



# Actual Wellpath Report

Haggard 2H AWB Proj: 19387'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT PRODUCTION COMPANY	Well	Haggard 2H
Field	Wetzel	API	47-103-03526-0000
Facility	Haggard Pad	Wellbore	Haggard 2H AWB
Slot	Slot 02		

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	10/23/2023 at 12:45:15 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	0.00	0.00	1684545.63	422331.75	39°39'14.9168"N	80°37'13.4459"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 02)	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	171.89°

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Slot	Slot 02			

WELLPATH DATA (231 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	117.280	0.00	0.00	0.00	0.00	1684545.63	422331.75	39°39'14.9168"N	80°37'13.4459"W	0.00	0.000	0.00	0.00	0.00	
28.00	0.000	117.280	28.00	0.00	0.00	0.00	1684545.63	422331.75	39°39'14.9168"N	80°37'13.4459"W	0.00	0.000	0.00	0.00	0.00	
115.00	0.130	117.280	115.00	0.06	-0.05	0.09	1684545.72	422331.70	39°39'14.9164"N	80°37'13.4448"W	0.10	117.280	0.15	0.15	0.00	
215.00	0.140	108.170	215.00	0.18	-0.14	0.30	1684545.93	422331.61	39°39'14.9155"N	80°37'13.4420"W	0.33	113.953	0.02	0.01	-9.11	
315.00	0.170	134.950	315.00	0.35	-0.28	0.53	1684546.16	422331.47	39°39'14.9141"N	80°37'13.4391"W	0.59	117.891	0.08	0.03	26.78	
415.00	0.120	121.540	415.00	0.53	-0.44	0.72	1684546.35	422331.31	39°39'14.9126"N	80°37'13.4366"W	0.84	121.305	0.06	-0.05	-13.41	
515.00	0.150	117.350	515.00	0.68	-0.55	0.93	1684546.56	422331.20	39°39'14.9114"N	80°37'13.4340"W	1.08	120.848	0.03	0.03	-4.19	
615.00	0.180	119.780	615.00	0.85	-0.69	1.18	1684546.81	422331.06	39°39'14.9101"N	80°37'13.4307"W	1.37	120.390	0.03	0.03	2.43	
715.00	0.180	138.150	715.00	1.08	-0.89	1.42	1684547.05	422330.86	39°39'14.9082"N	80°37'13.4276"W	1.67	121.974	0.06	0.00	18.37	
815.00	0.360	129.080	815.00	1.44	-1.20	1.77	1684547.40	422330.55	39°39'14.9051"N	80°37'13.4231"W	2.14	124.190	0.18	0.18	-9.07	
915.00	0.400	130.720	914.99	1.93	-1.63	2.28	1684547.91	422330.12	39°39'14.9010"N	80°37'13.4165"W	2.80	125.551	0.04	0.04	1.64	
1015.00	0.430	126.950	1014.99	2.46	-2.08	2.84	1684548.47	422329.67	39°39'14.8966"N	80°37'13.4092"W	3.52	126.212	0.04	0.03	-3.77	
1115.00	0.380	117.410	1114.99	2.92	-2.46	3.43	1684549.06	422329.29	39°39'14.8929"N	80°37'13.4016"W	4.22	125.589	0.08	-0.05	-9.54	
1215.00	0.140	103.590	1214.99	3.16	-2.64	3.85	1684549.48	422329.11	39°39'14.8912"N	80°37'13.3963"W	4.67	124.448	0.25	-0.24	-13.82	
1315.00	0.290	95.680	1314.99	3.26	-2.69	4.22	1684549.85	422329.06	39°39'14.8907"N	80°37'13.3915"W	5.01	122.555	0.15	0.15	-7.91	
1415.00	0.450	89.570	1414.99	3.37	-2.72	4.86	1684550.49	422329.03	39°39'14.8906"N	80°37'13.3833"W	5.57	119.178	0.16	0.16	-6.11	
1476.00	0.690	83.530	1475.98	3.42	-2.67	5.47	1684551.10	422329.08	39°39'14.8911"N	80°37'13.3756"W	6.09	116.046	0.41	0.39	-9.90	
1503.00	0.610	112.860	1502.98	3.50	-2.71	5.76	1684551.39	422329.04	39°39'14.8907"N	80°37'13.3718"W	6.37	115.188	1.25	-0.30	108.63	
1546.00	0.880	115.370	1545.98	3.80	-2.94	6.27	1684551.90	422328.81	39°39'14.8885"N	80°37'13.3652"W	6.93	115.120	0.63	0.63	5.84	
1589.00	0.710	141.590	1588.97	4.21	-3.29	6.73	1684552.36	422328.46	39°39'14.8851"N	80°37'13.3593"W	7.50	116.039	0.92	-0.40	60.98	
1632.00	1.060	193.810	1631.97	4.81	-3.89	6.81	1684552.44	422327.86	39°39'14.8792"N	80°37'13.3583"W	7.84	119.723	1.95	0.81	121.44	
1676.00	1.950	216.570	1675.95	5.72	-4.88	6.26	1684551.89	422326.87	39°39'14.8693"N	80°37'13.3651"W	7.94	127.939	2.40	2.02	51.73	
1719.00	2.860	223.040	1718.91	6.91	-6.25	5.09	1684550.72	422325.50	39°39'14.8556"N	80°37'13.3798"W	8.07	140.834	2.21	2.12	15.05	
1762.00	3.790	229.030	1761.84	8.35	-7.97	3.29	1684548.92	422323.78	39°39'14.8384"N	80°37'13.4026"W	8.62	157.575	2.31	2.16	13.93	
1804.00	4.840	235.550	1803.72	9.89	-9.88	0.78	1684546.41	422321.87	39°39'14.8192"N	80°37'13.4343"W	9.91	175.489	2.76	2.50	15.52	
1846.00	5.640	239.030	1845.55	11.48	-11.95	-2.45	1684543.18	422319.80	39°39'14.7984"N	80°37'13.4753"W	12.20	191.595	2.05	1.90	8.29	
1889.00	6.710	244.450	1888.30	13.06	-14.12	-6.53	1684539.10	422317.63	39°39'14.7765"N	80°37'13.5271"W	15.55	204.821	2.83	2.49	12.60	
1932.00	7.800	244.680	1930.95	14.67	-16.45	-11.43	1684534.20	422315.30	39°39'14.7528"N	80°37'13.5894"W	20.03	214.804	2.54	2.53	0.53	
1975.00	8.700	243.470	1973.51	16.56	-19.15	-16.98	1684528.65	422312.60	39°39'14.7255"N	80°37'13.6599"W	25.59	221.566	2.13	2.09	-2.81	
2018.00	9.660	242.800	2015.96	18.77	-22.25	-23.10	1684522.53	422309.50	39°39'14.6941"N	80°37'13.7376"W	32.07	226.072	2.25	2.23	-1.56	

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Field	Wetzel		API	47-103-03526-0000
Facility	Haggard Pad		Wellbore	Haggard 2H AWB
Slot	Slot 02			

WELLPATH DATA (231 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]
2105.00	9.760	240.630	2101.71	23.83	-29.20	-36.02	1684509.61	422302.55	39°39'14.6238"N	80°37'13.9017"W	46.37	230.964	0.44	0.11	-2.49
2192.00	10.730	241.790	2187.32	29.29	-36.65	-49.58	1684496.05	422295.10	39°39'14.5485"N	80°37'14.0739"W	61.66	233.529	1.14	1.11	1.33
2277.00	10.530	240.200	2270.86	34.88	-44.25	-63.29	1684482.34	422287.50	39°39'14.4717"N	80°37'14.2480"W	77.23	235.042	0.42	-0.24	-1.87
2362.00	10.510	238.390	2354.43	40.84	-52.17	-76.64	1684469.00	422279.58	39°39'14.3918"N	80°37'14.4173"W	92.71	235.754	0.39	-0.02	-2.13
2449.00	10.740	239.260	2439.94	47.13	-60.48	-90.36	1684455.27	422271.28	39°39'14.3080"N	80°37'14.5914"W	108.73	236.207	0.32	0.26	1.00
2535.00	10.490	237.980	2524.47	53.39	-68.72	-103.89	1684441.75	422263.03	39°39'14.2249"N	80°37'14.7630"W	124.56	236.515	0.40	-0.29	-1.49
2621.00	10.310	237.520	2609.06	59.73	-77.01	-117.02	1684428.62	422254.75	39°39'14.1414"N	80°37'14.9295"W	140.08	236.652	0.23	-0.21	-0.53
2708.00	10.760	233.930	2694.59	66.76	-85.97	-130.15	1684415.49	422245.79	39°39'14.0512"N	80°37'15.0960"W	155.98	236.554	0.91	0.52	-4.13
2795.00	11.000	236.920	2780.03	74.07	-95.28	-143.67	1684401.97	422236.48	39°39'13.9575"N	80°37'15.2673"W	172.39	236.448	0.70	0.28	3.44
2874.00	11.170	237.860	2857.56	80.37	-103.46	-156.46	1684389.18	422228.29	39°39'13.8750"N	80°37'15.4296"W	187.58	236.524	0.31	0.22	1.19
2976.00	11.870	237.430	2957.50	88.73	-114.37	-173.67	1684371.97	422217.39	39°39'13.7652"N	80°37'15.6478"W	207.94	236.633	0.69	0.69	-0.42
3019.00	12.680	238.170	2999.52	92.46	-119.24	-181.41	1684364.24	422212.52	39°39'13.7161"N	80°37'15.7460"W	217.08	236.683	1.92	1.88	1.72
3062.00	13.070	240.240	3041.44	96.16	-124.14	-189.64	1684356.01	422207.62	39°39'13.6666"N	80°37'15.8504"W	226.66	236.790	1.40	0.91	4.81
3105.00	13.930	240.490	3083.25	99.84	-129.10	-198.36	1684347.28	422202.65	39°39'13.6165"N	80°37'15.9611"W	236.67	236.942	2.00	2.00	0.58
3148.00	14.840	241.720	3124.90	103.63	-134.26	-207.72	1684337.93	422197.50	39°39'13.5644"N	80°37'16.0799"W	247.33	237.122	2.23	2.12	2.86
3191.00	15.090	241.940	3166.44	107.44	-139.50	-217.50	1684328.14	422192.25	39°39'13.5114"N	80°37'16.2042"W	258.40	237.325	0.60	0.58	0.51
3235.00	15.730	242.200	3208.86	111.40	-144.98	-227.83	1684317.81	422186.78	39°39'13.4560"N	80°37'16.3354"W	270.05	237.530	1.46	1.45	0.59
3278.00	16.810	242.220	3250.14	115.46	-150.60	-238.49	1684307.15	422181.16	39°39'13.3992"N	80°37'16.4707"W	282.06	237.730	2.51	2.51	0.05
3321.00	18.120	240.680	3291.15	119.97	-156.77	-249.82	1684295.82	422174.99	39°39'13.3368"N	80°37'16.6146"W	294.94	237.891	3.23	3.05	-3.58
3364.00	19.390	239.970	3331.87	125.06	-163.62	-261.83	1684283.81	422168.14	39°39'13.2676"N	80°37'16.7671"W	308.75	237.999	3.00	2.95	-1.65
3407.00	20.930	239.220	3372.23	130.68	-171.12	-274.61	1684271.03	422160.64	39°39'13.1919"N	80°37'16.9292"W	323.56	238.072	3.63	3.58	-1.74
3451.00	22.230	239.580	3413.15	136.87	-179.36	-288.54	1684257.10	422152.41	39°39'13.1088"N	80°37'17.1060"W	339.74	238.135	2.97	2.95	0.82
3494.00	23.380	240.460	3452.79	143.08	-187.68	-302.98	1684242.67	422144.08	39°39'13.0247"N	80°37'17.2892"W	356.40	238.224	2.79	2.67	2.05
3537.00	25.100	240.010	3491.99	149.60	-196.45	-318.30	1684227.35	422135.32	39°39'12.9362"N	80°37'17.4837"W	374.04	238.319	4.02	4.00	-1.05
3580.00	26.870	239.660	3530.65	156.67	-205.91	-334.59	1684211.06	422125.85	39°39'12.8406"N	80°37'17.6904"W	392.88	238.391	4.13	4.12	-0.81
3624.00	28.800	239.040	3569.55	164.55	-216.39	-352.26	1684193.39	422115.37	39°39'12.7349"N	80°37'17.9147"W	413.42	238.438	4.44	4.39	-1.41
3667.00	30.710	237.990	3606.88	173.02	-227.54	-370.46	1684175.20	422104.22	39°39'12.6225"N	80°37'18.1455"W	434.76	238.441	4.60	4.44	-2.44
3710.00	32.360	236.490	3643.53	182.41	-239.71	-389.36	1684156.29	422092.05	39°39'12.4999"N	80°37'18.3853"W	457.24	238.381	4.25	3.84	-3.49
3753.00	34.610	235.720	3679.39	192.74	-252.95	-409.05	1684136.60	422078.82	39°39'12.3666"N	80°37'18.6348"W	480.94	238.268	5.32	5.23	-1.79
3796.00	36.750	234.970	3714.32	203.95	-267.21	-429.68	1684115.98	422064.56	39°39'12.2231"N	80°37'18.8962"W	505.99	238.123	5.08	4.98	-1.74

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3839.00	38.760	235.380	3748.31	215.78	-282.24	-451.29	1684094.37	422049.52	39°39'12.0719"N	80°37'19.1701"W	532.28	237.978	4.71	4.67	0.95
3882.00	40.760	236.170	3781.37	227.88	-297.71	-474.03	1684071.63	422034.06	39°39'11.9163"N	80°37'19.4584"W	559.76	237.870	4.80	4.65	1.84
3926.00	42.300	236.540	3814.31	240.46	-313.87	-498.32	1684047.34	422017.90	39°39'11.7536"N	80°37'19.7663"W	588.93	237.795	3.54	3.50	0.84
3969.00	41.980	236.580	3845.94	252.92	-329.92	-522.62	1684023.04	422001.85	39°39'11.5920"N	80°37'20.0744"W	618.05	237.737	1.58	1.58	0.09
4055.00	44.210	235.330	3908.22	278.87	-363.12	-571.75	1683973.91	421968.65	39°39'11.2578"N	80°37'20.6972"W	677.32	237.580	1.75	1.43	-1.45
4142.00	45.150	233.890	3970.08	306.91	-398.55	-621.62	1683924.05	421933.22	39°39'10.9015"N	80°37'21.3290"W	738.41	237.334	1.59	1.08	-1.66
4228.00	44.200	232.160	4031.24	336.09	-434.91	-669.92	1683875.75	421896.86	39°39'10.5362"N	80°37'21.9407"W	798.72	237.008	1.79	-1.10	-2.01
4314.00	41.550	233.020	4094.26	364.74	-470.47	-716.39	1683829.28	421861.31	39°39'10.1791"N	80°37'22.5291"W	857.06	236.706	3.16	-3.08	1.00
4401.00	40.380	234.850	4159.96	391.49	-504.05	-762.48	1683783.19	421827.73	39°39'9.8415"N	80°37'23.1130"W	914.03	236.533	1.93	-1.34	2.10
4478.00	41.180	236.630	4218.26	413.65	-532.35	-804.05	1683741.63	421799.43	39°39'9.5567"N	80°37'23.6398"W	964.31	236.492	1.83	1.04	2.31
4565.00	42.140	239.310	4283.27	437.08	-563.01	-853.07	1683692.61	421768.78	39°39'9.2477"N	80°37'24.2616"W	1022.11	236.576	2.33	1.10	3.08
4651.00	42.830	238.260	4346.69	459.88	-593.11	-902.75	1683642.94	421738.67	39°39'8.9441"N	80°37'24.8918"W	1080.15	236.695	1.15	0.80	-1.22
4737.00	42.550	236.980	4409.90	483.85	-624.34	-951.99	1683593.70	421707.45	39°39'8.6294"N	80°37'25.5163"W	1138.45	236.742	1.06	-0.33	-1.49
4823.00	41.450	237.250	4473.81	507.97	-655.58	-1000.31	1683545.38	421676.21	39°39'8.3146"N	80°37'26.1290"W	1196.00	236.760	1.30	-1.28	0.31
4909.00	40.570	238.500	4538.71	530.94	-685.59	-1048.10	1683497.60	421646.20	39°39'8.0121"N	80°37'26.7351"W	1252.42	236.810	1.40	-1.02	1.45
4996.00	39.750	239.650	4605.20	552.70	-714.43	-1096.22	1683449.47	421617.36	39°39'7.7212"N	80°37'27.3458"W	1308.48	236.907	1.27	-0.94	1.32
5082.00	41.400	244.490	4670.53	571.62	-740.58	-1145.63	1683400.07	421591.22	39°39'7.4567"N	80°37'27.9732"W	1364.16	237.120	4.13	1.92	5.63
5169.00	43.350	244.750	4734.80	589.03	-765.71	-1198.61	1683347.10	421566.09	39°39'7.2018"N	80°37'28.6464"W	1422.31	237.428	2.25	2.24	0.30
5255.00	44.150	242.160	4796.93	607.84	-792.29	-1251.80	1683293.91	421539.51	39°39'6.9325"N	80°37'29.3221"W	1481.46	237.669	2.28	0.93	-3.01
5341.00	43.340	239.430	4859.06	629.24	-821.29	-1303.70	1683242.01	421510.51	39°39'6.6395"N	80°37'29.9809"W	1540.82	237.790	2.39	-0.94	-3.17
5427.00	41.800	235.930	4922.40	653.06	-852.36	-1352.86	1683192.86	421479.44	39°39'6.3264"N	80°37'30.6044"W	1598.98	237.787	3.28	-1.79	-4.07
5514.00	41.290	234.200	4987.52	679.10	-885.40	-1400.16	1683145.56	421446.41	39°39'5.9941"N	80°37'31.2037"W	1656.61	237.693	1.44	-0.59	-1.99
5600.00	40.290	235.510	5052.63	704.64	-917.74	-1446.09	1683099.63	421414.07	39°39'5.6687"N	80°37'31.7858"W	1712.73	237.599	1.53	-1.16	1.52
5687.00	39.020	235.820	5119.61	729.18	-949.06	-1491.93	1683053.79	421382.75	39°39'5.3536"N	80°37'32.3668"W	1768.21	237.539	1.48	-1.46	0.36
5773.00	40.020	238.060	5185.95	752.26	-978.90	-1537.80	1683007.92	421352.91	39°39'5.0530"N	80°37'32.9483"W	1822.93	237.521	2.02	1.16	2.60
5859.00	42.900	239.310	5250.40	774.67	-1008.47	-1586.45	1682959.28	421323.34	39°39'4.7547"N	80°37'33.5655"W	1879.85	237.557	3.48	3.35	1.45
5946.00	43.950	236.170	5313.59	799.15	-1040.40	-1637.00	1682908.73	421291.42	39°39'4.4330"N	80°37'34.2066"W	1939.64	237.562	2.76	1.21	-3.61
6032.00	43.470	233.450	5375.76	826.20	-1074.63	-1685.56	1682860.18	421257.18	39°39'4.0886"N	80°37'34.8219"W	1998.99	237.480	2.26	-0.56	-3.16
6119.00	43.160	231.780	5439.06	855.38	-1110.87	-1732.98	1682812.76	421220.95	39°39'3.7247"N	80°37'35.4222"W	2058.45	237.340	1.36	-0.36	-1.92
6205.00	41.030	234.040	5502.88	883.33	-1145.65	-1778.94	1682766.80	421186.17	39°39'3.3753"N	80°37'36.0043"W	2115.93	237.218	3.04	-2.48	2.63

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# Actual Wellpath Report

Haggard 2H AWB Proj: 19387'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	EQT PRODUCTION COMPANY		Well	Haggard 2H
Field	Wetzel		API	47-103-03526-0000
Facility	Haggard Pad		Wellbore	Haggard 2H AWB
Slot	Slot 02			

WELLPATH DATA (231 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]
6291.00	38.720	235.350	5568.88	908.54	-1177.52	-1823.92	1682721.82	421154.30	39°39'3.0547"N	80°37'36.5742"W	2171.00	237.154	2.86	-2.69	1.52
6334.00	37.670	234.210	5602.67	920.66	-1192.85	-1845.65	1682700.10	421138.97	39°39'2.9005"N	80°37'36.8494"W	2197.57	237.125	2.94	-2.44	-2.65
6403.00	36.060	229.560	5657.88	941.32	-1218.36	-1878.21	1682667.53	421113.47	39°39'2.6444"N	80°37'37.2616"W	2238.77	237.029	4.67	-2.33	-6.74
6497.00	40.390	231.520	5731.71	971.53	-1255.27	-1923.13	1682622.61	421076.55	39°39'2.2740"N	80°37'37.8299"W	2296.55	236.867	4.78	4.61	2.09
6593.00	42.180	234.360	5803.85	1002.16	-1293.41	-1973.68	1682572.07	421038.41	39°39'1.8908"N	80°37'38.4700"W	2359.73	236.762	2.70	1.86	2.96
6688.00	42.190	234.100	5874.25	1031.78	-1330.70	-2025.45	1682520.31	421001.13	39°39'1.5159"N	80°37'39.1257"W	2423.47	236.695	0.18	0.01	-0.27
6782.00	42.150	233.010	5943.92	1061.73	-1368.19	-2076.21	1682469.55	420963.64	39°39'1.1392"N	80°37'39.7686"W	2486.48	236.616	0.78	-0.04	-1.16
6877.00	41.960	234.240	6014.46	1091.87	-1405.93	-2127.44	1682418.32	420925.91	39°39'0.7598"N	80°37'40.4175"W	2550.03	236.541	0.89	-0.20	1.29
6972.00	41.590	234.300	6085.30	1121.21	-1442.89	-2178.82	1682366.95	420888.95	39°39'0.3882"N	80°37'41.0683"W	2613.27	236.486	0.39	-0.39	0.06
7067.00	42.470	234.250	6155.87	1150.70	-1480.03	-2230.45	1682315.31	420851.81	39°39'0.0148"N	80°37'41.7224"W	2676.83	236.434	0.93	0.93	-0.05
7161.00	41.970	234.160	6225.48	1180.05	-1516.97	-2281.69	1682264.08	420814.87	39°38'59.6434"N	80°37'42.3714"W	2739.95	236.382	0.54	-0.53	-0.10
7256.00	41.830	234.340	6296.19	1209.49	-1554.04	-2333.18	1682212.60	420777.81	39°38'59.2706"N	80°37'43.0237"W	2803.35	236.334	0.19	-0.15	0.19
7351.00	40.990	234.040	6367.44	1238.70	-1590.80	-2384.14	1682161.64	420741.04	39°38'58.9010"N	80°37'43.6692"W	2866.14	236.287	0.91	-0.88	-0.32
7446.00	42.480	234.070	6438.33	1268.23	-1627.93	-2435.33	1682110.45	420703.92	39°38'58.5278"N	80°37'44.3177"W	2929.33	236.239	1.57	1.57	0.03
7541.00	42.060	234.050	6508.63	1298.06	-1665.43	-2487.07	1682058.71	420666.42	39°38'58.1507"N	80°37'44.9730"W	2993.19	236.192	0.44	-0.44	-0.02
7636.00	42.260	234.270	6579.05	1327.74	-1702.77	-2538.76	1682007.03	420629.09	39°38'57.7754"N	80°37'45.6278"W	3056.91	236.150	0.26	0.21	0.23
7731.00	42.560	234.190	6649.19	1357.48	-1740.22	-2590.74	1681955.04	420591.64	39°38'57.3988"N	80°37'46.2863"W	3120.95	236.111	0.32	0.32	-0.08
7826.00	42.530	234.260	6719.18	1387.31	-1777.77	-2642.86	1681902.93	420554.09	39°38'57.0212"N	80°37'46.9465"W	3185.15	236.073	0.06	-0.03	0.07
7920.00	42.370	234.120	6788.54	1416.80	-1814.89	-2694.31	1681851.48	420516.97	39°38'56.6480"N	80°37'47.5982"W	3248.56	236.036	0.20	-0.17	-0.15
8016.00	42.520	233.960	6859.38	1447.07	-1852.94	-2746.75	1681799.05	420478.93	39°38'56.2655"N	80°37'48.2624"W	3313.31	235.997	0.19	0.16	-0.17
8110.00	42.370	234.020	6928.75	1476.76	-1890.23	-2798.07	1681747.73	420441.63	39°38'55.8905"N	80°37'48.9124"W	3376.71	235.959	0.17	-0.16	0.06
8205.00	42.520	234.070	6998.85	1506.71	-1927.88	-2849.97	1681695.84	420403.99	39°38'55.5120"N	80°37'49.5698"W	3440.79	235.923	0.16	0.16	0.05
8299.00	42.500	234.090	7068.14	1536.35	-1965.14	-2901.41	1681644.40	420366.73	39°38'55.1374"N	80°37'50.2213"W	3504.27	235.890	0.03	-0.02	0.02
8393.00	42.480	233.970	7137.46	1566.02	-2002.43	-2952.79	1681593.02	420329.44	39°38'54.7625"N	80°37'50.8722"W	3567.74	235.857	0.09	-0.02	-0.13
8488.00	42.530	234.170	7207.49	1595.98	-2040.10	-3004.77	1681541.05	420291.78	39°38'54.3838"N	80°37'51.5306"W	3631.89	235.825	0.15	0.05	0.21
8583.00	43.280	224.770	7277.15	1630.61	-2082.06	-3053.79	1681492.03	420249.82	39°38'53.9630"N	80°37'52.1504"W	3696.02	235.714	6.78	0.79	-9.89
8678.00	44.710	210.830	7345.66	1676.37	-2134.00	-3093.94	1681451.88	420197.88	39°38'53.4447"N	80°37'52.6554"W	3758.51	235.405	10.29	1.51	-14.67
8773.00	49.140	200.110	7410.62	1734.13	-2196.56	-3123.48	1681422.34	420135.33	39°38'52.8229"N	80°37'53.0229"W	3818.51	234.884	9.46	4.66	-11.28
8868.00	53.010	191.980	7470.36	1801.52	-2267.50	-3143.74	1681402.09	420064.39	39°38'52.1192"N	80°37'53.2704"W	3876.16	234.198	7.80	4.07	-8.56
8963.00	56.800	183.010	7525.04	1876.28	-2344.44	-3153.72	1681392.11	419987.45	39°38'51.3576"N	80°37'53.3856"W	3929.67	233.373	8.69	3.99	-9.44

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# Actual Wellpath Report

Haggard 2H AWB Proj: 19387'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	EQT PRODUCTION COMPANY		Well	Haggard 2H
Field	Wetzel		API	47-103-03526-0000
Facility	Haggard Pad		Wellbore	Haggard 2H AWB
Slot	Slot 02			

WELLPATH DATA (231 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]
9058.00	62.240	174.800	7573.27	1957.42	-2426.16	-3151.99	1681393.83	419905.74	39°38'50.5503"N	80°37'53.3503"W	3977.60	232.414	9.39	5.73	-8.64
9153.00	67.000	167.300	7614.03	2043.13	-2510.82	-3138.55	1681407.28	419821.08	39°38'49.7153"N	80°37'53.1648"W	4019.29	231.340	8.71	5.01	-7.89
9248.00	73.390	163.130	7646.21	2131.83	-2597.16	-3115.69	1681430.13	419734.75	39°38'48.8650"N	80°37'52.8588"W	4056.20	230.186	7.89	6.73	-4.39
9343.00	82.150	160.850	7666.32	2223.19	-2685.35	-3086.99	1681458.83	419646.56	39°38'47.9970"N	80°37'52.4777"W	4091.53	228.980	9.51	9.22	-2.40
9438.00	89.530	157.150	7673.21	2315.47	-2773.72	-3053.05	1681492.77	419558.20	39°38'47.1279"N	80°37'52.0296"W	4124.88	227.745	8.68	7.77	-3.89
9533.00	89.470	151.530	7674.04	2406.00	-2859.32	-3011.93	1681533.89	419472.61	39°38'46.2871"N	80°37'51.4902"W	4153.00	226.489	5.92	-0.06	-5.92
9627.00	90.390	149.210	7674.15	2493.44	-2941.02	-2965.46	1681580.35	419390.91	39°38'45.4855"N	80°37'50.8831"W	4176.55	225.237	2.66	0.98	-2.47
9722.00	90.270	148.860	7673.61	2580.98	-3022.48	-2916.58	1681629.23	419309.46	39°38'44.6866"N	80°37'50.2452"W	4200.22	223.978	0.39	-0.13	-0.37
9816.00	90.550	149.310	7672.93	2667.63	-3103.12	-2868.29	1681677.52	419228.82	39°38'43.8956"N	80°37'49.6149"W	4225.69	222.748	0.56	0.30	0.48
9911.00	90.000	149.130	7672.48	2755.28	-3184.74	-2819.67	1681726.13	419147.21	39°38'43.0951"N	80°37'48.9804"W	4253.60	221.521	0.61	-0.58	-0.19
10006.00	89.940	149.650	7672.53	2843.05	-3266.50	-2771.30	1681774.50	419065.45	39°38'42.2931"N	80°37'48.3489"W	4283.70	220.311	0.55	-0.06	0.55
10101.00	89.440	149.840	7673.04	2931.04	-3348.56	-2723.43	1681822.36	418983.40	39°38'41.4881"N	80°37'47.7239"W	4316.24	219.122	0.56	-0.53	0.20
10196.00	89.530	149.970	7673.90	3019.13	-3430.75	-2675.80	1681869.99	418901.21	39°38'40.6818"N	80°37'47.1018"W	4350.86	217.952	0.17	0.09	0.14
10291.00	88.890	149.970	7675.21	3107.25	-3512.99	-2628.26	1681917.53	418818.98	39°38'39.8750"N	80°37'46.4809"W	4387.35	216.802	0.67	-0.67	0.00
10386.00	88.980	150.280	7676.97	3195.46	-3595.35	-2580.95	1681964.84	418736.62	39°38'39.0670"N	80°37'45.8629"W	4425.81	215.673	0.34	0.09	0.33
10481.00	88.330	149.730	7679.20	3283.58	-3677.60	-2533.47	1682012.32	418654.37	39°38'38.2600"N	80°37'45.2428"W	4465.78	214.563	0.90	-0.68	-0.58
10576.00	89.320	151.420	7681.15	3372.06	-3760.33	-2486.81	1682058.97	418571.65	39°38'37.4483"N	80°37'44.6331"W	4508.25	213.478	2.06	1.04	1.78
10671.00	88.760	150.330	7682.74	3460.73	-3843.30	-2440.58	1682105.20	418488.68	39°38'36.6341"N	80°37'44.0289"W	4552.73	212.416	1.29	-0.59	-1.15
10766.00	89.470	150.250	7684.21	3549.04	-3925.80	-2393.50	1682152.27	418406.19	39°38'35.8246"N	80°37'43.4139"W	4597.91	211.370	0.75	0.75	-0.08
10861.00	90.300	150.280	7684.40	3637.35	-4008.29	-2346.38	1682199.39	418323.70	39°38'35.0153"N	80°37'42.7984"W	4644.56	210.344	0.87	0.87	0.03
10956.00	90.240	150.190	7683.95	3725.64	-4090.76	-2299.22	1682246.55	418241.24	39°38'34.2062"N	80°37'42.1823"W	4692.63	209.338	0.11	-0.06	-0.09
11051.00	90.240	149.930	7683.55	3813.83	-4173.08	-2251.81	1682293.96	418158.92	39°38'33.3985"N	80°37'41.5631"W	4741.86	208.351	0.27	0.00	-0.27
11146.00	90.090	149.850	7683.28	3901.91	-4255.26	-2204.15	1682341.61	418076.75	39°38'32.5923"N	80°37'40.9407"W	4792.24	207.383	0.18	-0.16	-0.08
11241.00	90.270	150.080	7682.98	3990.04	-4337.50	-2156.60	1682389.16	417994.51	39°38'31.7854"N	80°37'40.3197"W	4844.05	206.437	0.31	0.19	0.24
11336.00	90.240	149.870	7682.56	4078.17	-4419.75	-2109.07	1682436.69	417912.27	39°38'30.9785"N	80°37'39.6990"W	4897.18	205.510	0.22	-0.03	-0.22
11431.00	90.210	149.740	7682.19	4166.20	-4501.86	-2061.29	1682484.47	417830.16	39°38'30.1730"N	80°37'39.0751"W	4951.33	204.602	0.14	-0.03	-0.14
11526.00	90.300	150.360	7681.76	4254.37	-4584.18	-2013.86	1682531.89	417747.85	39°38'29.3654"N	80°37'38.4557"W	5007.03	203.716	0.66	0.09	0.65
11620.00	90.240	150.640	7681.32	4341.90	-4665.99	-1967.57	1682578.18	417666.05	39°38'28.5627"N	80°37'37.8509"W	5063.87	202.864	0.30	-0.06	0.30
11715.00	90.580	150.490	7680.64	4430.39	-4748.72	-1920.89	1682624.86	417583.32	39°38'27.7509"N	80°37'37.2409"W	5122.52	202.024	0.39	0.36	-0.16
11810.00	90.460	149.880	7679.78	4518.65	-4831.15	-1873.65	1682672.09	417500.90	39°38'26.9422"N	80°37'36.6240"W	5181.75	201.198	0.65	-0.13	-0.64

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Haggard 2H AWB Proj: 19387'

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Field	Wetzel		API	47-103-03526-0000
Facility	Haggard Pad		Wellbore	Haggard 2H AWB
Slot	Slot 02			

WELLPATH DATA (231 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]
11905.00	90.520	150.200	7678.96	4606.82	-4913.45	-1826.21	1682719.53	417418.60	39°38'26.1347"N	80°37'36.0045"W	5241.85	200.389	0.34	0.06	0.34
12000.00	90.330	150.040	7678.26	4695.04	-4995.82	-1778.89	1682766.85	417336.24	39°38'25.3266"N	80°37'35.3864"W	5303.08	199.600	0.26	-0.20	-0.17
12095.00	90.520	149.710	7677.56	4783.10	-5077.98	-1731.21	1682814.53	417254.08	39°38'24.5205"N	80°37'34.7638"W	5364.98	198.826	0.40	0.20	-0.35
12190.00	90.020	150.180	7677.11	4871.22	-5160.21	-1683.63	1682862.10	417171.86	39°38'23.7138"N	80°37'34.1425"W	5427.93	198.070	0.72	-0.53	0.49
12285.00	89.780	149.740	7677.27	4959.34	-5242.45	-1636.07	1682909.66	417089.62	39°38'22.9070"N	80°37'33.5215"W	5491.81	197.332	0.53	-0.25	-0.46
12380.00	89.960	149.700	7677.49	5047.32	-5324.49	-1588.17	1682957.55	417007.59	39°38'22.1022"N	80°37'32.8961"W	5556.30	196.609	0.19	0.19	-0.04
12476.00	89.720	150.330	7677.76	5136.40	-5407.64	-1540.20	1683005.53	416924.44	39°38'21.2864"N	80°37'32.2696"W	5622.70	195.898	0.70	-0.25	0.66
12570.00	89.130	150.550	7678.70	5223.88	-5489.40	-1493.82	1683051.90	416842.69	39°38'20.4842"N	80°37'31.6638"W	5689.02	195.223	0.67	-0.63	0.23
12666.00	88.890	149.600	7680.36	5312.99	-5572.59	-1445.94	1683099.78	416759.51	39°38'19.6680"N	80°37'31.0385"W	5757.12	194.546	1.02	-0.25	-0.99
12761.00	91.070	149.690	7680.39	5400.91	-5654.56	-1397.94	1683147.78	416677.54	39°38'18.8639"N	80°37'30.4118"W	5824.79	193.886	2.30	2.29	0.09
12856.00	91.560	150.230	7678.21	5489.01	-5736.77	-1350.39	1683195.32	416595.33	39°38'18.0573"N	80°37'29.7909"W	5893.57	193.246	0.77	0.52	0.57
12952.00	91.440	149.850	7675.70	5578.08	-5819.92	-1302.47	1683243.24	416512.19	39°38'17.2416"N	80°37'29.1651"W	5963.88	192.615	0.41	-0.12	-0.40
13047.00	90.420	150.230	7674.16	5666.25	-5902.21	-1255.03	1683290.68	416429.90	39°38'16.4342"N	80°37'28.5456"W	6034.17	192.004	1.15	-1.07	0.40
13142.00	90.390	150.200	7673.49	5754.52	-5984.66	-1207.84	1683337.86	416347.46	39°38'15.6252"N	80°37'27.9293"W	6105.33	191.410	0.04	-0.03	-0.03
13238.00	91.010	149.870	7672.31	5843.62	-6067.82	-1159.89	1683385.81	416264.30	39°38'14.8093"N	80°37'27.3032"W	6177.68	190.822	0.73	0.65	-0.34
13332.00	90.090	150.230	7671.41	5930.86	-6149.26	-1112.97	1683432.73	416182.86	39°38'14.0103"N	80°37'26.6904"W	6249.17	190.259	1.05	-0.98	0.38
13427.00	90.360	149.740	7671.04	6019.00	-6231.52	-1065.45	1683480.25	416100.61	39°38'13.2033"N	80°37'26.0699"W	6321.95	189.702	0.59	0.28	-0.52
13522.00	89.960	149.800	7670.77	6107.01	-6313.60	-1017.62	1683528.07	416018.53	39°38'12.3980"N	80°37'25.4455"W	6395.08	189.156	0.43	-0.42	0.06
13617.00	89.440	149.630	7671.27	6194.98	-6395.64	-969.71	1683575.98	415936.51	39°38'11.5933"N	80°37'24.8201"W	6468.73	188.622	0.58	-0.55	-0.18
13712.00	89.190	149.780	7672.41	6282.93	-6477.66	-921.79	1683623.90	415854.49	39°38'10.7886"N	80°37'24.1945"W	6542.91	188.099	0.31	-0.26	0.16
13808.00	90.300	150.090	7672.83	6371.97	-6560.74	-873.70	1683671.99	415771.41	39°38'9.9735"N	80°37'23.5666"W	6618.66	187.585	1.20	1.16	0.32
13903.00	89.810	150.240	7672.74	6460.22	-6643.15	-826.43	1683719.25	415689.01	39°38'9.1650"N	80°37'22.9494"W	6694.35	187.091	0.54	-0.52	0.16
13998.00	90.090	149.820	7672.82	6548.38	-6725.44	-778.98	1683766.70	415606.72	39°38'8.3576"N	80°37'22.3297"W	6770.41	186.607	0.53	0.29	-0.44
14093.00	90.180	149.650	7672.60	6636.37	-6807.49	-731.10	1683814.58	415524.67	39°38'7.5526"N	80°37'21.7046"W	6846.64	186.130	0.20	0.09	-0.18
14188.00	89.930	149.080	7672.51	6724.12	-6889.24	-682.69	1683862.98	415442.94	39°38'6.7508"N	80°37'21.0729"W	6922.98	185.659	0.66	-0.26	-0.60
14283.00	90.020	148.890	7672.55	6811.63	-6970.65	-633.74	1683911.93	415361.52	39°38'5.9522"N	80°37'20.4343"W	6999.40	185.195	0.22	0.09	-0.20
14378.00	90.020	149.560	7672.52	6899.29	-7052.28	-585.13	1683960.53	415279.91	39°38'5.1516"N	80°37'19.8000"W	7076.51	184.743	0.71	0.00	0.71
14473.00	89.780	149.180	7672.68	6987.04	-7134.02	-536.73	1684008.93	415198.17	39°38'4.3498"N	80°37'19.1684"W	7154.18	184.303	0.47	-0.25	-0.40
14569.00	89.720	149.700	7673.10	7075.76	-7216.68	-487.92	1684057.74	415115.51	39°38'3.5389"N	80°37'18.5314"W	7233.16	183.868	0.55	-0.06	0.54
14664.00	88.920	149.500	7674.23	7163.65	-7298.62	-439.85	1684105.81	415033.58	39°38'2.7351"N	80°37'17.9039"W	7311.86	183.449	0.87	-0.84	-0.21

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# Actual Wellpath Report

Haggard 2H AWB Proj: 19387'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	EQT PRODUCTION COMPANY		Well	Haggard 2H
Field	Wetzel		API	47-103-03526-0000
Facility	Haggard Pad		Wellbore	Haggard 2H AWB
Slot	Slot 02			

WELLPATH DATA (231 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]
14759.00	89.190	149.200	7675.80	7251.38	-7380.33	-391.43	1684154.23	414951.87	39°38'1.9335"N	80°37'17.2720"W	7390.71	183.036	0.42	0.28	-0.32
14854.00	90.020	149.150	7676.45	7339.01	-7461.91	-342.75	1684202.90	414870.30	39°38'1.1334"N	80°37'16.6369"W	7469.78	182.630	0.88	0.87	-0.05
14949.00	90.270	149.790	7676.21	7426.83	-7543.74	-294.49	1684251.16	414788.47	39°38'0.3307"N	80°37'16.0071"W	7549.49	182.236	0.72	0.26	0.67
15044.00	89.840	149.430	7676.12	7514.73	-7625.69	-246.43	1684299.21	414706.53	39°37'59.5268"N	80°37'15.3798"W	7629.67	181.851	0.59	-0.45	-0.38
15139.00	89.810	149.150	7676.41	7602.43	-7707.36	-197.92	1684347.73	414624.86	39°37'58.7256"N	80°37'14.7468"W	7709.90	181.471	0.30	-0.03	-0.29
15234.00	89.620	149.900	7676.88	7690.28	-7789.24	-149.74	1684395.90	414542.99	39°37'57.9224"N	80°37'14.1180"W	7790.68	181.101	0.81	-0.20	0.79
15329.00	89.440	150.000	7677.66	7778.40	-7871.47	-102.17	1684443.47	414460.77	39°37'57.1157"N	80°37'13.4969"W	7872.13	180.744	0.22	-0.19	0.11
15425.00	89.720	149.940	7678.37	7867.45	-7954.58	-54.12	1684491.51	414377.66	39°37'56.3002"N	80°37'12.8697"W	7954.76	180.390	0.30	0.29	-0.06
15521.00	89.780	149.910	7678.78	7956.48	-8037.65	-6.02	1684539.61	414294.59	39°37'55.4852"N	80°37'12.2416"W	8037.65	180.043	0.07	0.06	-0.03
15616.00	89.500	150.250	7679.38	8044.68	-8119.99	41.37	1684587.00	414212.26	39°37'54.6774"N	80°37'11.6229"W	8120.09	179.708	0.46	-0.29	0.36
15711.00	90.330	149.960	7679.52	8132.89	-8202.35	88.72	1684634.34	414129.90	39°37'53.8693"N	80°37'11.0047"W	8202.83	179.380	0.93	0.87	-0.31
15806.00	90.520	150.000	7678.82	8221.02	-8284.60	136.24	1684681.87	414047.66	39°37'53.0623"N	80°37'10.3842"W	8285.72	179.058	0.20	0.20	0.04
15901.00	89.720	150.000	7678.62	8309.17	-8366.87	183.74	1684729.36	413965.39	39°37'52.2551"N	80°37'9.7641"W	8368.89	178.742	0.84	-0.84	0.00
15996.00	89.680	149.630	7679.12	8397.20	-8448.99	231.51	1684777.12	413883.28	39°37'51.4495"N	80°37'9.1406"W	8452.16	178.430	0.39	-0.04	-0.39
16091.00	89.620	149.490	7679.70	8485.08	-8530.89	279.64	1684825.25	413801.38	39°37'50.6460"N	80°37'8.5125"W	8535.48	178.123	0.16	-0.06	-0.15
16186.00	89.590	149.920	7680.35	8573.04	-8612.92	327.56	1684873.17	413719.36	39°37'49.8413"N	80°37'7.8870"W	8619.14	177.822	0.45	-0.03	0.45
16281.00	89.710	149.850	7680.93	8661.12	-8695.09	375.22	1684920.83	413637.19	39°37'49.0351"N	80°37'7.2648"W	8703.19	177.529	0.15	0.13	-0.07
16376.00	90.330	149.790	7680.90	8749.15	-8777.22	422.98	1684968.59	413555.07	39°37'48.2294"N	80°37'6.6414"W	8787.40	177.241	0.66	0.65	-0.06
16471.00	90.120	149.640	7680.53	8837.12	-8859.25	470.89	1685016.49	413473.04	39°37'47.4246"N	80°37'6.0161"W	8871.76	176.957	0.27	-0.22	-0.16
16566.00	90.240	149.660	7680.23	8925.05	-8941.23	518.89	1685064.49	413391.07	39°37'46.6203"N	80°37'5.3896"W	8956.27	176.679	0.13	0.13	0.02
16661.00	89.990	149.520	7680.04	9012.95	-9023.16	566.98	1685112.57	413309.14	39°37'45.8166"N	80°37'4.7620"W	9040.96	176.404	0.30	-0.26	-0.15
16756.00	89.870	149.700	7680.15	9100.85	-9105.11	615.04	1685160.63	413227.20	39°37'45.0127"N	80°37'4.1348"W	9125.86	176.136	0.23	-0.13	0.19
16850.00	90.210	151.670	7680.09	9188.48	-9187.07	661.06	1685206.65	413145.25	39°37'44.2084"N	80°37'3.5337"W	9210.82	175.884	2.13	0.36	2.10
16945.00	90.180	155.500	7679.76	9278.65	-9272.13	703.31	1685248.90	413060.19	39°37'43.3729"N	80°37'2.9802"W	9298.77	175.662	4.03	-0.03	4.03
17040.00	90.240	155.330	7679.42	9369.75	-9358.52	742.84	1685288.42	412973.80	39°37'42.5241"N	80°37'2.4613"W	9387.95	175.462	0.19	0.06	-0.18
17135.00	90.080	155.220	7679.15	9460.78	-9444.81	782.57	1685328.15	412887.52	39°37'41.6762"N	80°37'1.9398"W	9477.17	175.263	0.20	-0.17	-0.12
17231.00	90.180	155.870	7678.93	9552.90	-9532.20	822.31	1685367.89	412800.14	39°37'40.8175"N	80°37'1.4181"W	9567.60	175.069	0.69	0.10	0.68
17326.00	90.210	157.320	7678.61	9644.53	-9619.38	860.05	1685405.63	412712.96	39°37'39.9606"N	80°37'0.9220"W	9657.75	174.891	1.53	0.03	1.53
17420.00	90.050	157.100	7678.40	9735.46	-9706.04	896.46	1685442.03	412626.31	39°37'39.1086"N	80°37'0.4429"W	9747.35	174.723	0.29	-0.17	-0.23
17515.00	90.210	157.290	7678.18	9827.35	-9793.61	933.28	1685478.85	412538.74	39°37'38.2477"N	80°36'59.9585"W	9837.98	174.556	0.26	0.17	0.20

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Actual Wellpath Report  
Haggard 2H AWB Proj: 19387\*  
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REFERENCE WELLPATH IDENTIFICATION				
Operator	EQT PRODUCTION COMPANY		Well	Haggard 2H
Field	Wetzel		API	47-103-03526-0000
Facility	Haggard Pad		Wellbore	Haggard 2H AWB
Slot	Slot 02			

WELLPATH DATA (231 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]	
17610.00	90.150	157.020	7677.88	9919.23	-9881.16	970.16	1685515.73	412451.20	39°37'37.3871"N	80°36'59.4732"W	9928.67	174.392	0.29	-0.06	-0.28	
17705.00	90.150	157.110	7677.63	10011.06	-9968.65	1007.18	1685552.75	412363.71	39°37'36.5270"N	80°36'58.9863"W	10019.40	174.231	0.09	0.00	0.09	
17801.00	90.820	157.460	7676.82	10103.95	-10057.20	1044.25	1685589.82	412275.17	39°37'35.6565"N	80°36'58.4985"W	10111.27	174.072	0.79	0.70	0.36	
17896.00	90.450	157.390	7675.77	10195.94	-10144.91	1080.72	1685626.28	412187.46	39°37'34.7941"N	80°36'58.0186"W	10202.31	173.919	0.40	-0.39	-0.07	
17991.00	90.390	157.190	7675.07	10287.86	-10232.55	1117.40	1685662.96	412099.83	39°37'33.9326"N	80°36'57.5360"W	10293.37	173.768	0.22	-0.06	-0.21	
18085.00	90.360	157.500	7674.46	10378.85	-10319.29	1153.60	1685699.16	412013.09	39°37'33.0798"N	80°36'57.0595"W	10383.57	173.621	0.33	-0.03	0.33	
18180.00	90.450	157.330	7673.78	10470.83	-10407.00	1190.09	1685735.64	411925.38	39°37'32.2175"N	80°36'56.5794"W	10474.83	173.476	0.20	0.09	-0.18	
18275.00	90.150	157.300	7673.29	10562.77	-10494.65	1226.72	1685772.28	411837.74	39°37'31.3558"N	80°36'56.0973"W	10566.11	173.333	0.32	-0.32	-0.03	
18370.00	90.180	157.130	7673.01	10654.67	-10582.24	1263.51	1685809.07	411750.16	39°37'30.4947"N	80°36'55.6132"W	10657.40	173.191	0.18	0.03	-0.18	
18465.00	89.960	156.900	7672.90	10746.48	-10669.70	1300.61	1685846.16	411662.71	39°37'29.6350"N	80°36'55.1253"W	10748.67	173.050	0.34	-0.23	-0.24	
18559.00	90.180	158.180	7672.78	10837.55	-10756.56	1336.52	1685882.07	411575.84	39°37'28.7809"N	80°36'54.6527"W	10839.28	172.917	1.38	0.23	1.36	
18654.00	90.210	158.160	7672.46	10929.83	-10844.75	1371.85	1685917.39	411487.66	39°37'27.9138"N	80°36'54.1872"W	10931.18	172.790	0.04	0.03	-0.02	
18749.00	90.180	158.180	7672.14	11022.12	-10932.94	1407.17	1685952.72	411399.48	39°37'27.0466"N	80°36'53.7218"W	11023.12	172.666	0.04	-0.03	0.02	
18844.00	90.360	157.710	7671.69	11114.32	-11020.99	1442.84	1685988.39	411311.44	39°37'26.1809"N	80°36'53.2521"W	11115.03	172.541	0.53	0.19	-0.49	
18939.00	90.730	158.040	7670.78	11206.49	-11108.99	1478.62	1686024.16	411223.44	39°37'25.3156"N	80°36'52.7809"W	11206.96	172.418	0.52	0.39	0.35	
19034.00	90.760	158.240	7669.55	11298.75	-11197.15	1513.99	1686059.53	411135.29	39°37'24.4487"N	80°36'52.3150"W	11299.04	172.300	0.21	0.03	0.21	
19129.00	90.760	158.420	7668.29	11391.10	-11285.43	1549.07	1686094.60	411047.01	39°37'23.5806"N	80°36'51.8528"W	11391.24	172.184	0.19	0.00	0.19	
19224.00	90.760	158.270	7667.03	11483.45	-11373.71	1584.12	1686129.66	410958.73	39°37'22.7124"N	80°36'51.3908"W	11483.50	172.071	0.16	0.00	-0.16	
19319.00	90.790	158.250	7665.74	11575.76	-11461.95	1619.31	1686164.84	410870.50	39°37'21.8447"N	80°36'50.9273"W	11575.77	171.959	0.04	0.03	-0.02	
19362.00	90.700	157.940	7665.18	11617.52	-11501.84	1635.35	1686180.88	410830.61	39°37'21.4525"N	80°36'50.7160"W	11617.52	171.908	0.75	-0.21	-0.72	
19387.00‡	90.700	157.940	7664.88	11641.78	-11525.01	1644.74	1686190.27	410807.45	39°37'21.2247"N	80°36'50.5923"W	11641.78	171.878	0.00	0.00	0.00	

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# Actual Wellpath Report

Haggard 2H AWB Proj: 19387'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT PRODUCTION COMPANY	Well	Haggard 2H
Field	Wetzel	API	47-103-03526-0000
Facility	Haggard Pad	Wellbore	Haggard 2H AWB
Slot	Slot 02		

HOLE & CASING SECTIONS - Ref Wellbore: Haggard 2H AWB Ref Wellpath: Haggard 2H AWB Proj: 19387'									
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
17.5in Open Hole	28.00	1516.00	1488.00	28.00	1515.98	0.00	0.00	-2.77	5.90
13.375in Casing Surface	28.00	1486.00	1458.00	28.00	1485.98	0.00	0.00	-2.67	5.58
12.25in Open Hole	1516.00	2953.00	1437.00	1515.98	2934.99	-2.77	5.90	-111.84	-169.71
9.625in Casing Intermediate	28.00	2923.00	2895.00	28.00	2905.60	0.00	0.00	-108.60	-164.61
8.75in Open Hole	2953.00	6415.00	3462.00	2934.99	5667.55	-111.84	-169.71	-1222.96	-1883.64
8.5in Open Hole	6415.00	19387.00	12972.00	5667.55	7664.88	-1222.96	-1883.64	-11525.01	1644.74
6in Casing Production	28.00	19387.00	19359.00	28.00	7664.88	0.00	0.00	-11525.01	1644.74

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Haggard 2H AZI1	7671.00	-9152.45	628.36	1685173.95	413179.86	39°37'44.5464"N	80°37'3.9571"W	point
Haggard 2H AZI2	7671.00	-9604.57	841.04	1685386.62	412727.77	39°37'40.1046"N	80°37'1.1672"W	point
Haggard 2H BHL Rev-0	7671.00	-11525.26	1641.69	1686187.22	410807.19	39°37'21.2218"N	80°36'50.6312"W	point
Haggard 2H LP Rev-0	7671.00	-2790.62	-3048.80	1681497.02	419541.30	39°38'46.9614"N	80°37'51.9726"W	point

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# Actual Wellpath Report

Haggard 2H AWB Proj: 19387'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT PRODUCTION COMPANY	Well	Haggard 2H
Field	Wetzel	API	47-103-03526-0000
Facility	Haggard Pad	Wellbore	Haggard 2H AWB
Slot	Slot 02		

WELLPATH COMPOSITION - Ref Wellbore: Haggard 2H AWB Ref Wellpath: Haggard 2H AWB Proj: 19387'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	1476.00	Gyrodatta 2015 - CT+WIR+DPIPE	01 Gyrodatta Cont. Gyro <17-1/2">(115'-1476')	Haggard 2H AWB	9/20/2023
1476.00	2874.00	OWSG MWD rev2 + HRGM	02 SDI MWD <12-1/4">(1476')(1503'-2874')	Haggard 2H AWB	9/20/2023
2874.00	6334.00	OWSG MWD rev2 + HRGM	03 SDI MWD <8-3/4">(2874')(2976'-6334')	Haggard 2H AWB	9/28/2023
6334.00	19387.00	OWSG MWD rev2 + IFR1 + Axial Corr + Sag Correction	04 BH Lucida+SQC IFR1+SAG+FDIR <8-1/2">(6334')(6403'- 19362')	Haggard 2H AWB	10/14/2023

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Haggard 2H AWB Proj: 19387'

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REFERENCE WELLPATH IDENTIFICATION			
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Field	Wetzel	API	47-103-03526-0000
Facility	Haggard Pad	Wellbore	Haggard 2H AWB
Slot	Slot 02		

COMMENTS
<p><b>Wellpath general comments</b>  API: 47-103-03526-0000  BH Job #: 111974038  Rig: Patterson 292  Duration: 10/17/2023-10/19/2023</p> <p>01_Gyrodata Cont. Gyro &lt;17-1/2"&gt;(115'-1476')  02_SDI MWD &lt;12-1/4"&gt;(1476')(1503'-2874')  03_SDI MWD &lt;8-3/4"&gt;(2874')(2976'-6334')  04_BH Lucida+SQC IFR1+SAG+FDIR &lt;8-1/2"&gt;(6334')(6403'- 19362')</p> <p>Landing Pt. @ 9438' MD  Final Survey @ 19362' MD  Projected MD at TD: 19387'</p>

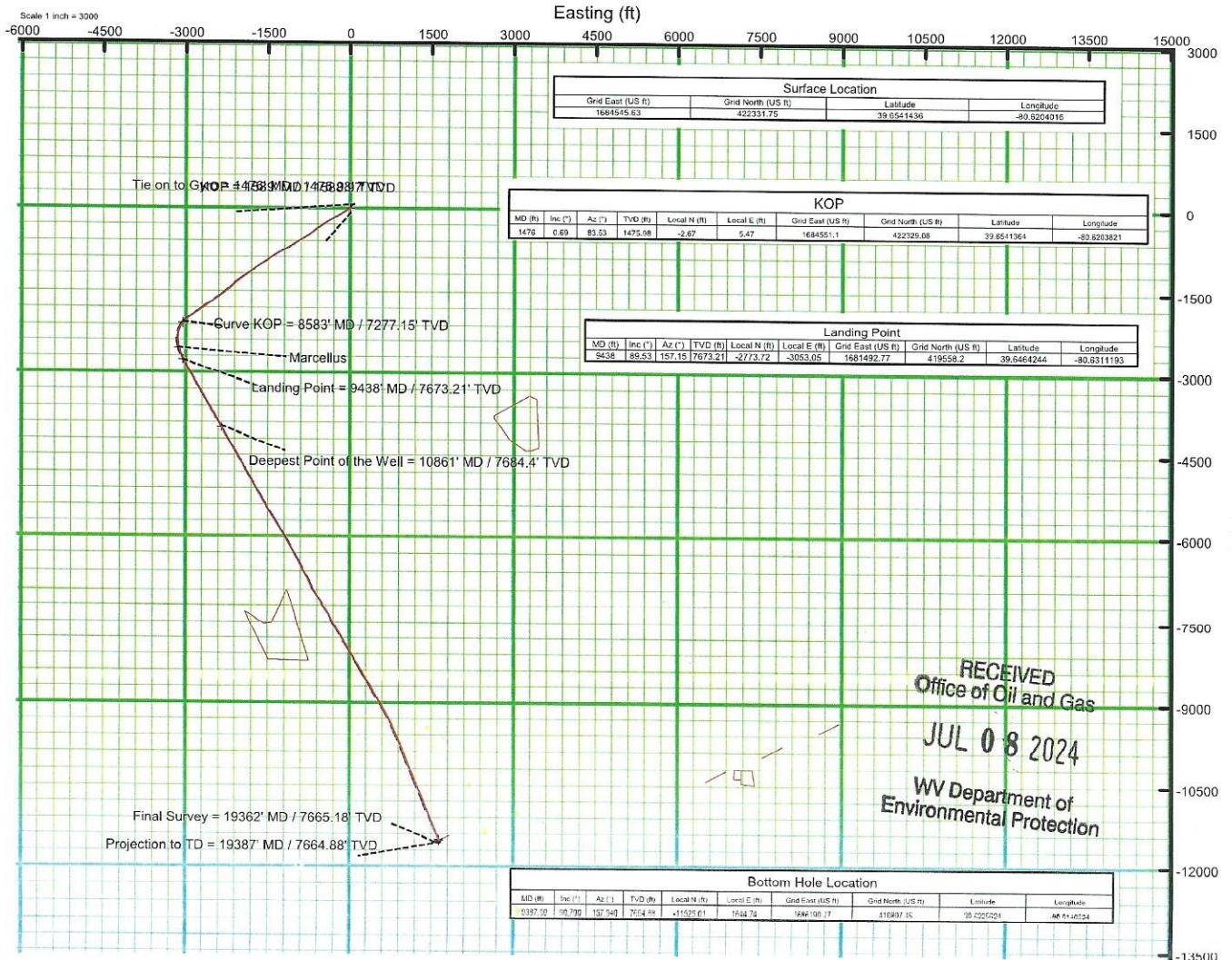
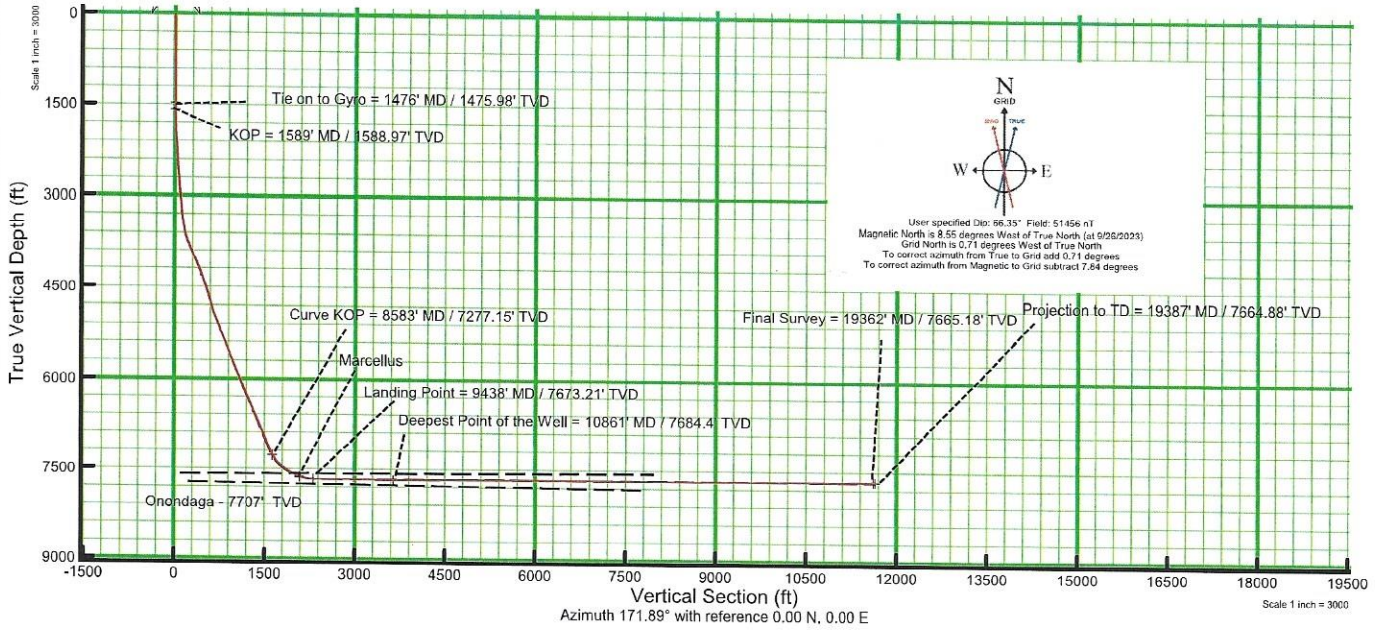
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KB Elevation=1547 FT  
 Ground Elevation=1519 FT  
 All Survey Measurements were taken from KB Elevation



Surface Location			
Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
1684545.63	422331.75	39.8541436	-80.5204016

KOP									
MD (ft)	Inc. (")	Az. (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
1476	0.69	85.53	1475.98	-2.67	5.47	1684551.1	422329.08	39.8541364	-80.5204016

Landing Point									
MD (ft)	Inc. (")	Az. (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
9438	89.53	157.15	7673.21	-2773.72	-3053.05	1684492.77	419558.2	39.8464244	-80.8311193

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
19387	108.70	157.548	7664.88	+11525.61	1644.76	1684190.77	416987.55	39.8225261	-80.8440554

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