



# Planned Wellpath Report

Haggard 4H PWP Rev-A.0

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Haggard 4H
Field	Wetzel	API	47-103-03527-0000
Facility	Haggard Pad	Wellbore	Haggard 4H PWB
Slot	Slot 04		

## 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	10/30/2023 at 3:45:43 PM
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	11.42	9.73	1684555.36	422343.17	39°39'15.0309"N	80°37'13.3233"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 04)	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	163.20°

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## WELLPATH DATA (288 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	155.430	0.00	0.00	0.00	0.00	1684555.36	422343.17	39°39'15.0309"N	80°37'13.3233"W	0.00	0.000	0.00	0.00	0.00
28.00	0.000	155.430	28.00	0.00	0.00	0.00	1684555.36	422343.17	39°39'15.0309"N	80°37'13.3233"W	0.00	0.000	0.00	0.00	0.00
115.00	0.500	155.430	115.00	0.38	-0.35	0.16	1684555.52	422342.82	39°39'15.0275"N	80°37'13.3212"W	0.38	155.430	0.57	0.57	0.00
215.00	0.540	157.320	214.99	1.28	-1.18	0.52	1684555.88	422341.99	39°39'15.0193"N	80°37'13.3165"W	1.29	156.122	0.04	0.04	1.89
315.00	0.550	158.450	314.99	2.22	-2.06	0.88	1684556.24	422341.11	39°39'15.0106"N	80°37'13.3117"W	2.24	156.873	0.01	0.01	1.13
415.00	0.480	175.350	414.99	3.11	-2.92	1.09	1684556.45	422340.25	39°39'15.0021"N	80°37'13.3089"W	3.12	159.556	0.17	-0.07	16.90
515.00	0.510	175.550	514.98	3.96	-3.78	1.16	1684556.52	422339.39	39°39'14.9936"N	80°37'13.3079"W	3.96	162.985	0.03	0.03	0.20
615.00	0.380	175.360	614.98	4.72	-4.56	1.22	1684556.58	422338.61	39°39'14.9860"N	80°37'13.3070"W	4.72	165.025	0.13	-0.13	-0.19
715.00	0.390	176.800	714.98	5.37	-5.23	1.26	1684556.62	422337.94	39°39'14.9794"N	80°37'13.3063"W	5.38	166.398	0.01	0.01	1.44
815.00	0.390	176.880	814.97	6.03	-5.91	1.30	1684556.66	422337.26	39°39'14.9726"N	80°37'13.3057"W	6.05	167.567	0.00	0.00	0.08
915.00	0.350	177.850	914.97	6.66	-6.55	1.33	1684556.69	422336.62	39°39'14.9663"N	80°37'13.3052"W	6.69	168.506	0.04	-0.04	0.97
1015.00	0.350	171.020	1014.97	7.26	-7.16	1.39	1684556.75	422336.01	39°39'14.9603"N	80°37'13.3044"W	7.29	169.001	0.04	0.00	-6.83
1115.00	0.340	171.390	1114.97	7.85	-7.75	1.48	1684556.84	422335.42	39°39'14.9544"N	80°37'13.3031"W	7.90	169.169	0.01	-0.01	0.37
1215.00	0.220	175.140	1214.97	8.33	-8.24	1.54	1684556.90	422334.93	39°39'14.9496"N	80°37'13.3023"W	8.38	169.384	0.12	-0.12	3.75
1315.00	0.150	128.270	1314.97	8.63	-8.51	1.66	1684557.02	422334.66	39°39'14.9470"N	80°37'13.3007"W	8.67	168.942	0.16	-0.07	-46.87
1415.00	0.180	127.230	1414.97	8.86	-8.69	1.89	1684557.25	422334.48	39°39'14.9452"N	80°37'13.2977"W	8.89	167.719	0.03	0.03	-1.04
1515.00	0.200	126.940	1514.97	9.13	-8.89	2.16	1684557.52	422334.28	39°39'14.9433"N	80°37'13.2943"W	9.15	166.366	0.02	0.02	-0.29
1615.00	0.210	123.610	1614.97	9.41	-9.09	2.45	1684557.81	422334.08	39°39'14.9413"N	80°37'13.2906"W	9.42	164.934	0.02	0.01	-3.33
1715.00	0.220	124.630	1714.97	9.70	-9.30	2.76	1684558.12	422333.87	39°39'14.9393"N	80°37'13.2866"W	9.70	163.486	0.01	0.01	1.02
1815.00	0.220	130.410	1814.96	10.02	-9.54	3.06	1684558.42	422333.63	39°39'14.9370"N	80°37'13.2826"W	10.02	162.198	0.02	0.00	5.78
1915.00	0.180	123.820	1914.96	10.30	-9.75	3.34	1684558.70	422333.42	39°39'14.9349"N	80°37'13.2791"W	10.31	161.094	0.05	-0.04	-6.59
2015.00	0.210	125.980	2014.96	10.57	-9.94	3.62	1684558.98	422333.23	39°39'14.9330"N	80°37'13.2755"W	10.58	160.008	0.03	0.03	2.16
2115.00	0.270	106.870	2114.96	10.84	-10.12	3.99	1684559.35	422333.05	39°39'14.9313"N	80°37'13.2707"W	10.88	158.475	0.10	0.06	-19.11
2215.00	0.340	98.530	2214.96	11.10	-10.23	4.51	1684559.87	422332.94	39°39'14.9303"N	80°37'13.2640"W	11.18	156.212	0.08	0.07	-8.34
2315.00	0.530	112.250	2314.96	11.52	-10.45	5.23	1684560.59	422332.72	39°39'14.9282"N	80°37'13.2548"W	11.69	153.408	0.22	0.19	13.72
2415.00	0.510	118.740	2414.95	12.13	-10.84	6.05	1684561.41	422332.33	39°39'14.9245"N	80°37'13.2442"W	12.42	150.834	0.06	-0.02	6.49
2515.00	0.460	130.900	2514.95	12.78	-11.32	6.74	1684562.10	422331.85	39°39'14.9198"N	80°37'13.2353"W	13.18	149.211	0.11	-0.05	12.16
2615.00	0.530	124.830	2614.95	13.49	-11.85	7.43	1684562.79	422331.33	39°39'14.9147"N	80°37'13.2265"W	13.98	147.911	0.09	0.07	-6.07
2715.00	0.440	123.530	2714.94	14.14	-12.32	8.13	1684563.49	422330.85	39°39'14.9101"N	80°37'13.2175"W	14.76	146.592	0.09	-0.09	-1.30
2815.00	0.290	96.730	2814.94	14.54	-12.56	8.70	1684564.06	422330.61	39°39'14.9078"N	80°37'13.2101"W	15.28	145.303	0.22	-0.15	-26.80

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Facility	Haggard Pad	Wellbore	Haggard 4H PWB
Slot	Slot 04		

## WELLPATH DATA (288 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]
2891.00	0.500	99.550	2890.94	14.77	-12.64	9.22	1684564.58	422330.53	39°39'14.9071"N	80°37'13.2035"W	15.64	143.904	0.28	0.28	3.71
2976.00	0.320	84.540	2975.94	14.98	-12.68	9.82	1684565.18	422330.49	39°39'14.9068"N	80°37'13.1958"W	16.04	142.248	0.24	-0.21	-17.66
3019.00	0.240	86.720	3018.94	15.02	-12.66	10.03	1684565.39	422330.51	39°39'14.9070"N	80°37'13.1931"W	16.15	141.625	0.19	-0.19	5.07
3062.00	0.500	198.800	3061.94	15.19	-12.84	10.06	1684565.42	422330.34	39°39'14.9053"N	80°37'13.1927"W	16.31	141.920	1.47	0.60	260.65
3105.00	2.310	208.630	3104.92	15.96	-13.77	9.58	1684564.94	422329.40	39°39'14.8959"N	80°37'13.1986"W	16.78	145.176	4.23	4.21	22.86
3148.00	3.820	210.630	3147.86	17.53	-15.77	8.44	1684563.80	422327.40	39°39'14.8761"N	80°37'13.2129"W	17.88	151.850	3.52	3.51	4.65
3192.00	5.430	212.220	3191.71	19.89	-18.79	6.58	1684561.94	422324.38	39°39'14.8460"N	80°37'13.2362"W	19.91	160.701	3.67	3.66	3.61
3235.00	7.200	215.970	3234.45	22.85	-22.69	3.91	1684559.27	422320.48	39°39'14.8071"N	80°37'13.2697"W	23.03	170.219	4.22	4.12	8.72
3278.00	8.920	217.320	3277.03	26.44	-27.52	0.31	1684555.67	422315.65	39°39'14.7589"N	80°37'13.3150"W	27.53	179.359	4.02	4.00	3.14
3321.00	10.400	218.760	3319.41	30.59	-33.20	-4.14	1684551.22	422309.97	39°39'14.7022"N	80°37'13.3710"W	33.46	187.113	3.49	3.44	3.35
3364.00	11.770	219.130	3361.61	35.24	-39.63	-9.34	1684546.02	422303.54	39°39'14.6381"N	80°37'13.4364"W	40.72	193.263	3.19	3.19	0.86
3407.00	12.790	219.860	3403.63	40.31	-46.69	-15.16	1684540.20	422296.49	39°39'14.5676"N	80°37'13.5097"W	49.09	197.989	2.40	2.37	1.70
3451.00	13.750	219.670	3446.45	45.88	-54.45	-21.62	1684533.74	422288.72	39°39'14.4901"N	80°37'13.5910"W	58.59	201.655	2.18	2.18	-0.43
3537.00	15.940	224.200	3529.58	57.25	-70.79	-36.38	1684518.98	422272.39	39°39'14.3268"N	80°37'13.7771"W	79.59	207.200	2.88	2.55	5.27
3624.00	18.420	227.350	3612.69	69.04	-88.67	-54.82	1684500.54	422254.51	39°39'14.1479"N	80°37'14.0100"W	104.25	211.727	3.04	2.85	3.62
3710.00	20.700	227.600	3693.72	81.53	-108.12	-76.04	1684479.32	422235.05	39°39'13.9530"N	80°37'14.2782"W	132.19	215.118	2.65	2.65	0.29
3796.00	23.220	226.620	3773.48	95.69	-130.02	-99.59	1684455.78	422213.16	39°39'13.7337"N	80°37'14.5757"W	163.78	217.451	2.96	2.93	-1.14
3882.00	25.410	225.860	3851.84	111.75	-154.52	-125.16	1684430.21	422188.66	39°39'13.4884"N	80°37'14.8987"W	198.85	219.007	2.57	2.55	-0.88
3969.00	27.960	225.810	3929.57	129.71	-181.74	-153.18	1684402.19	422161.44	39°39'13.2160"N	80°37'15.2526"W	237.68	220.127	2.93	2.93	-0.06
4055.00	30.050	226.540	4004.78	148.65	-210.60	-183.27	1684372.10	422132.58	39°39'12.9270"N	80°37'15.6326"W	279.18	221.030	2.46	2.43	0.85
4142.00	32.420	227.260	4079.17	168.63	-241.42	-216.21	1684339.16	422101.77	39°39'12.6184"N	80°37'16.0489"W	324.09	221.847	2.76	2.72	0.83
4228.00	34.830	228.070	4150.77	189.14	-273.48	-251.42	1684303.95	422069.71	39°39'12.2972"N	80°37'16.4939"W	371.49	222.593	2.85	2.80	0.94
4314.00	37.490	229.930	4220.20	209.92	-306.75	-289.73	1684265.65	422036.44	39°39'11.9638"N	80°37'16.9783"W	421.94	223.366	3.35	3.09	2.16
4401.00	40.440	232.370	4287.84	230.42	-341.03	-332.35	1684223.03	422002.17	39°39'11.6197"N	80°37'17.5176"W	476.19	224.262	3.82	3.39	2.80
4479.00	42.370	233.410	4346.35	248.31	-372.14	-373.49	1684181.89	421971.05	39°39'11.3072"N	80°37'18.0386"W	527.24	225.104	2.63	2.47	1.33
4565.00	44.300	232.470	4408.90	268.76	-407.71	-420.58	1684134.81	421935.48	39°39'10.9498"N	80°37'18.6349"W	585.76	225.890	2.37	2.24	-1.09
4651.00	44.780	232.510	4470.19	290.09	-444.44	-468.43	1684086.96	421898.75	39°39'10.5810"N	80°37'19.2407"W	645.72	226.505	0.56	0.56	0.05
4737.00	38.920	232.140	4534.23	310.52	-479.49	-513.83	1684041.56	421863.71	39°39'10.2290"N	80°37'19.8155"W	702.80	226.980	6.82	-6.81	-0.43
4823.00	38.730	231.540	4601.23	330.15	-512.80	-556.22	1683999.17	421830.40	39°39'9.8946"N	80°37'20.3522"W	756.54	227.326	0.49	-0.22	-0.70
4909.00	38.340	229.180	4668.50	350.94	-546.97	-597.48	1683957.92	421796.23	39°39'9.5518"N	80°37'20.8741"W	810.03	227.527	1.77	-0.45	-2.74





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4996.00	36.680	226.910	4737.51	373.44	-582.37	-636.88	1683918.52	421760.84	39°39'9.1972"N	80°37'21.3721"W	863.00	227.560	2.48	-1.91	-2.61
5082.00	36.500	228.050	4806.57	395.69	-617.01	-674.66	1683880.74	421726.20	39°39'8.8501"N	80°37'21.8496"W	914.26	227.555	0.82	-0.21	1.33
5169.00	36.000	226.350	4876.73	418.23	-651.96	-712.40	1683843.00	421691.25	39°39'8.5001"N	80°37'22.3265"W	965.70	227.537	1.29	-0.57	-1.95
5255.00	36.290	226.210	4946.18	441.20	-687.02	-749.06	1683806.34	421656.20	39°39'8.1491"N	80°37'22.7896"W	1016.41	227.474	0.35	0.34	-0.16
5341.00	37.480	226.030	5014.96	464.70	-722.80	-786.27	1683769.14	421620.42	39°39'7.7909"N	80°37'23.2595"W	1068.01	227.409	1.39	1.38	-0.21
5428.00	37.390	226.630	5084.04	488.60	-759.31	-824.52	1683730.89	421583.90	39°39'7.4253"N	80°37'23.7426"W	1120.89	227.358	0.43	-0.10	0.69
5514.00	36.070	227.310	5152.97	511.34	-794.41	-862.11	1683693.30	421548.81	39°39'7.0738"N	80°37'24.2176"W	1172.32	227.340	1.61	-1.53	0.79
5600.00	35.760	228.790	5222.62	532.78	-828.13	-899.63	1683655.79	421515.09	39°39'6.7360"N	80°37'24.6918"W	1222.76	227.370	1.07	-0.36	1.72
5687.00	37.540	227.730	5292.42	554.68	-862.71	-938.37	1683617.05	421480.51	39°39'6.3894"N	80°37'25.1815"W	1274.68	227.405	2.17	2.05	-1.22
5773.00	39.510	226.950	5359.69	578.05	-899.01	-977.75	1683577.67	421444.21	39°39'6.0258"N	80°37'25.6792"W	1328.24	227.402	2.36	2.29	-0.91
5859.00	40.710	229.230	5425.47	601.55	-936.01	-1018.99	1683536.43	421407.22	39°39'5.6552"N	80°37'26.2004"W	1383.63	227.431	2.21	1.40	2.65
5946.00	38.380	232.410	5492.56	622.67	-971.02	-1061.89	1683493.54	421372.21	39°39'5.3039"N	80°37'26.7432"W	1438.91	227.559	3.55	-2.68	3.66
6032.00	37.730	234.240	5560.28	640.70	-1002.68	-1104.40	1683451.03	421340.55	39°39'4.9857"N	80°37'27.2815"W	1491.66	227.764	1.51	-0.76	2.13
6119.00	38.970	233.440	5628.51	658.59	-1034.54	-1147.97	1683407.46	421308.70	39°39'4.6655"N	80°37'27.8335"W	1545.35	227.975	1.54	1.43	-0.92
6205.00	39.040	231.820	5695.34	677.61	-1067.39	-1190.99	1683364.45	421275.85	39°39'4.3355"N	80°37'28.3781"W	1599.30	228.133	1.19	0.08	-1.88
6291.00	39.500	230.260	5761.92	698.15	-1101.61	-1233.31	1683322.13	421241.62	39°39'3.9920"N	80°37'28.9137"W	1653.67	228.228	1.27	0.53	-1.81
6378.00	38.750	229.610	5829.41	719.83	-1136.95	-1275.32	1683280.11	421206.29	39°39'3.6377"N	80°37'29.4451"W	1708.54	228.283	0.98	-0.86	-0.75
6464.00	39.020	230.900	5896.36	740.87	-1171.46	-1316.83	1683238.61	421171.78	39°39'3.2914"N	80°37'29.9702"W	1762.49	228.344	0.99	0.31	1.50
6550.00	39.750	231.350	5962.82	761.38	-1205.71	-1359.32	1683196.12	421137.53	39°39'2.9477"N	80°37'30.5078"W	1817.00	228.427	0.91	0.85	0.52
6637.00	39.870	231.880	6029.66	781.87	-1240.30	-1402.98	1683152.47	421102.95	39°39'2.6005"N	80°37'31.0604"W	1872.62	228.522	0.41	0.14	0.61
6723.00	38.680	232.360	6096.23	801.46	-1273.73	-1445.95	1683109.50	421069.52	39°39'2.2649"N	80°37'31.6044"W	1926.95	228.623	1.43	-1.38	0.56
6810.00	38.670	232.070	6164.15	820.93	-1307.04	-1488.91	1683066.54	421036.21	39°39'1.9304"N	80°37'32.1483"W	1981.21	228.722	0.21	-0.01	-0.33
6896.00	39.530	231.590	6230.89	840.69	-1340.56	-1531.55	1683023.90	421002.70	39°39'1.5938"N	80°37'32.6880"W	2035.37	228.805	1.06	1.00	-0.56
6982.00	39.590	231.300	6297.19	860.99	-1374.69	-1574.39	1682981.07	420968.56	39°39'1.2512"N	80°37'33.2301"W	2090.09	228.874	0.23	0.07	-0.34
7064.00	38.430	230.290	6360.91	880.66	-1407.31	-1614.38	1682941.07	420935.94	39°39'0.9238"N	80°37'33.7361"W	2141.67	228.920	1.61	-1.41	-1.23
7145.00	38.430	230.290	6424.36	900.26	-1439.48	-1653.11	1682902.35	420903.78	39°39'0.6012"N	80°37'34.2261"W	2192.01	228.952	0.00	0.00	0.00
7164.00†	39.548	229.932	6439.13	904.95	-1447.15	-1662.29	1682893.18	420896.11	39°39'0.5243"N	80°37'34.3421"W	2203.96	228.958	6.00	5.88	-1.88
7187.74	40.945	229.508	6457.25	911.06	-1457.06	-1673.99	1682881.48	420886.20	39°39'0.4248"N	80°37'34.4901"W	2219.29	228.963	6.00	5.89	-1.79
7264.00†	40.945	229.508	6514.85	931.14	-1489.51	-1711.99	1682843.47	420853.75	39°39'0.0994"N	80°37'34.9707"W	2269.27	228.975	0.00	0.00	0.00
7364.00†	40.945	229.508	6590.38	957.48	-1532.07	-1761.83	1682793.64	420811.20	39°38'59.6727"N	80°37'35.6010"W	2334.80	228.990	0.00	0.00	0.00

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# Planned Wellpath Report

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Haggard 4H
Field	Wetzel	API	47-103-03527-0000
Facility	Haggard Pad	Wellbore	Haggard 4H PWB
Slot	Slot 04		

## WELLPATH DATA (288 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]
7464.00†	40.945	229.508	6665.92	983.81	-1574.62	-1811.67	1682743.80	420768.64	39°38'59.2460"N	80°37'36.2313"W	2400.33	229.004	0.00	0.00	0.00
7564.00†	40.945	229.508	6741.45	1010.14	-1617.18	-1861.51	1682693.96	420726.09	39°38'58.8193"N	80°37'36.8616"W	2465.86	229.018	0.00	0.00	0.00
7664.00†	40.945	229.508	6816.98	1036.48	-1659.73	-1911.35	1682644.13	420683.54	39°38'58.3926"N	80°37'37.4918"W	2531.39	229.030	0.00	0.00	0.00
7764.00†	40.945	229.508	6892.52	1062.81	-1702.28	-1961.19	1682594.29	420640.99	39°38'57.9659"N	80°37'38.1221"W	2596.93	229.042	0.00	0.00	0.00
7864.00†	40.945	229.508	6968.05	1089.14	-1744.84	-2011.03	1682544.46	420598.44	39°38'57.5392"N	80°37'38.7524"W	2662.46	229.054	0.00	0.00	0.00
7964.00†	40.945	229.508	7043.58	1115.47	-1787.39	-2060.86	1682494.62	420555.89	39°38'57.1125"N	80°37'39.3826"W	2727.99	229.065	0.00	0.00	0.00
8064.00†	40.945	229.508	7119.12	1141.81	-1829.94	-2110.70	1682444.79	420513.34	39°38'56.6858"N	80°37'40.0129"W	2793.52	229.075	0.00	0.00	0.00
8158.51	40.945	229.508	7190.50	1166.70	-1870.16	-2157.81	1682397.69	420473.12	39°38'56.2825"N	80°37'40.6086"W	2855.46	229.085	0.00	0.00	0.00
8164.00†	40.881	228.760	7194.65	1168.16	-1872.51	-2160.52	1682394.97	420470.77	39°38'56.2589"N	80°37'40.6429"W	2859.05	229.085	9.00	-1.18	-13.62
8264.00†	40.568	214.955	7270.60	1201.90	-1920.84	-2203.85	1682351.64	420422.45	39°38'55.7760"N	80°37'41.1890"W	2923.45	228.925	9.00	-0.31	-13.81
8364.00†	41.884	201.426	7345.96	1248.35	-1978.68	-2234.74	1682320.76	420364.61	39°38'55.2005"N	80°37'41.5746"W	2984.83	228.478	9.00	1.32	-13.53
8464.00†	44.682	188.930	7418.88	1306.36	-2044.62	-2252.43	1682303.07	420298.67	39°38'54.5466"N	80°37'41.7901"W	3042.02	227.769	9.00	2.80	-12.50
8564.00†	48.697	177.844	7487.58	1374.52	-2117.04	-2256.48	1682299.02	420226.26	39°38'53.8305"N	80°37'41.8303"W	3094.12	226.826	9.00	4.02	-11.09
8592.01	50.000	175.000	7505.82	1395.20	-2138.24	-2255.15	1682300.35	420205.06	39°38'53.6211"N	80°37'41.8099"W	3107.70	226.524	9.00	4.65	-10.16
8664.00†	55.907	169.838	7549.20	1451.88	-2195.13	-2247.48	1682308.02	420148.17	39°38'53.0599"N	80°37'41.7027"W	3141.61	225.675	10.00	8.21	-7.17
8764.00†	64.411	163.759	7598.95	1538.32	-2279.40	-2227.51	1682327.99	420063.91	39°38'52.2296"N	80°37'41.4339"W	3187.07	224.340	10.00	8.50	-6.08
8864.00†	73.131	158.501	7635.14	1631.34	-2367.44	-2197.28	1682358.21	419975.88	39°38'51.3633"N	80°37'41.0334"W	3229.98	222.865	10.00	8.72	-5.26
8964.00†	81.974	153.713	7656.69	1728.10	-2456.57	-2157.72	1682397.77	419886.75	39°38'50.4874"N	80°37'40.5134"W	3269.63	221.294	10.00	8.84	-4.79
9054.23	90.000	149.576	7663.00†	1816.20	-2535.70	-2115.00	1682440.49	419807.63	39°38'49.7108"N	80°37'39.9546"W	3301.96	219.831	10.00	8.89	-4.58
9064.00†	90.000	149.283	7663.00	1825.68	-2544.10	-2110.03	1682445.46	419799.22	39°38'49.6283"N	80°37'39.8897"W	3305.25	219.672	3.00	0.00	-3.00
9146.22	90.000	146.816	7663.00	1905.04	-2613.86	-2066.53	1682488.96	419729.47	39°38'48.9443"N	80°37'39.3224"W	3332.09	218.330	3.00	0.00	-3.00
9164.00†	90.000	146.816	7663.00	1922.10	-2628.74	-2056.79	1682498.69	419714.59	39°38'48.7984"N	80°37'39.1956"W	3337.77	218.041	0.00	0.00	0.00
9264.00†	90.000	146.816	7663.00	2018.04	-2712.44	-2002.06	1682553.42	419630.90	39°38'47.9782"N	80°37'38.4826"W	3371.28	216.431	0.00	0.00	0.00
9364.00†	90.000	146.816	7663.00	2113.98	-2796.13	-1947.33	1682608.15	419547.21	39°38'47.1579"N	80°37'37.7695"W	3407.41	214.855	0.00	0.00	0.00
9464.00†	90.000	146.816	7663.00	2209.91	-2879.82	-1892.60	1682662.88	419463.53	39°38'46.3376"N	80°37'37.0565"W	3446.05	213.313	0.00	0.00	0.00
9564.00†	90.000	146.816	7663.00	2305.85	-2963.51	-1837.87	1682717.61	419379.84	39°38'45.5173"N	80°37'36.3435"W	3487.14	211.806	0.00	0.00	0.00
9664.00†	90.000	146.816	7663.00	2401.79	-3047.20	-1783.13	1682772.34	419296.15	39°38'44.6970"N	80°37'35.6304"W	3530.58	210.335	0.00	0.00	0.00
9700.12	90.000	146.816	7663.00	2436.45	-3077.44	-1763.36	1682792.11	419265.92	39°38'44.4007"N	80°37'35.3728"W	3546.84	209.813	0.00	0.00	0.00
9764.00†	90.000	148.733	7663.00	2498.02	-3131.47	-1729.30	1682826.16	419211.89	39°38'43.8709"N	80°37'34.9288"W	3577.23	208.909	3.00	0.00	3.00
9801.44	90.000	149.856	7663.00	2534.37	-3163.66	-1710.18	1682845.28	419179.70	39°38'43.5552"N	80°37'34.6793"W	3596.32	208.394	3.00	0.00	3.00





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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Haggard 4H
Field	Wetzel	API	47-103-03527-0000
Facility	Haggard Pad	Wellbore	Haggard 4H PWB
Slot	Slot 04		

## WELLPATH DATA (288 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]
9864.00†	90.000	149.856	7663.00	2595.23	-3217.76	-1678.77	1682876.69	419125.61	39°38'43.0244"N	80°37'34.2690"W	3629.36	207.552	0.00	0.00	0.00
9964.00†	90.000	149.856	7663.00	2692.53	-3304.24	-1628.55	1682926.91	419039.13	39°38'42.1761"N	80°37'33.6133"W	3683.77	206.237	0.00	0.00	0.00
10064.00†	90.000	149.856	7663.00	2789.83	-3390.71	-1578.33	1682977.12	418952.66	39°38'41.3277"N	80°37'32.9575"W	3740.06	204.961	0.00	0.00	0.00
10164.00†	90.000	149.856	7663.00	2887.13	-3477.19	-1528.12	1683027.34	418866.19	39°38'40.4793"N	80°37'32.3018"W	3798.16	203.724	0.00	0.00	0.00
10264.00†	90.000	149.856	7663.00	2984.43	-3563.67	-1477.90	1683077.55	418779.72	39°38'39.6310"N	80°37'31.6460"W	3857.97	202.524	0.00	0.00	0.00
10364.00†	90.000	149.856	7663.00	3081.73	-3650.14	-1427.68	1683127.77	418693.25	39°38'38.7826"N	80°37'30.9903"W	3919.42	201.362	0.00	0.00	0.00
10464.00†	90.000	149.856	7663.00	3179.03	-3736.62	-1377.46	1683177.98	418606.78	39°38'37.9342"N	80°37'30.3346"W	3982.43	200.236	0.00	0.00	0.00
10564.00†	90.000	149.856	7663.00	3276.33	-3823.10	-1327.25	1683228.20	418520.31	39°38'37.0858"N	80°37'29.6788"W	4046.93	199.145	0.00	0.00	0.00
10664.00†	90.000	149.856	7663.00	3373.63	-3909.57	-1277.03	1683278.41	418433.84	39°38'36.2374"N	80°37'29.0231"W	4112.85	198.089	0.00	0.00	0.00
10764.00†	90.000	149.856	7663.00	3470.93	-3996.05	-1226.81	1683328.62	418347.36	39°38'35.3891"N	80°37'28.3674"W	4180.13	197.067	0.00	0.00	0.00
10864.00†	90.000	149.856	7663.00	3568.23	-4082.53	-1176.59	1683378.84	418260.89	39°38'34.5407"N	80°37'27.7117"W	4248.69	196.077	0.00	0.00	0.00
10964.00†	90.000	149.856	7663.00	3665.53	-4169.00	-1126.38	1683429.05	418174.42	39°38'33.6923"N	80°37'27.0560"W	4318.48	195.119	0.00	0.00	0.00
11064.00†	90.000	149.856	7663.00	3762.83	-4255.48	-1076.16	1683479.27	418087.95	39°38'32.8439"N	80°37'26.4003"W	4389.44	194.192	0.00	0.00	0.00
11164.00†	90.000	149.856	7663.00	3860.13	-4341.96	-1025.94	1683529.48	418001.48	39°38'31.9955"N	80°37'25.7446"W	4461.52	193.294	0.00	0.00	0.00
11264.00†	90.000	149.856	7663.00	3957.43	-4428.43	-975.72	1683579.70	417915.01	39°38'31.1472"N	80°37'25.0889"W	4534.65	192.426	0.00	0.00	0.00
11364.00†	90.000	149.856	7663.00	4054.73	-4514.91	-925.51	1683629.91	417828.54	39°38'30.2988"N	80°37'24.4332"W	4608.79	191.585	0.00	0.00	0.00
11464.00†	90.000	149.856	7663.00	4152.03	-4601.39	-875.29	1683680.13	417742.06	39°38'29.4504"N	80°37'23.7775"W	4683.90	190.770	0.00	0.00	0.00
11564.00†	90.000	149.856	7663.00	4249.33	-4687.86	-825.07	1683730.34	417655.59	39°38'28.6020"N	80°37'23.1218"W	4759.92	189.982	0.00	0.00	0.00
11664.00†	90.000	149.856	7663.00	4346.63	-4774.34	-774.85	1683780.55	417569.12	39°38'27.7536"N	80°37'22.4661"W	4836.81	189.218	0.00	0.00	0.00
11764.00†	90.000	149.856	7663.00	4443.93	-4860.82	-724.64	1683830.77	417482.65	39°38'26.9052"N	80°37'21.8104"W	4914.53	188.479	0.00	0.00	0.00
11864.00†	90.000	149.856	7663.00	4541.23	-4947.29	-674.42	1683880.98	417396.18	39°38'26.0568"N	80°37'21.1548"W	4993.05	187.763	0.00	0.00	0.00
11964.00†	90.000	149.856	7663.00	4638.53	-5033.77	-624.20	1683931.20	417309.71	39°38'25.2084"N	80°37'20.4991"W	5072.32	187.069	0.00	0.00	0.00
12064.00†	90.000	149.856	7663.00	4735.83	-5120.25	-573.98	1683981.41	417223.24	39°38'24.3601"N	80°37'19.8434"W	5152.32	186.396	0.00	0.00	0.00
12164.00†	90.000	149.856	7663.00	4833.13	-5206.72	-523.77	1684031.63	417136.77	39°38'23.5117"N	80°37'19.1878"W	5233.00	185.744	0.00	0.00	0.00
12264.00†	90.000	149.856	7663.00	4930.43	-5293.20	-473.55	1684081.84	417050.29	39°38'22.6633"N	80°37'18.5321"W	5314.34	185.112	0.00	0.00	0.00
12364.00†	90.000	149.856	7663.00	5027.73	-5379.68	-423.33	1684132.06	416963.82	39°38'21.8149"N	80°37'17.8765"W	5396.31	184.499	0.00	0.00	0.00
12464.00†	90.000	149.856	7663.00	5125.03	-5466.15	-373.11	1684182.27	416877.35	39°38'20.9665"N	80°37'17.2208"W	5478.87	183.905	0.00	0.00	0.00
12564.00†	90.000	149.856	7663.00	5222.33	-5552.63	-322.90	1684232.48	416790.88	39°38'20.1181"N	80°37'16.5652"W	5562.01	183.328	0.00	0.00	0.00
12664.00†	90.000	149.856	7663.00	5319.63	-5639.11	-272.68	1684282.70	416704.41	39°38'19.2697"N	80°37'15.9096"W	5645.69	182.768	0.00	0.00	0.00
12764.00†	90.000	149.856	7663.00	5416.93	-5725.58	-222.46	1684332.91	416617.94	39°38'18.4213"N	80°37'15.2539"W	5729.90	182.225	0.00	0.00	0.00

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Haggard 4H
Field	Wetzel	API	47-103-03527-0000
Facility	Haggard Pad	Wellbore	Haggard 4H PWB
Slot	Slot 04		

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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]
12864.00†	90.000	149.856	7663.00	5514.23	-5812.06	-172.24	1684383.13	416531.47	39°38'17.5729"N	80°37'14.5983"W	5814.61	181.697	0.00	0.00	0.00
12964.00†	90.000	149.856	7663.00	5611.53	-5898.54	-122.03	1684433.34	416445.00	39°38'16.7245"N	80°37'13.9427"W	5899.80	181.185	0.00	0.00	0.00
13064.00†	90.000	149.856	7663.00	5708.83	-5985.01	-71.81	1684483.56	416358.52	39°38'15.8761"N	80°37'13.2871"W	5985.44	180.687	0.00	0.00	0.00
13164.00†	90.000	149.856	7663.00	5806.13	-6071.49	-21.59	1684533.77	416272.05	39°38'15.0277"N	80°37'12.6315"W	6071.53	180.204	0.00	0.00	0.00
13264.00†	90.000	149.856	7663.00	5903.43	-6157.97	28.63	1684583.99	416185.58	39°38'14.1793"N	80°37'11.9758"W	6158.03	179.734	0.00	0.00	0.00
13364.00†	90.000	149.856	7663.00	6000.73	-6244.44	78.84	1684634.20	416099.11	39°38'13.3309"N	80°37'11.3202"W	6244.94	179.277	0.00	0.00	0.00
13464.00†	90.000	149.856	7663.00	6098.03	-6330.92	129.06	1684684.41	416012.64	39°38'12.4825"N	80°37'10.6646"W	6332.23	178.832	0.00	0.00	0.00
13564.00†	90.000	149.856	7663.00	6195.33	-6417.40	179.28	1684734.63	415926.17	39°38'11.6340"N	80°37'10.0090"W	6419.90	178.400	0.00	0.00	0.00
13664.00†	90.000	149.856	7663.00	6292.63	-6503.87	229.50	1684784.84	415839.70	39°38'10.7856"N	80°37'9.3535"W	6507.92	177.979	0.00	0.00	0.00
13764.00†	90.000	149.856	7663.00	6389.93	-6590.35	279.71	1684835.06	415753.22	39°38'9.9372"N	80°37'8.6979"W	6596.28	177.570	0.00	0.00	0.00
13864.00†	90.000	149.856	7663.00	6487.23	-6676.82	329.93	1684885.27	415666.75	39°38'9.0888"N	80°37'8.0423"W	6684.97	177.171	0.00	0.00	0.00
13964.00†	90.000	149.856	7663.00	6584.53	-6763.30	380.15	1684935.49	415580.28	39°38'8.2404"N	80°37'7.3867"W	6773.98	176.783	0.00	0.00	0.00
14064.00†	90.000	149.856	7663.00	6681.83	-6849.78	430.37	1684985.70	415493.81	39°38'7.3920"N	80°37'6.7311"W	6863.28	176.405	0.00	0.00	0.00
14164.00†	90.000	149.856	7663.00	6779.13	-6936.25	480.58	1685035.92	415407.34	39°38'6.5436"N	80°37'6.0756"W	6952.88	176.037	0.00	0.00	0.00
14264.00†	90.000	149.856	7663.00	6876.43	-7022.73	530.80	1685086.13	415320.87	39°38'5.6952"N	80°37'5.4200"W	7042.76	175.678	0.00	0.00	0.00
14364.00†	90.000	149.856	7663.00	6973.73	-7109.21	581.02	1685136.34	415234.40	39°38'4.8467"N	80°37'4.7644"W	7132.91	175.328	0.00	0.00	0.00
14464.00†	90.000	149.856	7663.00	7071.03	-7195.68	631.24	1685186.56	415147.93	39°38'3.9983"N	80°37'4.1089"W	7223.32	174.987	0.00	0.00	0.00
14564.00†	90.000	149.856	7663.00	7168.33	-7282.16	681.45	1685236.77	415061.45	39°38'3.1499"N	80°37'3.4533"W	7313.98	174.654	0.00	0.00	0.00
14664.00†	90.000	149.856	7663.00	7265.63	-7368.64	731.67	1685286.99	414974.98	39°38'2.3015"N	80°37'2.7978"W	7404.87	174.329	0.00	0.00	0.00
14764.00†	90.000	149.856	7663.00	7362.93	-7455.11	781.89	1685337.20	414888.51	39°38'1.4531"N	80°37'2.1423"W	7496.00	174.013	0.00	0.00	0.00
14864.00†	90.000	149.856	7663.00	7460.23	-7541.59	832.11	1685387.42	414802.04	39°38'0.6046"N	80°37'1.4867"W	7587.36	173.704	0.00	0.00	0.00
14964.00†	90.000	149.856	7663.00	7557.53	-7628.07	882.32	1685437.63	414715.57	39°37'59.7562"N	80°37'0.8312"W	7678.93	173.402	0.00	0.00	0.00
15064.00†	90.000	149.856	7663.00	7654.83	-7714.54	932.54	1685487.85	414629.10	39°37'58.9078"N	80°37'0.1757"W	7770.70	173.107	0.00	0.00	0.00
15164.00†	90.000	149.856	7663.00	7752.13	-7801.02	982.76	1685538.06	414542.63	39°37'58.0594"N	80°36'59.5201"W	7862.68	172.820	0.00	0.00	0.00
15264.00†	90.000	149.856	7663.00	7849.43	-7887.50	1032.98	1685588.27	414456.15	39°37'57.2109"N	80°36'58.8646"W	7954.85	172.539	0.00	0.00	0.00
15364.00†	90.000	149.856	7663.00	7946.73	-7973.97	1083.19	1685638.49	414369.68	39°37'56.3625"N	80°36'58.2091"W	8047.21	172.264	0.00	0.00	0.00
15464.00†	90.000	149.856	7663.00	8044.03	-8060.45	1133.41	1685688.70	414283.21	39°37'55.5141"N	80°36'57.5536"W	8139.75	171.996	0.00	0.00	0.00
15564.00†	90.000	149.856	7663.00	8141.33	-8146.93	1183.63	1685738.92	414196.74	39°37'54.6657"N	80°36'56.8981"W	8232.46	171.734	0.00	0.00	0.00
15664.00†	90.000	149.856	7663.00	8238.63	-8233.40	1233.85	1685789.13	414110.27	39°37'53.8172"N	80°36'56.2426"W	8325.34	171.477	0.00	0.00	0.00
15764.00†	90.000	149.856	7663.00	8335.93	-8319.88	1284.06	1685839.35	414023.80	39°37'52.9688"N	80°36'55.5871"W	8418.39	171.226	0.00	0.00	0.00





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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Haggard 4H
Field	Wetzel	API	47-103-03527-0000
Facility	Haggard Pad	Wellbore	Haggard 4H PWB
Slot	Slot 04		

## WELLPATH DATA (288 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]
15864.00†	90.000	149.856	7663.00	8433.23	-8406.36	1334.28	1685889.56	413937.33	39°37'52.1204"N	80°36'54.9316"W	8511.59	170.981	0.00	0.00	0.00
15964.00†	90.000	149.856	7663.00	8530.53	-8492.83	1384.50	1685939.77	413850.86	39°37'51.2719"N	80°36'54.2761"W	8604.94	170.741	0.00	0.00	0.00
16064.00†	90.000	149.856	7663.00	8627.83	-8579.31	1434.72	1685989.99	413764.38	39°37'50.4235"N	80°36'53.6206"W	8698.45	170.506	0.00	0.00	0.00
16164.00†	90.000	149.856	7663.00	8725.13	-8665.79	1484.93	1686040.20	413677.91	39°37'49.5751"N	80°36'52.9651"W	8792.09	170.276	0.00	0.00	0.00
16223.36	90.000	149.856	7663.00	8782.89	-8717.12	1514.74	1686070.01	413626.58	39°37'49.0714"N	80°36'52.5760"W	8847.75	170.142	0.00	0.00	0.00
16264.00†	90.000	151.075	7663.00	8822.53	-8752.48	1534.78	1686090.04	413591.23	39°37'48.7245"N	80°36'52.3144"W	8886.02	170.054	3.00	0.00	3.00
16303.43	90.000	152.258	7663.00	8861.16	-8787.18	1553.49	1686108.75	413556.53	39°37'48.3838"N	80°36'52.0698"W	8923.45	169.974	3.00	0.00	3.00
16364.00†	90.000	152.258	7663.00	8920.63	-8840.79	1581.68	1686136.95	413502.92	39°37'47.8575"N	80°36'51.7010"W	8981.16	169.857	0.00	0.00	0.00
16464.00†	90.000	152.258	7663.00	9018.81	-8929.30	1628.23	1686183.49	413414.42	39°37'46.9885"N	80°36'51.0921"W	9076.53	169.666	0.00	0.00	0.00
16512.25	90.000	152.258	7663.00	9066.19	-8972.00	1650.69	1686205.95	413371.72	39°37'46.5692"N	80°36'50.7982"W	9122.59	169.575	0.00	0.00	0.00
16564.00†	90.000	153.810	7663.00	9117.12	-9018.12	1674.16	1686229.42	413325.60	39°37'46.1163"N	80°36'50.4911"W	9172.20	169.483	3.00	0.00	3.00
16664.00†	90.000	156.810	7663.00	9216.16	-9108.97	1715.92	1686271.18	413234.76	39°37'45.2237"N	80°36'49.9429"W	9269.18	169.332	3.00	0.00	3.00
16675.52	90.000	157.156	7663.00	9227.61	-9119.57	1720.43	1686275.68	413224.16	39°37'45.1195"N	80°36'49.8837"W	9280.43	169.317	3.00	0.00	3.00
16764.00†	90.000	157.156	7663.00	9315.60	-9201.11	1754.78	1686310.03	413142.62	39°37'44.3178"N	80°36'49.4318"W	9366.95	169.203	0.00	0.00	0.00
16864.00†	90.000	157.156	7663.00	9415.05	-9293.27	1793.60	1686348.85	413050.47	39°37'43.4119"N	80°36'48.9211"W	9464.77	169.076	0.00	0.00	0.00
16964.00†	90.000	157.156	7663.00	9514.49	-9385.43	1832.42	1686387.67	412958.32	39°37'42.5059"N	80°36'48.4103"W	9562.64	168.952	0.00	0.00	0.00
17064.00†	90.000	157.156	7663.00	9613.93	-9477.58	1871.25	1686426.49	412866.17	39°37'41.5999"N	80°36'47.8996"W	9660.55	168.831	0.00	0.00	0.00
17164.00†	90.000	157.156	7663.00	9713.38	-9569.74	1910.07	1686465.31	412774.02	39°37'40.6940"N	80°36'47.3889"W	9758.50	168.712	0.00	0.00	0.00
17264.00†	90.000	157.156	7663.00	9812.82	-9661.90	1948.89	1686504.13	412681.86	39°37'39.7880"N	80°36'46.8782"W	9856.49	168.596	0.00	0.00	0.00
17364.00†	90.000	157.156	7663.00	9912.27	-9754.05	1987.71	1686542.95	412589.71	39°37'38.8820"N	80°36'46.3675"W	9954.52	168.482	0.00	0.00	0.00
17464.00†	90.000	157.156	7663.00	10011.71	-9846.21	2026.54	1686581.77	412497.56	39°37'37.9760"N	80°36'45.8568"W	10052.60	168.370	0.00	0.00	0.00
17564.00†	90.000	157.156	7663.00	10111.15	-9938.37	2065.36	1686620.59	412405.41	39°37'37.0701"N	80°36'45.3461"W	10150.71	168.260	0.00	0.00	0.00
17664.00†	90.000	157.156	7663.00	10210.60	-10030.52	2104.18	1686659.41	412313.26	39°37'36.1641"N	80°36'44.8354"W	10248.85	168.152	0.00	0.00	0.00
17764.00†	90.000	157.156	7663.00	10310.04	-10122.68	2143.00	1686698.23	412221.11	39°37'35.2581"N	80°36'44.3247"W	10347.03	168.047	0.00	0.00	0.00
17864.00†	90.000	157.156	7663.00	10409.49	-10214.84	2181.82	1686737.05	412128.96	39°37'34.3521"N	80°36'43.8140"W	10445.25	167.943	0.00	0.00	0.00
17964.00†	90.000	157.156	7663.00	10508.93	-10306.99	2220.65	1686775.87	412036.81	39°37'33.4462"N	80°36'43.3033"W	10543.50	167.841	0.00	0.00	0.00
18064.00†	90.000	157.156	7663.00	10608.38	-10399.15	2259.47	1686814.69	411944.66	39°37'32.5402"N	80°36'42.7926"W	10641.78	167.742	0.00	0.00	0.00
18164.00†	90.000	157.156	7663.00	10707.82	-10491.31	2298.29	1686853.51	411852.51	39°37'31.6342"N	80°36'42.2820"W	10740.09	167.644	0.00	0.00	0.00
18264.00†	90.000	157.156	7663.00	10807.26	-10583.46	2337.11	1686892.33	411760.36	39°37'30.7282"N	80°36'41.7713"W	10838.44	167.547	0.00	0.00	0.00
18364.00†	90.000	157.156	7663.00	10906.71	-10675.62	2375.94	1686931.15	411668.20	39°37'29.8222"N	80°36'41.2606"W	10936.81	167.453	0.00	0.00	0.00





# Planned Wellpath Report

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Haggard 4H
Field	Wetzel	API	47-103-03527-0000
Facility	Haggard Pad	Wellbore	Haggard 4H PWB
Slot	Slot 04		

## WELLPATH DATA (288 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]
18464.00†	90.000	157.156	7663.00	11006.15	-10767.77	2414.76	1686969.97	411576.05	39°37'28.9163"N	80°36'40.7499"W	11035.22	167.360	0.00	0.00	0.00
18564.00†	90.000	157.156	7663.00	11105.60	-10859.93	2453.58	1687008.79	411483.90	39°37'28.0103"N	80°36'40.2393"W	11133.65	167.269	0.00	0.00	0.00
18664.00†	90.000	157.156	7663.00	11205.04	-10952.09	2492.40	1687047.61	411391.75	39°37'27.1043"N	80°36'39.7286"W	11232.11	167.179	0.00	0.00	0.00
18764.00†	90.000	157.156	7663.00	11304.48	-11044.24	2531.23	1687086.43	411299.60	39°37'26.1983"N	80°36'39.2180"W	11330.60	167.091	0.00	0.00	0.00
18864.00†	90.000	157.156	7663.00	11403.93	-11136.40	2570.05	1687125.25	411207.45	39°37'25.2923"N	80°36'38.7073"W	11429.11	167.005	0.00	0.00	0.00
18964.00†	90.000	157.156	7663.00	11503.37	-11228.56	2608.87	1687164.07	411115.30	39°37'24.3864"N	80°36'38.1967"W	11527.65	166.920	0.00	0.00	0.00
19064.00†	90.000	157.156	7663.00	11602.82	-11320.71	2647.69	1687202.89	411023.15	39°37'23.4804"N	80°36'37.6860"W	11626.21	166.836	0.00	0.00	0.00
19164.00†	90.000	157.156	7663.00	11702.26	-11412.87	2686.51	1687241.71	410931.00	39°37'22.5744"N	80°36'37.1754"W	11724.80	166.754	0.00	0.00	0.00
19264.00†	90.000	157.156	7663.00	11801.70	-11505.03	2725.34	1687280.53	410838.85	39°37'21.6684"N	80°36'36.6647"W	11823.41	166.673	0.00	0.00	0.00
19364.00†	90.000	157.156	7663.00	11901.15	-11597.18	2764.16	1687319.35	410746.70	39°37'20.7624"N	80°36'36.1541"W	11922.05	166.594	0.00	0.00	0.00
19464.00†	90.000	157.156	7663.00	12000.59	-11689.34	2802.98	1687358.17	410654.54	39°37'19.8564"N	80°36'35.6435"W	12020.71	166.516	0.00	0.00	0.00
19564.00†	90.000	157.156	7663.00	12100.04	-11781.50	2841.80	1687396.99	410562.39	39°37'18.9504"N	80°36'35.1329"W	12119.39	166.439	0.00	0.00	0.00
19664.00†	90.000	157.156	7663.00	12199.48	-11873.65	2880.63	1687435.81	410470.24	39°37'18.0444"N	80°36'34.6222"W	12218.09	166.363	0.00	0.00	0.00
19764.00†	90.000	157.156	7663.00	12298.92	-11965.81	2919.45	1687474.63	410378.09	39°37'17.1385"N	80°36'34.1116"W	12316.81	166.289	0.00	0.00	0.00
19864.00†	90.000	157.156	7663.00	12398.37	-12057.97	2958.27	1687513.45	410285.94	39°37'16.2325"N	80°36'33.6010"W	12415.55	166.215	0.00	0.00	0.00
19964.00†	90.000	157.156	7663.00	12497.81	-12150.12	2997.09	1687552.27	410193.79	39°37'15.3265"N	80°36'33.0904"W	12514.31	166.143	0.00	0.00	0.00
20064.00†	90.000	157.156	7663.00	12597.26	-12242.28	3035.92	1687591.09	410101.64	39°37'14.4205"N	80°36'32.5798"W	12613.10	166.072	0.00	0.00	0.00
20164.00†	90.000	157.156	7663.00	12696.70	-12334.44	3074.74	1687629.91	410009.49	39°37'13.5145"N	80°36'32.0692"W	12711.90	166.003	0.00	0.00	0.00
20264.00†	90.000	157.156	7663.00	12796.14	-12426.59	3113.56	1687668.73	409917.34	39°37'12.6085"N	80°36'31.5586"W	12810.72	165.934	0.00	0.00	0.00
20364.00†	90.000	157.156	7663.00	12895.59	-12518.75	3152.38	1687707.55	409825.19	39°37'11.7025"N	80°36'31.0480"W	12909.55	165.866	0.00	0.00	0.00
20464.00†	90.000	157.156	7663.00	12995.03	-12610.91	3191.21	1687746.37	409733.04	39°37'10.7965"N	80°36'30.5374"W	13008.41	165.799	0.00	0.00	0.00
20564.00†	90.000	157.156	7663.00	13094.48	-12703.06	3230.03	1687785.19	409640.88	39°37'9.8905"N	80°36'30.0268"W	13107.28	165.734	0.00	0.00	0.00
20664.00†	90.000	157.156	7663.00	13193.92	-12795.22	3268.85	1687824.01	409548.73	39°37'8.9845"N	80°36'29.5162"W	13206.17	165.669	0.00	0.00	0.00
20764.00†	90.000	157.156	7663.00	13293.36	-12887.37	3307.67	1687862.83	409456.58	39°37'8.0785"N	80°36'29.0056"W	13305.08	165.605	0.00	0.00	0.00
20864.00†	90.000	157.156	7663.00	13392.81	-12979.53	3346.49	1687901.65	409364.43	39°37'7.1725"N	80°36'28.4951"W	13404.00	165.542	0.00	0.00	0.00
20964.00†	90.000	157.156	7663.00	13492.25	-13071.69	3385.32	1687940.47	409272.28	39°37'6.2665"N	80°36'27.9845"W	13502.94	165.480	0.00	0.00	0.00
21064.00†	90.000	157.156	7663.00	13591.70	-13163.84	3424.14	1687979.29	409180.13	39°37'5.3605"N	80°36'27.4739"W	13601.89	165.420	0.00	0.00	0.00
21164.00†	90.000	157.156	7663.00	13691.14	-13256.00	3462.96	1688018.11	409087.98	39°37'4.4545"N	80°36'26.9633"W	13700.86	165.359	0.00	0.00	0.00
21264.00†	90.000	157.156	7663.00	13790.58	-13348.16	3501.78	1688056.93	408995.83	39°37'3.5485"N	80°36'26.4528"W	13799.85	165.300	0.00	0.00	0.00
21364.00†	90.000	157.156	7663.00	13890.03	-13440.31	3540.61	1688095.75	408903.68	39°37'2.6425"N	80°36'25.9422"W	13898.85	165.242	0.00	0.00	0.00

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Haggard 4H
Field	Wetzel	API	47-103-03527-0000
Facility	Haggard Pad	Wellbore	Haggard 4H PWB
Slot	Slot 04		

## WELLPATH DATA (288 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]
21464.00†	90.000	157.156	7663.00	13989.47	-13532.47	3579.43	1688134.57	408811.53	39°37'1.7365"N	80°36'25.4317"W	13997.86	165.184	0.00	0.00	0.00
21564.00†	90.000	157.156	7663.00	14088.92	-13624.63	3618.25	1688173.39	408719.38	39°37'0.8305"N	80°36'24.9211"W	14096.89	165.127	0.00	0.00	0.00
21664.00†	90.000	157.156	7663.00	14188.36	-13716.78	3657.07	1688212.21	408627.22	39°36'59.9245"N	80°36'24.4106"W	14195.93	165.071	0.00	0.00	0.00
21764.00†	90.000	157.156	7663.00	14287.80	-13808.94	3695.90	1688251.03	408535.07	39°36'59.0185"N	80°36'23.9000"W	14294.98	165.016	0.00	0.00	0.00
21864.00†	90.000	157.156	7663.00	14387.25	-13901.10	3734.72	1688289.85	408442.92	39°36'58.1125"N	80°36'23.3895"W	14394.05	164.962	0.00	0.00	0.00
21964.00†	90.000	157.156	7663.00	14486.69	-13993.25	3773.54	1688328.67	408350.77	39°36'57.2065"N	80°36'22.8789"W	14493.13	164.908	0.00	0.00	0.00
22064.00†	90.000	157.156	7663.00	14586.14	-14085.41	3812.36	1688367.49	408258.62	39°36'56.3005"N	80°36'22.3684"W	14592.22	164.855	0.00	0.00	0.00
22164.00†	90.000	157.156	7663.00	14685.58	-14177.57	3851.19	1688406.31	408166.47	39°36'55.3945"N	80°36'21.8579"W	14691.32	164.803	0.00	0.00	0.00
22264.00†	90.000	157.156	7663.00	14785.02	-14269.72	3890.01	1688445.13	408074.32	39°36'54.4885"N	80°36'21.3473"W	14790.44	164.751	0.00	0.00	0.00
22364.00†	90.000	157.156	7663.00	14884.47	-14361.88	3928.83	1688483.95	407982.17	39°36'53.5825"N	80°36'20.8368"W	14889.57	164.701	0.00	0.00	0.00
22464.00†	90.000	157.156	7663.00	14983.91	-14454.04	3967.65	1688522.77	407890.02	39°36'52.6765"N	80°36'20.3263"W	14988.71	164.650	0.00	0.00	0.00
22564.00†	90.000	157.156	7663.00	15083.36	-14546.19	4006.47	1688561.59	407797.87	39°36'51.7705"N	80°36'19.8158"W	15087.86	164.601	0.00	0.00	0.00
22664.00†	90.000	157.156	7663.00	15182.80	-14638.35	4045.30	1688600.41	407705.72	39°36'50.8645"N	80°36'19.3053"W	15187.02	164.552	0.00	0.00	0.00
22764.00†	90.000	157.156	7663.00	15282.24	-14730.51	4084.12	1688639.23	407613.57	39°36'49.9585"N	80°36'18.7948"W	15286.20	164.504	0.00	0.00	0.00
22864.00†	90.000	157.156	7663.00	15381.69	-14822.66	4122.94	1688678.05	407521.41	39°36'49.0525"N	80°36'18.2843"W	15385.38	164.456	0.00	0.00	0.00
22964.00†	90.000	157.156	7663.00	15481.13	-14914.82	4161.76	1688716.87	407429.26	39°36'48.1465"N	80°36'17.7738"W	15484.58	164.409	0.00	0.00	0.00
23064.00†	90.000	157.156	7663.00	15580.58	-15006.98	4200.59	1688755.69	407337.11	39°36'47.2405"N	80°36'17.2633"W	15583.78	164.363	0.00	0.00	0.00
23164.00†	90.000	157.156	7663.00	15680.02	-15099.13	4239.41	1688794.51	407244.96	39°36'46.3344"N	80°36'16.7528"W	15683.00	164.317	0.00	0.00	0.00
23264.00†	90.000	157.156	7663.00	15779.46	-15191.29	4278.23	1688833.33	407152.81	39°36'45.4284"N	80°36'16.2423"W	15782.22	164.272	0.00	0.00	0.00
23364.00†	90.000	157.156	7663.00	15878.91	-15283.44	4317.05	1688872.15	407060.66	39°36'44.5224"N	80°36'15.7318"W	15881.46	164.227	0.00	0.00	0.00
23464.00†	90.000	157.156	7663.00	15978.35	-15375.60	4355.88	1688910.97	406968.51	39°36'43.6164"N	80°36'15.2213"W	15980.70	164.183	0.00	0.00	0.00
23564.00†	90.000	157.156	7663.00	16077.80	-15467.76	4394.70	1688949.79	406876.36	39°36'42.7104"N	80°36'14.7108"W	16079.95	164.139	0.00	0.00	0.00
23664.00†	90.000	157.156	7663.00	16177.24	-15559.91	4433.52	1688988.61	406784.21	39°36'41.8044"N	80°36'14.2004"W	16179.22	164.096	0.00	0.00	0.00
23764.00†	90.000	157.156	7663.00	16276.68	-15652.07	4472.34	1689027.43	406692.06	39°36'40.8984"N	80°36'13.6899"W	16278.49	164.054	0.00	0.00	0.00
23864.00†	90.000	157.156	7663.00	16376.13	-15744.23	4511.16	1689066.25	406599.91	39°36'39.9923"N	80°36'13.1794"W	16377.77	164.011	0.00	0.00	0.00
23964.00†	90.000	157.156	7663.00	16475.57	-15836.38	4549.99	1689105.07	406507.75	39°36'39.0863"N	80°36'12.6690"W	16477.06	163.970	0.00	0.00	0.00
24064.00†	90.000	157.156	7663.00	16575.02	-15928.54	4588.81	1689143.89	406415.60	39°36'38.1803"N	80°36'12.1585"W	16576.36	163.929	0.00	0.00	0.00
24164.00†	90.000	157.156	7663.00	16674.46	-16020.70	4627.63	1689182.71	406323.45	39°36'37.2743"N	80°36'11.6480"W	16675.66	163.888	0.00	0.00	0.00
24264.00†	90.000	157.156	7663.00	16773.90	-16112.85	4666.45	1689221.53	406231.30	39°36'36.3683"N	80°36'11.1376"W	16774.98	163.848	0.00	0.00	0.00
24364.00†	90.000	157.156	7663.00	16873.35	-16205.01	4705.28	1689260.35	406139.15	39°36'35.4623"N	80°36'10.6271"W	16874.30	163.809	0.00	0.00	0.00





# Planned Wellpath Report

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Haggard 4H
Field	Wetzel	API	47-103-03527-0000
Facility	Haggard Pad	Wellbore	Haggard 4H PWB
Slot	Slot 04		

## WELLPATH DATA (288 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]
24464.00†	90.000	157.156	7663.00	16972.79	-16297.17	4744.10	1689299.17	406047.00	39°36'34.5562"N	80°36'10.1167"W	16973.63	163.770	0.00	0.00	0.00
24564.00†	90.000	157.156	7663.00	17072.24	-16389.32	4782.92	1689337.99	405954.85	39°36'33.6502"N	80°36'9.6063"W	17072.97	163.731	0.00	0.00	0.00
24664.00†	90.000	157.156	7663.00	17171.68	-16481.48	4821.74	1689376.81	405862.70	39°36'32.7442"N	80°36'9.0958"W	17172.31	163.693	0.00	0.00	0.00
24764.00†	90.000	157.156	7663.00	17271.12	-16573.64	4860.57	1689415.63	405770.55	39°36'31.8382"N	80°36'8.5854"W	17271.67	163.655	0.00	0.00	0.00
24864.00†	90.000	157.156	7663.00	17370.57	-16665.79	4899.39	1689454.45	405678.40	39°36'30.9321"N	80°36'8.0750"W	17371.03	163.618	0.00	0.00	0.00
24964.00†	90.000	157.156	7663.00	17470.01	-16757.95	4938.21	1689493.27	405586.25	39°36'30.0261"N	80°36'7.5645"W	17470.40	163.581	0.00	0.00	0.00
25064.00†	90.000	157.156	7663.00	17569.46	-16850.11	4977.03	1689532.09	405494.09	39°36'29.1201"N	80°36'7.0541"W	17569.77	163.544	0.00	0.00	0.00
25164.00†	90.000	157.156	7663.00	17668.90	-16942.26	5015.86	1689570.91	405401.94	39°36'28.2141"N	80°36'6.5437"W	17669.16	163.508	0.00	0.00	0.00
25264.00†	90.000	157.156	7663.00	17768.34	-17034.42	5054.68	1689609.73	405309.79	39°36'27.3081"N	80°36'6.0333"W	17768.54	163.473	0.00	0.00	0.00
25364.00†	90.000	157.156	7663.00	17867.79	-17126.58	5093.50	1689648.55	405217.64	39°36'26.4020"N	80°36'5.5229"W	17867.94	163.437	0.00	0.00	0.00
25464.00†	90.000	157.156	7663.00	17967.23	-17218.73	5132.32	1689687.37	405125.49	39°36'25.4960"N	80°36'5.0125"W	17967.34	163.402	0.00	0.00	0.00
25564.00†	90.000	157.156	7663.00	18066.68	-17310.89	5171.14	1689726.19	405033.34	39°36'24.5900"N	80°36'4.5020"W	18066.75	163.368	0.00	0.00	0.00
25664.00†	90.000	157.156	7663.00	18166.12	-17403.04	5209.97	1689765.01	404941.19	39°36'23.6839"N	80°36'3.9916"W	18166.17	163.334	0.00	0.00	0.00
25764.00†	90.000	157.156	7663.00	18265.56	-17495.20	5248.79	1689803.83	404849.04	39°36'22.7779"N	80°36'3.4812"W	18265.59	163.300	0.00	0.00	0.00
25864.00†	90.000	157.156	7663.00	18365.01	-17587.36	5287.61	1689842.65	404756.89	39°36'21.8719"N	80°36'2.9709"W	18365.02	163.267	0.00	0.00	0.00
25964.00†	90.000	157.156	7663.00	18464.45	-17679.51	5326.43	1689881.47	404664.74	39°36'20.9659"N	80°36'2.4605"W	18464.46	163.234	0.00	0.00	0.00
26064.00†	90.000	157.156	7663.00	18563.90	-17771.67	5365.26	1689920.29	404572.59	39°36'20.0598"N	80°36'1.9501"W	18563.90	163.201	0.00	0.00	0.00
26065.11	90.000	157.156	7663.00‡	18565.00	-17772.69	5365.69	1689920.72	404571.57	39°36'20.0498"N	80°36'1.9444"W	18565.00	163.201	0.00	0.00	0.00

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# Planned Wellpath Report

Haggard 4H PWP Rev-A.0

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Haggard 4H
Field	Wetzel	API	47-103-03527-0000
Facility	Haggard Pad	Wellbore	Haggard 4H PWB
Slot	Slot 04		

## HOLE & CASING SECTIONS - Ref Wellbore: Haggard 4H PWB Ref Wellpath: Haggard 4H PWP Rev-A.0

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]
26in Conductor	28.00	68.00	40.00	28.00	68.00	0.00	0.00	-0.07	0.03
17.5in Open Hole	68.00	1487.00	1419.00	68.00	1486.97	-0.07	0.03	-8.83	2.08
13.375in Casing Surface	28.00	1487.00	1459.00	28.00	1486.97	0.00	0.00	-8.83	2.08
12.25in Open Hole	1487.00	2922.00	1435.00	1486.97	2921.94	-8.83	2.08	-12.67	9.47
9.625in Casing Intermediate	28.00	2922.00	2894.00	28.00	2921.94	0.00	0.00	-12.67	9.47
8.75in Open Hole	2922.00	7064.00	4142.00	2921.94	6360.91	-12.67	9.47	-1407.31	-1614.38
6in Casing Production	28.00	7064.00	7036.00	28.00	6360.91	0.00	0.00	-1407.31	-1614.38
8.75in Open Hole	2923.00	7145.00	4222.00	2922.94	6424.36	-12.68	9.47	-1439.48	-1653.11
8.5in Open Hole	7145.00	26065.11	18920.11	6424.36	N/A	-1439.48	-1653.11	N/A	N/A
6in Casing Production	28.00	26065.11	26037.11	28.00	N/A	0.00	0.00	N/A	N/A

## TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
2) Haggard 4H BHL Rev-1	26065.11	7663.00	-17772.69	5365.69	1689920.72	404571.57	39°36'20.0498"N	80°36'1.9444"W	point
Haggard 4H LP Rev-1	N/A	7663.00	-2493.70	-2140.13	1682415.36	419849.62	39°38'50.1226"N	80°37'40.2826"W	point
1) Haggard 4H LP Rev-2	9054.23	7663.00	-2535.70	-2115.00	1682440.49	419807.63	39°38'49.7108"N	80°37'39.9546"W	point

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# Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT PRODUCTION COMPANY	Well	Haggard 4H
Field	Wetzel	API	47-103-03527-0000
Facility	Haggard Pad	Wellbore	Haggard 4H PWB
Slot	Slot 04		

SURVEY PROGRAM - Ref Wellbore: Haggard 4H PWB Ref Wellpath: Haggard 4H PWP Rev-A.0				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
28.00	1515.00	Gyrodata 2015 - CT+WIR+DPIPE	01_Gyrodata Cont. Gyro <17-1/2">(115'-1515')	Haggard 4H AWB
1515.00	2891.00	Gyrodata 2015 - CT+WIR+DPIPE	02_Gyrodata Cont. Gyro <12-1/4">(1515')(1615'-2891')	Haggard 4H AWB
2891.00	7064.00	OWSG MWD rev2 + HRGM	03_SDI MWD <8-3/4">(2891')(2976'-7064')	Haggard 4H AWB
7064.00	26065.11	OWSG MWD rev2 + IFR1 + Axial Corr + Sag Correction		Haggard 4H PWB

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# Planned Wellpath Report

Haggard 4H PWP Rev-A.0

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Haggard 4H
Field	Wetzel	API	47-103-03527-0000
Facility	Haggard Pad	Wellbore	Haggard 4H PWB
Slot	Slot 04		

## COMMENTS

### Wellpath general comments

API: 47-103-03527-0000

BH Job #: 111974030

Rig: Patterson 292

Duration: 10/22/2023-10/26/2023

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

02\_Gyrodata Cont. Gyro <12-1/4">(1515')(1615'-2891')

03\_SD1 MWD <8-3/4">(2891')(2976'-7064')

04\_BH Lucida+SQC IFR1+SAG+FDIR<8-1/2">(7064')(7163'-26038')

Landing Pt. @ 9154' MD

Final Survey @ 26038' MD

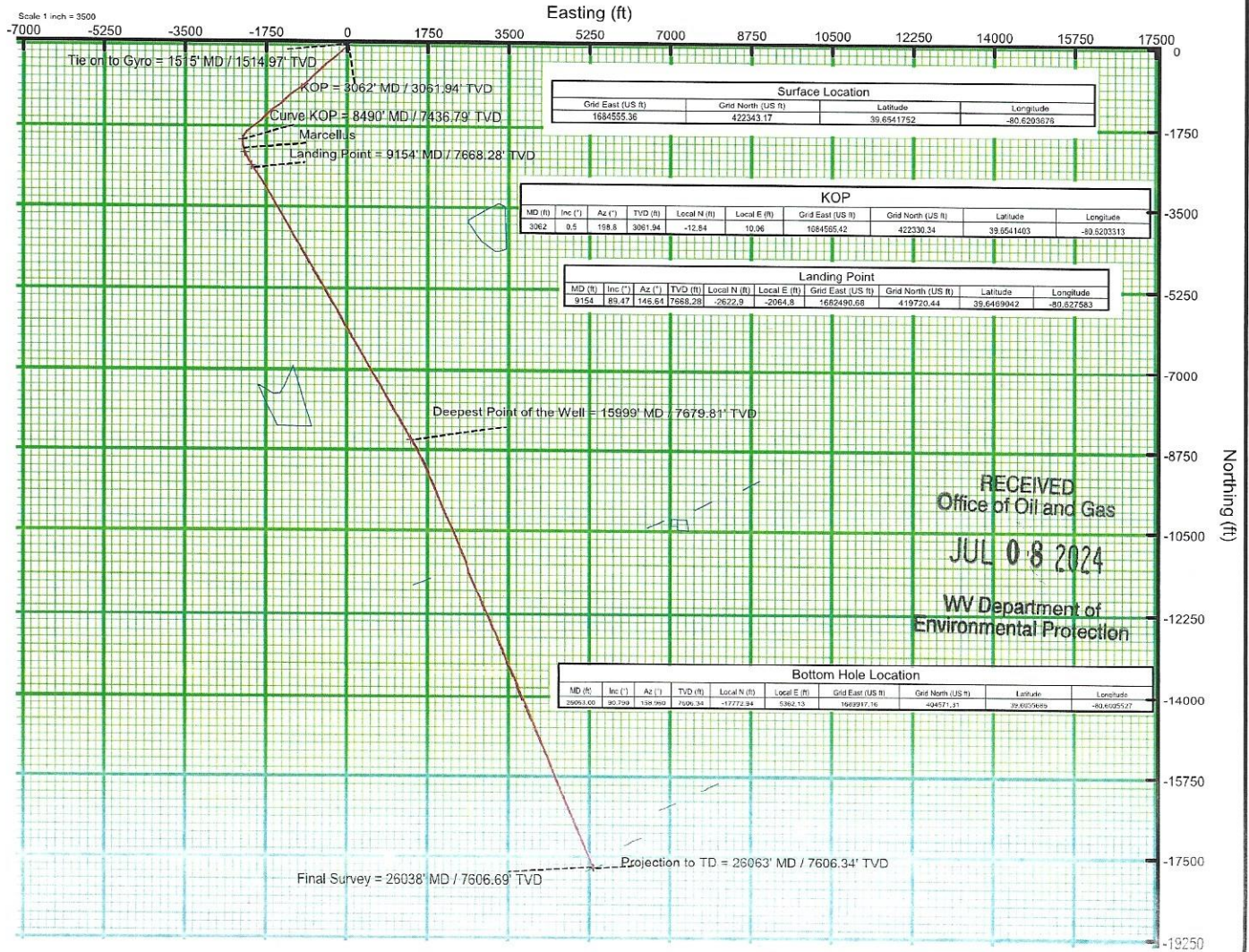
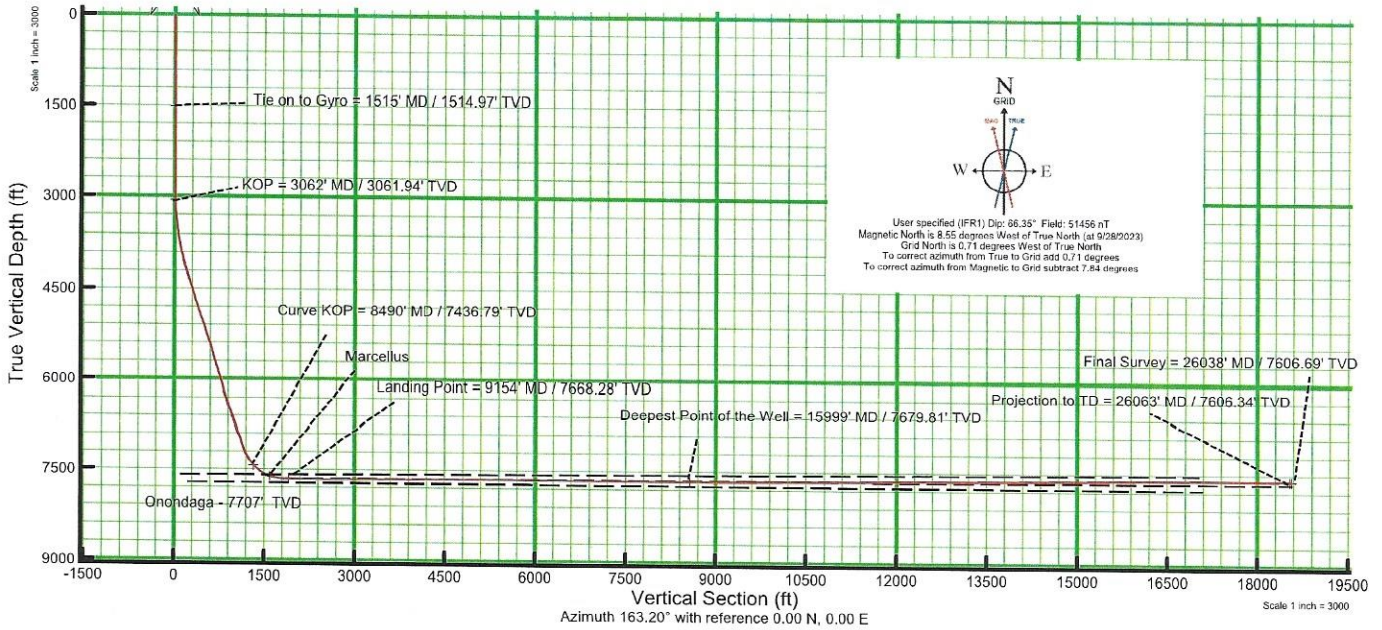
Projected MD at TD: 26063'

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



08/16/2024