



Actual Wellpath Report

Haggard 16H AWB Proj:21620'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Haggard 16H
Field	Wetzel	API/Legal	
Facility	Haggard Pad	Wellbore	Haggard 16H AWB
Slot	Slot 16		

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	10/11/2023 at 1:25:18 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	79.92	68.09	1684613.72	422411.67	39°39'15.7150"N	80°37'12.5881"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 16)	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	137.62°

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WELLPATH DATA (252 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	70.480	0.00	0.00	0.00	0.00	1684613.72	422411.67	39°39'15.7150"N	80°37'12.5881"W	0.00	0.000	0.00	0.00	0.00
28.00	0.000	70.480	28.00	0.00	0.00	0.00	1684613.72	422411.67	39°39'15.7150"N	80°37'12.5881"W	0.00	0.000	0.00	0.00	0.00
115.00	0.230	70.480	115.00	0.07	0.06	0.16	1684613.88	422411.73	39°39'15.7156"N	80°37'12.5860"W	0.17	70.480	0.26	0.26	0.00
215.00	0.300	87.920	215.00	0.32	0.13	0.62	1684614.34	422411.80	39°39'15.7164"N	80°37'12.5803"W	0.63	77.634	0.11	0.07	17.44
315.00	0.310	86.040	315.00	0.65	0.16	1.15	1684614.87	422411.83	39°39'15.7168"N	80°37'12.5735"W	1.16	81.906	0.01	0.01	-1.88
415.00	0.330	86.590	415.00	1.00	0.20	1.70	1684615.42	422411.87	39°39'15.7172"N	80°37'12.5664"W	1.72	83.343	0.02	0.02	0.55
515.00	0.430	95.860	514.99	1.46	0.18	2.36	1684616.08	422411.85	39°39'15.7171"N	80°37'12.5579"W	2.37	85.702	0.12	0.10	9.27
615.00	0.700	104.330	614.99	2.25	-0.01	3.33	1684617.05	422411.66	39°39'15.7153"N	80°37'12.5455"W	3.33	90.203	0.28	0.27	8.47
715.00	0.820	118.140	714.98	3.44	-0.50	4.55	1684618.27	422411.17	39°39'15.7106"N	80°37'12.5298"W	4.58	96.273	0.22	0.12	13.81
815.00	0.890	117.620	814.97	4.84	-1.20	5.87	1684619.59	422410.47	39°39'15.7039"N	80°37'12.5128"W	5.99	101.531	0.07	0.07	-0.52
915.00	0.910	117.850	914.96	6.32	-1.93	7.26	1684620.98	422409.74	39°39'15.6969"N	80°37'12.4950"W	7.51	104.875	0.02	0.02	0.23
1015.00	0.900	119.780	1014.94	7.81	-2.69	8.65	1684622.37	422408.98	39°39'15.6895"N	80°37'12.4771"W	9.05	107.282	0.03	-0.01	1.93
1115.00	0.800	124.680	1114.93	9.24	-3.48	9.90	1684623.62	422408.19	39°39'15.6819"N	80°37'12.4610"W	10.49	109.350	0.12	-0.10	4.90
1215.00	0.450	122.680	1214.93	10.30	-4.09	10.81	1684624.53	422407.58	39°39'15.6760"N	80°37'12.4493"W	11.55	110.715	0.35	-0.35	-2.00
1315.00	0.370	117.770	1314.92	10.99	-4.45	11.42	1684625.14	422407.22	39°39'15.6725"N	80°37'12.4414"W	12.26	111.281	0.09	-0.08	-4.91
1415.00	0.780	127.120	1414.92	11.96	-5.01	12.25	1684625.97	422406.66	39°39'15.6670"N	80°37'12.4307"W	13.24	112.243	0.42	0.41	9.35
1452.00	0.910	129.550	1451.91	12.50	-5.35	12.68	1684626.40	422406.32	39°39'15.6637"N	80°37'12.4252"W	13.76	112.876	0.36	0.35	6.57
1545.00	0.890	125.410	1544.90	13.93	-6.24	13.84	1684627.56	422405.43	39°39'15.6551"N	80°37'12.4102"W	15.18	114.268	0.07	-0.02	-4.45
1589.00	0.960	117.280	1588.90	14.61	-6.61	14.44	1684628.16	422405.07	39°39'15.6515"N	80°37'12.4024"W	15.88	114.576	0.34	0.16	-18.48
1632.00	1.350	80.570	1631.89	15.23	-6.69	15.26	1684628.98	422404.98	39°39'15.6508"N	80°37'12.3919"W	16.66	113.660	1.90	0.91	-85.37
1674.00	2.230	64.810	1673.87	15.74	-6.26	16.49	1684630.21	422405.41	39°39'15.6552"N	80°37'12.3763"W	17.64	110.783	2.38	2.10	-37.52
1716.00	2.860	58.040	1715.83	16.17	-5.36	18.12	1684631.84	422406.31	39°39'15.6643"N	80°37'12.3556"W	18.89	106.468	1.66	1.50	-16.12
1759.00	4.190	51.160	1758.75	16.46	-3.80	20.25	1684633.97	422407.87	39°39'15.6799"N	80°37'12.3286"W	20.61	100.635	3.24	3.09	-16.00
1801.00	5.110	47.490	1800.61	16.55	-1.58	22.83	1684636.54	422410.09	39°39'15.7023"N	80°37'12.2960"W	22.88	93.951	2.30	2.19	-8.74
1845.00	6.070	44.780	1844.40	16.43	1.40	25.91	1684639.63	422413.07	39°39'15.7320"N	80°37'12.2571"W	25.95	86.910	2.26	2.18	-6.16
1888.00	6.630	45.400	1887.13	16.22	4.76	29.28	1684643.00	422416.43	39°39'15.7656"N	80°37'12.2146"W	29.66	80.774	1.31	1.30	1.44
1930.00	7.010	39.160	1928.84	15.75	8.45	32.62	1684646.34	422420.11	39°39'15.8025"N	80°37'12.1724"W	33.70	75.486	1.98	0.90	-14.86
2017.00	5.270	34.510	2015.33	14.06	15.85	38.24	1684651.96	422427.52	39°39'15.8764"N	80°37'12.1018"W	41.40	67.480	2.08	-2.00	-5.34
2103.00	4.080	32.300	2101.05	12.36	21.70	42.11	1684655.83	422433.36	39°39'15.9346"N	80°37'12.0532"W	47.37	62.743	1.40	-1.38	-2.57
2189.00	3.430	25.700	2186.86	10.59	26.60	44.86	1684658.58	422438.27	39°39'15.9834"N	80°37'12.0188"W	52.16	59.336	0.91	-0.76	-7.67

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Facility	Haggard Pad	Wellbore	Haggard 16H AWB
Slot	Slot 16		

WELLPATH DATA (252 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]
2273.00	3.770	42.790	2270.70	9.42	30.89	47.83	1684661.55	422442.56	39°39'16.0262"N	80°37'11.9816"W	56.94	57.143	1.33	0.40	20.35
2360.00	4.460	51.270	2357.47	9.39	35.11	52.41	1684666.13	422446.77	39°39'16.0684"N	80°37'11.9237"W	63.08	56.185	1.06	0.79	9.75
2445.00	4.170	40.710	2442.23	9.23	39.52	57.00	1684670.72	422451.18	39°39'16.1126"N	80°37'11.8657"W	69.35	55.270	0.99	-0.34	-12.42
2532.00	4.100	25.710	2529.01	7.69	44.72	60.42	1684674.13	422456.38	39°39'16.1644"N	80°37'11.8229"W	75.17	53.494	1.24	-0.08	-17.24
2618.00	4.530	8.170	2614.77	4.39	50.85	62.23	1684675.95	422462.52	39°39'16.2252"N	80°37'11.8006"W	80.37	50.749	1.61	0.50	-20.40
2705.00	5.310	13.040	2701.45	-0.08	58.17	63.63	1684677.35	422469.84	39°39'16.2977"N	80°37'11.7839"W	86.21	47.566	1.02	0.90	5.60
2792.00	6.490	13.570	2787.99	-5.12	66.87	65.69	1684679.41	422478.54	39°39'16.3840"N	80°37'11.7590"W	93.74	44.489	1.36	1.36	0.61
2876.00	7.190	20.380	2871.39	-10.18	76.42	68.64	1684682.35	422488.08	39°39'16.4787"N	80°37'11.7228"W	102.71	41.930	1.27	0.83	8.11
2971.00	7.260	21.310	2965.64	-15.56	87.58	72.89	1684686.60	422499.25	39°39'16.5895"N	80°37'11.6703"W	113.94	39.769	0.14	0.07	0.98
3014.00	6.930	20.670	3008.31	-17.94	92.54	74.79	1684688.51	422504.20	39°39'16.6388"N	80°37'11.6467"W	118.98	38.946	0.79	-0.77	-1.49
3057.00	7.020	22.100	3050.99	-20.25	97.40	76.70	1684690.41	422509.07	39°39'16.6870"N	80°37'11.6231"W	123.97	38.218	0.45	0.21	3.33
3100.00	7.290	29.310	3093.65	-22.24	102.21	79.02	1684692.74	422513.88	39°39'16.7349"N	80°37'11.5942"W	129.20	37.707	2.18	0.63	16.77
3144.00	8.130	38.360	3137.26	-23.62	107.09	82.32	1684696.03	422518.75	39°39'16.7835"N	80°37'11.5528"W	135.07	37.549	3.35	1.91	20.57
3187.00	8.150	42.720	3179.83	-24.37	111.71	86.27	1684699.99	422523.38	39°39'16.8296"N	80°37'11.5030"W	141.15	37.678	1.44	0.05	10.14
3230.00	8.620	43.570	3222.37	-24.86	116.29	90.56	1684704.28	422527.95	39°39'16.8754"N	80°37'11.4489"W	147.39	37.911	1.13	1.09	1.98
3273.00	9.570	45.190	3264.82	-25.24	121.14	95.32	1684709.03	422532.80	39°39'16.9239"N	80°37'11.3889"W	154.14	38.197	2.29	2.21	3.77
3316.00	10.450	45.490	3307.17	-25.53	126.39	100.64	1684714.35	422538.06	39°39'16.9765"N	80°37'11.3217"W	161.56	38.527	2.05	2.05	0.70
3360.00	12.070	47.350	3350.32	-25.70	132.31	106.86	1684720.58	422543.97	39°39'17.0357"N	80°37'11.2430"W	170.07	38.928	3.77	3.68	4.23
3403.00	12.550	47.530	3392.33	-25.73	138.51	113.62	1684727.33	422550.17	39°39'17.0978"N	80°37'11.1577"W	179.15	39.362	1.12	1.12	0.42
3446.00	13.210	42.940	3434.25	-26.14	145.26	120.41	1684734.12	422556.92	39°39'17.1654"N	80°37'11.0719"W	188.68	39.656	2.83	1.53	-10.67
3490.00	13.980	40.350	3477.02	-27.22	152.99	127.28	1684740.99	422564.65	39°39'17.2426"N	80°37'10.9854"W	199.01	39.758	2.23	1.75	-5.89
3533.00	15.150	40.430	3518.64	-28.58	161.23	134.28	1684748.00	422572.89	39°39'17.3249"N	80°37'10.8971"W	209.82	39.791	2.72	2.72	0.19
3577.00	16.030	42.010	3561.02	-29.90	170.12	142.08	1684755.79	422581.78	39°39'17.4137"N	80°37'10.7989"W	221.64	39.868	2.22	2.00	3.59
3620.00	16.290	43.010	3602.32	-30.96	178.94	150.17	1684763.88	422590.60	39°39'17.5019"N	80°37'10.6969"W	233.60	40.003	0.89	0.60	2.33
3663.00	16.750	44.410	3643.54	-31.79	187.78	158.62	1684772.33	422599.43	39°39'17.5902"N	80°37'10.5903"W	245.80	40.188	1.41	1.07	3.26
3706.00	18.050	44.850	3684.57	-32.46	196.92	167.65	1684781.36	422608.58	39°39'17.6818"N	80°37'10.4762"W	258.62	40.409	3.04	3.02	1.02
3749.00	19.380	44.050	3725.30	-33.23	206.78	177.31	1684791.02	422618.43	39°39'17.7803"N	80°37'10.3543"W	272.39	40.613	3.15	3.09	-1.86
3792.00	20.570	43.560	3765.71	-34.21	217.38	187.48	1684801.18	422629.03	39°39'17.8863"N	80°37'10.2260"W	287.05	40.776	2.79	2.77	-1.14
3836.00	21.160	43.120	3806.83	-35.38	228.78	198.23	1684811.94	422640.43	39°39'18.0003"N	80°37'10.0904"W	302.71	40.908	1.39	1.34	-1.00
3922.00	23.250	45.080	3886.45	-37.35	252.09	220.86	1684834.57	422663.75	39°39'18.2335"N	80°37'9.8047"W	335.16	41.222	2.58	2.43	2.28



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4008.00	26.240	43.910	3964.54	-39.33	277.78	246.07	1684859.78	422689.44	39°39'18.4905"N	80°37'9.4865"W	371.10	41.536	3.52	3.48	-1.36
4095.00	28.670	43.070	4041.74	-42.23	306.89	273.67	1684887.37	422718.54	39°39'18.7815"N	80°37'9.1384"W	411.19	41.725	2.83	2.79	-0.97
4181.00	30.660	42.770	4116.46	-45.72	338.06	302.65	1684916.35	422749.71	39°39'19.0931"N	80°37'8.7729"W	453.74	41.837	2.32	2.31	-0.35
4268.00	31.940	42.650	4190.80	-49.59	371.27	333.30	1684947.00	422782.92	39°39'19.4251"N	80°37'8.3862"W	498.93	41.916	1.47	1.47	-0.14
4354.00	33.120	43.170	4263.30	-53.38	405.14	364.79	1684978.49	422816.78	39°39'19.7637"N	80°37'7.9891"W	545.17	42.000	1.41	1.37	0.60
4441.00	34.430	43.910	4335.62	-56.82	440.19	398.11	1685011.81	422851.84	39°39'20.1142"N	80°37'7.5687"W	593.52	42.126	1.58	1.51	0.85
4516.00	35.050	44.090	4397.25	-59.52	470.94	427.80	1685041.50	422882.58	39°39'20.4217"N	80°37'7.1940"W	636.24	42.252	0.84	0.83	0.24
4602.00	35.270	44.640	4467.56	-62.33	506.34	462.43	1685076.12	422917.98	39°39'20.7758"N	80°37'6.7570"W	685.73	42.405	0.45	0.26	0.64
4688.00	35.870	43.780	4537.51	-65.31	542.20	497.31	1685111.00	422953.84	39°39'21.1345"N	80°37'6.3168"W	735.73	42.527	0.91	0.70	-1.00
4775.00	36.070	43.950	4607.92	-68.65	579.04	532.72	1685146.41	422990.68	39°39'21.5029"N	80°37'5.8699"W	786.82	42.614	0.26	0.23	0.20
4861.00	35.870	42.240	4677.53	-72.63	615.92	567.23	1685180.92	423027.56	39°39'21.8716"N	80°37'5.4346"W	837.32	42.643	1.19	-0.23	-1.99
4947.00	34.730	42.360	4747.71	-77.24	652.68	600.67	1685214.36	423064.31	39°39'22.2390"N	80°37'5.0129"W	887.02	42.624	1.33	-1.33	0.14
5025.00	33.870	41.080	4812.15	-81.75	685.48	629.93	1685243.61	423097.11	39°39'22.5667"N	80°37'4.6441"W	930.97	42.582	1.44	-1.10	-1.64
5111.00	33.930	40.890	4883.53	-87.30	721.69	661.39	1685275.07	423133.32	39°39'22.9284"N	80°37'4.2477"W	978.91	42.503	0.14	0.07	-0.22
5198.00	34.380	42.960	4955.53	-92.14	758.02	694.02	1685307.70	423169.65	39°39'23.2915"N	80°37'3.8362"W	1027.75	42.476	1.43	0.52	2.38
5284.00	33.660	41.670	5026.81	-96.58	793.60	726.42	1685340.09	423205.22	39°39'23.6470"N	80°37'3.4278"W	1075.86	42.469	1.19	-0.84	-1.50
5371.00	34.430	42.910	5098.90	-101.10	829.62	759.19	1685372.87	423241.24	39°39'24.0071"N	80°37'3.0145"W	1124.57	42.462	1.19	0.89	1.43
5457.00	35.520	44.180	5169.37	-104.59	865.35	793.16	1685406.83	423276.97	39°39'24.3643"N	80°37'2.5859"W	1173.85	42.508	1.52	1.27	1.48
5544.00	36.700	43.140	5239.65	-108.14	902.44	828.55	1685442.22	423314.06	39°39'24.7352"N	80°37'2.1394"W	1225.11	42.556	1.53	1.36	-1.20
5630.00	36.310	42.080	5308.78	-112.61	940.09	863.18	1685476.85	423351.71	39°39'25.1116"N	80°37'1.7025"W	1276.27	42.558	0.86	-0.45	-1.23
5717.00	37.060	42.200	5378.55	-117.57	978.63	898.06	1685511.72	423390.24	39°39'25.4967"N	80°37'1.2628"W	1328.24	42.542	0.87	0.86	0.14
5803.00	37.250	42.030	5447.09	-122.55	1017.16	932.89	1685546.55	423428.77	39°39'25.8818"N	80°37'0.8236"W	1380.18	42.525	0.25	0.22	-0.20
5888.00	36.580	42.450	5515.05	-127.34	1054.96	967.21	1685580.87	423466.57	39°39'26.2595"N	80°37'0.3909"W	1431.24	42.515	0.84	-0.79	0.49
5974.00	36.450	43.940	5584.17	-131.29	1092.27	1002.23	1685615.89	423503.87	39°39'26.6325"N	80°36'59.9490"W	1482.40	42.539	1.04	-0.15	1.73
6061.00	36.540	45.320	5654.11	-133.99	1129.09	1038.58	1685652.24	423540.69	39°39'27.0008"N	80°36'59.4902"W	1534.11	42.609	0.95	0.10	1.59
6147.00	36.120	45.160	5723.39	-136.10	1164.96	1074.76	1685688.41	423576.56	39°39'27.3598"N	80°36'59.0334"W	1585.01	42.694	0.50	-0.49	-0.19
6234.00	35.630	46.110	5793.89	-137.87	1200.61	1111.21	1685724.86	423612.21	39°39'27.7166"N	80°36'58.5731"W	1635.92	42.785	0.85	-0.56	1.09
6320.00	35.830	46.310	5863.70	-139.11	1235.37	1147.46	1685761.11	423646.96	39°39'28.0645"N	80°36'58.1151"W	1686.06	42.887	0.27	0.23	0.23
6407.00	36.240	48.280	5934.06	-139.39	1270.07	1185.07	1685798.72	423681.66	39°39'28.4120"N	80°36'57.6398"W	1737.09	43.017	1.41	0.47	2.26
6493.00	36.760	49.950	6003.19	-138.07	1303.56	1223.73	1685837.38	423715.15	39°39'28.7478"N	80°36'57.1508"W	1787.96	43.191	1.28	0.60	1.90

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REFERENCE WELLPATH IDENTIFICATION				
Operator	EQT PRODUCTION COMPANY		Well	Haggard 16H
Field	Wetzel		API/Legal	
Facility	Haggard Pad		Wellbore	Haggard 16H AWB
Slot	Slot 16			

WELLPATH DATA (252 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]
6579.00	36.510	48.090	6072.20	-136.83	1337.22	1262.46	1685876.10	423748.81	39°39'29.0852"N	80°36'56.6611"W	1839.01	43.353	1.30	-0.29	-2.12
6666.00	36.280	47.260	6142.23	-136.78	1371.98	1300.62	1685914.26	423783.57	39°39'29.4333"N	80°36'56.1786"W	1890.49	43.471	0.62	-0.26	-0.95
6752.00	36.280	45.770	6211.56	-137.76	1407.00	1337.54	1685951.18	423818.58	39°39'29.7839"N	80°36'55.7122"W	1941.31	43.550	1.03	0.00	-1.73
6839.00	36.440	44.630	6281.63	-139.94	1443.34	1374.14	1685987.78	423854.92	39°39'30.1476"N	80°36'55.2501"W	1992.86	43.593	0.80	0.18	-1.31
6925.00	35.450	43.680	6351.25	-142.99	1479.56	1409.31	1686022.94	423891.13	39°39'30.5098"N	80°36'54.8062"W	2043.34	43.607	1.32	-1.15	-1.10
7012.00	35.400	42.860	6422.14	-146.81	1516.27	1443.87	1686057.51	423927.85	39°39'30.8769"N	80°36'54.3701"W	2093.77	43.599	0.55	-0.06	-0.94
7098.00	34.290	42.850	6492.72	-150.89	1552.29	1477.29	1686090.92	423963.87	39°39'31.2369"N	80°36'53.9486"W	2142.90	43.582	1.29	-1.29	-0.01
7174.00	33.340	42.320	6555.87	-154.60	1583.43	1505.91	1686119.54	423995.01	39°39'31.5482"N	80°36'53.5876"W	2185.19	43.563	1.31	-1.25	-0.70
7261.00	34.890	42.870	6627.89	-158.87	1619.35	1538.94	1686152.57	424030.92	39°39'31.9071"N	80°36'53.1710"W	2233.97	43.542	1.82	1.78	0.63
7347.00	36.280	43.900	6697.83	-162.56	1655.71	1573.32	1686186.94	424067.28	39°39'32.2707"N	80°36'52.7373"W	2284.01	43.538	1.76	1.62	1.20
7434.00	38.420	45.110	6766.99	-165.41	1693.34	1610.32	1686223.95	424104.91	39°39'32.6471"N	80°36'52.2701"W	2336.78	43.561	2.60	2.46	1.39
7520.00	39.670	43.590	6833.78	-168.51	1732.08	1648.18	1686261.80	424143.65	39°39'33.0346"N	80°36'51.7923"W	2390.95	43.578	1.83	1.45	-1.77
7607.00	39.900	41.030	6900.64	-173.66	1773.25	1685.65	1686299.27	424184.81	39°39'33.4460"N	80°36'51.3198"W	2446.59	43.549	1.90	0.26	-2.94
7662.00	40.250	39.950	6942.73	-178.06	1800.18	1708.64	1686322.26	424211.74	39°39'33.7149"N	80°36'51.0301"W	2481.95	43.506	1.42	0.64	-1.96
7733.00	40.170	35.790	6996.96	-185.82	1836.34	1736.77	1686350.38	424247.90	39°39'34.0758"N	80°36'50.6763"W	2527.55	43.404	3.78	-0.11	-5.86
7828.00	36.680	45.510	7071.44	-193.15	1881.14	1774.97	1686388.58	424292.69	39°39'34.5231"N	80°36'50.1949"W	2586.35	43.337	7.33	-3.67	10.23
7922.00	36.740	61.080	7146.96	-187.63	1914.48	1819.71	1686433.32	424326.03	39°39'34.8581"N	80°36'49.6282"W	2641.32	43.546	9.88	0.06	16.56
8017.00	37.480	75.730	7222.87	-167.36	1935.39	1872.70	1686486.30	424346.94	39°39'35.0712"N	80°36'48.9541"W	2693.08	44.057	9.32	0.78	15.42
8112.00	37.790	91.890	7298.29	-133.34	1941.57	1929.94	1686543.54	424353.12	39°39'35.1393"N	80°36'48.2232"W	2737.58	44.828	10.37	0.33	17.01
8205.00	40.110	105.620	7370.75	-87.95	1932.54	1987.38	1686600.98	424344.09	39°39'35.0572"N	80°36'47.4874"W	2772.08	45.802	9.59	2.49	14.76
8300.00	43.810	119.200	7441.53	-30.66	1908.20	2045.70	1686659.30	424319.75	39°39'34.8238"N	80°36'46.7379"W	2797.52	46.992	10.30	3.89	14.29
8394.00	50.120	127.600	7505.71	35.86	1870.25	2102.79	1686716.38	424281.80	39°39'34.4557"N	80°36'46.0020"W	2814.17	48.350	9.36	6.71	8.94
8488.00	57.630	132.260	7561.10	111.03	1821.46	2160.85	1686774.44	424233.01	39°39'33.9806"N	80°36'45.2520"W	2826.12	49.871	8.93	7.99	4.96
8583.00	66.410	135.540	7605.64	194.66	1763.28	2221.16	1686834.75	424174.84	39°39'33.4131"N	80°36'44.4717"W	2835.97	51.556	9.73	9.24	3.45
8679.00	75.210	138.810	7637.17	285.22	1696.81	2282.67	1686896.25	424108.38	39°39'32.7638"N	80°36'43.6748"W	2844.25	53.375	9.71	9.17	3.41
8774.00	82.960	142.930	7655.15	378.26	1624.50	2341.45	1686955.03	424036.07	39°39'32.0563"N	80°36'42.9119"W	2849.80	55.247	9.20	8.16	4.34
8868.00	87.900	145.860	7662.64	471.26	1548.34	2395.97	1687009.54	423959.92	39°39'31.3104"N	80°36'42.2027"W	2852.72	57.128	6.10	5.26	3.12
8963.00	88.490	149.500	7665.64	564.74	1468.11	2446.73	1687060.30	423879.69	39°39'30.5237"N	80°36'41.5411"W	2853.39	59.035	3.88	0.62	3.83
9058.00	89.470	149.530	7667.33	657.68	1386.26	2494.91	1687108.48	423797.84	39°39'29.7207"N	80°36'40.9121"W	2854.17	60.942	1.03	1.03	0.03
9153.00	90.260	149.620	7667.55	750.62	1304.34	2543.02	1687156.59	423715.93	39°39'28.9171"N	80°36'40.2841"W	2858.02	62.846	0.84	0.83	0.09



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Field	Wetzel	API/Legal	
Facility	Haggard Pad	Wellbore	Haggard 16H AWB
Slot	Slot 16		

WELLPATH DATA (252 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]
9248.00	90.200	149.330	7667.17	843.59	1222.51	2591.27	1687204.84	423634.10	39°39'28.1143"N	80°36'39.6543"W	2865.18	64.743	0.31	-0.06	-0.31
9343.00	90.380	149.050	7666.69	936.66	1140.92	2639.93	1687253.49	423552.52	39°39'27.3139"N	80°36'39.0193"W	2875.92	66.627	0.35	0.19	-0.29
9438.00	89.150	148.210	7667.08	1029.91	1059.81	2689.38	1687302.94	423471.41	39°39'26.5184"N	80°36'38.3743"W	2890.67	68.492	1.57	-1.29	-0.88
9533.00	89.680	149.450	7668.05	1123.09	978.53	2738.55	1687352.10	423390.14	39°39'25.7212"N	80°36'37.7329"W	2908.12	70.337	1.42	0.56	1.31
9628.00	89.740	149.620	7668.53	1216.04	896.64	2786.72	1687400.27	423308.26	39°39'24.9179"N	80°36'37.1041"W	2927.41	72.164	0.19	0.06	0.18
9722.00	89.550	149.070	7669.11	1308.08	815.78	2834.64	1687448.19	423227.40	39°39'24.1246"N	80°36'36.4786"W	2949.69	73.945	0.62	-0.20	-0.59
9817.00	89.640	149.220	7669.78	1401.16	734.23	2883.36	1687496.91	423145.85	39°39'23.3246"N	80°36'35.8429"W	2975.38	75.714	0.18	0.09	0.16
9911.00	89.610	150.120	7670.40	1493.09	653.10	2930.83	1687544.37	423064.73	39°39'22.5286"N	80°36'35.2232"W	3002.72	77.438	0.96	-0.03	0.96
10006.00	89.670	150.080	7671.00	1585.84	570.74	2978.19	1687591.72	422982.38	39°39'21.7206"N	80°36'34.6048"W	3032.38	79.151	0.08	0.06	-0.04
10101.00	89.740	150.610	7671.48	1678.51	488.19	3025.19	1687638.72	422899.83	39°39'20.9105"N	80°36'33.9909"W	3064.33	80.833	0.56	0.07	0.56
10196.00	90.200	150.400	7671.53	1771.11	405.50	3071.96	1687685.49	422817.15	39°39'20.0990"N	80°36'33.3799"W	3098.61	82.480	0.53	0.48	-0.22
10291.00	90.070	150.350	7671.31	1863.77	322.92	3118.92	1687732.45	422734.57	39°39'19.2887"N	80°36'32.7665"W	3135.59	84.089	0.15	-0.14	-0.05
10387.00	89.980	150.300	7671.27	1957.42	239.51	3166.45	1687779.98	422651.17	39°39'18.4702"N	80°36'32.1457"W	3175.49	85.674	0.11	-0.09	-0.05
10482.00	88.500	149.320	7672.53	2050.26	157.41	3214.22	1687827.74	422569.07	39°39'17.6646"N	80°36'31.5221"W	3218.07	87.196	1.87	-1.56	-1.03
10576.00	90.840	150.370	7673.07	2142.12	76.14	3261.43	1687874.95	422487.80	39°39'16.8673"N	80°36'30.9057"W	3262.32	88.663	2.73	2.49	1.12
10671.00	90.200	150.270	7672.21	2234.79	-6.40	3308.47	1687921.99	422405.27	39°39'16.0574"N	80°36'30.2913"W	3308.47	90.111	0.68	-0.67	-0.11
10766.00	89.920	150.260	7672.11	2327.49	-88.89	3355.59	1687969.10	422322.79	39°39'15.2479"N	80°36'29.6759"W	3356.76	91.517	0.29	-0.29	-0.01
10861.00	90.070	150.270	7672.12	2420.19	-171.38	3402.71	1688016.22	422240.30	39°39'14.4384"N	80°36'29.0605"W	3407.02	92.883	0.16	0.16	0.01
10956.00	89.980	149.790	7672.08	2512.97	-253.68	3450.16	1688063.67	422158.01	39°39'13.6309"N	80°36'28.4409"W	3459.48	94.205	0.51	-0.09	-0.51
11051.00	90.070	149.930	7672.03	2605.81	-335.83	3497.86	1688111.37	422075.86	39°39'12.8249"N	80°36'27.8181"W	3513.95	95.484	0.18	0.09	0.15
11147.00	90.130	150.630	7671.87	2699.47	-419.20	3545.46	1688158.96	421992.49	39°39'12.0068"N	80°36'27.1966"W	3570.15	96.743	0.73	0.06	0.73
11241.00	90.350	150.250	7671.47	2791.13	-500.97	3591.83	1688205.33	421910.73	39°39'11.2044"N	80°36'26.5908"W	3626.60	97.940	0.47	0.23	-0.40
11336.00	90.470	150.280	7670.79	2883.82	-583.46	3638.95	1688252.44	421828.25	39°39'10.3949"N	80°36'25.9755"W	3685.43	99.109	0.13	0.13	0.03
11431.00	90.410	150.250	7670.06	2976.51	-665.95	3686.06	1688299.56	421745.77	39°39'9.5855"N	80°36'25.3602"W	3745.74	100.241	0.07	-0.06	-0.03
11526.00	90.350	149.980	7669.43	3069.26	-748.31	3733.40	1688346.89	421663.40	39°39'8.7773"N	80°36'24.7421"W	3807.65	101.334	0.29	-0.06	-0.28
11621.00	92.070	150.530	7667.43	3161.93	-830.77	3780.52	1688394.01	421580.95	39°39'7.9681"N	80°36'24.1267"W	3870.72	102.394	1.90	1.81	0.58
11716.00	90.100	150.080	7665.63	3254.59	-913.28	3827.57	1688441.06	421498.45	39°39'7.1585"N	80°36'23.5122"W	3935.02	103.420	2.13	-2.07	-0.47
11810.00	90.010	150.110	7665.54	3346.38	-994.76	3874.43	1688487.92	421416.97	39°39'6.3590"N	80°36'22.9003"W	4000.10	104.400	0.10	-0.10	0.03
11906.00	89.850	150.110	7665.62	3440.10	-1077.99	3922.28	1688535.76	421333.74	39°39'5.5423"N	80°36'22.2756"W	4067.72	105.368	0.12	-0.12	0.00
12002.00	90.100	150.440	7665.63	3533.77	-1161.36	3969.88	1688583.35	421250.38	39°39'4.7242"N	80°36'21.6540"W	4136.26	106.306	0.41	0.22	0.34

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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]
12097.00	89.920	150.230	7665.61	3626.44	-1243.91	4016.89	1688630.37	421167.84	39°39'3.9141"N	80°36'21.0400"W	4205.09	107.206	0.29	-0.19	-0.22
12192.00	89.950	150.600	7665.72	3719.08	-1326.52	4063.80	1688677.27	421085.23	39°39'3.1034"N	80°36'20.4274"W	4274.82	108.078	0.39	0.03	0.39
12287.00	89.920	150.260	7665.83	3811.72	-1409.15	4110.68	1688724.15	421002.61	39°39'2.2926"N	80°36'19.8151"W	4345.50	108.922	0.36	-0.03	-0.36
12382.00	90.130	150.490	7665.79	3904.37	-1491.73	4157.64	1688771.10	420920.03	39°39'1.4822"N	80°36'19.2018"W	4417.15	109.738	0.33	0.22	0.24
12477.00	90.040	150.260	7665.65	3997.03	-1574.31	4204.60	1688818.06	420837.45	39°39'0.6718"N	80°36'18.5885"W	4489.67	110.527	0.26	-0.09	-0.24
12572.00	90.130	150.250	7665.51	4089.73	-1656.79	4251.73	1688865.19	420754.98	39°38'59.8624"N	80°36'17.9730"W	4563.13	111.290	0.10	0.09	-0.01
12667.00	90.250	150.000	7665.19	4182.47	-1739.17	4299.05	1688912.51	420672.61	39°38'59.0541"N	80°36'17.3551"W	4637.52	112.026	0.29	0.13	-0.26
12763.00	89.420	149.740	7665.47	4276.29	-1822.20	4347.24	1688960.69	420589.58	39°38'58.2394"N	80°36'16.7261"W	4713.69	112.742	0.91	-0.86	-0.27
12858.00	89.980	150.230	7665.96	4369.08	-1904.46	4394.76	1689008.21	420507.33	39°38'57.4323"N	80°36'16.1057"W	4789.66	113.429	0.78	0.59	0.52
12954.00	89.950	150.000	7666.02	4462.81	-1987.69	4442.59	1689056.04	420424.10	39°38'56.6156"N	80°36'15.4811"W	4866.99	114.105	0.24	-0.03	-0.24
13049.00	89.880	150.500	7666.16	4555.51	-2070.17	4489.73	1689103.18	420341.63	39°38'55.8062"N	80°36'14.8656"W	4944.02	114.754	0.53	-0.07	0.53
13144.00	89.950	150.080	7666.31	4648.19	-2152.68	4536.82	1689150.26	420259.12	39°38'54.9965"N	80°36'14.2508"W	5021.63	115.384	0.45	0.07	-0.44
13239.00	89.910	150.100	7666.42	4740.95	-2235.03	4584.19	1689197.63	420176.78	39°38'54.1885"N	80°36'13.6323"W	5100.01	115.992	0.05	-0.04	0.02
13334.00	89.850	150.620	7666.62	4833.61	-2317.60	4631.17	1689244.61	420094.22	39°38'53.3782"N	80°36'13.0187"W	5178.70	116.585	0.55	-0.06	0.55
13429.00	90.220	149.850	7666.56	4926.32	-2400.06	4678.33	1689291.76	420011.75	39°38'52.5690"N	80°36'12.4029"W	5258.05	117.159	0.90	0.39	-0.81
13524.00	90.250	150.410	7666.17	5019.06	-2482.44	4725.64	1689339.07	419929.38	39°38'51.7606"N	80°36'11.7852"W	5338.00	117.714	0.59	0.03	0.59
13619.00	90.250	150.200	7665.76	5111.74	-2564.96	4772.70	1689386.13	419846.86	39°38'50.9508"N	80°36'11.1707"W	5418.28	118.255	0.22	0.00	-0.22
13714.00	90.160	150.300	7665.42	5204.44	-2647.44	4819.84	1689433.27	419764.39	39°38'50.1415"N	80°36'10.5551"W	5499.08	118.779	0.14	-0.09	0.11
13809.00	89.910	149.970	7665.36	5297.18	-2729.83	4867.15	1689480.57	419682.01	39°38'49.3331"N	80°36'9.9375"W	5580.42	119.287	0.44	-0.26	-0.35
13905.00	89.850	148.780	7665.56	5391.17	-2812.43	4916.05	1689529.47	419599.41	39°38'48.5226"N	80°36'9.2994"W	5663.69	119.774	1.24	-0.06	-1.24
14000.00	90.160	150.430	7665.55	5484.09	-2894.37	4964.12	1689577.53	419517.47	39°38'47.7187"N	80°36'8.6722"W	5746.29	120.245	1.77	0.33	1.74
14095.00	90.160	150.130	7665.29	5576.78	-2976.88	5011.21	1689624.63	419434.97	39°38'46.9091"N	80°36'8.0572"W	5828.73	120.712	0.32	0.00	-0.32
14190.00	90.280	150.340	7664.92	5669.49	-3059.34	5058.38	1689671.79	419352.51	39°38'46.0998"N	80°36'7.4414"W	5911.58	121.166	0.25	0.13	0.22
14285.00	90.160	149.880	7664.56	5762.24	-3141.71	5105.72	1689719.13	419270.16	39°38'45.2916"N	80°36'6.8234"W	5994.89	121.605	0.50	-0.13	-0.48
14380.00	90.130	150.150	7664.32	5855.03	-3223.99	5153.20	1689766.60	419187.88	39°38'44.4842"N	80°36'6.2036"W	6078.61	122.031	0.29	-0.03	0.28
14475.00	89.940	150.200	7664.26	5947.75	-3306.41	5200.44	1689813.85	419105.46	39°38'43.6755"N	80°36'5.5867"W	6162.54	122.448	0.21	-0.20	0.05
14570.00	89.880	150.050	7664.41	6040.50	-3388.78	5247.77	1689861.16	419023.09	39°38'42.8671"N	80°36'4.9689"W	6246.83	122.853	0.17	-0.06	-0.16
14665.00	89.970	150.190	7664.53	6133.25	-3471.16	5295.09	1689908.49	418940.73	39°38'42.0588"N	80°36'4.3511"W	6331.42	123.247	0.18	0.09	0.15
14761.00	89.880	150.240	7664.66	6226.94	-3554.47	5342.78	1689956.17	418857.41	39°38'41.2412"N	80°36'3.7284"W	6417.13	123.635	0.11	-0.09	0.05
14855.00	89.850	150.160	7664.88	6318.68	-3636.04	5389.50	1690002.89	418775.85	39°38'40.4408"N	80°36'3.1185"W	6501.34	124.006	0.09	-0.03	-0.09



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REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT PRODUCTION COMPANY	Well	Haggard 16H
Field	Wetzel	API/Legal	
Facility	Haggard Pad	Wellbore	Haggard 16H AWB
Slot	Slot 16		

WELLPATH DATA (252 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]
14951.00	90.190	149.810	7664.85	6412.45	-3719.17	5437.52	1690050.90	418692.73	39°38'39.6251"N	80°36'2.4917"W	6587.78	124.371	0.51	0.35	-0.36
15046.00	90.130	149.780	7664.58	6505.32	-3801.27	5485.31	1690098.70	418610.63	39°38'38.8196"N	80°36'1.8679"W	6673.70	124.722	0.07	-0.06	-0.03
15141.00	90.130	150.250	7664.37	6598.10	-3883.55	5532.79	1690146.17	418528.35	39°38'38.0121"N	80°36'1.2482"W	6759.72	125.066	0.49	0.00	0.49
15236.00	90.280	150.280	7664.03	6690.80	-3966.05	5579.91	1690193.29	418445.87	39°38'37.2026"N	80°36'0.6330"W	6845.79	125.404	0.16	0.16	0.03
15331.00	90.340	149.110	7663.51	6783.69	-4048.06	5627.84	1690241.22	418363.86	39°38'36.3979"N	80°36'0.0074"W	6932.49	125.727	1.23	0.06	-1.23
15427.00	90.440	150.090	7662.86	6877.60	-4130.86	5676.42	1690289.79	418281.06	39°38'35.5856"N	80°35'59.3735"W	7020.38	126.044	1.03	0.10	1.02
15523.00	90.250	149.320	7662.28	6971.47	-4213.75	5724.85	1690338.22	418198.18	39°38'34.7723"N	80°35'58.7416"W	7108.41	126.355	0.83	-0.20	-0.80
15517.00	90.220	147.470	7661.89	7063.80	-4293.80	5774.11	1690387.47	418118.13	39°38'33.9871"N	80°35'58.0994"W	7195.63	126.636	1.97	-0.03	-1.97
15713.00	90.590	148.720	7661.22	7158.20	-4375.29	5824.84	1690438.21	418036.64	39°38'33.1879"N	80°35'57.4382"W	7285.05	126.912	1.36	0.39	1.30
15808.00	90.650	150.040	7660.19	7251.20	-4457.04	5873.22	1690486.59	417954.90	39°38'32.3859"N	80°35'56.8070"W	7372.92	127.194	1.39	0.06	1.39
15903.00	90.650	149.640	7659.11	7344.04	-4539.18	5920.95	1690534.31	417872.77	39°38'31.5800"N	80°35'56.1841"W	7460.68	127.475	0.42	0.00	-0.42
15998.00	90.620	150.060	7658.06	7436.88	-4621.32	5968.66	1690582.02	417790.63	39°38'30.7740"N	80°35'55.5614"W	7548.61	127.749	0.44	-0.03	0.44
16093.00	90.530	149.960	7657.10	7529.66	-4703.59	6016.15	1690629.50	417708.36	39°38'29.9667"N	80°35'54.9416"W	7636.61	128.019	0.14	-0.09	-0.11
16188.00	90.500	150.050	7656.25	7622.45	-4785.87	6063.64	1690676.99	417626.09	39°38'29.1594"N	80°35'54.3217"W	7724.78	128.283	0.10	-0.03	0.09
16283.00	90.340	149.750	7655.55	7715.27	-4868.05	6111.28	1690724.63	417543.91	39°38'28.3529"N	80°35'53.6999"W	7813.17	128.540	0.36	-0.17	-0.32
16377.00	90.590	150.420	7654.79	7807.05	-4949.53	6158.16	1690771.50	417462.45	39°38'27.5534"N	80°35'53.0880"W	7900.68	128.790	0.76	0.27	0.71
16473.00	90.190	149.970	7654.14	7900.74	-5032.83	6205.87	1690819.21	417379.15	39°38'26.7360"N	80°35'52.4651"W	7990.13	129.041	0.63	-0.42	-0.47
16568.00	90.310	149.990	7653.72	7993.54	-5115.08	6253.40	1690866.74	417296.90	39°38'25.9289"N	80°35'51.8448"W	8078.93	129.282	0.13	0.13	0.02
16663.00	90.090	150.150	7653.39	8086.31	-5197.41	6300.80	1690914.13	417214.58	39°38'25.1210"N	80°35'51.2261"W	8167.81	129.519	0.29	-0.23	0.17
16757.00	90.090	150.270	7653.24	8178.05	-5278.99	6347.50	1690960.83	417133.00	39°38'24.3204"N	80°35'50.6165"W	8255.82	129.749	0.13	0.00	0.13
16852.00	90.090	150.330	7653.09	8270.73	-5361.51	6394.57	1691007.90	417050.49	39°38'23.5106"N	80°35'50.0020"W	8344.84	129.978	0.06	0.00	0.06
16947.00	90.000	150.010	7653.02	8363.46	-5443.92	6441.83	1691055.15	416968.08	39°38'22.7019"N	80°35'49.3851"W	8434.06	130.201	0.35	-0.09	-0.34
17042.00	90.090	149.390	7652.95	8456.35	-5525.94	6489.76	1691103.08	416886.06	39°38'21.8971"N	80°35'48.7597"W	8523.67	130.414	0.66	0.09	-0.65
17137.00	90.060	149.170	7652.82	8549.39	-5607.61	6538.29	1691151.61	416804.40	39°38'21.0959"N	80°35'48.1267"W	8613.62	130.618	0.23	-0.03	-0.23
17233.00	90.560	149.390	7652.30	8643.41	-5690.14	6587.33	1691200.64	416721.88	39°38'20.2862"N	80°35'47.4870"W	8704.63	130.820	0.57	0.52	0.23
17327.00	90.370	149.690	7651.54	8735.38	-5771.16	6634.98	1691248.29	416640.86	39°38'19.4913"N	80°35'46.8653"W	8793.70	131.017	0.38	-0.20	0.32
17422.00	90.310	149.640	7650.98	8828.29	-5853.16	6682.96	1691296.27	416558.87	39°38'18.6868"N	80°35'46.2393"W	8883.77	131.213	0.08	-0.06	-0.05
17517.00	90.220	149.200	7650.54	8921.28	-5934.94	6731.28	1691344.59	416477.09	39°38'17.8843"N	80°35'45.6088"W	8974.06	131.402	0.47	-0.09	-0.46
17612.00	90.400	150.710	7650.02	9014.08	-6017.17	6778.85	1691392.15	416394.86	39°38'17.0774"N	80°35'44.9881"W	9064.17	131.594	1.60	0.19	1.59
17707.00	90.250	150.760	7649.48	9106.60	-6100.05	6825.29	1691438.59	416312.00	39°38'16.2640"N	80°35'44.3816"W	9153.97	131.789	0.17	-0.16	0.05

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Haggard 16H
Field	Wetzel	API/Legal	
Facility	Haggard Pad	Wellbore	Haggard 16H AWB
Slot	Slot 16		

WELLPATH DATA (252 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]
17803.00	90.250	150.330	7649.06	9200.17	-6183.64	6872.49	1691485.79	416228.41	39°38'15.4437"N	80°35'43.7653"W	9244.92	131.980	0.45	0.00	-0.45
17897.00	90.370	149.920	7648.56	9291.94	-6265.14	6919.32	1691532.61	416146.91	39°38'14.6438"N	80°35'43.1541"W	9334.29	132.159	0.45	0.13	-0.44
17992.00	90.770	150.600	7647.61	9384.63	-6347.63	6966.44	1691579.73	416064.43	39°38'13.8344"N	80°35'42.5390"W	9424.63	132.339	0.83	0.42	0.72
18087.00	90.860	151.370	7646.26	9477.05	-6430.69	7012.51	1691625.80	415981.37	39°38'13.0190"N	80°35'41.9372"W	9514.68	132.522	0.82	0.09	0.81
18182.00	90.740	151.270	7644.93	9569.33	-6514.03	7058.10	1691671.39	415898.04	39°38'12.2009"N	80°35'41.3416"W	9604.65	132.704	0.16	-0.13	-0.11
18276.00	90.430	152.600	7643.97	9660.41	-6596.97	7102.32	1691715.61	415815.10	39°38'11.3866"N	80°35'40.7635"W	9693.45	132.887	1.45	-0.33	1.41
18372.00	90.150	151.160	7643.49	9753.45	-6681.64	7147.57	1691760.85	415730.44	39°38'10.5554"N	80°35'40.1720"W	9784.27	133.070	1.53	-0.29	-1.50
18466.00	91.410	152.080	7642.21	9844.64	-6764.33	7192.24	1691805.52	415647.75	39°38'9.7436"N	80°35'39.5882"W	9873.42	133.244	1.66	1.34	0.98
18561.00	90.120	152.400	7640.94	9936.56	-6848.39	7236.48	1691849.76	415563.70	39°38'8.9182"N	80°35'39.0096"W	9963.29	133.422	1.40	-1.36	0.34
18656.00	88.460	149.540	7642.12	10028.97	-6931.43	7282.57	1691895.85	415480.66	39°38'8.1030"N	80°35'38.4076"W	10053.89	133.585	3.48	-1.75	-3.01
18751.00	87.110	148.230	7645.79	10122.06	-7012.70	7331.63	1691944.90	415399.40	39°38'7.3058"N	80°35'37.7681"W	10145.48	133.726	1.98	-1.42	-1.38
18846.00	87.810	149.240	7650.00	10215.19	-7093.82	7380.88	1691994.15	415318.28	39°38'6.5101"N	80°35'37.1259"W	10237.17	133.864	1.29	0.74	1.06
18941.00	90.950	150.970	7651.03	10307.92	-7176.17	7428.22	1692041.49	415235.94	39°38'5.7020"N	80°35'36.5081"W	10328.40	134.011	3.77	3.31	1.82
19036.00	91.850	150.730	7648.71	10400.37	-7259.11	7474.48	1692087.74	415153.01	39°38'4.8879"N	80°35'35.9040"W	10419.33	134.163	0.98	0.95	-0.25
19131.00	92.680	150.370	7644.95	10492.89	-7341.77	7521.15	1692134.41	415070.35	39°38'4.0767"N	80°35'35.2946"W	10510.44	134.309	0.95	0.87	-0.38
19226.00	90.830	151.310	7642.04	10585.32	-7424.68	7567.41	1692180.67	414987.44	39°38'3.2628"N	80°35'34.6905"W	10601.49	134.455	2.18	-1.95	0.99
19321.00	90.120	151.040	7641.25	10677.67	-7507.91	7613.22	1692226.47	414904.22	39°38'2.4458"N	80°35'34.0922"W	10692.51	134.601	0.80	-0.75	-0.28
19416.00	90.060	150.310	7641.10	10770.22	-7590.73	7659.74	1692272.99	414821.40	39°38'1.6329"N	80°35'33.4847"W	10783.83	134.741	0.77	-0.06	-0.77
19511.00	92.280	153.600	7639.16	10862.22	-7674.55	7704.39	1692317.64	414737.59	39°38'0.8100"N	80°35'32.9010"W	10874.57	134.889	4.18	2.34	3.46
19606.00	90.490	151.090	7636.87	10954.06	-7758.66	7748.47	1692361.71	414653.49	39°37'59.9841"N	80°35'32.3246"W	10965.20	135.038	3.24	-1.88	-2.64
19700.00	90.520	150.360	7636.04	11045.61	-7840.65	7794.43	1692407.68	414571.50	39°37'59.1794"N	80°35'31.7245"W	11055.72	135.169	0.78	0.03	-0.78
19796.00	90.520	150.890	7635.17	11139.14	-7924.30	7841.52	1692454.76	414487.85	39°37'58.3583"N	80°35'31.1097"W	11148.27	135.301	0.55	0.00	0.55
19891.00	90.890	150.920	7634.00	11231.59	-8007.31	7887.71	1692500.95	414404.85	39°37'57.5436"N	80°35'30.5064"W	11239.79	135.431	0.39	0.39	0.03
19986.00	90.860	150.700	7632.55	11324.08	-8090.23	7934.04	1692547.27	414321.93	39°37'56.7296"N	80°35'29.9015"W	11331.41	135.558	0.23	-0.03	-0.23
20081.00	90.860	152.180	7631.12	11416.31	-8173.66	7979.45	1692592.68	414238.51	39°37'55.9106"N	80°35'29.3082"W	11422.80	135.689	1.56	0.00	1.56
20175.00	91.170	152.110	7629.46	11507.30	-8256.76	8023.36	1692636.59	414155.42	39°37'55.0947"N	80°35'28.7341"W	11512.97	135.821	0.34	0.33	-0.07
20270.00	91.140	152.310	7627.54	11599.21	-8340.78	8067.65	1692680.87	414071.40	39°37'54.2696"N	80°35'28.1551"W	11604.12	135.954	0.21	-0.03	0.21
20364.00	90.210	152.200	7626.43	11690.16	-8423.97	8111.40	1692724.63	413988.22	39°37'53.4528"N	80°35'27.5830"W	11694.36	136.083	1.00	-0.99	-0.12
20460.00	90.060	152.100	7626.21	11783.08	-8508.85	8156.25	1692769.47	413903.34	39°37'52.6194"N	80°35'26.9967"W	11786.64	136.212	0.19	-0.16	-0.10
20555.00	90.030	151.600	7626.13	11875.16	-8592.62	8201.05	1692814.27	413819.57	39°37'51.7969"N	80°35'26.4112"W	11878.15	136.336	0.50	-0.03	-0.49

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WELLPATH DATA (252 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]
20650.00	89.970	152.260	7626.13	11967.21	-8676.46	8245.73	1692858.94	413735.74	39°37'50.9737"N	80°35'25.8271"W	11969.67	136.458	0.67	-0.06	0.66
20745.00	90.060	151.980	7626.11	12059.18	-8760.43	8290.15	1692903.36	413651.77	39°37'50.1492"N	80°35'25.2464"W	12061.17	136.580	0.31	0.09	-0.29
20840.00	90.090	152.100	7625.98	12151.19	-8844.34	8334.69	1692947.90	413567.87	39°37'49.3253"N	80°35'24.6641"W	12152.76	136.699	0.13	0.03	0.13
20935.00	90.370	152.130	7625.60	12243.16	-8928.31	8379.12	1692992.33	413483.90	39°37'48.5008"N	80°35'24.0833"W	12244.36	136.817	0.30	0.29	0.03
21030.00	90.030	152.220	7625.27	12335.11	-9012.33	8423.47	1693036.67	413399.89	39°37'47.6758"N	80°35'23.5036"W	12336.00	136.934	0.37	-0.36	0.09
21125.00	89.910	152.190	7625.32	12427.05	-9096.37	8467.76	1693080.97	413315.86	39°37'46.8506"N	80°35'22.9244"W	12427.67	137.050	0.13	-0.13	-0.03
21220.00	90.000	152.210	7625.40	12518.99	-9180.40	8512.07	1693125.27	413231.83	39°37'46.0255"N	80°35'22.3452"W	12519.39	137.163	0.10	0.09	0.02
21315.00	90.280	152.030	7625.16	12610.97	-9264.38	8556.50	1693169.69	413147.86	39°37'45.2010"N	80°35'21.7645"W	12611.20	137.275	0.35	0.29	-0.19
21410.00	90.310	151.870	7624.68	12703.01	-9348.22	8601.17	1693214.36	413064.03	39°37'44.3778"N	80°35'21.1806"W	12703.12	137.383	0.17	0.03	-0.17
21504.00	90.280	152.040	7624.19	12794.08	-9431.18	8645.36	1693258.55	412981.07	39°37'43.5632"N	80°35'20.6029"W	12794.12	137.489	0.18	-0.03	0.18
21595.00	90.240	151.730	7623.78	12882.28	-9511.44	8688.25	1693301.43	412900.81	39°37'42.7752"N	80°35'20.0425"W	12882.28	137.590	0.34	-0.04	-0.34
21620.00‡	90.240	151.730	7623.67	12906.52	-9533.46	8700.09	1693313.27	412878.80	39°37'42.5590"N	80°35'19.8878"W	12906.52	137.617	0.00	0.00	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Haggard 16H AWB Ref Wellpath: Haggard 16H AWB Proj:21620'

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	0.01	0.03
17.5in Open Hole	68.00	1493.00	1425.00	68.00	1492.91	0.01	0.03	-5.75	13.18
13.375in Casing Surface	28.00	1493.00	1465.00	28.00	1492.91	0.00	0.00	-5.75	13.18
12.25in Open Hole	1493.00	2925.00	1432.00	1492.91	2920.00	-5.75	13.18	82.17	70.80
9.625in Casing Intermediate	28.00	2925.00	2897.00	28.00	2920.00	0.00	0.00	82.17	70.80
8.75in Open Hole	2925.00	7743.00	4818.00	2920.00	7004.62	82.17	70.80	1841.52	1740.57
8.5in Open Hole	7743.00	21620.00	13877.00	7004.62	7623.67	1841.52	1740.57	-9533.46	8700.09
6in Casing Production	28.00	21620.00	21592.00	28.00	7623.67	0.00	0.00	-9533.46	8700.09

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Haggard 16H AWB Proj:21620'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Haggard 16H
Field	Wetzel	API/Legal	
Facility	Haggard Pad	Wellbore	Haggard 16H AWB
Slot	Slot 16		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Haggard 16H BHL Rev-1	7676.00	-9534.01	8699.75	1693312.93	412878.24	39°37'42.5535"N	80°35'19.8920"W	point
Haggard 16H LP Rev-1	7676.00	1498.72	2422.72	1687036.29	423910.30	39°39'30.8233"N	80°36'41.8530"W	point

WELLPATH COMPOSITION - Ref Wellbore: Haggard 16H AWB Ref Wellpath: Haggard 16H AWB Proj:21620'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	1452.00	Gyrodata 2015 - CT+WIR+DPIPE	01_Gyrodata Cont. Gyro <17-1/2">(115'-1452')	Haggard 16H AWB	9/20/2023
1452.00	2971.00	OWSG MWD rev2 + HRGM	02_SDI MWD <12-1/4">(1452')(1545'-2971')	Haggard 16H AWB	9/28/2023
2971.00	7662.00	OWSG MWD rev2 + HRGM	03_SDI MWD <8-3/4">(2971')(3014'-7662')	Haggard 16H AWB	9/20/2023
7662.00	21620.00	OWSG MWD rev2 + IFR1 + Sag + Multi-Station Correction	04_BH Lucida+SQC IFR1+SAG+FDIR <8-1/2">(7662')(7733'- 21595')	Haggard 16H AWB	9/29/2023

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Haggard 16H AWB Proj:21620'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Haggard 16H
Field	Wetzel	API/Legal	
Facility	Haggard Pad	Wellbore	Haggard 16H AWB
Slot	Slot 16		

COMMENTS

Wellpath general comments

API: 47-103-03532-0000

BH Job #: 111973996

Rig: Patterson 292

Duration: 10/3/2023-10/8/2023

01_Gyrodata Cont. Gyro <17-1/2">(115'-1452')

02_SDI MWD <12-1/4">(1452')(1545'-2971')

03_SDI MWD <8-3/4">(2971')(3014'-7662')

04_BH Lucida+SQC IFR1+SAG+FDIR <8-1/2">(7662')(7733'- 21595')

Landing Pt. @ 8868' MD

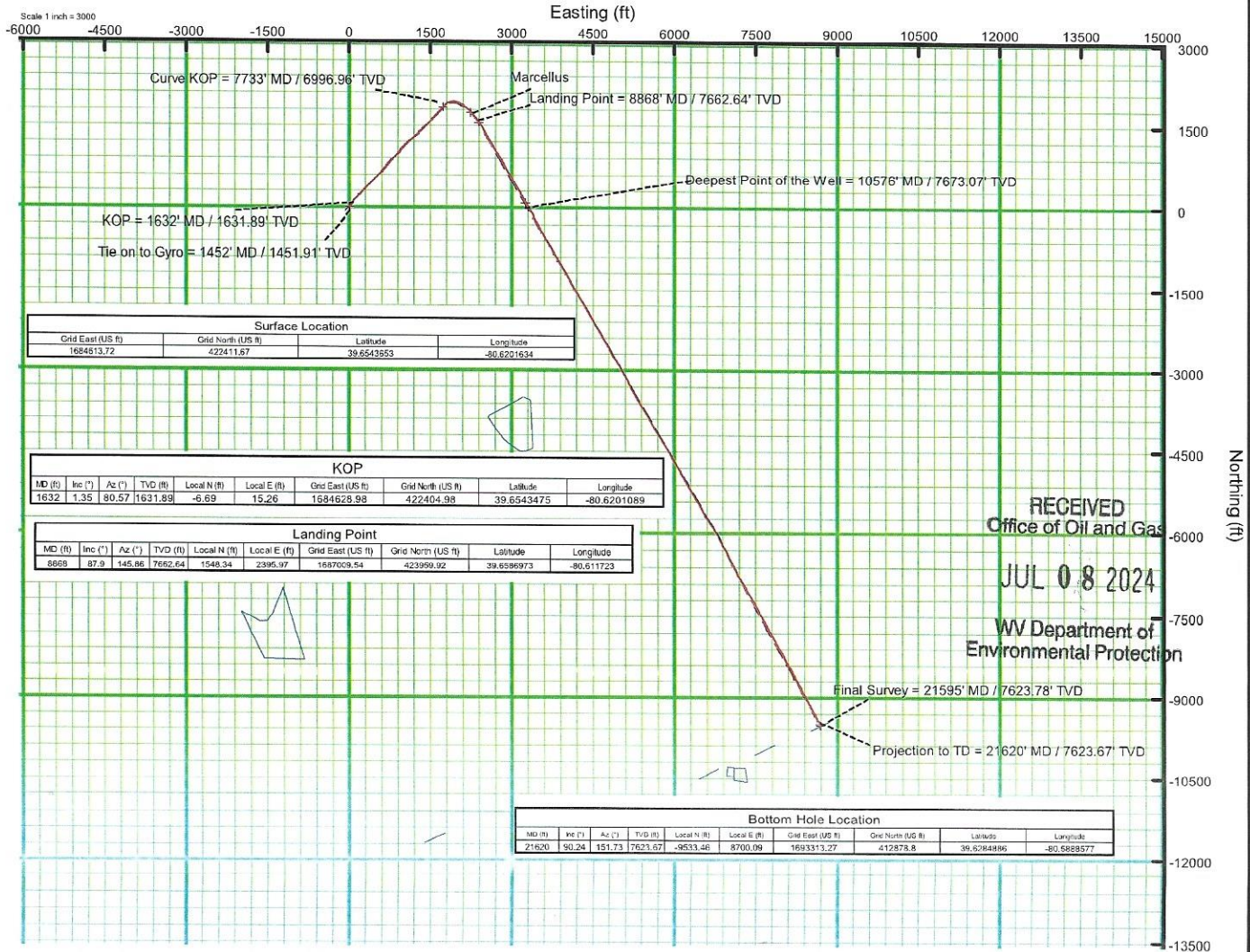
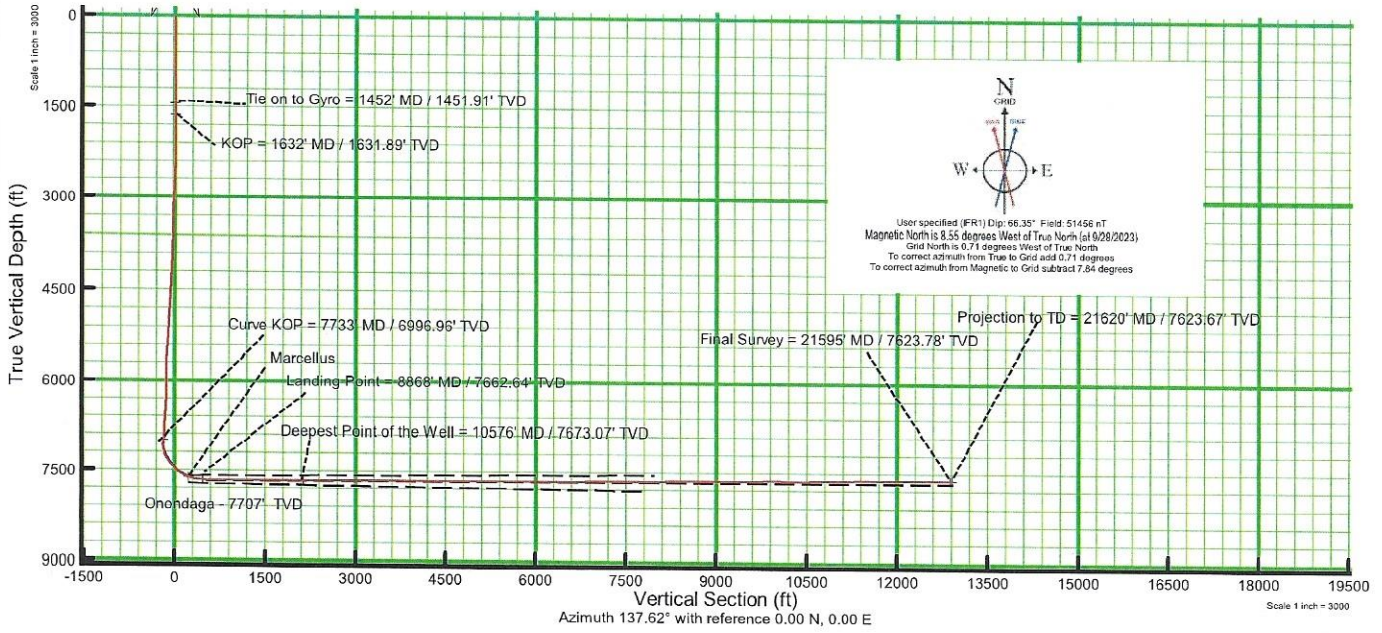
Final Survey @ 21595' MD

Projected MD at TD: 21620'

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



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Bottom Hole Location									
MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
21620	90.24	151.73	7623.67	-9533.46	8700.09	1683313.27	412878.8	39.6284886	-80.5888577

08/16/2024