



EQT (Chevron Data) 02-13-21

Marshall County, WV Chevron

Hines Pad EQT

M08H - Slot M08H

OH

Design: Hines M08H As Drilled

Standard Survey Report

27 July, 2021

05/27/2022



EQT
Survey Report

Database:	EDM_Definitive	Local Co-ordinate Reference:	Well M08H - Slot M08H
Company:	EQT (Chevron Data) 02-13-21	TVD Reference:	GL at 1125.00' & 25' KB @ 1149.998usft
Project:	Marshall County, WV Chevron	MD Reference:	GL at 1125.00' & 25' KB @ 1149.998usft
Site:	Hines Pad EQT	North Reference:	True
Well:	M08H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Hines M08H As Drilled		

Project Marshall County, WV Chevron

Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	West Virginia Northern Zone		

Site Hines Pad EQT

Site Position:		Northing:	514,501.050 usft	Latitude:	39.91
From:	Map	Easting:	1,631,895.930 usft	Longitude:	-80.70
Position Uncertainty:	1.500 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.7653 °

Well M08H - Slot M08H

Well Position	+N/-S	0.000 usft	Northing:	514,406.752 usft	Latitude:	39.9061350
	+E/-W	0.000 usft	Easting:	1,632,083.325 usft	Longitude:	80.6992411°W
Position Uncertainty		0.000 usft	Wellhead Elevation:	0.000 usft	Ground Level:	1,124.998 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2000	12/31/2004	-8.4133	68.2443	53,878.78151910

Design Hines M08H As Drilled

Audit Notes:

Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.000
Vertical Section:		Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
		0.000	0.000	0.000	154.175

Survey Program	Date	From (')	To (usft)	Survey (Wellbore)	Tool Name	Description
	7/27/2021	0.00	376.999	SDI Keeper v1.04 (OH)	SDI Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
		0.00	2,002.996	MWD (OH)	MWD c	MWD - Standard c
		0.00	15,654.969	OWSG MWD rev2 + IFR1 + Multi-Station	MWD+IFR1+MS MagVar 201 OWSG MWD + IFR1 + Multi-Station Correction	

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.000	0.000	0.000	0.000	-1,149.998	0.000	0.000	0.000	0.00000	0.00000	0.00000
25.000	0.000	39.960	25.000	-1,124.998	0.000	0.000	0.000	0.00000	0.00000	0.00000
108.000	0.220	39.960	108.000	-1,041.998	0.122	0.102	-0.065	0.26506	0.26506	0.00000
133.000	0.310	31.260	132.999	-1,016.998	0.217	0.168	-0.122	0.39333	0.36000	-34.80007
158.000	0.240	29.930	157.999	-991.999	0.320	0.229	-0.188	0.28114	-0.28000	-5.32001
183.000	0.290	59.100	182.999	-966.999	0.398	0.310	-0.223	0.56785	0.20000	116.68024
208.000	0.120	48.780	207.998	-941.999	0.448	0.384	-0.236	0.69312	-0.68000	-41.28008



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Well:	M08H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Hines M08H As Drilled		

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
233.000	0.140	36.200	232.998	-916.999	0.489	0.422	-0.257	0.13895	0.08000	-50.32010
257.999	0.190	74.770	257.998	-892.000	0.525	0.480	-0.264	0.47507	0.20000	154.28031
282.999	0.180	74.080	282.998	-867.000	0.547	0.557	-0.249	0.04098	-0.04000	-2.76001
307.999	0.160	66.270	307.998	-842.000	0.571	0.627	-0.241	0.12226	-0.08000	-31.24006
332.999	0.260	80.490	332.998	-817.000	0.595	0.715	-0.224	0.44809	0.40000	56.88012
357.999	0.430	98.620	357.997	-792.001	0.590	0.864	-0.155	0.80001	0.68000	72.52015
509.999	0.910	89.880	509.986	-640.012	0.507	2.635	0.691	0.32196	0.31579	-5.75001
540.999	1.000	123.860	540.982	-609.016	0.357	3.105	1.031	1.82157	0.29032	109.61313
571.999	1.030	118.860	571.977	-578.021	0.072	3.574	1.492	0.30154	0.09677	-16.12906
602.999	1.210	131.280	602.971	-547.027	-0.279	4.064	2.021	0.97164	0.58065	40.06460
633.999	1.440	156.780	633.963	-516.035	-0.853	4.464	2.712	2.02049	0.74194	82.25823
665.999	1.670	167.770	665.951	-484.047	-1.678	4.721	3.567	1.17379	0.71875	34.34382
696.999	1.810	162.720	696.937	-453.061	-2.587	4.962	4.490	0.66938	0.45161	-16.29036
727.999	1.690	182.060	727.922	-422.075	-3.511	5.091	5.378	1.93421	-0.38710	62.38722
758.998	1.620	180.650	758.909	-391.088	-4.406	5.070	6.174	0.26122	-0.22581	-4.54840
789.998	1.760	198.060	789.896	-360.102	-5.297	4.917	6.910	1.70927	0.45161	56.16140
820.998	1.720	201.130	820.882	-329.116	-6.183	4.602	7.570	0.32717	-0.12903	9.90325
851.998	1.360	208.820	851.870	-298.127	-6.940	4.257	8.101	1.33653	-1.16129	24.80650
883.998	1.460	225.700	883.861	-266.137	-7.557	3.782	8.450	1.32975	0.31250	52.75011
914.998	1.540	231.610	914.850	-235.147	-8.092	3.173	8.666	0.56147	0.25807	19.06455
945.998	1.560	219.840	945.839	-204.159	-8.674	2.576	8.930	1.02721	0.06452	-37.96782
976.998	1.710	212.250	976.826	-173.171	-9.389	2.059	9.349	0.84877	0.48387	-24.48392
1,007.998	1.600	194.170	1,007.813	-142.184	-10.200	1.706	9.925	1.71367	-0.35484	-58.32270
1,039.998	1.460	181.510	1,039.802	-110.196	-11.041	1.586	10.629	1.14035	-0.43750	-39.56258
1,070.998	1.710	187.110	1,070.790	-79.208	-11.895	1.518	11.368	0.94778	0.80645	18.06455
1,101.998	1.930	177.250	1,101.774	-48.223	-12.875	1.486	12.237	1.23201	0.70968	-31.80652
1,132.998	2.190	172.370	1,132.754	-17.243	-13.983	1.590	13.279	1.01102	0.83871	-15.74197
1,163.998	2.350	167.880	1,163.730	13.732	-15.192	1.802	14.460	0.77132	0.51613	-14.48390
1,195.998	2.420	171.510	1,195.702	45.705	-16.502	2.039	15.742	0.52016	0.21875	11.34377
1,226.997	2.380	169.160	1,226.675	76.677	-17.781	2.257	16.988	0.34264	-0.12903	-7.58066
1,257.997	2.380	173.400	1,257.648	107.651	-19.053	2.452	18.218	0.56785	0.00000	13.67745
1,288.997	2.200	179.140	1,288.623	138.626	-20.287	2.535	19.365	0.93981	-0.58065	18.51617
1,320.997	2.270	179.880	1,320.599	170.601	-21.535	2.546	20.493	0.23661	0.21875	2.31250
1,351.997	2.350	184.030	1,351.574	201.576	-22.783	2.502	21.597	0.59794	0.25807	13.38712
1,382.997	2.360	180.400	1,382.547	232.550	-24.055	2.453	22.721	0.48216	0.03226	-11.70970
1,413.997	2.700	191.130	1,413.517	263.520	-25.410	2.308	23.877	1.87619	1.09678	34.61297
1,444.997	2.890	188.710	1,444.480	294.483	-26.899	2.048	25.104	0.72137	0.61290	-7.80647
1,476.997	3.460	191.320	1,476.431	326.433	-28.643	1.737	26.539	1.83719	1.78125	8.15627
1,507.997	3.600	189.910	1,507.372	357.375	-30.519	1.386	28.074	0.53136	0.45161	-4.54840
1,538.997	3.600	193.220	1,538.311	388.313	-32.425	0.995	29.620	0.67035	0.00000	10.67744
1,569.997	3.680	194.860	1,569.248	419.251	-34.334	0.518	31.131	0.42354	0.25807	5.29033
1,601.997	3.530	199.210	1,601.185	451.187	-36.257	-0.070	32.605	0.97450	-0.46875	13.59378
1,632.997	2.940	195.750	1,632.136	482.138	-37.923	-0.600	33.875	2.00389	-1.90323	-11.16131



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Site:	Hines Pad EQT	North Reference:	True
Well:	M08H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Hires M08H As Drilled		

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,663.997	2.470	201.650	1,663.101	513.103	-39.309	-1.062	34.921	1.76029	-1.51613	19.03230
1,694.997	1.940	199.000	1,694.078	544.080	-40.426	-1.479	35.745	1.74058	-1.70968	-8.54840
1,726.996	1.200	198.830	1,726.065	576.068	-41.256	-1.764	36.367	2.31255	-2.31250	-0.53125
1,757.996	0.730	226.310	1,757.061	607.063	-41.699	-2.011	36.659	2.08697	-1.51613	88.64534
1,788.996	0.290	248.460	1,788.060	638.062	-41.864	-2.227	36.713	1.52961	-1.41936	71.45176
1,820.996	0.420	273.120	1,820.059	670.061	-41.888	-2.419	36.650	0.61806	0.40625	77.06266
1,851.996	0.660	325.350	1,851.058	701.060	-41.735	-2.634	36.419	1.68370	0.77420	168.48421
1,882.996	0.500	322.050	1,882.056	732.058	-41.481	-2.819	36.110	0.52705	-0.51613	-10.64518
1,913.996	0.360	339.330	1,913.055	763.058	-41.283	-2.937	35.881	0.61077	-0.45161	55.74205
1,944.996	0.690	30.900	1,944.054	794.056	-41.032	-2.875	35.682	1.75772	1.06452	166.35518
1,975.996	0.640	58.750	1,975.052	825.054	-40.782	-2.631	35.563	1.04425	-0.16129	89.83889
2,133.996	0.800	27.300	2,133.040	983.042	-39.344	-1.371	34.818	0.26554	0.10127	-19.90510
2,222.995	0.700	344.610	2,222.032	1,072.035	-38.268	-1.230	33.910	0.62230	-0.11236	-47.96639
2,312.995	0.880	343.500	2,312.024	1,162.026	-37.075	-1.572	32.687	0.20071	0.20000	-1.23334
2,401.995	0.710	323.920	2,401.015	1,251.017	-35.974	-2.091	31.470	0.35736	-0.19101	-22.00004
2,490.995	0.890	332.520	2,490.006	1,340.009	-34.915	-2.735	30.237	0.24257	0.20225	9.66294
2,579.995	1.000	324.540	2,578.994	1,428.996	-33.670	-3.505	28.780	0.19244	0.12360	-8.96631
2,669.995	0.620	109.320	2,668.990	1,518.992	-33.191	-3.501	28.351	1.72040	-0.42222	160.86699
2,759.994	0.850	100.040	2,758.982	1,608.984	-33.468	-2.384	29.087	0.28695	0.25556	-10.31113
2,848.994	0.420	63.970	2,847.977	1,697.979	-33.440	-1.441	29.473	0.63736	-0.48315	-40.52817
2,937.994	0.470	28.190	2,936.974	1,786.976	-32.976	-0.975	29.257	0.31181	0.05618	-40.20233
3,027.994	0.440	38.940	3,026.971	1,876.973	-32.381	-0.583	28.893	0.10036	-0.03333	11.94447
3,116.994	0.590	28.530	3,115.967	1,965.969	-31.713	-0.150	28.480	0.19798	0.16854	-11.69665
3,206.993	0.410	353.310	3,205.964	2,055.966	-30.986	0.034	27.906	0.38644	-0.20000	-39.13341
3,295.993	0.320	353.890	3,294.962	2,144.964	-30.423	-0.030	27.371	0.10121	-0.10112	0.65169
3,385.993	0.580	341.980	3,384.959	2,234.961	-29.740	-0.197	26.684	0.30549	0.28889	-13.23336
3,475.993	0.750	326.780	3,474.952	2,324.955	-28.814	-0.661	25.648	0.27065	0.18889	-16.88892
3,564.993	0.680	304.180	3,563.945	2,413.948	-28.030	-1.417	24.613	0.32414	-0.07865	-25.39331
3,654.993	0.160	55.030	3,653.943	2,503.946	-27.658	-1.756	24.131	0.83552	-0.57778	123.16692
3,743.992	0.550	64.070	3,742.941	2,592.944	-27.400	-1.270	24.110	0.44134	0.43820	10.15732
3,833.992	0.410	55.780	3,832.938	2,682.940	-27.030	-0.615	24.062	0.17325	-0.15556	-9.21113
3,922.992	0.150	339.960	3,921.937	2,771.939	-26.741	-0.392	23.900	0.45010	-0.29214	-85.19118
4,012.992	0.940	117.070	4,011.933	2,861.935	-26.966	0.225	24.371	1.17206	0.87778	152.34475
4,101.992	1.670	132.910	4,100.909	2,950.912	-28.182	1.825	26.162	0.90734	0.82023	17.79779
4,191.991	1.040	139.210	4,190.883	3,040.886	-29.693	3.319	28.173	0.71826	-0.70000	7.00001
4,280.991	0.720	115.460	4,279.873	3,129.875	-30.545	4.352	29.390	0.53794	-0.35955	-26.68545
4,370.991	0.460	103.920	4,369.868	3,219.870	-30.875	5.213	30.062	0.31621	-0.28889	-12.82225
4,459.991	0.310	97.140	4,458.866	3,308.868	-30.991	5.799	30.422	0.17585	-0.16854	-7.61799
4,548.991	0.310	35.420	4,547.865	3,397.867	-30.824	6.177	30.437	0.35733	0.00000	-69.34846
KOP=4549' MD										
4,549.000	0.310	35.420	4,547.874	3,397.876	-30.824	6.177	30.437	0.00000	0.00000	0.00000
4,638.991	1.840	34.770	4,637.846	3,487.848	-29.439	7.142	29.610	1.70020	1.70018	-0.72230



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4,728.990	5.950	31.460	4,727.619	3,577.621	-24.271	10.402	26.378	4.57161	4.56668	-3.67779
4,817.990	11.310	38.700	4,815.581	3,665.583	-13.517	18.272	20.127	6.13318	6.02248	8.13485
4,907.990	14.770	64.910	4,903.322	3,753.324	-1.751	34.199	16.474	7.51734	3.84445	29.12228
4,996.990	11.980	72.830	4,989.907	3,839.909	5.789	53.304	18.010	3.74341	-3.13484	8.89889
5,085.990	10.710	63.980	5,077.172	3,927.175	12.144	69.562	19.372	2.41733	-1.42697	-9.94384
5,174.989	15.130	53.430	5,163.909	4,013.912	22.699	86.333	17.177	5.60967	4.96630	-11.85396
5,264.989	15.330	59.930	5,250.755	4,100.757	35.659	106.063	14.106	1.90923	0.22222	7.22224
5,353.989	15.480	69.750	5,336.572	4,186.574	45.666	127.391	14.390	2.93248	0.16854	11.03373
5,442.989	15.200	73.720	5,422.403	4,272.405	53.048	149.734	17.478	1.22102	-0.31461	4.46068
5,497.989	13.920	72.950	5,475.635	4,325.638	57.009	162.981	19.683	2.35369	-2.32728	-1.40000
5,587.989	12.600	81.680	5,563.243	4,413.245	61.604	183.047	24.288	2.66086	-1.46667	9.70002
5,676.988	15.800	104.460	5,649.579	4,499.581	59.982	204.407	35.053	7.16797	3.59551	25.59556
5,766.988	19.590	121.440	5,735.362	4,585.364	49.041	229.169	55.689	7.07369	4.21112	18.86670
5,855.988	24.860	128.730	5,817.736	4,667.739	29.537	256.518	85.159	6.67248	5.92136	8.19103
5,945.988	30.030	137.320	5,897.611	4,747.614	1.114	286.574	123.836	7.22236	5.74446	9.54446
6,034.988	36.060	141.120	5,972.188	4,822.191	-35.687	318.146	170.715	7.16124	6.77529	4.26967
6,124.987	43.510	144.790	6,041.310	4,891.312	-81.692	352.689	227.173	8.67631	8.27779	4.07779
6,213.987	52.430	144.910	6,100.837	4,950.839	-135.693	390.707	292.343	10.02299	10.02249	0.13483
6,303.987	52.930	144.180	6,155.401	5,005.403	-193.993	432.224	362.907	0.85130	0.55556	-0.81111
6,393.987	56.480	146.280	6,207.397	5,057.399	-254.336	474.081	435.456	4.37979	3.94445	2.33334
6,482.987	65.540	149.590	6,250.496	5,100.498	-320.278	515.274	512.758	10.68494	10.17980	3.71911
Top of Marcellus@6279' TVD										
6,561.312	71.923	152.978	6,278.900	5,128.902	-384.270	550.278	585.607	9.09074	8.14968	4.32565
6,572.987	72.880	153.460	6,282.429	5,132.432	-394.204	555.292	596.734	9.09074	8.19507	4.12801
6,661.986	77.840	156.050	6,304.920	5,154.923	-472.068	591.982	682.804	6.24344	5.57304	2.91012
6,750.986	85.870	157.440	6,317.520	5,167.522	-552.948	626.728	770.743	9.15377	9.02249	1.56180
LP=6841' MD/ 6321' TVD										
6,840.986	89.450	157.080	6,321.194	5,171.196	-635.869	661.483	860.522	3.99781	3.97779	-0.40000
6,929.986	89.450	155.950	6,322.048	5,172.051	-717.492	696.948	949.442	1.26960	0.00001	-1.26966
7,018.986	89.420	155.460	6,322.926	5,172.928	-798.605	733.564	1,038.406	0.55157	-0.03371	-0.55056
7,108.985	89.450	156.050	6,323.813	5,173.816	-880.663	770.519	1,128.367	0.65637	0.03333	0.65556
7,197.985	89.350	155.670	6,324.745	5,174.748	-961.875	806.915	1,217.323	0.44148	-0.11236	-0.42697
7,287.985	89.320	155.720	6,325.790	5,175.792	-1,043.892	843.956	1,307.285	0.06479	-0.03333	0.05556
7,376.985	89.570	155.630	6,326.652	5,176.654	-1,124.987	880.614	1,396.250	0.29855	0.28090	-0.10112
7,466.985	89.540	157.150	6,327.351	5,177.353	-1,207.448	916.658	1,486.177	1.68917	-0.03333	1.68889
7,555.985	89.350	156.850	6,328.213	5,178.215	-1,289.369	951.431	1,575.065	0.39898	-0.21348	-0.33708
7,645.984	89.380	157.170	6,329.211	5,179.213	-1,372.215	986.580	1,664.949	0.35709	0.03333	0.35556
7,734.984	89.510	157.850	6,330.073	5,180.075	-1,454.442	1,020.623	1,753.793	0.77785	0.14607	0.76405
7,824.984	89.420	160.100	6,330.913	5,180.915	-1,538.441	1,052.909	1,843.468	2.50190	-0.10000	2.50001
7,913.984	89.350	160.410	6,331.868	5,181.871	-1,622.203	1,082.974	1,931.962	0.35707	-0.07865	0.34832
8,003.984	89.450	161.140	6,332.811	5,182.813	-1,707.178	1,112.608	2,021.359	0.81864	0.11111	0.81111
8,093.983	89.570	160.840	6,333.581	5,183.583	-1,792.267	1,141.922	2,110.720	0.35900	0.13333	-0.33333
8,182.983	89.320	158.880	6,334.443	5,184.445	-1,875.816	1,172.563	2,199.273	2.21999	-0.28090	-2.20225



EQT
Survey Report

Database:	EDM_Definitive	Local Co-ordinate Reference:	Well M08H - Slot M08H
Company:	EQT (Chevron Data) 02-13-21	TVD Reference:	GL at 1125.00' & 25' KB @ 1149.998usft
Project:	Marshall County, WV Chevron	MD Reference:	GL at 1125.00' & 25' KB @ 1149.998usft
Site:	Hines Pad EQT	North Reference:	True
Well:	M08H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Hines M08H As Drilled		

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,272.983	89.450	156.540	6,335.409	5,185.411	-1,959.080	1,206.696	2,289.091	2.60386	0.14444	-2.60001
8,361.983	89.540	154.230	6,336.193	5,186.196	-2,039.984	1,243.762	2,378.061	2.59738	0.10112	-2.59551
8,451.983	89.350	154.780	6,337.065	5,187.068	-2,121.216	1,282.499	2,468.055	0.64652	-0.21111	0.61111
8,541.983	89.450	155.140	6,338.008	5,188.010	-2,202.752	1,320.589	2,558.041	0.41513	0.11111	0.40000
8,630.982	89.380	154.810	6,338.916	5,188.919	-2,283.392	1,358.235	2,647.027	0.37902	-0.07865	-0.37079
8,720.982	89.570	155.050	6,339.741	5,189.743	-2,364.910	1,396.369	2,737.015	0.34011	0.21111	0.26667
8,810.982	89.570	154.410	6,340.416	5,190.419	-2,446.295	1,434.787	2,827.008	0.71109	0.00000	-0.71111
8,899.982	89.020	154.120	6,341.512	5,191.514	-2,526.460	1,473.428	2,916.001	0.69861	-0.61798	-0.32584
8,989.982	89.020	153.340	6,343.051	5,193.053	-2,607.152	1,513.256	3,005.984	0.86654	0.00000	-0.86667
9,078.981	88.920	153.220	6,344.651	5,194.653	-2,686.635	1,553.267	3,094.958	0.17549	-0.11236	-0.13483
9,168.981	89.050	152.680	6,346.245	5,196.247	-2,766.777	1,594.189	3,184.923	0.61705	0.14444	-0.60000
9,258.981	89.170	151.790	6,347.643	5,197.645	-2,846.405	1,636.110	3,274.860	0.99772	0.13333	-0.98889
9,348.981	89.080	154.900	6,349.018	5,199.020	-2,926.820	1,676.476	3,364.828	3.45661	-0.10000	3.45556
9,437.981	89.140	155.090	6,350.400	5,200.402	-3,007.468	1,714.091	3,453.808	0.22385	0.06742	0.21348
9,527.980	89.420	148.670	6,351.532	5,201.535	-3,086.797	1,756.484	3,543.682	7.13956	0.31111	-7.13335
9,616.980	89.510	141.750	6,352.364	5,202.367	-3,159.840	1,807.232	3,631.537	7.77561	0.10112	-7.77530
9,706.980	89.320	137.680	6,353.284	5,203.286	-3,228.478	1,865.410	3,718.663	4.52692	-0.21111	-4.52223
9,795.980	89.540	142.610	6,354.169	5,204.172	-3,296.775	1,922.424	3,804.977	5.54457	0.24719	5.53934
9,884.980	89.510	150.010	6,354.908	5,204.911	-3,370.774	1,971.756	3,893.075	8.31441	-0.03371	8.31462
9,974.980	89.450	156.500	6,355.726	5,205.728	-3,451.099	2,012.235	3,983.012	7.21114	-0.06667	7.21113
10,063.979	89.570	160.180	6,356.487	5,206.490	-3,533.797	2,045.078	4,071.758	4.13689	0.13483	4.13484
10,153.979	89.720	168.390	6,357.046	5,207.048	-3,620.357	2,069.433	4,160.283	9.12359	0.16667	9.12224
10,242.979	89.660	176.210	6,357.528	5,207.531	-3,708.485	2,081.348	4,244.800	8.78666	-0.06742	8.78653
10,332.979	89.750	181.490	6,357.992	5,207.994	-3,798.434	2,083.154	4,326.551	5.86745	0.10000	5.86668
10,421.979	89.850	176.700	6,358.303	5,208.305	-3,887.396	2,084.559	4,407.241	5.38317	0.11236	-5.38203
10,510.978	89.850	168.540	6,358.536	5,208.539	-3,975.583	2,095.982	4,491.597	9.16853	0.00000	-9.16856
10,600.979	90.280	160.070	6,358.434	5,208.436	-4,062.149	2,120.306	4,580.113	9.42322	0.47778	-9.41113
10,689.979	91.110	153.570	6,357.353	5,207.356	-4,143.913	2,155.316	4,668.963	7.36209	0.93259	-7.30339
10,778.979	91.380	148.330	6,355.418	5,205.421	-4,221.671	2,198.506	4,757.770	5.89407	0.30337	-5.88765
10,868.979	89.320	148.470	6,354.868	5,204.871	-4,298.321	2,245.661	4,847.306	2.29417	-2.28889	0.15556
10,957.979	89.140	150.950	6,356.065	5,206.067	-4,375.158	2,290.543	4,936.021	2.79360	-0.20225	2.78652
11,047.978	89.020	150.760	6,357.510	5,207.512	-4,453.752	2,334.369	5,025.858	0.24967	-0.13333	-0.21111
11,136.978	89.420	149.410	6,358.721	5,208.724	-4,530.885	2,378.750	5,114.621	1.58190	0.44944	-1.51686
11,226.978	89.260	152.180	6,359.758	5,209.761	-4,609.431	2,422.657	5,204.449	3.08271	-0.17778	3.07778
11,315.978	89.690	152.080	6,360.574	5,210.576	-4,688.105	2,464.259	5,293.389	0.49604	0.48315	-0.11236



EQT
Survey Report

Database:	EDM_Definitive	Local Co-ordinate Reference:	Well M08H - Slot M08H
Company:	EQT (Chevron Data) 02-13-21	TVD Reference:	GL at 1125.00' & 25' KB @ 1149.998usft
Project:	Marshall County, WV Chevron	MD Reference:	GL at 1125.00' & 25' KB @ 1149.998usft
Site:	Hines Pad EQT	North Reference:	True
Well:	M08H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Hines M08H As Drilled		

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,405.978	89.080	152.610	6,361.540	5,211.542	-4,767.818	2,506.030	5,383.337	0.89785	-0.67778	0.58889
11,494.977	87.570	158.630	6,364.144	5,214.146	-4,848.806	2,542.736	5,472.227	6.97060	-1.69663	6.76406
11,584.977	88.980	162.730	6,366.854	5,216.856	-4,933.679	2,572.490	5,561.585	4.81537	1.56667	4.55556
11,673.977	89.350	162.640	6,368.151	5,218.153	-5,018.637	2,598.975	5,649.595	0.42785	0.41573	-0.10112
11,763.977	89.320	160.920	6,369.195	5,219.198	-5,104.115	2,627.112	5,738.794	1.91128	-0.03333	-1.91111
11,852.977	89.260	161.490	6,370.298	5,220.301	-5,188.362	2,655.784	5,827.118	0.64394	-0.06742	0.64045
11,941.977	89.320	161.490	6,371.401	5,221.403	-5,272.752	2,684.037	5,915.386	0.06742	0.06742	0.00000
12,031.976	89.690	158.660	6,372.179	5,222.181	-5,357.352	2,714.704	6,004.897	3.17109	0.41111	-3.14445
12,120.976	90.180	154.500	6,372.280	5,222.282	-5,439.001	2,750.070	6,093.798	4.70646	0.55056	-4.67417
12,210.976	90.120	154.980	6,372.044	5,222.047	-5,520.395	2,788.476	6,183.793	0.53748	-0.06667	0.53333
12,299.976	89.630	154.570	6,372.238	5,222.241	-5,600.907	2,826.405	6,272.787	0.71787	-0.55056	-0.46068
12,388.976	88.920	156.500	6,373.365	5,223.367	-5,681.905	2,863.258	6,361.750	2.31045	-0.79775	2.16854
12,478.975	88.920	155.920	6,375.061	5,225.063	-5,764.243	2,899.566	6,451.677	0.64433	0.00000	-0.64445
12,567.975	88.920	155.420	6,376.739	5,226.741	-5,845.324	2,936.217	6,540.630	0.56170	0.00000	-0.56180
12,657.975	89.480	154.820	6,377.995	5,227.997	-5,926.962	2,974.077	6,630.608	0.91188	0.62222	-0.66667
12,746.975	89.420	153.580	6,378.849	5,228.852	-6,007.085	3,012.810	6,719.602	1.39483	-0.06742	-1.39326
12,835.975	89.420	154.390	6,379.750	5,229.753	-6,087.063	3,051.844	6,808.596	0.91007	0.00000	0.91011
12,925.975	89.510	155.750	6,380.591	5,230.593	-6,168.671	3,089.777	6,898.579	1.51435	0.10000	1.51111
13,015.974	89.380	150.720	6,381.463	5,231.466	-6,248.999	3,130.292	6,988.534	5.59050	-0.14444	-5.58890
13,104.974	89.510	155.000	6,382.326	5,232.328	-6,328.177	3,170.879	7,077.485	4.81099	0.14607	4.80900
13,193.974	89.380	157.130	6,383.188	5,233.190	-6,409.515	3,206.983	7,166.427	2.39760	-0.14607	2.39326
13,282.974	89.480	155.010	6,384.073	5,234.076	-6,490.856	3,243.079	7,255.369	2.38456	0.11236	-2.38203
13,372.974	89.420	159.480	6,384.938	5,234.940	-6,573.826	3,277.880	7,345.213	4.96689	-0.06667	4.96668
13,461.973	89.380	165.800	6,385.871	5,235.873	-6,658.724	3,304.420	7,433.194	7.10089	-0.04494	7.10114
13,551.973	89.660	162.860	6,386.625	5,236.627	-6,745.366	3,328.725	7,521.770	3.28134	0.31111	-3.26667
13,640.973	89.510	152.420	6,387.271	5,237.274	-6,827.558	3,362.535	7,610.482	11.73126	-0.16854	-11.73036
13,729.973	89.110	148.470	6,388.343	5,238.346	-6,904.957	3,406.423	7,699.269	4.46058	-0.44944	-4.43821
13,819.973	89.050	150.660	6,389.789	5,239.791	-6,982.540	3,452.005	7,788.961	2.43394	-0.06667	2.43334



EQT
Survey Report

Database:	EDM_Definitive	Local Co-ordinate Reference:	Well M08H - Slot M08H
Company:	EQT (Chevron Data) 02-13-21	TVD Reference:	GL at 1125.00' & 25' KB @ 1149.998usft
Project:	Marshall County, WV Chevron	MD Reference:	GL at 1125.00' & 25' KB @ 1149.998usft
Site:	Hines Pad EQT	North Reference:	True
Well:	M08H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Hines M08H As Drilled		

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,908.97 3	89.020	154.000	6,391.288	5,241.290	-7,061.339	3,493.323	7,877.890	3.75244	-0.03371	3.75282
13,997.97 2	89.080	153.230	6,392.764	5,242.766	-7,141.056	3,532.868	7,966.872	0.86767	0.06742	-0.86517
14,087.97 2	89.140	153.340	6,394.162	5,244.164	-7,221.439	3,573.323	8,056.850	0.13921	0.06667	0.12222
14,176.97 2	89.020	151.610	6,395.591	5,245.593	-7,300.352	3,614.446	8,145.796	1.94824	-0.13483	-1.94382
14,266.97 2	89.080	154.130	6,397.083	5,247.085	-7,380.432	3,655.478	8,235.753	2.80041	0.06667	2.80001
14,355.97 2	88.830	154.810	6,398.706	5,248.709	-7,460.728	3,693.829	8,324.736	0.81393	-0.28090	0.76405
14,445.97 1	89.720	158.840	6,399.845	5,249.848	-7,543.441	3,729.237	8,414.613	4.58529	0.98889	4.47779
14,534.97 1	89.660	160.790	6,400.327	5,250.329	-7,626.969	3,759.945	8,503.176	2.19202	-0.06742	2.19102
14,624.97 1	89.720	165.140	6,400.814	5,250.817	-7,712.999	3,786.304	8,592.097	4.83373	0.06667	4.83334
14,713.97 1	89.750	164.570	6,401.226	5,251.228	-7,798.906	3,809.556	8,679.553	0.64133	0.03371	-0.64045
14,803.97 1	89.750	162.940	6,401.619	5,251.621	-7,885.309	3,834.732	8,768.294	1.81110	0.00000	-1.81111
14,892.97 1	89.660	159.880	6,402.077	5,252.079	-7,969.654	3,863.101	8,856.574	3.43965	-0.10112	-3.43821
14,982.97 0	89.570	156.910	6,402.682	5,252.684	-8,053.319	3,896.235	8,946.317	3.30145	-0.10000	-3.30001
15,071.97 0	89.450	155.580	6,403.443	5,253.445	-8,134.774	3,932.084	9,035.254	1.50040	-0.13483	-1.49439
15,160.97 0	89.510	150.750	6,404.251	5,254.254	-8,214.163	3,972.247	9,124.210	5.42717	0.06742	-5.42698
15,250.97 0	89.600	151.490	6,404.950	5,254.953	-8,292.966	4,015.713	9,214.078	0.82826	0.10000	0.82222
15,339.97 0	89.480	153.310	6,405.665	5,255.667	-8,371.833	4,056.943	9,303.029	2.04932	-0.13483	2.04495
15,429.96 9	89.480	154.490	6,406.482	5,256.484	-8,452.650	4,096.535	9,393.022	1.31106	0.00000	1.31111
15,518.96 9	89.450	155.990	6,407.313	5,257.315	-8,533.462	4,133.808	9,482.000	1.68566	-0.03371	1.68540
Final Survey=15809' MD/ 6408' TVD										
15,608.96 9	89.420	155.520	6,408.200	5,258.203	-8,615.520	4,170.763	9,571.962	0.52326	-0.03333	-0.52222
Projection to TD/ Deepest Point of Well=15855' MD/ 6409' TVD										
15,654.96 9	89.420	155.520	6,408.666	5,258.668	-8,657.382	4,189.823	9,617.946	0.00000	0.00000	0.00000



EQT
Survey Report

Database:	EDM_Definitive	Local Co-ordinate Reference:	Well M08H - Slot M08H
Company:	EQT (Chevron Data) 02-13-21	TVD Reference:	GL at 1125.00' & 25' KB @ 1149.998usft
Project:	Marshall County, WV Chevron	MD Reference:	GL at 1125.00' & 25' KB @ 1149.998usft
Site:	Hines Pad EQT	North Reference:	True
Well:	M08H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Hines M08H As Drilled		

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (-30.498)	+E/-W (6.286)	Northing (usft)	Easting (usft)	Latitude	Longitude	
Hines 8H KOP	0.000	0.000	4,547.87 0	-30.498	6.286	514,376.173	1,632,089.203	39.9060513	80.6992187°W	
- actual wellpath misses target center by 0.344usft at 4549.003usft MD (4547.877 TVD, -30.824 N, 6.177 E)										
- Point										
Hines 8H LP	0.000	0.000	6,321.19 0	-635.542	661.591	513,762.435	1,632,736.374	39.9043903	80.6968828°W	
- actual wellpath misses target center by 0.227usft at 6840.727usft MD (6321.192 TVD, -635.630 N, 661.382 E)										
- Point										
Hines 8H BHL	0.000	0.000	6,408.66 2	-8,657.056	4,189.932	505,694.538	1,636,157.324	39.8823680	80.6843106°W	
- actual wellpath misses target center by 0.234usft at 15654.716usft MD (6408.664 TVD, -8657.153 N, 4189.719 E)										
- Point										

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
6,561.312	6,278.900	Top of Marcellus@6279' TVD		0.0000		

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
4,549.000	4,547.874	-30.824	6.177	KOP=4549' MD	
6,840.986	6,321.194	-635.869	661.483	LP=6841' MD/ 6321' TVD	
15,608.969	6,408.200	-8,615.520	4,170.763	Final Survey=15609' MD/ 6408' TVD	
15,654.969	6,408.666	-8,657.382	4,189.823	Projection to TD/ Deepest Point of Well=15655' MD/ 6409' TVD	

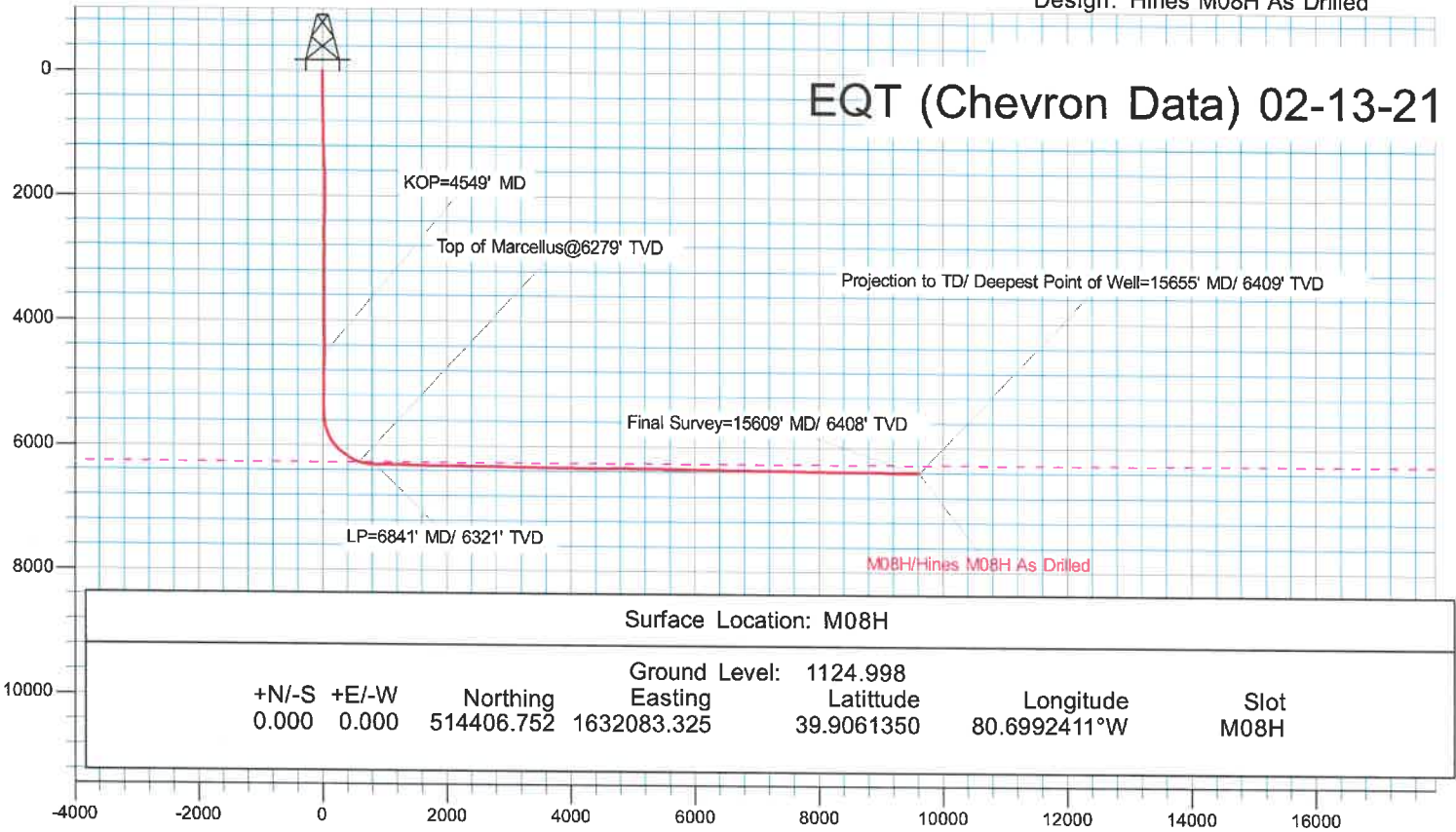
Checked By: _____ Approved By: _____ Date: _____



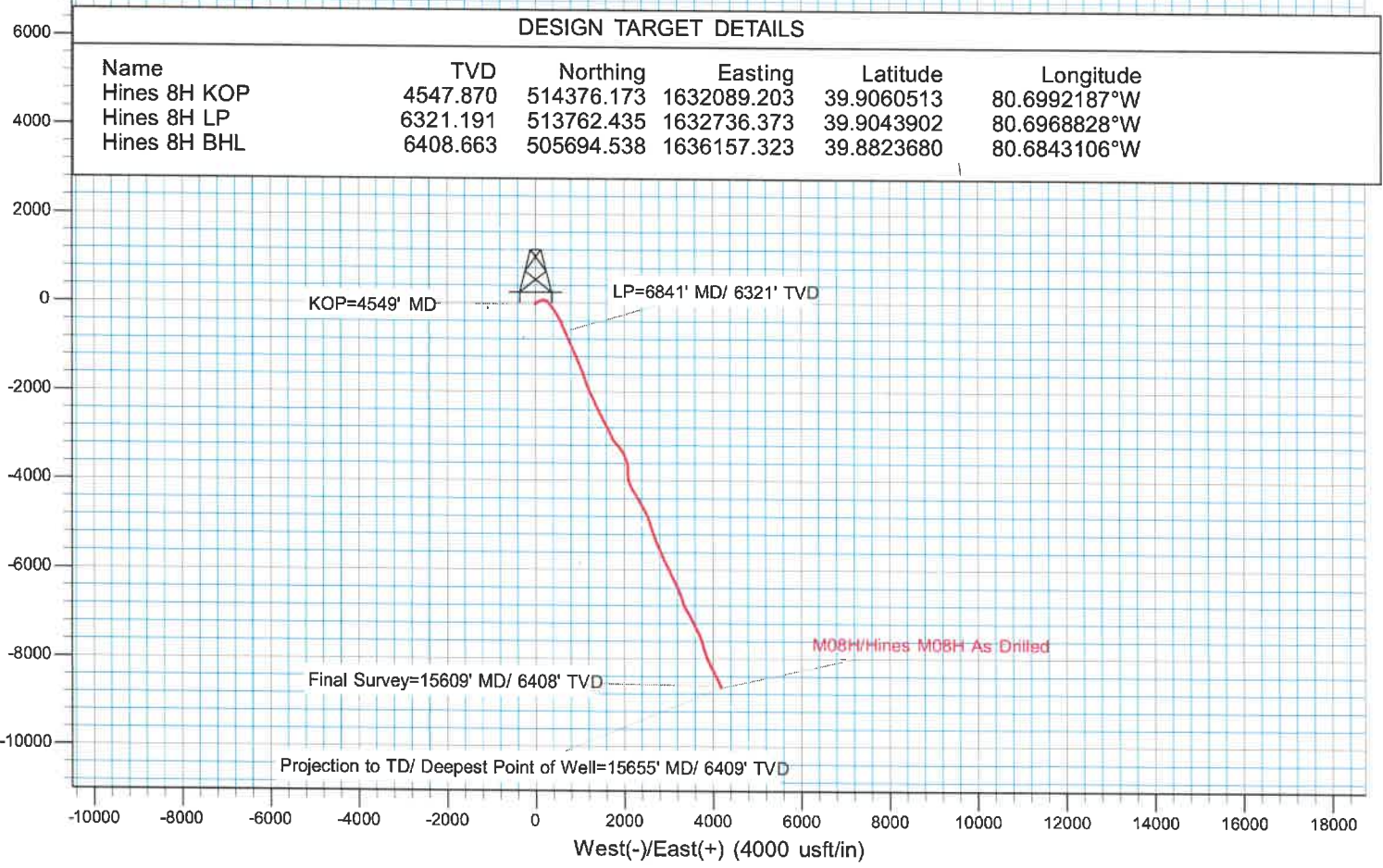
KB Elevation= GL at 1125.00' & 25' KB @ 1149.998usft
 Ground Elevation= 1124.998
 All measurements were taken from KB Elevation

Project: Marcellus County, WV - Chevron
 Site: Hines Pad EQT
 Well: M08H
 Wellbore: OH
 Design: Hines M08H As Drilled

EQT (Chevron Data) 02-13-21



Vertical Section at 154.175° (3000 usft/in)



West(-)/East(+) (4000 usft/in)