90.030	156.500	7618.83	17820.87	-16416.47	6934.17	1691508.56	405950.53	39°36'33.8699"N	80°35'41.8730"W	17820.87	157.101	0.00	0.00	0.00

## HOLE & CASING SECTIONS - Ref Wellbore: Haggard 8H AWB Ref Wellpath: Haggard 8H AWB Proj: 25005'

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	1516.00	1488.00	28.00	1515.99	0.00	0.00	-0.25	1.40
13.375in Casing Surface	28.00	1516.00	1488.00	28.00	1515.99	0.00	0.00	-0.25	1.40
12.25in Open Hole	1516.00	2953.00	1437.00	1515.99	2952.96	-0.25	1.40	-5.14	9.75
9.625in Casing Intermediate	28.00	2953.00	2925.00	28.00	2952.96	0.00	0.00	-5.14	9.75
8.75in Open Hole	2953.00	7197.00	4244.00	2952.96	7057.66	-5.14	9.75	-727.68	-666.30
8.5in Open Hole	7197.00	25005.00	17808.00	7057.66	7618.83	-727.68	-666.30	-16416.47	6934.17
6in Casing Production	28.00	25005.00	24977.00	28.00	7618.83	0.00	0.00	-16416.47	6934.17

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# Actual Wellpath Report

Haggard 8H AWB Proj: 25005'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT PRODUCTION COMPANY	Well	Haggard 8H
Field	Wetzel	API	47-103-03430-0000
Facility	Haggard Pad	Wellbore	Haggard 8H AWB
Slot	Slot 08		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Haggard 8H AZI 1 Rev-0	7665.00	-7911.43	3326.89	1687901.50	414455.05	39°37'57.4831"N	80°36'29.2994"W	point
Haggard 8H AZI 2 Rev-0	7665.00	-8274.12	3495.30	1688069.90	414092.39	39°37'53.9194"N	80°36'27.0899"W	point
Haggard 8H BHL Rev-0	7665.00	-16416.94	6933.80	1691508.19	405950.06	39°36'33.8652"N	80°35'41.8777"W	point
Haggard 8H LP Rev-0	7665.00	-1357.29	-478.83	1684096.01	421008.79	39°39'1.7866"N	80°37'18.9830"W	point

WELLPATH COMPOSITION - Ref Wellbore: Haggard 8H AWB Ref Wellpath: Haggard 8H AWB Proj: 25005'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	1415.00	Gyrodata 2015 - CT+WIR+DPIPE	01_Gyrodata Cont. Gyro <17-1/2">(115'-1415')	Haggard 8H AWB	9/20/2023
1415.00	2936.00	Gyrodata 2015 - CT+WIR+DPIPE	02_Gyrodata Cont. Gyro <12-1/4">(1415')(1515'-2936')	Haggard 8H AWB	9/20/2023
2936.00	7117.00	OWSG MWD rev2 + IFR1 + Multi-Station Correction	03_SDI MWD +IFR1 MS <8-3/4">(2936')(2968'-7117')	Haggard 8H AWB	9/20/2023
7117.00	25005.00	OWSG MWD rev2 + IFR1 + Sag + Multi-Station Correction	04_BH Lucida+SQC IFR1+SAG FDIR<8-1/2">(7117')(7155'-24980')	Haggard 8H AWB	11/2/2023

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# Actual Wellpath Report

Haggard 8H AWB Proj: 25005'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Haggard 8H
Field	Wetzel	API	47-103-03430-0000
Facility	Haggard Pad	Wellbore	Haggard 8H AWB
Slot	Slot 08		

## COMMENTS

### Wellpath general comments

API: 47-103-03430-0000

BH Job #: 111974018

Rig: Patterson 292

Duration: 11/7/2023-11/9/2023

01\_Gyrodata Cont. Gyro <17-1/2">(115'-1415')

02\_Gyrodata Cont. Gyro <12-1/4">(1415')(1515'-2936')

03\_SD1 MWD +IFR1\_MS <8-3/4">(2936')(2968'-7117')

04\_BH Lucida+SQC IFR1+SAG\_FDIR<8-1/2">(7117')(7155'-24980')

Landing Pt. @ 8202' MD

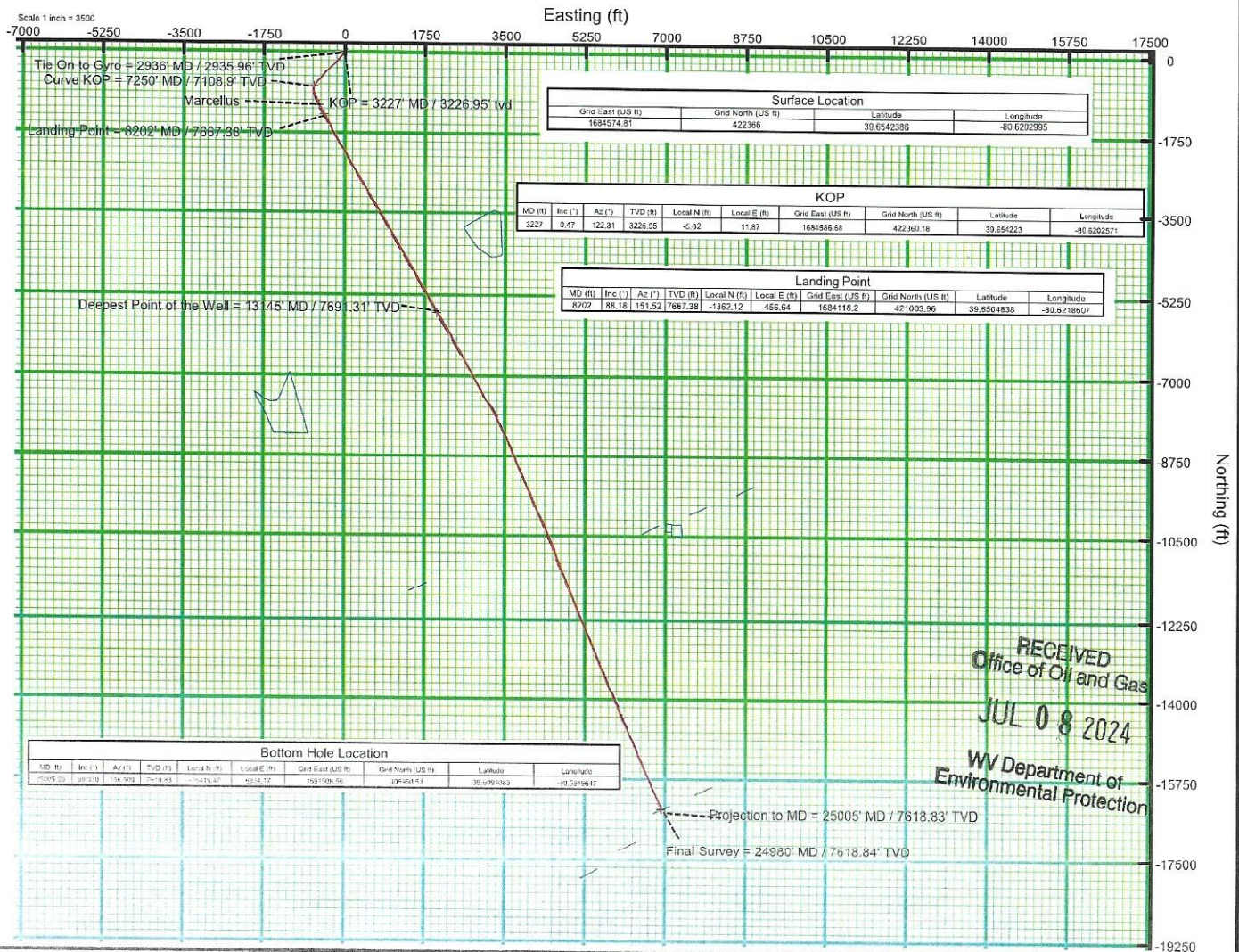
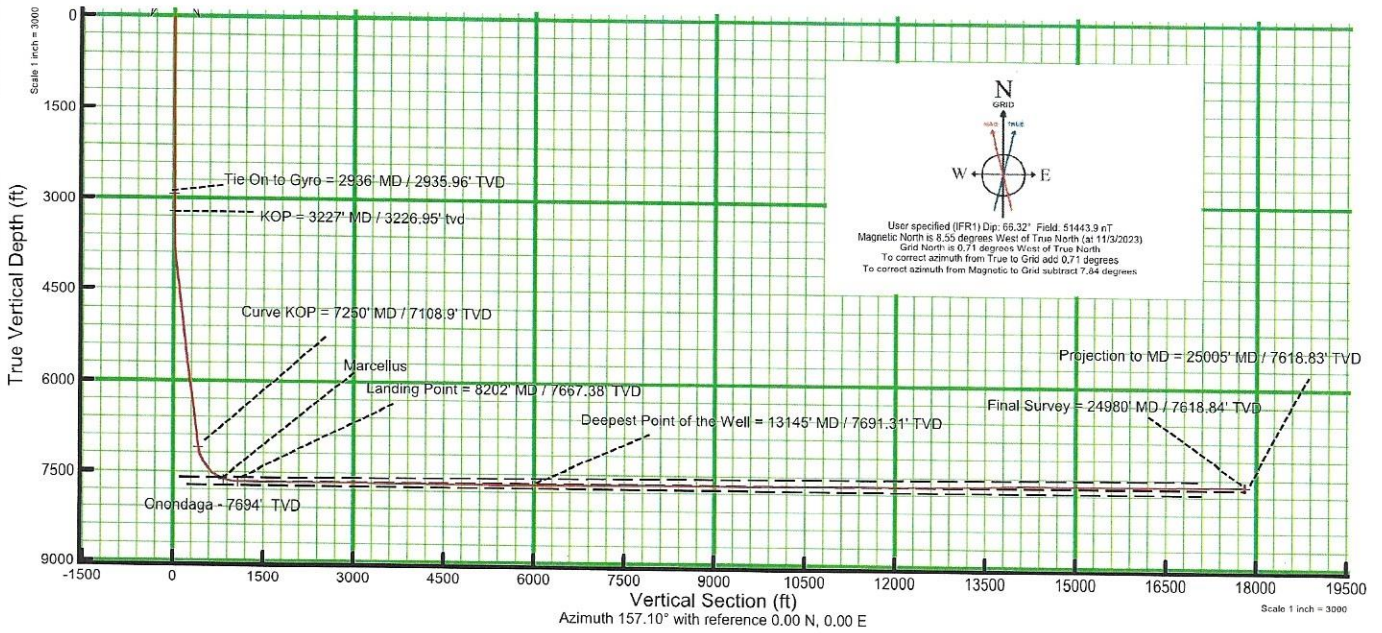
Final Survey @ 24980' MD

Projected MD at TD: 25005'

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



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