



Actual Wellpath Report

Haggard 14H AWB Proj: 20815'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Haggard 14H
Field	Wetzel	API	47-103-03531-0000
Facility	Haggard Pad	Wellbore	Haggard 14H AWB
Slot	Slot 14		

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	10/16/2023 at 12:59:19 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	68.50	58.37	1684604.00	422400.25	39°39'15.6010"N	80°37'12.7106"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 14)	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	142.38°

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WELLPATH DATA (266 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	193.200	0.00	0.00	0.00	0.00	1684604.00	422400.25	39°39'15.6010"N	80°37'12.7106"W	0.00	0.000	0.00	0.00	0.00
28.00	0.000	193.200	28.00	0.00	0.00	0.00	1684604.00	422400.25	39°39'15.6010"N	80°37'12.7106"W	0.00	0.000	0.00	0.00	0.00
115.00	0.150	193.200	115.00	0.07	-0.11	-0.03	1684603.97	422400.14	39°39'15.5999"N	80°37'12.7109"W	0.11	193.200	0.17	0.17	0.00
215.00	0.150	166.190	215.00	0.27	-0.37	-0.02	1684603.98	422399.88	39°39'15.5974"N	80°37'12.7108"W	0.37	183.859	0.07	0.00	-27.01
315.00	0.120	187.120	315.00	0.47	-0.60	-0.01	1684603.99	422399.65	39°39'15.5951"N	80°37'12.7105"W	0.60	180.613	0.06	-0.03	20.93
415.00	0.140	202.360	415.00	0.60	-0.81	-0.07	1684603.93	422399.44	39°39'15.5929"N	80°37'12.7113"W	0.82	184.628	0.04	0.02	15.24
515.00	0.120	215.830	515.00	0.70	-1.01	-0.17	1684603.83	422399.24	39°39'15.5910"N	80°37'12.7126"W	1.03	189.742	0.04	-0.02	13.47
615.00	0.130	175.690	615.00	0.82	-1.21	-0.23	1684603.77	422399.04	39°39'15.5890"N	80°37'12.7133"W	1.23	190.604	0.09	0.01	-40.14
715.00	0.190	174.960	715.00	1.05	-1.49	-0.20	1684603.80	422398.76	39°39'15.5862"N	80°37'12.7129"W	1.50	187.782	0.06	0.06	-0.73
815.00	0.200	187.440	815.00	1.32	-1.83	-0.21	1684603.79	422398.42	39°39'15.5829"N	80°37'12.7130"W	1.84	186.603	0.04	0.01	12.48
915.00	0.160	198.760	915.00	1.52	-2.13	-0.28	1684603.72	422398.12	39°39'15.5799"N	80°37'12.7138"W	2.15	187.455	0.05	-0.04	11.32
1015.00	0.070	169.620	1015.00	1.65	-2.32	-0.31	1684603.69	422397.93	39°39'15.5780"N	80°37'12.7142"W	2.34	187.666	0.10	-0.09	-29.14
1115.00	0.100	157.550	1115.00	1.79	-2.46	-0.27	1684603.73	422397.79	39°39'15.5766"N	80°37'12.7136"W	2.48	186.217	0.03	0.03	-12.07
1215.00	0.190	159.420	1215.00	2.03	-2.70	-0.18	1684603.82	422397.55	39°39'15.5743"N	80°37'12.7124"W	2.71	183.746	0.09	0.09	1.87
1315.00	0.280	158.310	1315.00	2.42	-3.08	-0.03	1684603.97	422397.17	39°39'15.5705"N	80°37'12.7104"W	3.08	180.524	0.09	0.09	-1.11
1415.00	0.270	174.360	1414.99	2.86	-3.54	0.09	1684604.09	422396.71	39°39'15.5660"N	80°37'12.7089"W	3.54	178.622	0.08	-0.01	16.05
1489.00	0.500	176.290	1488.99	3.27	-4.04	0.12	1684604.12	422396.21	39°39'15.5611"N	80°37'12.7083"W	4.04	178.252	0.31	0.31	2.61
1529.00	0.440	121.480	1528.99	3.56	-4.29	0.27	1684604.27	422395.96	39°39'15.5586"N	80°37'12.7065"W	4.30	176.461	1.09	-0.15	-137.02
1546.00	0.420	116.250	1545.99	3.68	-4.36	0.38	1684604.38	422395.89	39°39'15.5580"N	80°37'12.7050"W	4.37	175.052	0.26	-0.12	-30.76
1590.00	0.660	117.220	1589.99	4.05	-4.54	0.75	1684604.75	422395.71	39°39'15.5562"N	80°37'12.7003"W	4.60	170.661	0.55	0.55	2.20
1633.00	0.670	108.680	1632.99	4.49	-4.74	1.21	1684605.21	422395.51	39°39'15.5543"N	80°37'12.6944"W	4.89	165.721	0.23	0.02	-19.86
1675.00	1.100	90.340	1674.98	4.94	-4.82	1.84	1684605.84	422395.43	39°39'15.5536"N	80°37'12.6863"W	5.16	159.083	1.21	1.02	-43.67
1717.00	1.830	90.410	1716.97	5.60	-4.82	2.92	1684606.91	422395.43	39°39'15.5536"N	80°37'12.6725"W	5.64	148.861	1.74	1.74	0.17
1760.00	2.140	86.010	1759.94	6.47	-4.77	4.40	1684608.40	422395.48	39°39'15.5543"N	80°37'12.6535"W	6.49	137.317	0.80	0.72	-10.23
1802.00	2.520	87.080	1801.91	7.43	-4.67	6.11	1684610.11	422395.58	39°39'15.5556"N	80°37'12.6317"W	7.69	127.419	0.91	0.90	2.55
1846.00	2.670	84.570	1845.86	8.53	-4.53	8.09	1684612.09	422395.72	39°39'15.5572"N	80°37'12.6064"W	9.27	119.215	0.43	0.34	-5.70
1889.00	3.110	76.320	1888.81	9.53	-4.16	10.22	1684614.22	422396.09	39°39'15.5612"N	80°37'12.5792"W	11.04	112.119	1.41	1.02	-19.19
1932.00	3.360	75.490	1931.74	10.50	-3.56	12.58	1684616.58	422396.69	39°39'15.5673"N	80°37'12.5492"W	13.07	105.820	0.59	0.58	-1.93
1975.00	3.570	74.980	1974.66	11.51	-2.90	15.09	1684619.09	422397.35	39°39'15.5742"N	80°37'12.5172"W	15.37	100.883	0.49	0.49	-1.19
2018.00	3.600	72.960	2017.58	12.49	-2.15	17.67	1684621.67	422398.10	39°39'15.5819"N	80°37'12.4843"W	17.80	96.936	0.36	0.07	-5.63

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Facility	Haggard Pad	Wellbore	Haggard 14H AWB
Slot	Slot 14		

WELLPATH DATA (266 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]
2061.00	3.770	69.740	2060.49	13.38	-1.26	20.28	1684624.28	422398.99	39°39'15.5911"N	80°37'12.4510"W	20.32	93.541	0.58	0.40	-6.56
2105.00	3.710	63.940	2104.39	14.09	-0.13	22.92	1684626.92	422400.12	39°39'15.6025"N	80°37'12.4175"W	22.92	90.323	0.87	-0.14	-13.18
2148.00	3.720	59.610	2147.30	14.55	1.19	25.37	1684629.37	422401.44	39°39'15.6158"N	80°37'12.3864"W	25.40	87.320	0.65	0.02	-10.07
2191.00	3.970	63.540	2190.21	15.01	2.56	27.91	1684631.91	422402.81	39°39'15.6297"N	80°37'12.3542"W	28.03	84.766	0.84	0.58	9.14
2233.00	4.120	64.760	2232.10	15.62	3.85	30.58	1684634.57	422404.10	39°39'15.6428"N	80°37'12.3203"W	30.82	82.827	0.41	0.36	2.90
2275.00	3.970	66.760	2274.00	16.30	5.06	33.28	1684637.27	422405.31	39°39'15.6551"N	80°37'12.2860"W	33.66	81.346	0.49	-0.36	4.76
2318.00	3.780	70.050	2316.90	17.10	6.14	35.98	1684639.97	422406.39	39°39'15.6660"N	80°37'12.2516"W	36.50	80.321	0.68	-0.44	7.65
2361.00	3.490	72.400	2359.81	17.98	7.02	38.56	1684642.55	422407.26	39°39'15.6750"N	80°37'12.2188"W	39.19	79.688	0.76	-0.67	5.47
2404.00	3.100	74.180	2402.74	18.86	7.73	40.92	1684644.92	422407.98	39°39'15.6824"N	80°37'12.1886"W	41.65	79.306	0.94	-0.91	4.14
2448.00	3.050	76.570	2446.68	19.78	8.32	43.21	1684647.20	422408.57	39°39'15.6886"N	80°37'12.1595"W	44.00	79.095	0.31	-0.11	5.43
2491.00	2.850	75.880	2489.62	20.68	8.85	45.36	1684649.35	422409.10	39°39'15.6940"N	80°37'12.1321"W	46.21	78.958	0.47	-0.47	-1.60
2534.00	2.160	65.210	2532.58	21.28	9.45	47.13	1684651.12	422409.70	39°39'15.7002"N	80°37'12.1096"W	48.07	78.660	1.93	-1.60	-24.81
2577.00	1.370	38.410	2575.56	21.34	10.19	48.18	1684652.18	422410.44	39°39'15.7076"N	80°37'12.0962"W	49.25	78.054	2.61	-1.84	-62.33
2621.00	1.540	37.120	2619.55	21.06	11.08	48.87	1684652.86	422411.33	39°39'15.7165"N	80°37'12.0876"W	50.11	77.228	0.39	0.39	-2.93
2664.00	1.450	22.710	2662.53	20.63	12.04	49.43	1684653.42	422412.29	39°39'15.7260"N	80°37'12.0806"W	50.87	76.309	0.90	-0.21	-33.51
2707.00	1.490	358.250	2705.52	19.91	13.10	49.62	1684653.62	422413.35	39°39'15.7365"N	80°37'12.0783"W	51.32	75.210	1.45	0.09	-56.88
2751.00	1.720	356.930	2749.50	18.90	14.33	49.57	1684653.56	422414.58	39°39'15.7487"N	80°37'12.0792"W	51.60	73.873	0.53	0.52	-3.00
2794.00	1.940	358.410	2792.48	17.78	15.70	49.51	1684653.51	422415.95	39°39'15.7623"N	80°37'12.0801"W	51.94	72.402	0.52	0.51	3.44
2837.00	2.160	350.160	2835.45	16.48	17.23	49.35	1684653.35	422417.48	39°39'15.7773"N	80°37'12.0824"W	52.27	70.755	0.85	0.51	-19.19
2877.00	1.970	2.120	2875.42	15.28	18.66	49.25	1684653.25	422418.91	39°39'15.7914"N	80°37'12.0839"W	52.66	69.249	1.17	-0.48	29.90
2971.00	2.210	350.760	2969.36	12.45	22.06	49.02	1684653.01	422422.31	39°39'15.8250"N	80°37'12.0874"W	53.75	65.767	0.51	0.26	-12.09
3014.00	2.580	345.240	3012.32	10.82	23.82	48.64	1684652.63	422424.07	39°39'15.8423"N	80°37'12.0926"W	54.16	63.910	1.01	0.86	-12.84
3057.00	1.540	3.260	3055.30	9.50	25.33	48.42	1684652.42	422425.58	39°39'15.8573"N	80°37'12.0955"W	54.65	62.386	2.82	-2.42	41.91
3101.00	1.100	27.110	3099.29	8.87	26.30	48.65	1684652.65	422426.54	39°39'15.8668"N	80°37'12.0928"W	55.30	61.608	1.58	-1.00	54.20
3144.00	0.980	92.040	3142.28	8.93	26.65	49.21	1684653.20	422426.90	39°39'15.8704"N	80°37'12.0858"W	55.96	61.559	2.61	-0.28	151.00
3187.00	1.490	117.620	3185.27	9.67	26.38	50.07	1684654.07	422426.63	39°39'15.8678"N	80°37'12.0747"W	56.59	62.218	1.72	1.19	59.49
3230.00	1.740	155.500	3228.25	10.81	25.53	50.83	1684654.83	422425.77	39°39'15.8595"N	80°37'12.0648"W	56.88	63.338	2.50	0.58	88.09
3273.00	2.220	173.710	3271.23	12.16	24.10	51.20	1684655.19	422424.35	39°39'15.8455"N	80°37'12.0599"W	56.59	64.789	1.83	1.12	42.35
3317.00	1.350	102.710	3315.21	13.34	22.74	51.36	1684655.35	422422.99	39°39'15.8320"N	80°37'12.0576"W	56.17	66.115	1.98	-1.98	-2.27
3360.00	0.710	14.530	3358.20	13.66	22.41	51.46	1684655.46	422422.66	39°39'15.8288"N	80°37'12.0562"W	56.13	66.469	4.17	-2.05	-367.86

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3403.00	2.060	13.200	3401.19	13.07	23.33	51.68	1684655.68	422423.58	39°39'15.8379"N	80°37'12.0535"W	56.71	65.703	3.70	3.70	-3.09
3446.00	3.060	20.980	3444.15	11.98	25.16	52.27	1684656.27	422425.41	39°39'15.8560"N	80°37'12.0463"W	58.01	64.300	2.46	2.33	18.09
3490.00	3.960	30.290	3488.07	10.80	27.57	53.46	1684657.46	422427.81	39°39'15.8800"N	80°37'12.0315"W	60.15	62.722	2.41	2.05	21.16
3533.00	4.960	39.830	3530.94	9.84	30.28	55.40	1684659.40	422430.52	39°39'15.9070"N	80°37'12.0072"W	63.13	61.343	2.89	2.33	22.19
3577.00	5.850	48.290	3574.74	9.26	33.23	58.29	1684662.29	422433.48	39°39'15.9365"N	80°37'11.9707"W	67.10	60.315	2.71	2.02	19.23
3620.00	6.040	51.270	3617.51	9.06	36.10	61.69	1684665.69	422436.35	39°39'15.9653"N	80°37'11.9276"W	71.48	59.664	0.84	0.44	6.93
3663.00	5.810	49.340	3660.28	8.90	38.94	65.11	1684669.10	422439.18	39°39'15.9938"N	80°37'11.8844"W	75.86	59.120	0.71	-0.53	-4.49
3706.00	6.530	49.610	3703.03	8.67	41.94	68.62	1684672.62	422442.19	39°39'16.0239"N	80°37'11.8400"W	80.42	58.569	1.68	1.67	0.63
3749.00	7.670	48.680	3745.70	8.37	45.42	72.64	1684676.63	422445.66	39°39'16.0587"N	80°37'11.7892"W	85.67	57.984	2.66	2.65	-2.16
3793.00	8.830	48.240	3789.24	7.93	49.61	77.36	1684681.36	422449.85	39°39'16.1007"N	80°37'11.7294"W	91.90	57.332	2.64	2.64	-1.00
3836.00	9.850	48.100	3831.67	7.42	54.26	82.56	1684686.56	422454.51	39°39'16.1474"N	80°37'11.6637"W	98.80	56.687	2.37	2.37	-0.33
3879.00	10.780	46.270	3873.98	6.72	59.50	88.21	1684692.20	422459.74	39°39'16.1998"N	80°37'11.5924"W	106.40	56.000	2.29	2.16	-4.26
3922.00	11.960	44.500	3916.13	5.68	65.45	94.24	1684698.23	422465.70	39°39'16.2594"N	80°37'11.5163"W	114.74	55.217	2.86	2.74	-4.12
3965.00	12.990	42.340	3958.12	4.23	72.20	100.61	1684704.61	422472.45	39°39'16.3269"N	80°37'11.4358"W	123.84	54.335	2.63	2.40	-5.02
4008.00	13.120	41.060	4000.01	2.42	79.46	107.07	1684711.07	422479.70	39°39'16.3994"N	80°37'11.3544"W	133.33	53.422	0.74	0.30	-2.98
4052.00	13.530	41.280	4042.82	0.45	87.09	113.75	1684717.74	422487.33	39°39'16.4756"N	80°37'11.2702"W	143.26	52.561	0.94	0.93	0.50
4095.00	14.450	42.680	4084.55	-1.42	94.81	120.71	1684724.70	422495.06	39°39'16.5528"N	80°37'11.1826"W	153.49	51.850	2.28	2.14	3.26
4138.00	15.350	42.810	4126.10	-3.27	102.93	128.21	1684732.20	422503.18	39°39'16.6340"N	80°37'11.0879"W	164.42	51.241	2.09	2.09	0.30
4181.00	16.370	42.310	4167.46	-5.27	111.59	136.16	1684740.15	422511.83	39°39'16.7205"N	80°37'10.9877"W	176.04	50.663	2.39	2.37	-1.16
4225.00	17.310	41.300	4209.57	-7.62	121.09	144.65	1684748.64	422521.34	39°39'16.8155"N	80°37'10.8806"W	188.65	50.066	2.24	2.14	-2.30
4268.00	18.260	40.490	4250.52	-10.23	131.02	153.25	1684757.24	422531.26	39°39'16.9147"N	80°37'10.7723"W	201.62	49.470	2.28	2.21	-1.88
4311.00	19.370	40.570	4291.22	-13.08	141.56	162.26	1684766.25	422541.80	39°39'17.0199"N	80°37'10.6588"W	215.33	48.897	2.58	2.58	0.19
4354.00	20.310	41.410	4331.67	-15.96	152.58	171.83	1684775.82	422552.82	39°39'17.1300"N	80°37'10.5381"W	229.80	48.397	2.28	2.19	1.95
4398.00	21.220	41.490	4372.81	-18.92	164.27	182.16	1684786.15	422564.51	39°39'17.2468"N	80°37'10.4080"W	245.29	47.956	2.07	2.07	0.18
4441.00	21.660	41.150	4412.83	-21.93	176.07	192.54	1684796.53	422576.31	39°39'17.3647"N	80°37'10.2772"W	260.91	47.557	1.06	1.02	-0.79
4475.00	22.130	41.240	4444.38	-24.39	185.61	200.89	1684804.88	422585.85	39°39'17.4600"N	80°37'10.1720"W	273.51	47.263	1.39	1.38	0.26
4518.00	22.820	41.140	4484.12	-27.58	197.98	211.71	1684815.70	422598.22	39°39'17.5836"N	80°37'10.0355"W	289.86	46.919	1.61	1.60	-0.23
4561.00	23.680	41.720	4523.62	-30.81	210.71	222.95	1684826.93	422610.95	39°39'17.7107"N	80°37'9.8940"W	306.76	46.616	2.07	2.00	1.35
4604.00	24.410	42.730	4562.89	-33.89	223.68	234.72	1684838.71	422623.92	39°39'17.8404"N	80°37'9.7455"W	324.23	46.380	1.95	1.70	2.35
4647.00	24.950	43.120	4601.96	-36.84	236.83	246.95	1684850.94	422637.06	39°39'17.9718"N	80°37'9.5913"W	342.16	46.199	1.31	1.26	0.91

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Haggard 14H AWB Proj: 20815'

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Field	Wetzel	API	47-103-03531-0000
Facility	Haggard Pad	Wellbore	Haggard 14H AWB
Slot	Slot 14		

WELLPATH DATA (266 stations)															
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4690.00	25.070	42.510	4640.93	-39.86	250.16	259.31	1684863.29	422650.40	39°39'18.1051"N	80°37'9.4354"W	360.31	46.028	0.66	0.28	-1.42
4733.00	25.770	41.360	4679.77	-43.21	263.90	271.64	1684875.62	422664.13	39°39'18.2423"N	80°37'9.2799"W	378.72	45.828	1.99	1.63	-2.67
4777.00	25.580	39.880	4719.42	-47.10	278.36	284.05	1684888.03	422678.60	39°39'18.3868"N	80°37'9.1236"W	397.71	45.579	1.52	-0.43	-3.36
4820.00	25.980	38.810	4758.15	-51.32	292.83	295.90	1684899.89	422693.06	39°39'18.5312"N	80°37'8.9743"W	416.30	45.299	1.43	0.93	-2.49
4863.00	26.760	37.920	4796.67	-55.94	307.80	307.76	1684911.74	422708.03	39°39'18.6807"N	80°37'8.8252"W	435.27	44.996	2.03	1.81	-2.07
4949.00	28.580	38.500	4872.83	-65.71	339.18	332.46	1684936.44	422739.41	39°39'18.9938"N	80°37'8.5143"W	474.94	44.427	2.14	2.12	0.67
5036.00	29.010	38.750	4949.07	-75.68	371.92	358.62	1684962.60	422772.14	39°39'19.3205"N	80°37'8.1851"W	516.65	43.957	0.51	0.49	0.29
5123.00	28.990	40.030	5025.17	-85.16	404.51	385.39	1684989.36	422804.74	39°39'19.6459"N	80°37'7.8482"W	558.71	43.613	0.71	-0.02	1.47
5209.00	29.090	42.010	5100.36	-93.38	436.00	412.78	1685016.76	422836.23	39°39'19.9605"N	80°37'7.5029"W	600.41	43.433	1.12	0.12	2.30
5295.00	28.790	42.390	5175.62	-100.73	466.83	440.74	1685044.71	422867.05	39°39'20.2686"N	80°37'7.1505"W	642.01	43.353	0.41	-0.35	0.44
5382.00	28.800	42.450	5251.86	-107.98	497.77	469.00	1685072.97	422897.99	39°39'20.5778"N	80°37'6.7940"W	683.91	43.296	0.04	0.01	0.07
5468.00	29.170	42.560	5327.09	-115.13	528.49	497.16	1685101.13	422928.71	39°39'20.8849"N	80°37'6.4389"W	725.58	43.250	0.43	0.43	0.13
5555.00	29.580	42.780	5402.90	-122.32	559.87	526.09	1685130.05	422960.08	39°39'21.1985"N	80°37'6.0741"W	768.26	43.218	0.49	0.47	0.25
5641.00	29.160	40.640	5477.85	-130.13	591.35	554.15	1685158.11	422991.56	39°39'21.5131"N	80°37'5.7204"W	810.41	43.140	1.31	-0.49	-2.49
5728.00	28.320	39.330	5554.13	-139.10	623.39	581.03	1685185.00	423023.61	39°39'21.8331"N	80°37'5.3818"W	852.18	42.986	1.21	-0.97	-1.51
5813.00	27.460	40.420	5629.26	-147.71	653.91	606.52	1685210.48	423054.12	39°39'22.1378"N	80°37'5.0608"W	891.89	42.847	1.18	-1.01	1.28
5899.00	27.230	41.000	5705.65	-155.71	683.85	632.28	1685236.25	423084.06	39°39'22.4369"N	80°37'4.7362"W	931.36	42.756	0.41	-0.27	0.67
5986.00	26.940	40.420	5783.11	-163.72	713.88	658.12	1685262.08	423114.09	39°39'22.7368"N	80°37'4.4107"W	970.95	42.673	0.45	-0.33	-0.67
6072.00	26.850	40.450	5859.81	-171.77	743.49	683.35	1685287.31	423143.70	39°39'23.0325"N	80°37'4.0928"W	1009.83	42.587	0.11	-0.10	0.03
6159.00	28.150	41.560	5936.98	-179.68	773.80	709.71	1685313.67	423174.00	39°39'23.3353"N	80°37'3.7606"W	1049.98	42.526	1.61	1.49	1.28
6245.00	28.260	42.110	6012.76	-187.12	804.08	736.83	1685340.78	423204.28	39°39'23.6379"N	80°37'3.4188"W	1090.62	42.501	0.33	0.13	0.64
6331.00	27.990	42.040	6088.61	-194.37	834.17	763.99	1685367.94	423234.37	39°39'23.9386"N	80°37'3.0763"W	1131.16	42.485	0.32	-0.31	-0.08
6418.00	28.910	41.170	6165.10	-202.13	865.17	791.51	1685395.46	423265.36	39°39'24.2483"N	80°37'2.7295"W	1172.60	42.454	1.16	1.06	-1.00
6504.00	30.160	40.150	6239.93	-210.74	897.33	819.12	1685423.07	423297.53	39°39'24.5695"N	80°37'2.3815"W	1214.97	42.391	1.57	1.45	-1.19
6591.00	30.150	39.980	6315.15	-220.07	930.78	847.25	1685451.20	423330.97	39°39'24.9035"N	80°37'2.0272"W	1258.64	42.310	0.10	-0.01	-0.20
6677.00	29.600	40.560	6389.72	-229.05	963.46	874.94	1685478.89	423363.65	39°39'25.2299"N	80°37'1.6784"W	1301.45	42.243	0.72	-0.64	0.67
6763.00	28.590	40.040	6464.87	-237.80	995.35	901.99	1685505.93	423395.54	39°39'25.5484"N	80°37'1.3377"W	1343.25	42.183	1.21	-1.17	-0.60
6850.00	27.970	39.280	6541.49	-246.88	1027.08	928.30	1685532.24	423427.27	39°39'25.8652"N	80°37'1.0064"W	1384.43	42.108	0.82	-0.71	-0.87
6936.00	27.980	37.000	6617.44	-256.56	1058.66	953.40	1685557.35	423458.84	39°39'26.1803"N	80°37'0.6904"W	1424.69	42.006	0.86	0.01	-1.84
7023.00	27.900	37.300	6694.30	-267.03	1091.00	978.22	1685582.16	423491.18	39°39'26.5029"N	80°37'0.3783"W	1465.33	41.880	0.23	-0.09	-0.46

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Slot	Slot 14		

WELLPATH DATA (266 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]
7109.00	28.060	36.980	6770.25	-277.63	1123.16	1002.58	1685606.52	423523.34	39°39'26.8238"N	80°37'0.0720"W	1505.54	41.753	0.26	0.19	-0.37
7196.00	28.260	38.470	6846.95	-288.02	1155.63	1027.70	1685631.64	423555.81	39°39'27.1478"N	80°36'59.7560"W	1546.50	41.647	0.84	0.23	1.71
7252.00	28.060	40.700	6896.32	-293.87	1176.00	1044.54	1685648.47	423576.18	39°39'27.3511"N	80°36'59.5440"W	1572.91	41.612	1.91	-0.36	3.98
7350.00	27.600	46.240	6983.00	-300.97	1209.18	1075.97	1685679.90	423609.36	39°39'27.6829"N	80°36'59.1474"W	1618.59	41.664	2.68	-0.47	5.65
7445.00	27.080	61.610	7067.50	-299.85	1234.71	1110.93	1685714.86	423634.89	39°39'27.9395"N	80°36'58.7045"W	1660.93	41.979	7.43	-0.55	16.18
7540.00	28.380	77.590	7151.70	-286.75	1249.87	1152.06	1685755.99	423650.04	39°39'28.0943"N	80°36'58.1810"W	1699.83	42.668	7.92	1.37	16.82
7635.00	31.250	90.170	7234.20	-262.00	1254.65	1198.81	1685802.74	423654.83	39°39'28.1473"N	80°36'58.9282"W	1735.31	43.696	7.23	3.02	13.24
7730.00	34.670	100.830	7313.97	-226.64	1249.50	1250.05	1685853.97	423649.67	39°39'28.1027"N	80°36'56.9282"W	1767.45	45.013	7.08	3.60	11.22
7825.00	38.920	111.970	7390.11	-180.61	1233.23	1304.35	1685908.27	423633.41	39°39'27.9486"N	80°36'56.2314"W	1795.05	46.605	8.31	4.47	11.73
7920.00	46.620	121.180	7459.86	-122.54	1204.12	1361.70	1685965.62	423604.30	39°39'27.6679"N	80°36'55.4936"W	1817.73	48.514	10.43	8.11	9.69
8015.00	55.220	129.610	7519.76	-52.10	1161.25	1421.47	1686025.39	423561.43	39°39'27.2516"N	80°36'54.7226"W	1835.51	50.754	11.36	9.05	8.87
8109.00	63.280	135.020	7567.81	27.36	1106.82	1481.02	1686084.93	423507.00	39°39'26.7210"N	80°36'53.9527"W	1848.91	53.228	9.89	8.57	5.76
8204.00	69.590	140.840	7605.80	114.09	1042.18	1539.22	1686143.13	423442.36	39°39'26.0893"N	80°36'53.1983"W	1858.86	55.899	8.69	6.64	6.13
8298.00	76.390	145.470	7633.29	203.89	970.27	1593.02	1686196.93	423370.46	39°39'25.3853"N	80°36'52.4991"W	1865.25	58.655	8.63	7.23	4.93
8392.00	79.600	151.240	7652.86	295.28	892.03	1641.21	1686245.11	423292.22	39°39'24.6180"N	80°36'51.8707"W	1867.96	61.475	6.91	3.41	6.14
8487.00	87.810	151.380	7663.26	388.48	809.26	1686.50	1686290.40	423209.46	39°39'23.8057"N	80°36'51.2785"W	1870.61	64.366	8.64	8.64	0.15
8582.00	89.500	150.630	7665.49	482.37	726.20	1732.54	1686336.43	423126.40	39°39'22.9904"N	80°36'50.6768"W	1878.58	67.259	1.95	1.78	-0.79
8677.00	89.440	150.100	7666.37	576.45	643.63	1779.51	1686383.40	423043.84	39°39'22.1802"N	80°36'50.0632"W	1892.33	70.116	0.56	-0.06	-0.56
8772.00	89.540	151.060	7667.22	670.47	560.88	1826.17	1686430.06	422961.10	39°39'21.3682"N	80°36'49.4535"W	1910.37	72.926	1.02	0.11	1.01
8867.00	89.510	150.350	7668.01	764.47	478.04	1872.65	1686476.54	422878.26	39°39'20.5552"N	80°36'48.8461"W	1932.71	75.680	0.75	-0.03	-0.75
8962.00	89.350	150.620	7668.95	858.51	395.37	1919.45	1686523.34	422795.59	39°39'19.7439"N	80°36'48.2347"W	1959.75	78.361	0.33	-0.17	0.28
9057.00	89.230	149.830	7670.13	952.62	312.92	1966.63	1686570.51	422713.15	39°39'18.9349"N	80°36'47.6186"W	1991.37	80.959	0.84	-0.13	-0.83
9152.00	89.420	149.910	7671.25	1046.80	230.76	2014.31	1686618.19	422630.99	39°39'18.1288"N	80°36'46.9960"W	2027.48	83.465	0.22	0.20	0.08
9247.00	89.270	150.390	7672.33	1140.92	148.37	2061.59	1686665.47	422548.61	39°39'17.3204"N	80°36'46.3785"W	2066.92	85.884	0.53	-0.16	0.51
9342.00	89.360	149.810	7673.47	1235.05	66.02	2108.94	1686712.82	422466.26	39°39'16.5124"N	80°36'45.7601"W	2109.98	88.207	0.62	0.09	-0.61
9437.00	89.970	150.270	7674.03	1329.20	-16.28	2156.39	1686760.25	422383.97	39°39'15.7049"N	80°36'45.1406"W	2156.45	90.433	0.80	0.64	0.48
9532.00	90.160	150.250	7673.92	1423.31	-98.77	2203.51	1686807.38	422301.48	39°39'14.8955"N	80°36'44.5250"W	2205.72	92.567	0.20	0.20	-0.02
9626.00	90.250	150.180	7673.58	1516.43	-180.35	2250.21	1686854.07	422219.91	39°39'14.0950"N	80°36'43.9152"W	2257.42	94.582	0.12	0.10	-0.07
9721.00	90.160	150.600	7673.24	1610.50	-262.95	2297.14	1686901.00	422137.32	39°39'13.2845"N	80°36'43.3021"W	2312.14	96.530	0.45	-0.09	0.44
9815.00	90.650	149.830	7672.58	1703.62	-344.53	2343.84	1686947.69	422055.75	39°39'12.4840"N	80°36'42.6922"W	2369.02	98.362	0.97	0.52	-0.82

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9910.00	90.370	149.050	7671.73	1797.89	-426.33	2392.14	1686995.99	421973.95	39°39'11.6815"N	80°36'42.0618"W	2429.83	100.105	0.87	-0.29	-0.82
10005.00	90.800	150.820	7670.76	1892.06	-508.54	2439.72	1687043.58	421891.74	39°39'10.8749"N	80°36'41.4405"W	2492.16	101.774	1.92	0.45	1.86
10100.00	89.510	150.390	7670.50	1986.08	-591.30	2486.35	1687090.20	421808.98	39°39'10.0627"N	80°36'40.8313"W	2555.70	103.378	1.43	-1.36	-0.45
10195.00	89.630	149.970	7671.22	2080.20	-673.72	2533.59	1687137.44	421726.57	39°39'9.2540"N	80°36'40.2144"W	2621.64	104.891	0.46	0.13	-0.44
10290.00	88.740	149.600	7672.57	2174.40	-755.81	2581.39	1687185.24	421644.49	39°39'8.4486"N	80°36'39.5903"W	2689.77	106.320	1.01	-0.94	-0.39
10386.00	89.700	149.900	7673.88	2269.59	-838.73	2629.75	1687233.59	421561.57	39°39'7.6351"N	80°36'38.9590"W	2760.26	107.689	1.05	1.00	0.31
10480.00	90.710	152.000	7673.54	2362.54	-920.89	2675.39	1687279.23	421479.41	39°39'6.8287"N	80°36'38.3625"W	2829.45	108.994	2.48	1.07	2.23
10575.00	89.540	150.280	7673.33	2456.42	-1004.09	2721.24	1687325.08	421396.22	39°39'6.0121"N	80°36'37.7632"W	2900.58	110.253	2.19	-1.23	-1.81
10670.00	89.360	149.900	7674.24	2550.56	-1086.43	2768.61	1687372.44	421313.88	39°39'5.2041"N	80°36'37.1447"W	2974.15	111.426	0.44	-0.19	-0.40
10765.00	89.600	149.830	7675.11	2644.75	-1168.59	2816.30	1687420.13	421231.73	39°39'4.3981"N	80°36'36.5220"W	3049.13	112.535	0.26	0.25	-0.07
10860.00	90.960	151.610	7674.64	2738.73	-1251.45	2862.76	1687466.59	421148.88	39°39'3.5849"N	80°36'35.9151"W	3124.34	113.612	2.36	1.43	1.87
10955.00	89.420	149.680	7674.33	2832.74	-1334.24	2909.33	1687513.15	421066.09	39°39'2.7724"N	80°36'35.3067"W	3200.69	114.637	2.60	-1.62	-2.03
11050.00	89.390	149.860	7675.31	2926.95	-1416.32	2957.16	1687560.98	420984.02	39°39'1.9671"N	80°36'34.6823"W	3278.83	115.592	0.19	-0.03	0.19
11145.00	89.940	149.000	7675.87	3021.22	-1498.11	3005.47	1687609.29	420902.23	39°39'1.1647"N	80°36'34.0518"W	3358.15	116.494	1.07	0.58	-0.91
11240.00	90.030	148.840	7675.89	3115.61	-1579.47	3054.51	1687658.33	420820.87	39°39'0.3666"N	80°36'33.4120"W	3438.72	117.343	0.19	0.09	-0.17
11335.00	90.030	148.900	7675.84	3210.00	-1660.79	3103.63	1687707.44	420739.56	39°38'59.5690"N	80°36'32.7714"W	3520.05	118.152	0.06	0.00	0.06
11430.00	90.250	149.060	7675.61	3304.37	-1742.21	3152.58	1687756.39	420658.15	39°38'58.7704"N	80°36'32.1327"W	3601.95	118.926	0.29	0.23	0.17
11525.00	90.280	149.360	7675.17	3398.69	-1823.82	3201.21	1687805.02	420576.54	39°38'57.9699"N	80°36'31.4982"W	3684.30	119.671	0.32	0.03	0.32
11619.00	90.190	148.710	7674.79	3492.06	-1904.42	3249.58	1687853.38	420495.95	39°38'57.1792"N	80°36'30.8672"W	3766.51	120.372	0.70	-0.10	-0.69
11714.00	90.460	149.170	7674.25	3586.43	-1985.80	3298.59	1687902.39	420414.57	39°38'56.3810"N	80°36'30.2278"W	3850.21	121.049	0.56	0.28	0.48
11809.00	90.400	148.990	7673.53	3680.78	-2067.29	3347.40	1687951.20	420333.08	39°38'55.5816"N	80°36'29.5910"W	3934.31	121.699	0.20	-0.06	-0.19
11904.00	90.190	148.880	7673.05	3775.16	-2148.67	3396.42	1688000.22	420251.71	39°38'54.7834"N	80°36'28.9515"W	4019.01	122.319	0.25	-0.22	-0.12
11999.00	90.250	149.090	7672.68	3869.53	-2230.09	3445.37	1688049.16	420170.30	39°38'53.9847"N	80°36'28.3130"W	4104.13	122.914	0.23	0.06	0.22
12094.00	90.190	148.900	7672.32	3963.90	-2311.51	3494.31	1688098.09	420088.88	39°38'53.1860"N	80°36'27.6746"W	4189.66	123.485	0.21	-0.06	-0.20
12189.00	90.160	148.940	7672.03	4058.28	-2392.87	3543.35	1688147.13	420007.52	39°38'52.3880"N	80°36'27.0349"W	4275.65	124.032	0.05	-0.03	0.04
12284.00	90.160	148.480	7671.76	4152.70	-2474.06	3592.69	1688196.47	419926.35	39°38'51.5917"N	80°36'26.3914"W	4362.15	124.553	0.48	0.00	-0.48
12379.00	90.130	149.360	7671.52	4247.08	-2555.42	3641.73	1688245.51	419844.99	39°38'50.7936"N	80°36'25.7517"W	4448.86	125.057	0.93	-0.03	0.93
12475.00	90.000	148.930	7671.41	4342.41	-2637.83	3690.97	1688294.74	419762.58	39°38'49.9852"N	80°36'25.1093"W	4536.67	125.552	0.47	-0.14	-0.45
12569.00	90.060	148.770	7671.36	4435.81	-2718.28	3739.59	1688343.36	419682.14	39°38'49.1961"N	80°36'24.4751"W	4623.16	126.013	0.18	0.06	-0.17
12665.00	90.220	149.160	7671.13	4531.18	-2800.53	3789.09	1688392.85	419599.89	39°38'48.3892"N	80°36'23.8295"W	4711.70	126.468	0.44	0.17	0.41

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Haggard 14H
Field	Wetzel	API	47-103-03531-0000
Facility	Haggard Pad	Wellbore	Haggard 14H AWB
Slot	Slot 14		

WELLPATH DATA (266 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]
12760.00	90.250	148.970	7670.74	4625.53	-2882.02	3837.92	1688441.69	419518.41	39°38'47.5899"N	80°36'23.1924"W	4799.55	126.904	0.20	0.03	-0.20
12855.00	90.160	149.100	7670.40	4719.89	-2963.48	3886.80	1688490.56	419436.95	39°38'46.7908"N	80°36'22.5548"W	4887.68	127.324	0.17	-0.09	0.14
12951.00	90.120	148.730	7670.16	4815.26	-3045.69	3936.36	1688540.12	419354.74	39°38'45.9844"N	80°36'21.9083"W	4977.07	127.730	0.39	-0.04	-0.39
13046.00	90.030	148.700	7670.04	4909.68	-3126.88	3985.70	1688589.45	419273.56	39°38'45.1881"N	80°36'21.2649"W	5065.88	128.115	0.10	-0.09	-0.03
13141.00	90.190	148.720	7669.86	5004.11	-3208.06	4035.04	1688638.79	419192.38	39°38'44.3918"N	80°36'20.6214"W	5154.92	128.486	0.17	0.17	0.02
13237.00	90.160	148.870	7669.56	5099.50	-3290.17	4084.78	1688688.53	419110.28	39°38'43.5864"N	80°36'19.9727"W	5245.06	128.850	0.16	-0.03	0.16
13427.00	90.190	149.850	7668.98	5288.09	-3453.64	4181.61	1688785.35	418946.82	39°38'41.9827"N	80°36'18.7093"W	5423.42	129.554	0.52	0.02	0.52
13521.00	90.220	149.820	7668.65	5381.30	-3534.91	4228.84	1688832.58	418865.55	39°38'41.1853"N	80°36'18.0928"W	5511.69	129.892	0.05	0.03	-0.03
13617.00	89.970	149.810	7668.49	5476.49	-3617.90	4277.11	1688880.85	418782.58	39°38'40.3711"N	80°36'17.4627"W	5602.04	130.227	0.26	-0.26	-0.01
13712.00	90.250	150.460	7668.31	5570.62	-3700.28	4324.41	1688928.15	418700.20	39°38'39.5627"N	80°36'16.8451"W	5691.45	130.553	0.74	0.29	0.68
13807.00	90.120	151.280	7668.00	5664.58	-3783.26	4370.66	1688974.39	418617.22	39°38'38.7483"N	80°36'16.2410"W	5780.63	130.880	0.87	-0.14	0.86
13902.00	90.090	150.830	7667.82	5758.49	-3866.39	4416.64	1689020.37	418534.09	39°38'37.9323"N	80°36'15.6402"W	5869.90	131.199	0.47	-0.03	-0.47
13997.00	90.090	150.960	7667.68	5852.44	-3949.40	4462.84	1689066.57	418451.09	39°38'37.1177"N	80°36'15.0365"W	5959.42	131.507	0.14	0.00	0.14
14092.00	90.060	150.640	7667.55	5946.42	-4032.33	4509.19	1689112.92	418368.17	39°38'36.3038"N	80°36'14.4311"W	6049.17	131.805	0.34	-0.03	-0.34
14187.00	90.220	150.890	7667.32	6040.40	-4115.23	4555.59	1689159.31	418285.28	39°38'35.4902"N	80°36'13.8250"W	6139.09	132.093	0.31	0.17	0.26
14283.00	90.090	150.730	7667.06	6135.37	-4199.03	4602.41	1689206.13	418201.47	39°38'34.6676"N	80°36'13.2134"W	6230.09	132.376	0.21	-0.14	-0.17
14377.00	90.560	151.140	7666.53	6228.32	-4281.19	4648.07	1689251.79	418119.32	39°38'33.8612"N	80°36'12.6168"W	6319.27	132.647	0.66	0.50	0.44
14472.00	90.340	150.980	7665.78	6322.23	-4364.33	4694.04	1689297.75	418036.19	39°38'33.0453"N	80°36'12.0162"W	6409.48	132.915	0.29	-0.23	-0.17
14568.00	90.400	150.840	7665.16	6417.16	-4448.22	4740.71	1689344.42	417952.30	39°38'32.2219"N	80°36'11.4065"W	6500.85	133.177	0.16	0.06	-0.15
14663.00	90.220	150.410	7664.65	6511.18	-4531.00	4787.31	1689391.02	417869.53	39°38'31.4094"N	80°36'10.7978"W	6591.53	133.424	0.49	-0.19	-0.45
14758.00	90.400	149.800	7664.13	6605.32	-4613.36	4834.66	1689438.36	417787.17	39°38'30.6013"N	80°36'10.1797"W	6682.59	133.658	0.67	0.19	-0.64
14853.00	90.530	150.170	7663.36	6699.48	-4695.62	4882.18	1689485.88	417704.92	39°38'29.7942"N	80°36'9.5594"W	6773.81	133.884	0.41	0.14	0.39
14948.00	90.460	149.880	7662.54	6793.63	-4777.91	4929.64	1689533.34	417622.64	39°38'28.9867"N	80°36'8.9399"W	6865.11	134.104	0.31	-0.07	-0.31
15044.00	90.900	150.050	7661.40	6888.78	-4861.01	4977.69	1689581.39	417539.54	39°38'28.1713"N	80°36'8.3127"W	6957.50	134.321	0.49	0.46	0.18
15138.00	90.060	149.350	7660.61	6982.01	-4942.16	5025.11	1689628.81	417458.39	39°38'27.3750"N	80°36'7.6938"W	7048.17	134.523	1.16	-0.89	-0.74
15233.00	90.370	149.800	7660.26	7076.26	-5024.08	5073.22	1689676.91	417376.48	39°38'26.5713"N	80°36'7.0661"W	7139.96	134.721	0.58	0.33	0.47
15329.00	90.310	150.140	7659.69	7171.42	-5107.19	5121.26	1689724.95	417293.37	39°38'25.7558"N	80°36'6.4390"W	7232.62	134.921	0.36	-0.06	0.35
15424.00	90.460	150.040	7659.05	7265.56	-5189.54	5168.63	1689772.32	417211.03	39°38'24.9478"N	80°36'5.8206"W	7324.35	135.116	0.19	0.16	-0.11
15520.00	90.530	149.960	7658.22	7360.71	-5272.67	5216.63	1689820.31	417127.90	39°38'24.1320"N	80°36'5.1941"W	7417.16	135.306	0.11	0.07	-0.08
15615.00	90.400	150.130	7657.45	7454.85	-5354.98	5264.07	1689867.74	417045.60	39°38'23.3244"N	80°36'4.5749"W	7509.07	135.491	0.23	-0.14	0.18

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Field	Wetzel	API	47-103-03531-0000
Facility	Haggard Pad	Wellbore	Haggard 14H AWB
Slot	Slot 14		

WELLPATH DATA (266 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]
15710.00	90.400	149.930	7656.79	7549.01	-5437.28	5311.52	1689915.20	416963.31	39°38'22.5169"N	80°36'3.9555"W	7601.07	135.670	0.21	0.00	-0.21
15805.00	90.650	150.000	7655.91	7643.17	-5519.52	5359.07	1689962.74	416881.07	39°38'21.7099"N	80°36'3.3349"W	7693.16	135.845	0.27	0.26	0.07
15900.00	89.880	149.220	7655.48	7737.41	-5601.46	5407.13	1690010.80	416799.13	39°38'20.9059"N	80°36'2.7078"W	7785.46	136.011	1.15	-0.81	-0.82
15995.00	90.150	149.560	7655.45	7831.70	-5683.22	5455.50	1690059.17	416717.38	39°38'20.1038"N	80°36'2.0767"W	7877.91	136.171	0.46	0.28	0.36
16090.00	90.430	149.990	7654.97	7925.91	-5765.31	5503.32	1690106.99	416635.30	39°38'19.2984"N	80°36'1.4526"W	7970.28	136.332	0.54	0.29	0.45
16185.00	90.460	149.850	7654.23	8020.09	-5847.51	5550.94	1690154.60	416553.10	39°38'18.4918"N	80°36'0.8312"W	8062.65	136.490	0.15	0.03	-0.15
16280.00	90.340	149.890	7653.57	8114.27	-5929.67	5598.62	1690202.28	416470.94	39°38'17.6856"N	80°36'0.2089"W	8155.09	136.645	0.13	-0.13	0.04
16375.00	90.370	150.190	7652.98	8208.42	-6011.98	5646.06	1690249.72	416388.64	39°38'16.8780"N	80°35'59.5896"W	8247.54	136.798	0.32	0.03	0.32
16470.00	90.430	149.870	7652.32	8302.58	-6094.27	5693.52	1690297.17	416306.35	39°38'16.0704"N	80°35'58.9702"W	8340.04	136.947	0.34	0.06	-0.34
16565.00	90.090	149.270	7651.89	8396.83	-6176.18	5741.63	1690345.28	416224.44	39°38'15.2668"N	80°35'58.3425"W	8432.77	137.088	0.73	-0.36	-0.63
16660.00	90.340	149.890	7651.53	8491.08	-6258.10	5789.73	1690393.38	416142.53	39°38'14.4630"N	80°35'57.7149"W	8525.54	137.226	0.70	0.26	0.65
16755.00	90.530	150.010	7650.81	8585.25	-6340.33	5837.30	1690440.95	416060.30	39°38'13.6561"N	80°35'57.0940"W	8618.23	137.365	0.24	0.20	0.13
16850.00	90.490	149.850	7649.96	8679.42	-6422.54	5884.90	1690488.54	415978.10	39°38'12.8495"N	80°35'56.4728"W	8710.98	137.501	0.17	-0.04	-0.17
16944.00	90.370	151.900	7649.26	8772.38	-6504.65	5930.65	1690534.29	415896.00	39°38'12.0436"N	80°35'55.8753"W	8802.45	137.643	2.18	-0.13	2.18
17039.00	90.490	152.920	7648.54	8865.92	-6588.85	5974.65	1690578.28	415811.81	39°38'11.2168"N	80°35'55.2998"W	8894.34	137.799	1.08	0.13	1.07
17135.00	90.740	153.150	7647.51	8960.26	-6674.40	6018.18	1690621.81	415726.25	39°38'10.3766"N	80°35'54.7301"W	8987.00	137.960	0.35	0.26	0.24
17230.00	90.740	153.010	7646.29	9053.60	-6759.10	6061.18	1690664.81	415641.56	39°38'9.5448"N	80°35'54.1672"W	9078.73	138.116	0.15	0.00	-0.15
17325.00	90.860	153.170	7644.96	9146.94	-6843.81	6104.18	1690707.80	415556.86	39°38'8.7129"N	80°35'53.6045"W	9170.53	138.269	0.21	0.13	0.17
17420.00	90.430	152.840	7643.89	9240.31	-6928.45	6147.29	1690750.92	415472.22	39°38'7.8816"N	80°35'53.0402"W	9262.43	138.419	0.57	-0.45	-0.35
17515.00	90.060	152.590	7643.48	9333.76	-7012.88	6190.84	1690794.46	415387.80	39°38'7.0525"N	80°35'52.4704"W	9354.52	138.563	0.47	-0.39	-0.26
17610.00	90.560	153.130	7642.97	9427.18	-7097.42	6234.18	1690837.80	415303.27	39°38'6.2223"N	80°35'51.9033"W	9446.60	138.705	0.77	0.53	0.57
17704.00	90.400	152.930	7642.18	9519.55	-7181.19	6276.81	1690880.42	415219.50	39°38'5.3995"N	80°35'51.3454"W	9537.71	138.845	0.27	-0.17	-0.21
17800.00	90.490	153.070	7641.44	9613.91	-7266.73	6320.39	1690924.00	415133.97	39°38'4.5595"N	80°35'50.7751"W	9630.82	138.984	0.17	0.09	0.15
17895.00	90.340	152.930	7640.75	9707.28	-7351.37	6363.52	1690967.13	415049.33	39°38'3.7283"N	80°35'50.2107"W	9723.01	139.120	0.22	-0.16	-0.15
17990.00	90.310	152.790	7640.21	9800.69	-7435.91	6406.85	1691010.46	414964.80	39°38'2.8980"N	80°35'49.6436"W	9815.32	139.251	0.15	-0.03	-0.15
18084.00	90.030	152.790	7639.93	9893.14	-7519.51	6449.83	1691053.44	414881.20	39°38'2.0771"N	80°35'49.0813"W	9906.73	139.379	0.30	-0.30	0.00
18179.00	90.490	153.090	7639.50	9986.53	-7604.10	6493.05	1691096.65	414796.61	39°38'1.2463"N	80°35'48.5157"W	9999.11	139.506	0.58	0.48	0.32
18274.50	90.460	153.010	7638.71	10079.89	-7688.78	6536.10	1691139.71	414711.94	39°38'0.4146"N	80°35'47.9523"W	10091.49	139.633	0.09	-0.03	-0.08
18369.50	90.7	153.060	7637.74	10173.24	-7773.45	6579.18	1691182.78	414627.27	39°37'59.5831"N	80°35'47.3886"W	10183.92	139.757	0.27	0.26	0.05
18464.50	90.7	153.090	7636.52	10266.59	-7858.15	6622.19	1691225.79	414542.58	39°37'58.7513"N	80°35'46.8256"W	10276.38	139.879	0.07	0.06	0.03

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18558.00	90.220	152.610	7635.70	10359.02	-7941.79	6665.09	1691268.68	414458.95	39°37'57.9299"N	80°35'46.2644"W	10368.00	139.995	0.78	-0.59	-0.51
18653.00	90.460	153.130	7635.14	10452.43	-8026.33	6708.41	1691312.00	414374.41	39°37'57.0996"N	80°35'45.6976"W	10460.63	140.111	0.60	0.25	0.55
18748.00	90.460	153.290	7634.38	10545.73	-8111.13	6751.22	1691354.81	414289.61	39°37'56.2667"N	80°35'45.1372"W	10553.17	140.228	0.17	0.00	0.17
18843.00	90.400	152.760	7633.66	10639.09	-8195.79	6794.32	1691397.90	414204.96	39°37'55.4353"N	80°35'44.5733"W	10645.83	140.341	0.56	-0.06	-0.56
18938.00	90.400	153.050	7633.00	10732.49	-8280.37	6837.58	1691441.17	414120.39	39°37'54.6047"N	80°35'44.0071"W	10738.58	140.452	0.31	0.00	0.31
19033.00	90.460	152.710	7632.29	10825.90	-8364.92	6880.89	1691484.47	414035.84	39°37'53.7744"N	80°35'43.4405"W	10831.37	140.560	0.36	0.06	-0.36
19128.00	90.430	152.950	7631.55	10919.32	-8449.43	6924.27	1691527.84	413951.33	39°37'52.9444"N	80°35'42.8729"W	10924.21	140.666	0.25	-0.03	0.25
19223.00	90.430	153.080	7630.84	11012.69	-8534.09	6967.37	1691570.95	413866.68	39°37'52.1130"N	80°35'42.3089"W	11017.03	140.771	0.14	0.00	0.14
19318.00	90.370	152.780	7630.17	11106.08	-8618.68	7010.60	1691614.18	413782.10	39°37'51.2822"N	80°35'41.7432"W	11109.91	140.874	0.32	-0.06	-0.32
19413.00	90.340	153.000	7629.59	11199.48	-8703.24	7053.89	1691657.46	413697.54	39°37'50.4518"N	80°35'41.1768"W	11202.85	140.976	0.23	-0.03	0.23
19508.00	90.530	153.150	7628.86	11292.83	-8787.94	7096.91	1691700.48	413612.85	39°37'49.6199"N	80°35'40.6138"W	11295.75	141.077	0.25	0.20	0.16
19603.00	90.460	152.750	7628.04	11386.21	-8872.54	7140.11	1691743.68	413528.25	39°37'48.7890"N	80°35'40.0486"W	11388.73	141.175	0.43	-0.07	-0.42
19697.00	90.930	153.020	7626.90	11478.63	-8956.21	7182.95	1691786.51	413444.59	39°37'47.9674"N	80°35'39.4881"W	11480.79	141.270	0.58	0.50	0.29
19793.00	90.800	153.100	7625.45	11572.96	-9041.78	7226.44	1691830.00	413359.02	39°37'47.1270"N	80°35'38.9190"W	11574.77	141.367	0.16	-0.14	0.08
19888.00	90.770	152.920	7624.15	11666.32	-9126.42	7269.55	1691873.11	413274.38	39°37'46.2957"N	80°35'38.3549"W	11667.82	141.461	0.19	-0.03	-0.19
19983.00	90.680	154.240	7622.95	11759.50	-9211.49	7311.82	1691915.37	413189.32	39°37'45.4601"N	80°35'37.8015"W	11760.71	141.558	1.39	-0.09	1.39
20078.00	90.340	154.010	7622.10	11852.51	-9296.96	7353.27	1691956.83	413103.85	39°37'44.6204"N	80°35'37.2584"W	11853.45	141.658	0.43	-0.36	-0.24
20172.00	90.000	153.800	7621.83	11944.61	-9381.38	7394.62	1691998.17	413019.44	39°37'43.7911"N	80°35'36.7169"W	11945.32	141.754	0.43	-0.36	-0.22
20267.00	90.560	153.810	7621.36	12037.73	-9466.62	7436.56	1692040.10	412934.20	39°37'42.9538"N	80°35'36.1677"W	12038.25	141.848	0.59	0.59	0.01
20362.00	90.280	154.140	7620.67	12130.79	-9551.99	7478.24	1692081.78	412848.84	39°37'42.1152"N	80°35'35.6218"W	12131.14	141.943	0.46	-0.29	0.35
20457.00	90.430	154.060	7620.08	12223.80	-9637.45	7519.73	1692123.27	412763.39	39°37'41.2756"N	80°35'35.0782"W	12224.02	142.036	0.18	0.16	-0.08
20552.00	90.190	153.810	7619.56	12316.88	-9722.78	7561.47	1692165.01	412678.06	39°37'40.4373"N	80°35'34.5315"W	12317.00	142.128	0.36	-0.25	-0.26
20647.00	90.280	153.730	7619.17	12410.00	-9808.00	7603.46	1692207.00	412592.85	39°37'39.6002"N	80°35'33.9817"W	12410.06	142.216	0.13	0.09	-0.08
20742.00	90.460	153.940	7618.56	12503.11	-9893.26	7645.35	1692248.88	412507.59	39°37'38.7626"N	80°35'33.4331"W	12503.12	142.304	0.29	0.19	0.22
20790.00	90.310	153.830	7618.24	12550.14	-9936.36	7666.48	1692270.01	412464.50	39°37'38.3393"N	80°35'33.1564"W	12550.15	142.348	0.39	-0.31	-0.23
20815.00†	90.310	153.830	7618.10	12574.65	-9958.80	7677.51	1692281.04	412442.06	39°37'38.1189"N	80°35'33.0120"W	12574.65	142.370	0.00	0.00	0.00

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Actual Wellpath Report

Haggard 14H AWB Proj: 20815'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Haggard 14H
Field	Wetzel	API	47-103-03531-0000
Facility	Haggard Pad	Wellbore	Haggard 14H AWB
Slot	Slot 14		

HOLE & CASING SECTIONS - Ref Wellbore: Haggard 14H AWB Ref Wellpath: Haggard 14H AWB Proj: 20815'

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	-0.02	-0.01
17.5in Open Hole	68.00	1488.00	1420.00	68.00	1487.99	-0.02	-0.01	-4.03	0.12
13.375in Casing Surface	28.00	1488.00	1460.00	28.00	1487.99	0.00	0.00	-4.03	0.12
12.25in Open Hole	1488.00	2926.00	1438.00	1487.99	2924.39	-4.03	0.12	20.39	49.22
9.625in Casing Intermediate	28.00	2926.00	2898.00	28.00	2924.39	0.00	0.00	20.39	49.22
8.75in Open Hole	2926.00	7332.00	4406.00	2924.39	6967.06	20.39	49.22	1203.35	1069.99
8.5in Open Hole	7332.00	20815.00	13483.00	6967.06	7618.10	1203.35	1069.99	-9958.80	7677.51
6in Casing Production	28.00	20815.00	20787.00	28.00	7618.10	0.00	0.00	-9958.80	7677.51

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Haggard 14H BHL Rev-1	7655.00	-9961.09	7676.39	1692279.92	412439.77	39°37'38.0961"N	80°35'33.0259"W	point
Haggard 14H LP Rev-1	7655.00	814.37	1680.07	1686283.96	423214.57	39°39'23.8553"N	80°36'51.3616"W	point

WELLPATH COMPOSITION - Ref Wellbore: Haggard 14H AWB Ref Wellpath: Haggard 14H AWB Proj: 20815'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	1489.00	Gyrodata 2015 - CT+WIR+DPIPE	01 Gyrodata Cont. Gyro <17-1/2">(115'-1489')	Haggard 14H AWB	9/20/2023
1489.00	2877.00	OWSG MWD rev2 + HRGM	02 SDI MWD <12-1/4">(1489')(1529'-2877')	Haggard 14H AWB	9/20/2023
2877.00	7252.00	OWSG MWD rev2 + HRGM	03 SDI MWD <8-3/4">(2877')(2971'-7252')	Haggard 14H AWB	10/5/2023
7252.00	20815.00	OWSG MWD rev2 + IFR1 + Axial Corr + Sag Correction	04 BH Lucida+SQC IFR1+SAG+FDIR <8-1/2">(7252')(7350'- 20790')	Haggard 14H AWB	10/9/2023

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Actual Wellpath Report

Haggard 14H AWB Proj: 20815'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Haggard 14H
Field	Wetzel	API	47-103-03531-0000
Facility	Haggard Pad	Wellbore	Haggard 14H AWB
Slot	Slot 14		

COMMENTS

Wellpath general comments

API: 47-103-03531-0000

BH Job #: 111974003

Rig: Patterson 292

Duration: 10/11/2023-10/14/2023

01_Gyrodata Cont. Gyro <17-1/2">(115'-1489')

02_SDI MWD <12-1/4">(1489')(1529'-2877')

03_SDI MWD <8-3/4">(2877')(2971'-7252')

04_BH Lucida+SQC IFR1+SAG+FDIR <8-1/2">(7252')(7350'- 20790')

Landing Pt. @ 8487' MD

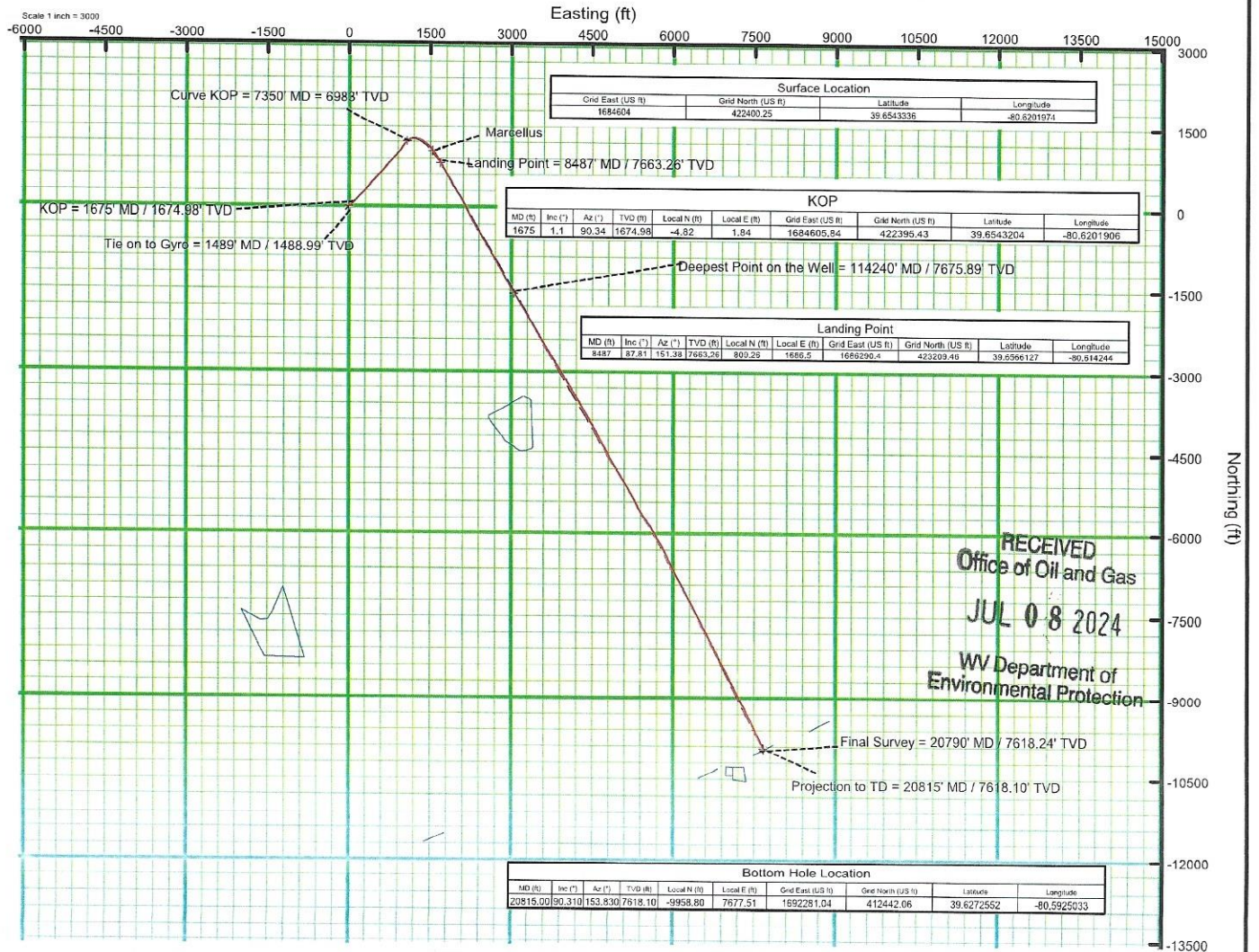
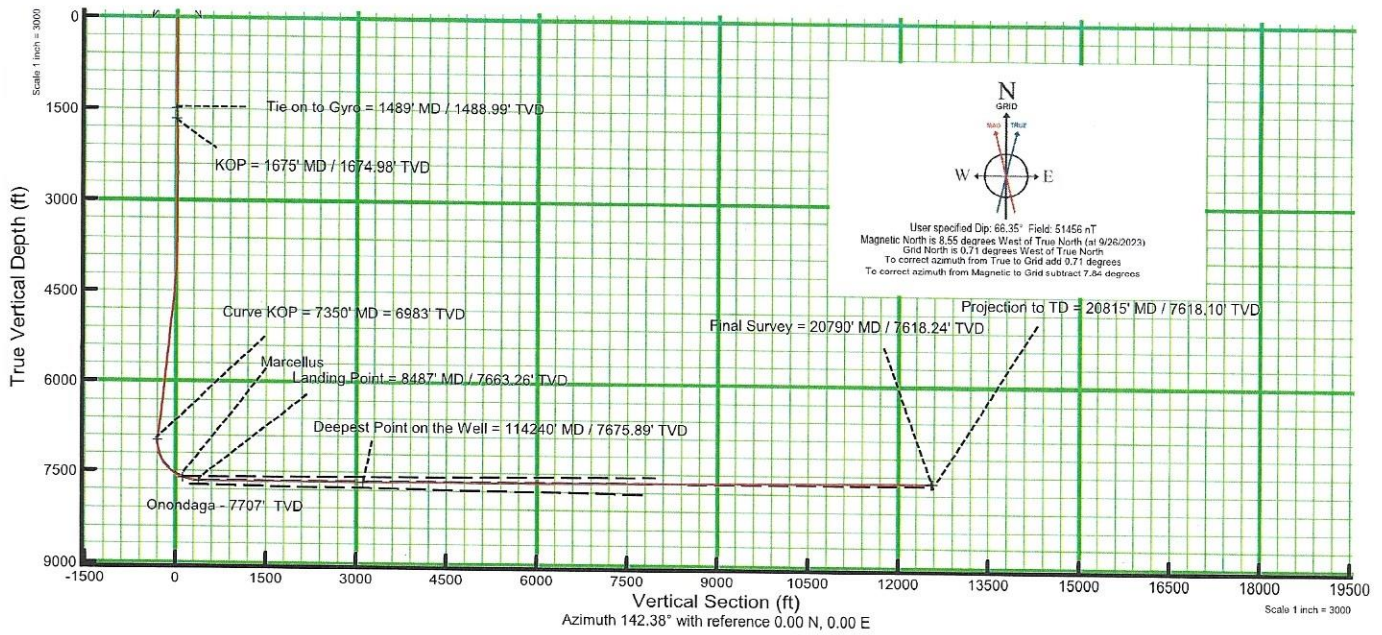
Final Survey @ 20790' MD

Projected MD at TD: 20815'

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



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08/16/2024