



Actual Wellpath Report

Michael Kuhn 16H AWP Proj: 24158'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Michael Kuhn 16H (L-007924)
Field	Wetzel	API/Legal	
Facility	Big 467 Pad	Wellbore	Michael Kuhn 16H AWB
Slot	Slot 16H		

REPORT SETUP INFORMATION

Projection System	NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Manajohj
Scale	0.999941	Report Generated	3/29/2022 at 12:27:55 PM
Convergence at slot	0.66° 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	-38.81	116.11	1709551.61	407815.08	39°36'54.4075"N	80°31'51.6150"W
Facility Reference Pt			1709435.51	407853.89	39°36'54.7779"N	80°31'53.1042"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 294 (RKB) to Facility Vertical Datum	1536.00ft
Horizontal Reference Pt	Slot	Patterson 294 (RKB) to Mean Sea Level	1536.00ft
Vertical Reference Pt	Patterson 294 (RKB)	Patterson 294 (RKB) to Ground Level at Slot (Slot 16H)	28.00ft
MD Reference Pt	Patterson 294 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	134.20°

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WELLPATH DATA (281 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
0.00†	0.000	253.600	0.00	0.00	0.00	0.00	1709551.61	407815.08	39°36'54.4075"N	80°31'51.6150"W	0.00	0.000	0.00	0.00	0.00
28.00	0.000	253.600	28.00	0.00	0.00	0.00	1709551.61	407815.08	39°36'54.4075"N	80°31'51.6150"W	0.00	0.000	0.00	0.00	0.00
115.00	0.310	253.600	115.00	-0.12	-0.07	-0.23	1709551.38	407815.01	39°36'54.4068"N	80°31'51.6179"W	0.24	253.600	0.36	0.36	0.00
215.00	0.360	266.360	215.00	-0.46	-0.16	-0.80	1709550.81	407814.92	39°36'54.4058"N	80°31'51.6252"W	0.82	258.483	0.09	0.05	12.76
315.00	0.200	289.110	315.00	-0.83	-0.13	-1.28	1709550.33	407814.95	39°36'54.4061"N	80°31'51.6313"W	1.28	264.385	0.19	-0.16	22.75
415.00	0.190	323.500	415.00	-1.15	0.06	-1.54	1709550.07	407815.14	39°36'54.4079"N	80°31'51.6347"W	1.54	272.410	0.12	-0.01	34.39
515.00	0.080	319.990	515.00	-1.38	0.25	-1.68	1709549.93	407815.33	39°36'54.4098"N	80°31'51.6366"W	1.70	278.496	0.11	-0.11	-3.51
615.00	0.060	353.560	615.00	-1.49	0.36	-1.74	1709549.88	407815.44	39°36'54.4108"N	80°31'51.6372"W	1.77	281.630	0.04	-0.02	33.57
715.00	0.090	323.590	715.00	-1.61	0.47	-1.79	1709549.82	407815.55	39°36'54.4119"N	80°31'51.6379"W	1.85	284.801	0.05	0.03	-29.97
815.00	0.140	28.930	815.00	-1.72	0.64	-1.78	1709549.84	407815.72	39°36'54.4136"N	80°31'51.6378"W	1.89	289.897	0.13	0.05	65.34
915.00	0.250	94.960	915.00	-1.58	0.73	-1.50	1709550.11	407815.81	39°36'54.4145"N	80°31'51.6343"W	1.67	295.988	0.23	0.11	66.03
1015.00	0.150	176.990	1014.99	-1.32	0.58	-1.27	1709550.34	407815.66	39°36'54.4131"N	80°31'51.6314"W	1.40	294.507	0.27	-0.10	82.03
1115.00	0.030	173.910	1114.99	-1.20	0.42	-1.26	1709550.35	407815.50	39°36'54.4115"N	80°31'51.6312"W	1.33	288.542	0.12	-0.12	-3.08
1215.00	0.260	55.810	1214.99	-1.14	0.53	-1.07	1709550.54	407815.61	39°36'54.4125"N	80°31'51.6288"W	1.20	296.073	0.28	0.23	-118.10
1264.00	0.180	49.710	1263.99	-1.11	0.64	-0.92	1709550.69	407815.72	39°36'54.4137"N	80°31'51.6269"W	1.12	304.632	0.17	-0.16	-12.45
1391.00	0.450	14.050	1390.99	-1.34	1.25	-0.65	1709550.96	407816.33	39°36'54.4198"N	80°31'51.6235"W	1.41	332.525	0.25	0.21	-28.08
1434.00	0.380	29.980	1433.99	-1.46	1.54	-0.54	1709551.07	407816.62	39°36'54.4226"N	80°31'51.6221"W	1.63	340.716	0.31	-0.16	37.05
1477.00	0.170	308.250	1476.99	-1.56	1.70	-0.52	1709551.09	407816.78	39°36'54.4242"N	80°31'51.6218"W	1.78	343.095	0.91	-0.49	-190.07
1521.00	1.500	29.970	1520.99	-1.76	2.24	-0.28	1709551.33	407817.32	39°36'54.4296"N	80°31'51.6189"W	2.26	352.863	3.38	3.02	185.73
1564.00	1.760	19.120	1563.97	-2.18	3.35	0.22	1709551.83	407818.43	39°36'54.4406"N	80°31'51.6127"W	3.36	3.702	0.94	0.60	-25.23
1607.00	2.620	44.760	1606.94	-2.45	4.67	1.13	1709552.74	407819.75	39°36'54.4538"N	80°31'51.6013"W	4.81	13.537	2.98	2.00	59.63
1650.00	3.280	41.910	1649.88	-2.49	6.29	2.64	1709554.25	407821.37	39°36'54.4699"N	80°31'51.5822"W	6.82	22.770	1.57	1.53	-6.63
1693.00	5.080	45.010	1692.76	-2.51	8.55	4.81	1709556.42	407823.63	39°36'54.4925"N	80°31'51.5548"W	9.81	29.351	4.22	4.19	7.21
1736.00	6.240	45.900	1735.55	-2.42	11.52	7.83	1709559.44	407826.60	39°36'54.5222"N	80°31'51.5166"W	13.93	34.208	2.71	2.70	2.07
1779.00	7.440	47.400	1778.25	-2.19	15.03	11.56	1709563.17	407830.11	39°36'54.5573"N	80°31'51.4695"W	18.96	37.561	2.82	2.79	3.49
1822.00	9.480	47.160	1820.78	-1.85	19.32	16.21	1709567.81	407834.40	39°36'54.6003"N	80°31'51.4108"W	25.22	39.984	4.74	4.74	-0.56
1909.00	11.380	52.250	1906.34	-0.28	29.45	28.25	1709579.86	407844.53	39°36'54.7017"N	80°31'51.2584"W	40.81	43.804	2.43	2.18	5.85
1994.00	11.240	53.640	1989.69	2.25	39.50	41.55	1709593.16	407854.57	39°36'54.8025"N	80°31'51.0899"W	57.33	46.450	0.36	-0.16	1.64
2080.00	11.810	51.090	2073.95	4.68	49.99	55.15	1709606.75	407865.07	39°36'54.9078"N	80°31'50.9177"W	74.44	47.806	0.89	0.66	-2.97
2167.00	11.470	52.600	2159.16	7.01	60.84	68.95	1709620.55	407875.92	39°36'55.0165"N	80°31'50.7430"W	91.95	48.574	0.52	-0.39	1.74

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Facility	Big 467 Pad	Wellbore	Michael Kuhn 16H AWB
Slot	Slot 16H		

WELLPATH DATA (281 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
2253.00	10.350	51.580	2243.61	9.25	70.83	81.79	1709633.40	407885.91	39°36'55.1168"N	80°31'50.5803"W	108.20	49.107	1.32	-1.30	-1.19
2339.00	10.100	55.690	2328.24	11.75	79.89	94.07	1709645.68	407894.96	39°36'55.2076"N	80°31'50.4247"W	123.42	49.663	0.90	-0.29	4.78
2426.00	10.350	51.990	2413.86	14.33	89.00	106.53	1709658.14	407904.07	39°36'55.2991"N	80°31'50.2669"W	138.82	50.124	0.81	0.29	-4.25
2512.00	9.120	50.460	2498.62	16.12	98.10	117.88	1709669.48	407913.17	39°36'55.3903"N	80°31'50.1233"W	153.35	50.233	1.46	-1.43	-1.78
2598.00	10.220	45.180	2583.40	16.99	107.81	128.55	1709680.15	407922.89	39°36'55.4875"N	80°31'49.9884"W	167.77	50.013	1.64	1.28	-6.14
2684.00	10.000	43.290	2668.07	17.00	118.63	139.08	1709690.68	407933.70	39°36'55.5956"N	80°31'49.8554"W	182.80	49.538	0.46	-0.26	-2.20
2771.00	11.130	39.920	2753.59	16.26	130.56	149.65	1709701.25	407945.64	39°36'55.7147"N	80°31'49.7221"W	198.60	48.896	1.48	1.30	-3.87
2793.00	11.320	38.850	2775.17	15.90	133.87	152.36	1709703.96	407948.95	39°36'55.7478"N	80°31'49.6879"W	202.82	48.696	1.28	0.86	-4.86
2898.00	10.580	31.540	2878.26	12.82	150.12	163.87	1709715.47	407965.19	39°36'55.9096"N	80°31'49.5432"W	222.23	47.508	1.50	-0.70	-6.96
2941.00	10.270	30.030	2920.55	11.02	156.80	167.85	1709719.45	407971.87	39°36'55.9761"N	80°31'49.4933"W	229.70	46.950	0.96	-0.72	-3.51
2984.00	11.170	35.030	2962.80	9.42	163.53	172.16	1709723.76	407978.60	39°36'56.0431"N	80°31'49.4392"W	237.45	46.473	3.01	2.09	11.63
3027.00	12.110	44.300	3004.92	8.76	170.17	177.70	1709729.30	407985.24	39°36'56.1093"N	80°31'49.3694"W	246.04	46.241	4.86	2.19	21.56
3070.00	13.860	51.160	3046.82	9.39	176.63	184.87	1709736.47	407991.70	39°36'56.1740"N	80°31'49.2788"W	255.68	46.306	5.42	4.07	15.95
3113.00	15.950	53.900	3088.37	11.01	183.34	193.65	1709745.25	407998.41	39°36'56.2413"N	80°31'49.1676"W	266.67	46.567	5.13	4.86	6.37
3156.00	17.860	55.300	3129.51	13.28	190.57	203.85	1709755.45	408005.64	39°36'56.3139"N	80°31'49.0383"W	279.06	46.928	4.54	4.44	3.26
3199.00	19.390	57.540	3170.26	16.20	198.16	215.29	1709766.89	408013.23	39°36'56.3902"N	80°31'48.8932"W	292.61	47.373	3.93	3.56	5.21
3242.00	20.930	58.030	3210.63	19.68	206.06	227.83	1709779.43	408021.13	39°36'56.4697"N	80°31'48.7342"W	307.19	47.873	3.60	3.58	1.14
3285.00	20.960	57.590	3250.78	23.30	214.25	240.84	1709792.44	408029.31	39°36'56.5521"N	80°31'48.5692"W	322.34	48.344	0.37	0.07	-1.02
3328.00	21.900	56.770	3290.81	26.82	222.76	254.04	1709805.64	408037.83	39°36'56.6377"N	80°31'48.4017"W	337.88	48.753	2.29	2.19	-1.91
3371.00	23.320	58.340	3330.51	30.65	231.63	268.00	1709819.59	408046.69	39°36'56.7269"N	80°31'48.2248"W	354.22	49.163	3.59	3.30	3.65
3415.00	25.010	57.860	3370.65	34.97	241.15	283.28	1709834.88	408056.21	39°36'56.8227"N	80°31'48.0308"W	372.02	49.594	3.87	3.84	-1.09
3458.00	26.690	58.020	3409.34	39.43	251.10	299.17	1709850.77	408066.16	39°36'56.9229"N	80°31'47.8292"W	390.58	49.993	3.91	3.91	0.37
3501.00	28.450	56.670	3447.46	43.94	261.84	315.92	1709867.52	408076.90	39°36'57.0309"N	80°31'47.6168"W	410.33	50.348	4.34	4.09	-3.14
3544.00	28.300	55.570	3485.29	48.17	273.23	332.89	1709884.48	408088.29	39°36'57.1454"N	80°31'47.4017"W	430.66	50.621	1.26	-0.35	-2.56
3587.00	29.110	54.070	3523.01	51.97	285.13	349.77	1709901.36	408100.19	39°36'57.2649"N	80°31'47.1878"W	451.26	50.813	2.52	1.88	-3.49
3630.00	30.180	52.960	3560.38	55.41	297.78	366.86	1709918.45	408112.84	39°36'57.3919"N	80°31'46.9712"W	472.51	50.934	2.80	2.49	-2.58
3673.00	31.190	52.460	3597.36	58.65	311.08	384.32	1709935.91	408126.14	39°36'57.5252"N	80°31'46.7501"W	494.44	51.013	2.42	2.35	-1.16
3716.00	32.350	52.780	3633.92	61.97	324.82	402.31	1709953.90	408139.88	39°36'57.6631"N	80°31'46.5222"W	517.07	51.083	2.73	2.70	0.74
3760.00	33.970	53.100	3670.75	65.63	339.32	421.52	1709973.10	408154.38	39°36'57.8086"N	80°31'46.2789"W	541.13	51.166	3.70	3.68	0.73
3803.00	35.130	54.350	3706.17	69.67	353.75	441.18	1709992.76	408168.81	39°36'57.9534"N	80°31'46.0298"W	565.49	51.277	3.16	2.70	2.91

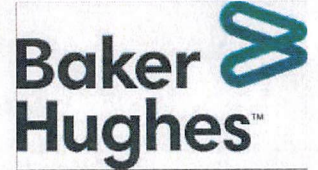
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3846.00	36.150	55.110	3741.11	74.25	368.21	461.64	1710013.22	408183.27	39°36'58.0987"N	80°31'45.7706"W	590.50	51.423	2.59	2.37	1.77
3889.00	37.510	55.240	3775.53	79.15	382.93	482.80	1710034.38	408197.99	39°36'58.2465"N	80°31'45.5024"W	616.22	51.580	3.17	3.16	0.30
3975.00	39.910	56.190	3842.63	89.90	413.22	527.23	1710078.81	408228.27	39°36'58.5508"N	80°31'44.9390"W	669.87	51.913	2.87	2.79	1.10
4061.00	39.930	54.890	3908.59	100.75	444.44	572.74	1710124.31	408259.49	39°36'58.8646"N	80°31'44.3622"W	724.95	52.189	0.97	0.02	-1.51
4148.00	39.380	55.110	3975.57	111.15	476.29	618.22	1710169.79	408291.34	39°36'59.1844"N	80°31'43.7857"W	780.41	52.389	0.65	-0.63	0.25
4234.00	39.960	54.790	4041.77	121.39	507.82	663.16	1710214.73	408322.86	39°36'59.5011"N	80°31'43.2161"W	835.26	52.557	0.72	0.67	-0.37
4320.00	40.370	55.890	4107.49	132.11	539.36	708.78	1710260.35	408354.40	39°36'59.8180"N	80°31'42.6378"W	890.66	52.730	0.95	0.48	1.28
4406.00	40.060	55.120	4173.16	143.00	570.80	754.55	1710306.11	408385.85	39°37'0.1339"N	80°31'42.0576"W	946.13	52.893	0.68	-0.36	-0.90
4493.00	39.490	53.860	4240.03	152.94	603.13	799.85	1710351.42	408418.17	39°37'0.4585"N	80°31'41.4834"W	1001.76	52.982	1.13	-0.66	-1.45
4579.00	39.490	53.010	4306.40	161.72	635.71	843.78	1710395.34	408450.75	39°37'0.7854"N	80°31'40.9269"W	1056.45	53.005	0.63	0.00	-0.99
4665.00	41.140	52.660	4371.97	170.07	669.32	888.12	1710439.67	408484.36	39°37'1.1226"N	80°31'40.3654"W	1112.09	52.997	1.94	1.92	-0.41
4751.00	40.750	53.290	4436.93	178.67	703.26	933.11	1710484.66	408518.30	39°37'1.4631"N	80°31'39.7954"W	1168.45	52.996	0.66	-0.45	0.73
4837.00	40.460	51.700	4502.22	186.75	737.33	977.51	1710529.06	408552.37	39°37'1.8049"N	80°31'39.2331"W	1224.42	52.973	1.25	-0.34	-1.85
4923.00	39.940	51.270	4567.91	193.79	771.90	1020.95	1710572.49	408586.93	39°37'2.1514"N	80°31'38.6831"W	1279.91	52.908	0.69	-0.60	-0.50
5000.00	39.970	51.790	4626.93	200.09	802.66	1059.66	1710611.21	408617.69	39°37'2.4598"N	80°31'38.1930"W	1329.34	52.857	0.44	0.04	0.68
5086.00	39.820	53.090	4692.92	208.00	836.29	1103.38	1710654.93	408651.31	39°37'2.7970"N	80°31'37.6392"W	1384.50	52.840	0.99	-0.17	1.51
5171.00	40.220	54.110	4758.01	216.93	868.72	1147.38	1710698.92	408683.75	39°37'3.1225"N	80°31'37.0818"W	1439.15	52.869	0.90	0.47	1.20
5257.00	40.840	54.700	4823.38	226.83	901.25	1192.82	1710744.36	408716.27	39°37'3.4491"N	80°31'36.5059"W	1495.02	52.927	0.85	0.72	0.69
5343.00	41.060	55.520	4888.33	237.50	933.49	1239.06	1710790.59	408748.51	39°37'3.7729"N	80°31'35.9199"W	1551.34	53.006	0.68	0.26	0.95
5429.00	40.500	55.620	4953.45	248.57	965.24	1285.39	1710836.92	408780.27	39°37'4.0920"N	80°31'35.3325"W	1607.46	53.096	0.66	-0.65	0.12
5516.00	39.920	55.190	5019.89	259.49	997.13	1331.62	1710883.15	408812.15	39°37'4.4123"N	80°31'34.7464"W	1663.58	53.174	0.74	-0.67	-0.49
5602.00	39.940	53.860	5085.84	269.38	1029.17	1376.57	1710928.10	408844.18	39°37'4.7340"N	80°31'34.1767"W	1718.76	53.217	0.99	0.02	-1.55
5688.00	40.380	52.840	5151.57	278.20	1062.27	1421.07	1710972.59	408877.29	39°37'5.0662"N	80°31'33.6130"W	1774.22	53.221	0.92	0.51	-1.19
5774.00	41.080	53.020	5216.74	286.72	1096.10	1465.84	1711017.36	408911.11	39°37'5.4055"N	80°31'33.0458"W	1830.34	53.212	0.83	0.81	0.21
5861.00	42.020	52.630	5281.85	295.37	1130.97	1511.82	1711063.34	408945.98	39°37'5.7553"N	80°31'32.4634"W	1888.04	53.200	1.12	1.08	-0.45
5947.00	42.030	53.020	5345.73	304.00	1165.76	1557.69	1711109.21	408980.77	39°37'6.1043"N	80°31'31.8824"W	1945.61	53.189	0.30	0.01	0.45
6033.00	39.990	53.350	5410.62	312.81	1199.57	1602.87	1711154.38	409014.58	39°37'6.4436"N	80°31'31.3101"W	2002.04	53.189	2.39	-2.37	0.38
6120.00	39.630	53.250	5477.45	321.62	1232.86	1647.53	1711199.04	409047.87	39°37'6.7776"N	80°31'30.7443"W	2057.74	53.192	0.42	-0.41	-0.11
6206.00	39.270	53.050	5543.86	330.12	1265.63	1691.25	1711242.76	409080.64	39°37'7.1064"N	80°31'30.1903"W	2112.38	53.191	0.44	-0.42	-0.23
6292.00	39.990	51.920	5610.10	338.02	1299.04	1734.76	1711286.26	409114.04	39°37'7.4414"N	80°31'29.6393"W	2167.23	53.173	1.18	0.84	-1.31

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Michael Kuhn 16H AWP Proj: 24158'

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Field	Wetzel	API/Legal	
Facility	Big 467 Pad	Wellbore	Michael Kuhn 16H AWB
Slot	Slot 16H		

WELLPATH DATA (281 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
6378.00	40.100	51.730	5675.93	345.36	1333.24	1778.26	1711329.76	409148.24	39°37'7.7843"N	80°31'29.0885"W	2222.55	53.139	0.19	0.13	-0.22
6465.00	39.800	52.440	5742.63	353.03	1367.57	1822.33	1711373.83	409182.56	39°37'8.1285"N	80°31'28.5304"W	2278.40	53.114	0.63	-0.34	0.82
6551.00	40.830	52.590	5808.20	361.07	1401.43	1866.48	1711417.97	409216.42	39°37'8.4681"N	80°31'27.9711"W	2334.04	53.099	1.20	1.20	0.17
6637.00	41.430	54.400	5872.98	370.21	1435.07	1911.95	1711463.44	409250.06	39°37'8.8057"N	80°31'27.3951"W	2390.60	53.109	1.55	0.70	2.10
6724.00	41.920	55.650	5937.97	381.08	1468.23	1959.35	1711510.84	409283.22	39°37'9.1387"N	80°31'26.7942"W	2448.41	53.154	1.11	0.56	1.44
6810.00	41.100	56.910	6002.37	393.00	1499.87	2006.75	1711558.24	409314.86	39°37'9.4568"N	80°31'26.1931"W	2505.32	53.225	1.36	-0.95	1.47
6896.00	39.860	56.310	6067.78	405.01	1530.59	2053.36	1711604.85	409345.58	39°37'9.7656"N	80°31'25.6020"W	2561.06	53.299	1.51	-1.44	-0.70
6974.00	39.810	54.320	6127.68	414.64	1559.02	2094.45	1711645.93	409374.00	39°37'10.0512"N	80°31'25.0812"W	2610.99	53.338	1.64	-0.06	-2.55
7060.00	39.500	51.970	6193.89	423.17	1591.93	2138.36	1711689.84	409406.91	39°37'10.3814"N	80°31'24.5249"W	2665.86	53.334	1.78	-0.36	-2.73
7146.00	38.820	50.090	6260.58	429.64	1626.08	2180.58	1711732.06	409441.06	39°37'10.7236"N	80°31'23.9904"W	2720.12	53.288	1.59	-0.79	-2.19
7233.00	39.560	49.850	6328.01	435.16	1661.44	2222.67	1711774.15	409476.41	39°37'11.0778"N	80°31'23.4576"W	2775.00	53.222	0.87	0.85	-0.28
7319.00	39.860	48.660	6394.17	440.00	1697.30	2264.30	1711815.77	409512.27	39°37'11.4369"N	80°31'22.9310"W	2829.82	53.145	0.95	0.35	-1.38
7405.00	40.830	47.640	6459.71	443.83	1734.45	2305.77	1711857.23	409549.42	39°37'11.8086"N	80°31'22.4065"W	2885.28	53.049	1.36	1.13	-1.19
7491.00	40.690	48.360	6524.85	447.55	1772.02	2347.49	1711898.96	409586.99	39°37'12.1846"N	80°31'21.8788"W	2941.22	52.952	0.57	-0.16	0.84
7577.00	41.860	49.290	6589.49	452.13	1809.36	2390.19	1711941.66	409624.33	39°37'12.5585"N	80°31'21.3386"W	2997.80	52.875	1.54	1.36	1.08
7663.00	41.780	51.210	6653.58	458.18	1846.03	2434.28	1711985.74	409660.99	39°37'12.9258"N	80°31'20.7806"W	3055.08	52.825	1.49	-0.09	2.23
7750.00	42.080	53.810	6718.31	466.58	1881.40	2480.40	1712031.86	409696.36	39°37'13.2806"N	80°31'20.1964"W	3113.21	52.819	2.03	0.34	2.99
7836.00	38.900	58.010	6783.72	477.84	1912.73	2526.58	1712078.04	409727.70	39°37'13.5954"N	80°31'19.6109"W	3168.94	52.873	4.87	-3.70	4.88
7922.00	38.360	57.800	6850.90	490.56	1941.26	2572.06	1712123.52	409756.22	39°37'13.8824"N	80°31'19.0338"W	3222.42	52.956	0.65	-0.63	-0.24
8008.00	36.880	55.510	6919.02	501.90	1970.10	2615.92	1712167.37	409785.05	39°37'14.1723"N	80°31'18.4776"W	3274.80	53.016	2.37	-1.72	-2.66
8095.00	38.080	55.970	6988.06	512.49	1999.89	2659.67	1712211.12	409814.85	39°37'14.4717"N	80°31'17.9229"W	3327.68	53.059	1.42	1.38	0.53
8140.00	37.030	55.570	7023.73	517.99	2015.32	2682.35	1712233.80	409830.28	39°37'14.6268"N	80°31'17.6354"W	3355.07	53.081	2.40	-2.33	-0.89
8235.00	41.500	43.800	7097.37	523.42	2054.29	2727.82	1712279.26	409869.24	39°37'15.0169"N	80°31'17.0600"W	3414.83	53.017	9.13	4.71	-12.39
8330.00	41.240	42.540	7168.67	522.30	2100.08	2770.77	1712322.21	409915.03	39°37'15.4743"N	80°31'16.5178"W	3476.71	52.840	0.92	-0.27	-1.33
8425.00	40.850	56.820	7240.47	528.19	2140.24	2818.05	1712369.49	409955.19	39°37'15.8765"N	80°31'15.9195"W	3538.65	52.784	9.86	-0.41	15.03
8520.00	41.870	73.790	7312.00	550.71	2166.18	2874.68	1712426.12	409981.12	39°37'16.1392"N	80°31'15.1997"W	3599.46	53.001	11.83	1.07	17.86
8615.00	41.840	85.810	7382.88	587.46	2177.36	2936.83	1712488.26	409992.31	39°37'16.2567"N	80°31'14.4072"W	3655.93	53.447	8.43	-0.03	12.65
8711.00	48.770	93.590	7450.41	636.23	2177.44	3004.92	1712556.35	409992.39	39°37'16.2651"N	80°31'13.5370"W	3710.90	54.072	9.23	7.22	8.10
8806.00	49.830	98.530	7512.38	692.85	2169.82	3076.50	1712627.92	409984.76	39°37'16.1978"N	80°31'12.6213"W	3764.70	54.805	4.10	1.12	5.20
8901.00	54.460	108.070	7570.75	757.17	2152.41	3149.28	1712700.70	409967.36	39°37'16.0340"N	80°31'11.6888"W	3814.56	55.649	9.30	4.87	10.04

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WELLPATH DATA (281 stations)															
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
8996.00	58.190	119.250	7623.53	831.06	2120.62	3221.43	1712772.84	409935.57	39°37'15.7278"N	80°31'10.7622"W	3856.76	56.644	10.54	3.93	11.77
9091.00	64.380	129.250	7669.24	912.97	2073.66	3290.02	1712841.42	409888.61	39°37'15.2715"N	80°31'9.8790"W	3888.99	57.777	11.29	6.52	10.53
9185.00	69.470	136.900	7706.12	999.32	2014.59	3353.03	1712904.43	409829.55	39°37'14.6948"N	80°31'9.0653"W	3911.70	59.001	9.24	5.41	8.14
9280.00	76.200	140.810	7734.15	1089.71	1946.26	3412.66	1712964.06	409761.22	39°37'14.0262"N	80°31'8.2934"W	3928.64	60.304	8.10	7.08	4.12
9375.00	81.720	144.510	7752.34	1181.88	1872.15	3469.16	1713020.56	409687.12	39°37'13.3002"N	80°31'7.5607"W	3942.08	61.646	6.95	5.81	3.89
9470.00	87.750	147.430	7761.05	1274.44	1793.79	3522.06	1713073.46	409608.76	39°37'12.5317"N	80°31'6.8734"W	3952.54	63.010	7.05	6.35	3.07
9565.00	89.480	147.710	7763.35	1366.83	1713.63	3572.99	1713124.38	409528.61	39°37'11.7452"N	80°31'6.2110"W	3962.68	64.377	1.84	1.82	0.29
9659.00	88.060	146.510	7765.37	1458.43	1634.72	3624.02	1713175.41	409449.70	39°37'10.9711"N	80°31'5.5475"W	3975.66	65.721	1.98	-1.51	-1.28
9754.00	89.690	149.000	7767.23	1550.76	1554.40	3674.69	1713226.08	409369.38	39°37'10.1830"N	80°31'4.8884"W	3989.93	67.072	3.13	1.72	2.62
9849.00	88.740	147.300	7768.53	1642.94	1473.71	3724.82	1713276.20	409288.70	39°37'9.3912"N	80°31'4.2363"W	4005.76	68.414	2.05	-1.00	-1.79
9944.00	88.610	147.610	7770.73	1735.38	1393.65	3775.91	1713327.29	409208.64	39°37'8.6057"N	80°31'3.5718"W	4024.89	69.741	0.35	-0.14	0.33
10039.00	91.170	147.370	7770.91	1827.83	1313.54	3826.96	1713378.34	409128.54	39°37'7.8198"N	80°31'2.9079"W	4046.11	71.056	2.71	2.69	-0.25
10134.00	91.260	152.420	7768.90	1919.24	1231.40	3874.59	1713425.96	409046.41	39°37'7.0134"N	80°31'2.2875"W	4065.56	72.369	5.32	0.09	5.32
10229.00	89.660	146.920	7768.13	2010.76	1149.44	3922.54	1713473.91	408964.45	39°37'6.2088"N	80°31'1.6629"W	4087.48	73.668	6.03	-1.68	-5.79
10324.00	90.340	150.290	7768.13	2102.76	1068.36	3972.02	1713523.39	408883.38	39°37'5.4130"N	80°31'1.0189"W	4113.19	74.945	3.62	0.72	3.55
10514.00	88.710	147.540	7769.71	2286.50	905.67	4070.10	1713621.46	408720.70	39°37'3.8162"N	80°30'59.7421"W	4169.65	77.455	1.68	-0.86	-1.45
10609.00	90.710	155.120	7770.19	2377.21	822.39	4115.64	1713667.00	408637.42	39°37'2.9982"N	80°30'59.1482"W	4197.00	78.700	8.25	2.11	7.98
10704.00	89.820	148.780	7769.75	2467.64	738.59	4160.29	1713711.65	408553.63	39°37'2.1751"N	80°30'58.5656"W	4225.35	79.933	6.74	-0.94	-6.67
10798.00	90.770	148.660	7769.27	2558.63	658.26	4209.10	1713760.45	408473.30	39°37'1.3866"N	80°30'57.9303"W	4260.26	81.112	1.02	1.01	-0.13
10893.00	91.020	147.780	7767.78	2650.79	577.51	4259.12	1713810.47	408392.55	39°37'0.5943"N	80°30'57.2795"W	4298.10	82.278	0.96	0.26	-0.93
10988.00	90.650	148.770	7766.40	2742.93	496.71	4309.07	1713860.42	408311.76	39°36'59.8014"N	80°30'56.6296"W	4337.61	83.424	1.11	-0.39	1.04
11083.00	90.740	150.550	7765.25	2834.48	414.73	4357.05	1713908.40	408229.79	39°36'58.9966"N	80°30'56.0047"W	4376.75	84.563	1.88	0.09	1.87
11177.00	90.150	146.760	7764.52	2925.49	334.47	4405.94	1713957.28	408149.53	39°36'58.2088"N	80°30'55.3684"W	4418.62	85.659	4.08	-0.63	-4.03
11272.00	92.090	151.920	7762.66	3017.14	252.80	4454.36	1714005.70	408067.86	39°36'57.4071"N	80°30'54.7380"W	4461.53	86.752	5.80	2.04	5.43
11367.00	89.660	146.910	7761.21	3108.76	171.06	4502.67	1714054.01	407986.13	39°36'56.6047"N	80°30'54.1089"W	4505.92	87.824	5.86	-2.56	-5.27
11462.00	91.290	147.570	7760.42	3201.30	91.17	4554.08	1714105.41	407906.25	39°36'55.8210"N	80°30'53.4406"W	4554.99	88.853	1.85	1.72	0.69
11557.00	91.850	147.710	7757.82	3293.67	10.96	4604.90	1714156.23	407826.04	39°36'55.0339"N	80°30'52.7795"W	4604.92	89.864	0.61	0.59	0.15
11652.00	91.230	147.820	7755.26	3385.98	-69.37	4655.56	1714206.88	407745.71	39°36'54.2457"N	80°30'52.1207"W	4656.08	90.854	0.66	-0.65	0.12
11747.00	90.030	149.780	7754.22	3477.90	-150.62	4704.76	1714256.09	407664.47	39°36'53.4483"N	80°30'51.4803"W	4707.18	91.834	2.42	-1.26	2.06
11841.00	89.910	149.760	7754.27	3568.45	-231.84	4752.09	1714303.41	407583.26	39°36'52.6509"N	80°30'50.8639"W	4757.74	92.793	0.13	-0.13	-0.02

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11936.00	90.030	149.260	7754.32	3660.08	-313.70	4800.29	1714351.61	407501.40	39°36'51.8473"N	80°30'50.2362"W	4810.53	93.739	0.54	0.13	-0.53
12030.00	89.970	149.270	7754.32	3750.85	-394.50	4848.33	1714399.65	407420.61	39°36'51.0542"N	80°30'49.6108"W	4864.36	94.652	0.06	-0.06	0.01
12125.00	90.920	150.680	7753.58	3842.27	-476.74	4895.87	1714447.18	407338.37	39°36'50.2467"N	80°30'48.9916"W	4919.02	95.562	1.79	1.00	1.48
12220.00	90.030	147.220	7752.79	3934.12	-558.11	4944.86	1714496.16	407257.00	39°36'49.4480"N	80°30'48.3539"W	4976.25	96.440	3.76	-0.94	-3.64
12315.00	91.080	150.840	7751.87	4025.93	-639.55	4993.73	1714545.04	407175.57	39°36'48.6486"N	80°30'47.7177"W	5034.52	97.298	3.97	1.11	3.81
12410.00	90.830	148.140	7750.29	4117.55	-721.38	5041.95	1714593.25	407093.74	39°36'47.8453"N	80°30'47.0899"W	5093.29	98.142	2.85	-0.26	-2.84
12505.00	90.990	148.500	7748.78	4209.67	-802.21	5091.84	1714643.13	407012.92	39°36'47.0520"N	80°30'46.4408"W	5154.64	98.953	0.41	0.17	0.38
12600.00	92.400	150.320	7745.97	4301.29	-883.95	5140.16	1714691.45	406931.18	39°36'46.2496"N	80°30'45.8117"W	5215.61	99.758	2.42	1.48	1.92
12695.00	89.200	146.780	7744.64	4393.29	-964.96	5189.70	1714741.00	406850.18	39°36'45.4546"N	80°30'45.1670"W	5278.65	100.533	5.02	-3.37	-3.73
12790.00	93.200	152.030	7742.65	4484.90	-1046.67	5238.02	1714789.31	406768.47	39°36'44.6524"N	80°30'44.5379"W	5341.57	101.300	6.95	4.21	5.53
12885.00	91.390	146.500	7738.84	4576.52	-1128.23	5286.52	1714837.80	406686.92	39°36'43.8519"N	80°30'43.9065"W	5405.57	102.047	6.12	-1.91	-5.82
12980.00	91.290	147.740	7736.62	4669.09	-1207.99	5338.07	1714889.36	406607.17	39°36'43.0694"N	80°30'43.2363"W	5473.05	102.751	1.31	-0.11	1.31
13075.00	90.740	149.110	7734.94	4761.16	-1288.91	5387.81	1714939.09	406526.25	39°36'42.2752"N	80°30'42.5893"W	5539.83	103.454	1.55	-0.58	1.44
13171.00	90.180	148.820	7734.17	4853.98	-1371.16	5437.30	1714988.58	406444.00	39°36'41.4678"N	80°30'41.9451"W	5607.52	104.154	0.66	-0.58	-0.30
13265.00	90.310	149.290	7733.77	4944.84	-1451.78	5485.64	1715036.91	406363.39	39°36'40.6765"N	80°30'41.3159"W	5674.49	104.824	0.52	0.14	0.50
13360.00	89.690	149.190	7733.77	5036.59	-1533.42	5534.22	1715085.49	406281.76	39°36'39.8752"N	80°30'40.6834"W	5742.73	105.487	0.66	-0.65	-0.11
13455.00	90.890	147.730	7733.29	5128.65	-1614.38	5583.91	1715135.18	406200.80	39°36'39.0806"N	80°30'40.0369"W	5812.60	106.125	1.99	1.26	-1.54
13550.00	90.740	149.760	7731.93	5220.60	-1695.58	5633.20	1715184.46	406119.61	39°36'38.2836"N	80°30'39.3956"W	5882.85	106.752	2.14	-0.16	2.14
13645.00	89.540	148.830	7731.70	5312.31	-1777.26	5681.70	1715232.97	406037.93	39°36'37.4818"N	80°30'38.7641"W	5953.18	107.370	1.60	-1.26	-0.98
13740.00	90.250	148.800	7731.88	5404.24	-1858.53	5730.90	1715282.15	405956.67	39°36'36.6841"N	80°30'38.1240"W	6024.72	107.968	0.75	0.75	-0.03
13835.00	91.350	147.890	7730.55	5496.35	-1939.38	5780.75	1715332.00	405875.82	39°36'35.8906"N	80°30'37.4755"W	6097.40	108.546	1.50	1.16	-0.96
13930.00	92.030	154.100	7727.75	5587.21	-2022.39	5826.77	1715378.02	405792.81	39°36'35.0754"N	80°30'36.8755"W	6167.76	109.141	6.57	0.72	6.54
14025.00	90.740	147.630	7725.45	5678.15	-2105.30	5872.98	1715424.23	405709.91	39°36'34.2611"N	80°30'36.2732"W	6238.93	109.721	6.94	-1.36	-6.81
14120.00	91.260	147.730	7723.79	5770.51	-2185.57	5923.77	1715475.01	405629.64	39°36'33.4735"N	80°30'35.6128"W	6314.09	110.252	0.56	0.55	0.11
14215.00	89.420	149.630	7723.22	5862.49	-2266.72	5973.14	1715524.39	405548.50	39°36'32.6771"N	80°30'34.9704"W	6388.78	110.781	2.78	-1.94	2.00
14310.00	91.260	151.070	7722.66	5953.73	-2349.27	6020.14	1715571.38	405465.95	39°36'31.8664"N	80°30'34.3581"W	6462.28	111.317	2.46	1.94	1.52
14405.00	90.740	145.670	7721.00	6045.79	-2430.12	6069.93	1715621.17	405385.11	39°36'31.0730"N	80°30'33.7103"W	6538.31	111.819	5.71	-0.55	-5.68
14499.00	92.030	150.190	7718.73	6137.05	-2509.73	6119.81	1715671.05	405305.51	39°36'30.2918"N	80°30'33.0616"W	6614.44	112.298	5.00	1.37	4.81
14595.00	91.690	148.850	7715.61	6229.59	-2592.41	6168.48	1715719.71	405222.83	39°36'29.4800"N	80°30'32.4280"W	6691.10	112.795	1.44	-0.35	-1.40
14690.00	90.990	149.590	7713.39	6321.32	-2674.01	6217.08	1715768.31	405141.24	39°36'28.6791"N	80°30'31.7954"W	6767.75	113.273	1.07	-0.74	0.78

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REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT PRODUCTION COMPANY	Well	Michael Kuhn 16H (L-007924)
Field	Wetzel	API/Legal	
Facility	Big 467 Pad	Wellbore	Michael Kuhn 16H AWB
Slot	Slot 16H		

WELLPATH DATA (281 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
14785.00	92.340	149.800	7710.63	6412.82	-2755.99	6265.00	1715816.22	405059.26	39°36'27.8742"N	80°30'31.1714"W	6844.39	113.745	1.44	1.42	0.22
14880.00	91.450	149.560	7707.49	6504.33	-2837.95	6312.93	1715864.15	404977.30	39°36'27.0695"N	80°30'30.5473"W	6921.49	114.206	0.97	-0.94	-0.25
14975.00	91.290	148.930	7705.22	6596.04	-2919.57	6361.50	1715912.72	404895.69	39°36'26.2684"N	80°30'29.9152"W	6999.46	114.652	0.68	-0.17	-0.66
15069.00	90.460	149.070	7703.78	6686.91	-3000.13	6409.90	1715961.12	404815.13	39°36'25.4775"N	80°30'29.2852"W	7077.26	115.082	0.90	-0.88	0.15
15164.00	91.350	148.440	7702.28	6778.85	-3081.34	6459.17	1716010.39	404733.93	39°36'24.6805"N	80°30'28.6441"W	7156.51	115.503	1.15	0.94	-0.66
15259.00	91.970	149.260	7699.53	6870.72	-3162.61	6508.29	1716059.51	404652.67	39°36'23.8828"N	80°30'28.0049"W	7236.02	115.917	1.08	0.65	0.86
15354.00	91.050	148.830	7697.03	6962.52	-3244.05	6557.14	1716108.35	404571.23	39°36'23.0833"N	80°30'27.3692"W	7315.73	116.323	1.07	-0.97	-0.45
15449.00	90.680	149.890	7695.59	7054.20	-3325.77	6605.55	1716156.76	404489.51	39°36'22.2811"N	80°30'26.7390"W	7395.54	116.724	1.18	-0.39	1.12
15544.00	91.020	148.830	7694.18	7145.88	-3407.50	6653.96	1716205.16	404407.79	39°36'21.4788"N	80°30'26.1089"W	7475.71	117.117	1.17	0.36	-1.12
15639.00	91.140	149.000	7692.39	7237.75	-3488.84	6703.00	1716254.20	404326.45	39°36'20.6803"N	80°30'25.4707"W	7556.60	117.497	0.22	0.13	0.18
15734.00	91.350	148.980	7690.33	7329.58	-3570.25	6751.93	1716303.13	404245.05	39°36'19.8812"N	80°30'24.8339"W	7637.75	117.869	0.22	0.22	-0.02
15829.00	90.180	148.720	7689.06	7421.48	-3651.54	6801.07	1716352.26	404163.76	39°36'19.0833"N	80°30'24.1946"W	7719.34	118.232	1.26	-1.23	-0.27
15925.00	90.310	148.450	7688.65	7514.47	-3733.47	6851.11	1716402.30	404081.84	39°36'18.2792"N	80°30'23.5436"W	7802.34	118.588	0.31	0.14	-0.28
16020.00	90.620	148.000	7687.88	7606.64	-3814.23	6901.13	1716452.32	404001.09	39°36'17.4866"N	80°30'22.8930"W	7885.04	118.929	0.58	0.33	-0.47
16115.00	91.880	148.500	7685.81	7698.77	-3894.99	6951.11	1716502.29	403920.33	39°36'16.6940"N	80°30'22.2429"W	7967.99	119.264	1.43	1.33	0.53
16210.00	89.820	149.600	7684.40	7790.58	-3976.45	6999.96	1716551.14	403838.88	39°36'15.8944"N	80°30'21.6072"W	8050.56	119.599	2.46	-2.17	1.16
16305.00	89.660	148.310	7684.83	7882.45	-4057.84	7048.95	1716600.13	403757.49	39°36'15.0955"N	80°30'20.9697"W	8133.49	119.928	1.37	-0.17	-1.36
16400.00	91.630	150.260	7683.76	7974.16	-4139.50	7097.46	1716648.64	403675.84	39°36'14.2938"N	80°30'20.3383"W	8216.41	120.252	2.92	2.07	2.05
16495.00	89.600	150.070	7682.74	8065.48	-4221.90	7144.72	1716695.89	403593.44	39°36'13.4848"N	80°30'19.7228"W	8298.88	120.579	2.15	-2.14	-0.20
16590.00	89.660	148.700	7683.35	8157.16	-4303.65	7193.10	1716744.27	403511.69	39°36'12.6822"N	80°30'19.0931"W	8382.25	120.892	1.44	0.06	-1.44
16685.00	89.880	148.420	7683.73	8249.19	-4384.70	7242.65	1716793.82	403430.65	39°36'11.8866"N	80°30'18.4484"W	8466.50	121.191	0.37	0.23	-0.29
16780.00	90.680	147.690	7683.27	8341.43	-4465.31	7292.91	1716844.08	403350.04	39°36'11.0956"N	80°30'17.7948"W	8551.35	121.478	1.14	0.84	-0.77
16875.00	91.200	149.850	7681.71	8433.35	-4546.53	7342.16	1716893.32	403268.83	39°36'10.2984"N	80°30'17.1541"W	8635.87	121.767	2.34	0.55	2.27
16970.00	88.980	148.100	7681.56	8525.20	-4627.93	7391.12	1716942.28	403187.43	39°36'9.4993"N	80°30'16.5170"W	8720.46	122.053	2.98	-2.34	-1.84
17065.00	91.140	148.800	7681.46	8617.27	-4708.88	7440.82	1716991.98	403106.48	39°36'8.7048"N	80°30'15.8705"W	8805.65	122.327	2.39	2.27	0.74
17160.00	90.890	149.070	7679.78	8709.14	-4790.25	7489.84	1717040.99	403025.13	39°36'7.9061"N	80°30'15.2328"W	8890.68	122.602	0.39	-0.26	0.28
17255.00	90.740	149.710	7678.43	8800.81	-4872.00	7538.20	1717089.35	402943.38	39°36'7.1036"N	80°30'14.6032"W	8975.57	122.875	0.69	-0.16	0.67
17349.00	89.010	149.520	7678.63	8891.42	-4953.09	7585.75	1717136.89	402862.30	39°36'6.3075"N	80°30'13.9843"W	9059.62	123.142	1.85	-1.84	-0.20
17444.00	91.420	147.780	7678.28	8983.41	-5034.21	7635.17	1717186.31	402781.18	39°36'5.5113"N	80°30'13.3414"W	9145.44	123.399	3.13	2.54	-1.83
17539.00	90.740	148.900	7676.49	9075.51	-5115.05	7685.02	1717236.16	402700.34	39°36'4.7178"N	80°30'12.6930"W	9231.65	123.647	1.38	-0.72	1.18

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Michael Kuhn 16H (L-007924)
Field	Wetzel	API/Legal	
Facility	Big 467 Pad	Wellbore	Michael Kuhn 16H AWB
Slot	Slot 16H		

WELLPATH DATA (281 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
17634.00	90.220	150.190	7675.69	9167.12	-5196.94	7733.17	1717284.31	402618.46	39°36'3.9138"N	80°30'12.0662"W	9317.19	123.902	1.46	-0.55	1.36
17730.00	89.110	148.380	7676.25	9259.80	-5279.47	7782.20	1717333.33	402535.94	39°36'3.1037"N	80°30'11.4281"W	9404.01	124.153	2.21	-1.16	-1.89
17824.00	89.940	148.340	7677.03	9350.94	-5359.49	7831.51	1717382.64	402455.92	39°36'2.3183"N	80°30'10.7868"W	9489.82	124.386	0.88	0.88	-0.04
17919.00	89.750	147.750	7677.29	9443.18	-5440.09	7881.79	1717432.91	402375.32	39°36'1.5272"N	80°30'10.1330"W	9576.91	124.614	0.65	-0.20	-0.62
18014.00	89.720	148.920	7677.73	9535.30	-5520.95	7931.66	1717482.78	402294.47	39°36'0.7337"N	80°30'9.4845"W	9663.96	124.840	1.23	-0.03	1.23
18109.00	89.230	148.270	7678.60	9627.31	-5602.03	7981.16	1717532.28	402213.39	39°35'59.9379"N	80°30'8.8406"W	9750.98	125.065	0.86	-0.52	-0.68
18204.00	89.410	148.300	7679.73	9719.45	-5682.84	8031.09	1717582.21	402132.59	39°35'59.1448"N	80°30'8.1911"W	9838.35	125.283	0.19	0.19	0.03
18300.00	89.480	149.190	7680.66	9812.37	-5764.90	8080.90	1717632.02	402050.53	39°35'58.3393"N	80°30'7.5432"W	9926.48	125.504	0.93	0.07	0.93
18395.00	89.080	148.680	7681.85	9904.24	-5846.27	8129.92	1717681.03	401969.17	39°35'57.5406"N	80°30'6.9055"W	10013.71	125.720	0.68	-0.42	-0.54
18490.00	90.030	148.170	7682.59	9996.32	-5927.20	8179.66	1717730.77	401888.24	39°35'56.7462"N	80°30'6.2585"W	10101.41	125.928	1.13	1.00	-0.54
18585.00	89.050	148.960	7683.35	10088.35	-6008.25	8229.20	1717780.31	401807.20	39°35'55.9507"N	80°30'5.6141"W	10189.15	126.134	1.32	-1.03	0.83
18679.00	87.690	149.080	7686.02	10179.18	-6088.81	8277.57	1717828.67	401726.64	39°35'55.1599"N	80°30'4.9848"W	10275.78	126.337	1.45	-1.45	0.13
18775.00	88.680	148.750	7689.06	10271.98	-6170.98	8327.11	1717878.21	401644.48	39°35'54.3533"N	80°30'4.3403"W	10364.44	126.541	1.09	1.03	-0.34
18869.00	88.520	148.330	7691.36	10363.03	-6251.14	8376.15	1717927.25	401564.32	39°35'53.5665"N	80°30'3.7024"W	10451.63	126.734	0.48	-0.17	-0.45
18964.00	89.080	148.390	7693.35	10455.12	-6332.00	8425.97	1717977.07	401483.47	39°35'52.7729"N	80°30'3.0545"W	10539.98	126.924	0.59	0.59	0.06
19059.00	89.630	149.940	7694.42	10546.89	-6413.56	8474.66	1718025.75	401401.91	39°35'51.9722"N	80°30'2.4209"W	10627.97	127.118	1.73	0.58	1.63
19154.00	88.920	148.270	7695.62	10638.68	-6495.07	8523.44	1718074.53	401320.40	39°35'51.1720"N	80°30'1.7863"W	10716.11	127.308	1.91	-0.75	-1.76
19249.00	89.140	148.540	7697.23	10730.76	-6575.98	8573.20	1718124.29	401239.50	39°35'50.3779"N	80°30'1.1391"W	10804.78	127.490	0.37	0.23	0.28
19343.00	89.720	149.070	7698.16	10821.72	-6656.39	8621.89	1718172.97	401159.10	39°35'49.5887"N	80°30'0.5058"W	10892.40	127.669	0.84	0.62	0.56
19438.00	89.380	146.550	7698.91	10914.04	-6736.77	8672.49	1718223.57	401078.72	39°35'48.7998"N	80°29'59.8479"W	10981.63	127.840	2.68	-0.36	-2.65
19533.00	90.340	148.570	7699.14	11006.47	-6816.94	8723.45	1718274.52	400998.55	39°35'48.0131"N	80°29'59.1856"W	11071.10	128.006	2.35	1.01	2.13
19629.00	89.260	148.750	7699.48	11099.42	-6898.94	8773.38	1718324.45	400916.57	39°35'47.2083"N	80°29'58.5362"W	11160.98	128.180	1.14	-1.12	0.19
19724.00	88.950	151.750	7700.96	11190.70	-6981.39	8820.51	1718371.58	400834.11	39°35'46.3986"N	80°29'57.9225"W	11249.05	128.361	3.17	-0.33	3.16
19819.00	87.110	151.110	7704.23	11281.38	-7064.77	8865.91	1718416.98	400750.74	39°35'45.5796"N	80°29'57.3307"W	11336.46	128.549	2.05	-1.94	-0.67
19914.00	87.690	150.560	7708.54	11372.31	-7147.64	8912.16	1718463.22	400667.87	39°35'44.7657"N	80°29'56.7281"W	11424.33	128.730	0.84	0.61	-0.58
20009.00	87.810	150.630	7712.27	11463.37	-7230.34	8958.76	1718509.82	400585.18	39°35'43.9536"N	80°29'56.1211"W	11512.48	128.906	0.15	0.13	0.07
20105.00	87.410	150.450	7716.27	11555.42	-7313.85	9005.94	1718556.99	400501.67	39°35'43.1334"N	80°29'55.5066"W	11601.70	129.081	0.46	-0.42	-0.19
20199.00	88.180	150.230	7719.89	11645.64	-7395.48	9052.42	1718603.47	400420.06	39°35'42.3319"N	80°29'54.9013"W	11689.28	129.248	0.85	0.82	-0.23
20294.00	88.490	151.370	7722.65	11736.64	-7478.37	9098.74	1718649.80	400337.17	39°35'41.5178"N	80°29'54.2978"W	11777.65	129.417	1.24	0.33	1.20
20389.00	87.940	150.960	7725.61	11827.46	-7561.55	9144.54	1718695.59	400253.99	39°35'40.7008"N	80°29'53.7011"W	11865.90	129.587	0.72	-0.58	-0.43

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Slot	Slot 16H		

WELLPATH DATA (281 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
20483.00	88.240	151.160	7728.74	11917.37	-7643.76	9190.00	1718741.05	400171.78	39°35'39.8933"N	80°29'53.1087"W	11953.38	129.752	0.38	0.32	0.21
20578.00	87.970	151.180	7731.88	12008.19	-7726.94	9235.78	1718786.83	400088.61	39°35'39.0763"N	80°29'52.5121"W	12041.82	129.917	0.28	-0.28	0.02
20673.00	87.540	149.560	7735.60	12099.36	-7809.46	9282.71	1718833.76	400006.10	39°35'38.2660"N	80°29'51.9009"W	12130.80	130.074	1.76	-0.45	-1.71
20768.00	87.380	149.990	7739.81	12190.78	-7891.46	9330.49	1718881.53	399924.10	39°35'37.4608"N	80°29'51.2790"W	12220.20	130.224	0.48	-0.17	0.45
20863.00	87.010	148.600	7744.46	12282.39	-7973.04	9378.94	1718929.97	399842.53	39°35'36.6599"N	80°29'50.6486"W	12309.91	130.368	1.51	-0.39	-1.46
20958.00	87.780	149.880	7748.78	12374.04	-8054.59	9427.47	1718978.51	399760.98	39°35'35.8593"N	80°29'50.0171"W	12399.75	130.510	1.57	0.81	1.35
21053.00	88.580	150.720	7751.80	12465.26	-8137.07	9474.52	1719025.55	399678.51	39°35'35.0494"N	80°29'49.4045"W	12489.13	130.657	1.22	0.84	0.88
21148.00	88.030	148.500	7754.61	12556.80	-8218.97	9522.55	1719073.58	399596.61	39°35'34.2452"N	80°29'48.7794"W	12578.97	130.798	2.41	-0.58	-2.34
21243.00	87.110	148.830	7758.64	12648.71	-8300.04	9571.91	1719122.94	399515.55	39°35'33.4495"N	80°29'48.1374"W	12669.34	130.929	1.03	-0.97	0.35
21338.00	87.350	148.590	7763.23	12740.57	-8381.13	9621.19	1719172.21	399434.46	39°35'32.6535"N	80°29'47.4965"W	12759.73	131.059	0.36	0.25	-0.25
21433.00	86.770	148.670	7768.10	12832.45	-8462.14	9670.58	1719221.60	399353.46	39°35'31.8584"N	80°29'46.8542"W	12850.21	131.187	0.62	-0.61	0.08
21529.00	86.800	149.080	7773.48	12925.17	-8544.19	9720.13	1719271.14	399271.42	39°35'31.0529"N	80°29'46.2097"W	12941.56	131.316	0.43	0.03	0.43
21623.00	86.980	148.890	7778.58	13015.92	-8624.63	9768.49	1719319.50	399190.98	39°35'30.2633"N	80°29'45.5806"W	13031.03	131.441	0.28	0.19	-0.20
21718.00	87.010	149.360	7783.56	13107.59	-8706.05	9817.17	1719368.18	399109.56	39°35'29.4639"N	80°29'44.9472"W	13121.44	131.567	0.50	0.03	0.49
21813.00	86.610	148.370	7788.85	13199.35	-8787.24	9866.22	1719417.22	399028.38	39°35'28.6669"N	80°29'44.3093"W	13212.04	131.690	1.12	-0.42	-1.04
21908.00	85.840	148.580	7795.10	13291.22	-8868.05	9915.78	1719466.78	398947.58	39°35'27.8738"N	80°29'43.6648"W	13302.82	131.807	0.84	-0.81	0.22
22003.00	85.900	147.960	7801.95	13383.13	-8948.64	9965.61	1719516.61	398866.99	39°35'27.0828"N	80°29'43.0169"W	13393.71	131.922	0.65	0.06	-0.65
22098.00	86.180	148.470	7808.51	13475.08	-9029.20	10015.53	1719566.53	398786.44	39°35'26.2921"N	80°29'42.3679"W	13484.71	132.035	0.61	0.29	0.54
22193.00	85.690	148.180	7815.24	13566.98	-9109.84	10065.29	1719616.29	398705.80	39°35'25.5006"N	80°29'41.7210"W	13575.69	132.147	0.60	-0.52	-0.31
22288.00	85.350	148.760	7822.66	13658.77	-9190.57	10114.82	1719665.81	398625.08	39°35'24.7082"N	80°29'41.0769"W	13666.61	132.259	0.71	-0.36	0.61
22383.00	85.530	148.300	7830.21	13750.52	-9271.34	10164.26	1719715.25	398544.31	39°35'23.9154"N	80°29'40.4341"W	13757.54	132.370	0.52	0.19	-0.48
22478.00	84.050	149.340	7838.84	13842.06	-9352.27	10213.24	1719764.22	398463.38	39°35'23.1209"N	80°29'39.7970"W	13848.30	132.480	1.90	-1.56	1.09
22573.00	84.480	148.460	7848.33	13933.49	-9433.21	10262.06	1719813.04	398382.45	39°35'22.3264"N	80°29'39.1620"W	13938.99	132.590	1.03	0.45	-0.93
22668.00	84.140	148.950	7857.75	14025.01	-9513.99	10311.17	1719862.15	398301.67	39°35'21.5335"N	80°29'38.5234"W	14029.83	132.697	0.63	-0.36	0.52
22763.00	84.320	148.800	7867.30	14116.44	-9594.90	10360.02	1719911.00	398220.77	39°35'20.7392"N	80°29'37.8879"W	14120.63	132.804	0.25	0.19	-0.16
22858.00	83.650	148.560	7877.26	14207.92	-9675.61	10409.13	1719960.11	398140.06	39°35'19.9469"N	80°29'37.2493"W	14211.53	132.908	0.75	-0.71	-0.25
22953.00	83.430	148.380	7887.95	14299.40	-9756.07	10458.50	1720009.47	398059.61	39°35'19.1572"N	80°29'36.6074"W	14302.49	133.010	0.30	-0.23	-0.19
23048.00	84.390	149.270	7898.03	14390.80	-9836.89	10507.40	1720058.36	397978.79	39°35'18.3638"N	80°29'35.9715"W	14393.40	133.112	1.37	1.01	0.94
23144.00	85.690	147.490	7906.33	14483.52	-9918.33	10557.54	1720108.50	397897.36	39°35'17.5645"N	80°29'35.3196"W	14485.68	133.212	2.29	1.35	-1.85
23239.00	83.710	147.260	7915.10	14575.62	-9997.99	10608.53	1720159.49	397817.70	39°35'16.7828"N	80°29'34.6570"W	14577.41	133.303	2.10	-2.08	-0.24

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Actual Wellpath Report

Michael Kuhn 16H AWP Proj: 24158'
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REFERENCE WELLPATH IDENTIFICATION				
Operator	EQT PRODUCTION COMPANY		Well	Michael Kuhn 16H (L-007924)
Field	Wetzel		API/Legal	
Facility	Big 467 Pad		Wellbore	Michael Kuhn 16H AWB
Slot	Slot 16H			

WELLPATH DATA (281 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
23334.00	84.760	148.220	7924.64	14667.51	-10077.92	10658.98	1720209.94	397737.78	39°35'15.9984"N	80°29'34.0014"W	14668.96	133.395	1.49	1.11	1.01
23429.00	85.780	149.090	7932.48	14759.19	-10158.78	10708.23	1720259.19	397656.92	39°35'15.2047"N	80°29'33.3610"W	14760.32	133.492	1.41	1.07	0.92
23524.00	84.850	148.110	7940.24	14850.89	-10239.59	10757.56	1720308.51	397576.12	39°35'14.4114"N	80°29'32.7195"W	14851.75	133.587	1.42	-0.98	-1.03
23620.00	85.720	148.730	7948.13	14943.64	-10321.10	10807.66	1720358.61	397494.61	39°35'13.6114"N	80°29'32.0681"W	14944.25	133.681	1.11	0.91	0.65
23715.00	86.240	149.080	7954.79	15035.30	-10402.25	10856.61	1720407.55	397413.47	39°35'12.8148"N	80°29'31.4316"W	15035.71	133.776	0.66	0.55	0.37
23810.00	87.260	149.130	7960.17	15126.95	-10483.63	10905.31	1720456.25	397332.09	39°35'12.0157"N	80°29'30.7981"W	15127.20	133.871	1.07	1.07	0.05
23905.00	88.150	148.930	7963.98	15218.71	-10565.03	10954.15	1720505.09	397250.70	39°35'11.2167"N	80°29'30.1628"W	15218.84	133.964	0.96	0.94	-0.21
24000.00	88.150	148.760	7967.05	15310.58	-10646.28	11003.28	1720554.21	397169.45	39°35'10.4191"N	80°29'29.5239"W	15310.63	134.055	0.18	0.00	-0.18
24095.00	88.830	148.330	7969.55	15402.59	-10727.29	11052.83	1720603.76	397088.44	39°35'9.6239"N	80°29'28.8796"W	15402.59	134.144	0.85	0.72	-0.45
24133.00	89.480	148.430	7970.11	15439.42	-10759.65	11072.75	1720623.68	397056.09	39°35'9.3063"N	80°29'28.6206"W	15439.42	134.178	1.73	1.71	0.26
24158.00‡	89.480	148.430	7970.34	15463.66	-10780.95	11085.84	1720636.77	397034.79	39°35'9.0972"N	80°29'28.4505"W	15463.66	134.201	0.00	0.00	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Michael Kuhn 16H AWB Ref Wellpath: Michael Kuhn 16H AWP Proj: 24158'

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	1363.00	1335.00	28.00	1362.99	0.00	0.00	1.05	-0.71
13.375in Casing Surface	28.00	1333.00	1305.00	28.00	1332.99	0.00	0.00	0.88	-0.77
12.25in Open Hole	1363.00	2869.00	1506.00	1362.99	2849.76	1.05	-0.71	145.59	160.98
9.625in Casing Intermediate	28.00	2839.00	2811.00	28.00	2820.30	0.00	0.00	140.94	157.75
8.75in Open Hole	2869.00	8167.00	5298.00	2849.76	7045.13	145.59	160.98	2025.06	2695.63
8.5in Open Hole	8167.00	24158.00	15991.00	7045.13	7970.34	2025.06	2695.63	-10780.95	11085.84
5.5in Casing Production	28.00	24128.00	24100.00	28.00	7970.06	0.00	0.00	-10755.39	11070.13

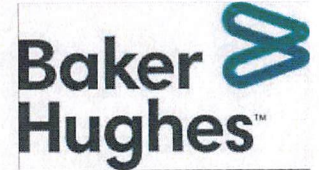
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REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT PRODUCTION COMPANY	Well	Michael Kuhn 16H (L-007924)
Field	Wetzel	API/Legal	
Facility	Big 467 Pad	Wellbore	Michael Kuhn 16H AWB
Slot	Slot 16H		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Michael Kuhn 16H LP Rev-2	7758.00	1790.76	3533.16	1713084.55	409605.73	39°37'12.5030"N	80°31'6.7311"W	point
Michael Kuhn 16H BHL Rev-3	7822.00	-10780.81	11087.27	1720638.20	397034.93	39°35'9.0987"N	80°29'28.4322"W	point

WELLPATH COMPOSITION - Ref Wellbore: Michael Kuhn 16H AWB Ref Wellpath: Michael Kuhn 16H AWP Proj: 24158'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	1264.00	Gyrodata 2015 - CT+WIR+ALC	01 Gyro Data [CT+WIR+ALC] (115'-1264')	Michael Kuhn 16H AWB	1/21/2022
1264.00	8095.00	OWSG MWD rev2 - Standard	02 SDI MWD [OWSG MWD Rev.2-Standard] (1264')(1391'-8095')	Michael Kuhn 16H AWB	1/21/2022
8095.00	24158.00	OWSG MWD rev2 + IFR1 + Multi-Station Correction	03 ATK Curve [OWSG MWD Rev.2+IFR1+MS] <8.5"> (8095')(8140'-24133')	Michael Kuhn 16H AWB	3/17/2022

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Michael Kuhn 16H (L-007924)
Field	Wetzel	API/Legal	
Facility	Big 467 Pad	Wellbore	Michael Kuhn 16H AWB
Slot	Slot 16H		

COMMENTS

Wellpath general comments

API: 47103034170000
 BH Job #: 111204435
 Rig: Patterson 294
 Duration: 03/19/2022 - 03/22/2022

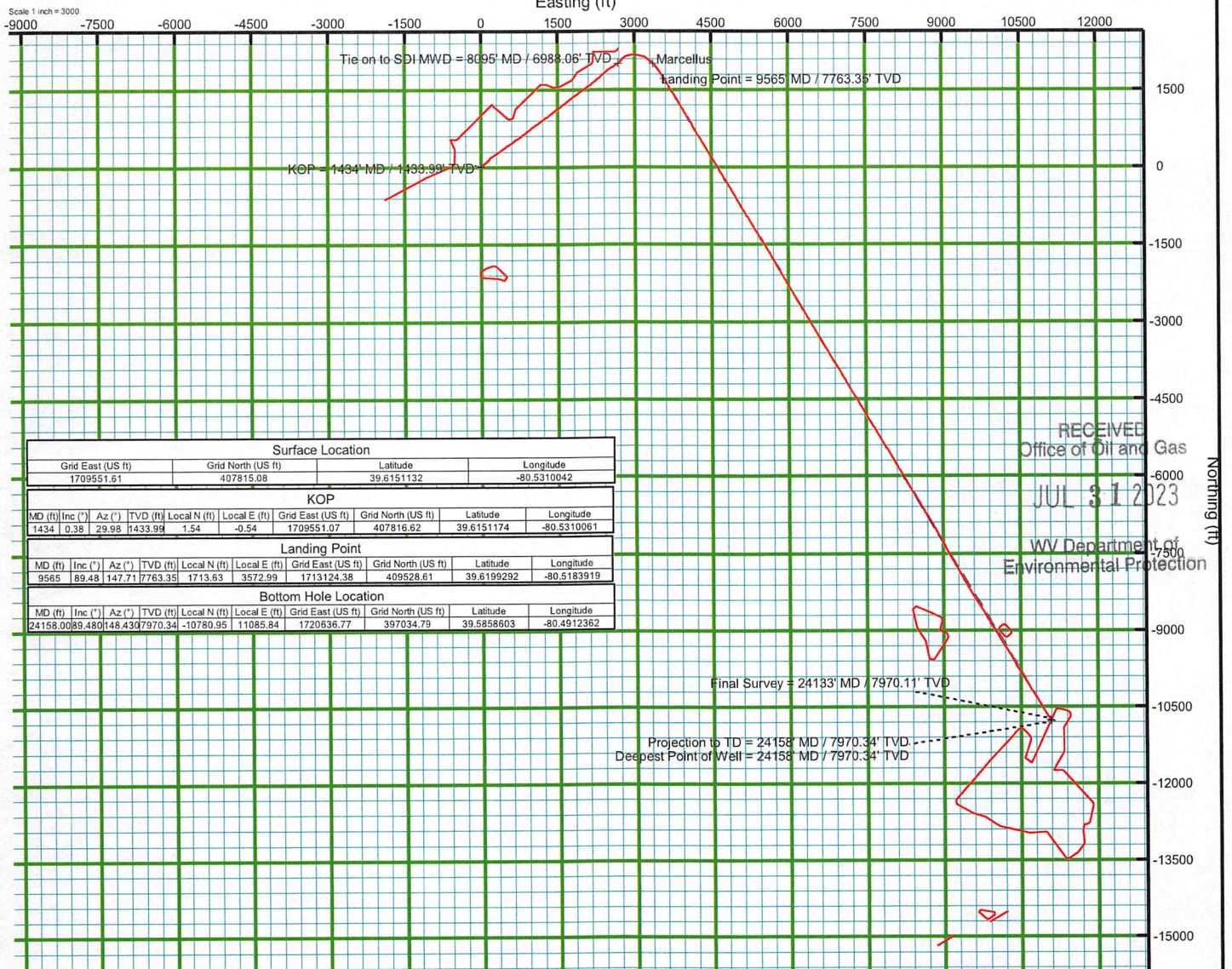
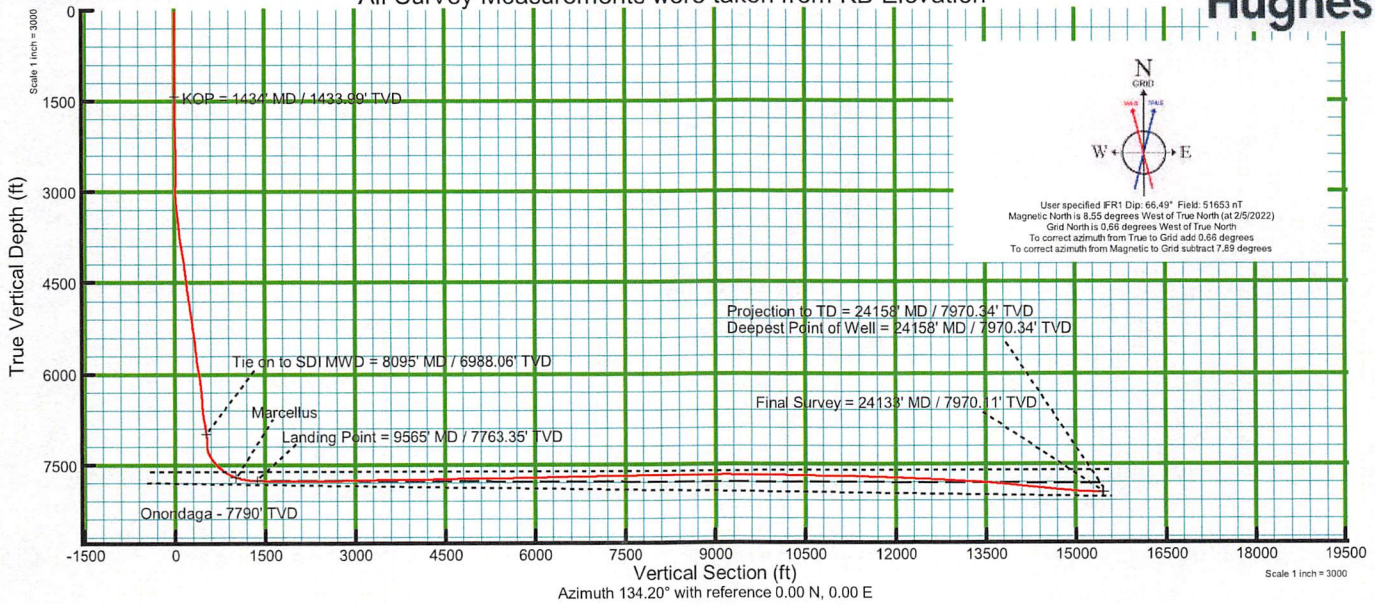
01_Gyro Data [CT+WIR+ALC] (115'-1264')
 02_SDI MWD [OWSG MWD Rev.2-Standard] (1264')(1391'-8095')
 03_ATK Curve [OWSG MWD Rev.2+IFR1+MS] <8.5"> (8095')(8140'-24133')

KOP = 1434' MD / 1433.99' TVD
 Tie on to SDI MWD = 8095' MD / 6988.06' TVD
 Marcellus
 Landing Point = 9565' MD / 7763.35' TVD
 Deepest Point of Well = 24158' MD / 7970.34' TVD
 Final Survey = 24133' MD / 7970.11' TVD
 Projection to TD = 24158' MD / 7970.34' TVD

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KB Elevation=1536 FT
 Ground Elevation=1508 FT
 All Survey Measurements were taken from KB Elevation



Surface Location									
Grid East (US ft)		Grid North (US ft)		Latitude		Longitude			
1709551.61		407815.08		39.6151132		-80.5310042			
KOP									
MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
1434	0.38	29.98	1433.99	1.54	-0.54	1709551.07	407816.62	39.6151174	-80.5310061
Landing Point									
MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
9565	69.48	147.71	7763.35	1713.63	3572.99	1713124.38	409528.61	39.6199292	-80.5183919
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
24158.0089	480	148.430	7970.34	-10780.95	11085.84	1720636.77	397034.79	39.5858603	-80.4912362

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