



EQT (Chevron Data) 02-13-21

Marshall County, WV Chevron

Hines Pad EQT

M09H - Slot M09H

OH

Design: Hines M09H As Drilled

Standard Survey Report

27 July, 2021

05/27/2022



EQT
Survey Report

Database:	EDM_Definitive	Local Co-ordinate Reference:	Well M09H - Slot M09H
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:	M09H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Hines M09H 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 M09H - Slot M09H

Well Position	+N/-S	0.000 usft	Northing:	514,420.912 usft	Latitude:	39.9061739
	+E/-W	0.000 usft	Easting:	1,632,083.826 usft	Longitude:	80.6992400°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	53,878.80045465

Design Hines M09H 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	135.041

Survey Program Date 7/27/2021

From (')	To (usft)	Survey (Wellbore)	Tool Name	Description
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	17,443.965	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	306.010	25.000	-1,124.998	0.000	0.000	0.000	0.00000	0.00000	0.00000
108.000	0.290	306.010	107.999	-1,041.998	0.123	-0.170	-0.207	0.34940	0.34940	0.00000
133.000	0.420	309.900	132.999	-1,016.999	0.219	-0.291	-0.361	0.52856	0.52000	15.56003
158.000	0.520	318.770	157.998	-992.000	0.364	-0.436	-0.566	0.49354	0.40000	35.48007
183.000	0.350	320.090	182.997	-967.000	0.507	-0.560	-0.755	0.68114	-0.68000	5.28001
208.000	0.380	313.510	207.997	-942.001	0.623	-0.669	-0.914	0.20600	0.12000	-26.32005



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Well:	M09H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Hines M09H 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	0.560	338.330	232.996	-917.002	0.794	-0.775	-1.109	1.07116	0.72000	99.28020
257.999	0.390	323.180	257.995	-892.003	0.975	-0.871	-1.305	0.83982	-0.68000	-60.60012
282.999	0.480	311.500	282.994	-867.004	1.113	-1.000	-1.494	0.50363	0.36000	-46.72009
307.999	0.580	314.960	307.993	-842.005	1.272	-1.168	-1.725	0.41981	0.40000	13.84003
332.999	0.570	325.280	332.992	-817.006	1.463	-1.328	-1.974	0.41562	-0.04000	41.28008
357.999	0.640	330.940	357.990	-792.007	1.688	-1.467	-2.231	0.36785	0.28000	22.64005
506.999	0.910	312.470	506.976	-643.021	3.214	-2.744	-4.213	0.24466	0.18121	-12.39600
568.999	0.400	246.110	568.973	-581.025	3.459	-3.305	-4.783	1.34576	-0.82258	-107.03247
600.999	0.690	183.000	600.971	-549.026	3.221	-3.417	-4.694	1.94263	0.90625	-197.21915
631.999	0.850	176.800	631.969	-518.029	2.805	-3.414	-4.397	0.58119	0.51613	-20.00004
662.999	1.340	168.910	662.963	-487.035	2.220	-3.332	-3.925	1.65010	1.58065	-25.45166
693.999	1.570	167.660	693.953	-456.045	1.449	-3.171	-3.266	0.74892	0.74194	-4.03227
724.999	1.610	170.300	724.941	-425.057	0.605	-3.007	-2.553	0.26920	0.12903	8.51615
755.998	1.580	182.210	755.929	-394.069	-0.251	-2.950	-1.907	1.07179	-0.09677	38.41943
786.998	1.340	189.490	786.919	-363.079	-1.036	-3.026	-1.405	0.97699	-0.77420	23.48392
818.998	1.150	188.650	818.911	-331.087	-1.722	-3.136	-0.997	0.59647	-0.59375	-2.62501
849.998	0.850	190.360	849.906	-300.092	-2.256	-3.225	-0.682	0.97241	-0.96774	5.51614
880.998	0.540	202.140	880.904	-269.094	-2.618	-3.321	-0.494	1.09599	-1.00000	38.00008
911.998	0.240	248.160	911.903	-238.095	-2.777	-3.436	-0.463	1.32694	-0.96774	148.45191
942.998	0.570	279.190	942.902	-207.096	-2.777	-3.649	-0.613	1.24121	1.06452	100.09698
973.998	0.580	308.140	973.901	-176.097	-2.655	-3.924	-0.894	0.92778	0.03226	93.38729
1,005.998	0.490	323.650	1,005.899	-144.099	-2.445	-4.133	-1.190	0.53032	-0.28125	48.46885
1,036.998	0.310	344.710	1,036.898	-113.099	-2.257	-4.234	-1.394	0.74048	-0.58065	67.93562
1,067.998	0.130	29.670	1,067.898	-82.100	-2.146	-4.238	-1.476	0.76314	-0.58065	145.03255
1,098.998	0.470	26.570	1,098.897	-51.100	-2.001	-4.164	-1.526	1.09762	1.09678	-10.00002
1,129.998	0.030	305.940	1,129.897	-20.101	-1.883	-4.114	-1.574	1.50341	-1.41936	-260.09729
1,161.998	0.710	88.530	1,161.896	11.899	-1.873	-3.922	-1.446	2.29393	2.12500	445.59464
1,192.998	1.020	85.850	1,192.893	42.895	-1.848	-3.455	-1.134	1.00821	1.00000	-8.64518
1,223.997	0.990	103.680	1,223.888	73.890	-1.891	-2.920	-0.725	1.00929	-0.09677	57.51625
1,254.997	1.230	115.870	1,254.882	104.884	-2.100	-2.360	-0.182	1.08199	0.77420	39.32266
1,286.997	1.410	122.830	1,286.873	136.876	-2.463	-1.720	0.528	0.75231	0.56250	21.75004
1,317.997	1.870	128.760	1,317.861	167.863	-2.987	-1.005	1.403	1.57970	1.48387	19.12907
1,348.997	1.740	127.790	1,348.845	198.847	-3.592	-0.239	2.373	0.43077	-0.41936	-3.12904
1,379.997	1.550	130.610	1,379.832	229.835	-4.153	0.451	3.258	0.66604	-0.61290	9.09679
1,410.997	1.360	130.650	1,410.822	260.825	-4.666	1.049	4.042	0.61291	-0.61290	0.12903
1,442.997	1.520	145.310	1,442.812	292.814	-5.262	1.578	4.839	1.25066	0.50000	45.81259
1,473.997	1.540	153.260	1,473.801	323.803	-5.972	2.000	5.639	0.68721	0.06452	25.64521
1,504.997	1.500	160.820	1,504.790	354.792	-6.727	2.321	6.400	0.65912	-0.12903	24.38715
1,535.997	1.240	171.760	1,535.781	385.784	-7.442	2.502	7.034	1.18609	-0.83871	35.29039
1,567.997	1.410	161.070	1,567.773	417.775	-8.158	2.679	7.666	0.93529	0.53125	-33.40632
1,598.997	1.310	165.030	1,598.764	448.766	-8.861	2.894	8.315	0.44252	-0.32258	12.77422



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Wellbore:	OH		
Design:	Hines M09H 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)
1,629.997	1.440	158.710	1,629.755	479.757	-9.566	3.127	8.979	0.64375	0.41936	-20.38714
1,660.997	1.610	142.450	1,660.744	510.746	-10.274	3.534	9.767	1.49340	0.54839	-52.45172
1,691.997	1.520	135.740	1,691.732	541.735	-10.914	4.087	10.610	0.65807	-0.29032	-21.64521
1,723.996	1.420	110.240	1,723.722	573.724	-11.355	4.755	11.395	2.05023	-0.31250	-79.68766
1,754.996	1.660	83.900	1,754.711	604.714	-11.440	5.562	12.025	2.38569	0.77420	-84.96791
1,786.996	1.870	84.490	1,786.696	636.698	-11.341	6.542	12.648	0.65870	0.65625	1.84375
1,817.996	2.120	75.640	1,817.677	667.679	-11.150	7.601	13.261	1.27760	0.80645	-28.54844
1,848.996	2.390	76.170	1,848.653	698.655	-10.853	8.784	13.887	0.87355	0.87097	1.70968
1,879.996	2.230	73.960	1,879.628	729.630	-10.532	9.992	14.513	0.59063	-0.51613	-7.12905
1,910.996	2.210	70.990	1,910.604	760.607	-10.171	11.136	15.066	0.37664	-0.06452	-9.58066
1,942.996	2.020	62.190	1,942.583	792.585	-9.707	12.219	15.502	1.17408	-0.59375	-27.50006
1,973.996	1.890	50.270	1,973.565	823.567	-9.125	13.095	15.710	1.37423	-0.41936	-38.45169
2,132.996	1.800	15.930	2,132.487	982.489	-5.048	15.797	14.734	0.68713	-0.05660	-21.59753
2,222.995	0.280	70.100	2,222.470	1,072.472	-3.614	16.392	14.139	1.83529	-1.68889	60.18901
2,311.995	0.200	139.670	2,311.469	1,161.472	-3.658	16.697	14.386	0.31642	-0.08989	78.16870
2,400.995	0.110	51.760	2,400.469	1,250.471	-3.724	16.864	14.551	0.25249	-0.10112	-98.77548
2,490.995	0.030	133.050	2,490.468	1,340.471	-3.686	16.949	14.585	0.12172	-0.08889	90.32241
2,580.995	0.220	299.440	2,580.468	1,430.470	-3.617	16.816	14.442	0.27695	0.21111	184.87815
2,669.995	0.420	328.110	2,669.467	1,519.469	-3.256	16.495	13.960	0.28125	0.22472	32.21355
2,759.994	0.530	334.250	2,759.463	1,609.466	-2.601	16.140	13.245	0.13450	0.12222	6.82224
2,848.994	0.660	332.680	2,848.458	1,698.461	-1.775	15.726	12.368	0.14720	0.14607	-1.76405
KOP=2849' MD/ 2845' TVD										
2,849.000	0.660	332.680	2,848.464	1,698.466	-1.775	15.726	12.368	0.00000	0.00000	0.00000
2,938.994	7.010	49.310	2,938.227	1,788.229	2.271	19.657	12.283	7.65298	7.05602	85.15001
3,027.994	12.200	57.410	3,025.953	1,875.955	10.883	31.707	14.703	6.01180	5.83147	9.10114
3,117.994	13.830	65.830	3,113.646	1,963.648	20.411	49.536	20.559	2.77392	1.81111	9.35557
3,206.993	15.010	74.600	3,199.850	2,049.853	27.828	70.355	30.022	2.78544	1.32585	9.85395
3,296.993	20.530	84.780	3,285.544	2,135.546	32.363	97.334	45.876	7.01631	6.13335	11.31113
3,385.993	24.610	82.970	3,367.711	2,217.713	36.053	131.282	67.253	4.64974	4.58428	-2.03371
3,475.993	25.330	76.560	3,449.313	2,299.315	42.822	168.614	88.841	3.10969	0.80000	-7.12224
3,564.993	29.270	71.550	3,528.395	2,378.397	54.139	207.790	108.516	5.12137	4.42698	-5.62922
3,654.993	32.650	73.890	3,605.563	2,455.566	67.843	252.000	130.057	3.98601	3.75556	2.60001
3,743.992	37.250	77.140	3,678.499	2,528.501	80.508	301.356	155.970	5.57426	5.16855	3.65169
3,833.992	43.840	77.930	3,746.852	2,596.855	93.102	358.454	187.405	7.34431	7.32224	0.87778
3,922.992	51.550	79.590	3,806.713	2,656.716	105.864	422.972	223.962	8.77150	8.66294	1.86517
4,012.992	57.400	80.570	3,858.986	2,708.989	118.454	495.095	266.016	6.56002	6.50001	1.08889
4,101.992	56.910	79.670	3,907.258	2,757.260	131.282	568.758	308.989	1.01237	-0.55056	-1.01124
4,191.991	56.060	79.330	3,956.951	2,806.954	144.955	642.537	351.446	0.99558	-0.94445	-0.37778
4,280.991	54.840	78.980	4,007.424	2,857.427	158.746	714.530	392.558	1.40853	-1.37079	-0.39326
4,370.991	53.490	78.660	4,060.114	2,910.116	172.891	786.107	433.126	1.52745	-1.50000	-0.35556
4,459.991	51.900	78.230	4,114.051	2,964.054	187.068	855.462	472.101	1.82738	-1.78652	-0.48315
4,549.991	50.130	78.320	4,170.670	3,020.672	201.284	923.958	510.440	1.96821	-1.96667	0.10000
4,638.991	49.910	79.070	4,227.854	3,077.857	214.654	990.831	548.232	0.69143	-0.24719	0.84270



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4,728.990	54.240	80.680	4,283.160	3,133.162	227.101	1,060.703	588.796	5.01352	4.81112	1.78889
4,817.990	53.200	80.940	4,335.823	3,185.826	238.561	1,131.527	630.732	1.19203	-1.16854	0.29214
4,907.990	53.500	78.380	4,389.552	3,239.554	251.522	1,202.550	671.745	2.30624	0.33333	-2.84445
4,996.990	53.840	76.460	4,442.282	3,292.284	267.140	1,272.523	710.136	1.77942	0.38202	-2.15731
5,085.990	52.070	77.180	4,495.897	3,345.900	283.341	1,341.683	747.541	2.09094	-1.98877	0.80899
5,175.989	50.270	77.140	4,552.326	3,402.328	298.921	1,410.038	784.816	2.00030	-2.00000	-0.04444
5,264.989	47.910	77.180	4,610.605	3,460.608	313.868	1,475.612	820.575	2.65191	-2.65169	0.04494
5,353.989	45.310	73.660	4,671.750	3,521.752	330.101	1,538.191	853.306	4.09737	-2.92135	-3.95506
5,443.989	46.480	71.060	4,734.392	3,584.394	349.695	1,599.762	882.948	2.44791	1.30000	-2.88889
5,532.989	44.620	69.270	4,796.717	3,646.719	371.235	1,659.524	909.934	2.53540	-2.08989	-2.01124
5,622.988	50.610	72.090	4,857.366	3,707.368	393.141	1,722.243	938.750	7.04524	6.65557	3.13334
5,711.988	56.050	73.720	4,910.499	3,760.502	414.082	1,790.456	972.131	6.28607	6.11237	1.83146
5,800.988	60.190	77.990	4,957.509	3,807.512	432.478	1,863.712	1,010.877	6.18210	4.65169	4.79776
5,890.988	59.800	78.750	5,002.516	3,852.519	448.191	1,940.049	1,053.699	0.85002	-0.43333	0.84445
5,980.988	58.750	79.310	5,048.499	3,898.501	462.915	2,016.000	1,096.947	1.28343	-1.16667	0.62222
6,069.988	56.390	76.740	5,096.229	3,946.231	478.476	2,089.475	1,137.853	3.60136	-2.65169	-2.88765
6,159.987	52.550	74.190	5,148.526	3,998.528	496.814	2,160.360	1,174.964	4.84932	-4.26668	-2.83334
6,248.987	48.130	73.030	5,205.316	4,055.318	516.121	2,226.080	1,207.740	5.06650	-4.96630	-1.30337
6,338.987	46.990	73.180	5,266.048	4,116.050	535.424	2,289.630	1,238.986	1.27263	-1.26667	0.16667
6,427.987	47.850	78.150	5,326.287	4,176.289	551.621	2,353.090	1,272.366	4.22320	0.96629	5.58428
6,516.987	47.860	77.890	5,386.007	4,236.009	565.318	2,417.641	1,308.286	0.21689	0.01124	-0.29214
6,606.986	47.430	76.920	5,446.642	4,296.645	579.819	2,482.548	1,343.888	0.92877	-0.47778	-1.07778
6,696.986	49.370	76.910	5,506.393	4,356.395	595.055	2,548.099	1,379.425	2.15558	2.15556	-0.01111
6,785.986	48.250	77.320	5,565.003	4,415.006	609.992	2,613.386	1,414.988	1.30530	-1.25843	0.46068
6,875.986	52.560	71.510	5,622.381	4,472.383	628.710	2,680.090	1,448.875	6.90178	4.78890	-6.45557
6,965.986	53.800	70.610	5,676.318	4,526.320	652.099	2,748.232	1,480.475	1.59344	1.37778	-1.00000
7,054.986	52.160	70.460	5,729.902	4,579.905	675.776	2,815.228	1,511.060	1.84761	-1.84270	-0.16854
7,143.985	53.020	71.490	5,783.971	4,633.974	698.817	2,882.059	1,541.979	1.33368	0.96629	1.15731
7,233.985	56.530	73.110	5,835.876	4,685.879	721.143	2,952.091	1,575.666	4.16779	3.90001	1.80000
7,287.985	56.150	72.510	5,865.807	4,715.809	734.426	2,995.029	1,596.607	1.16211	-0.70371	-1.11111
7,376.985	51.730	75.790	5,918.191	4,768.194	754.123	3,064.193	1,631.540	5.79034	-4.96630	3.68540
7,466.985	51.890	84.390	5,973.900	4,823.902	766.270	3,133.759	1,672.100	7.50974	0.17778	9.55557
7,556.985	52.240	97.540	6,029.380	4,879.383	765.060	3,204.458	1,722.913	11.52086	0.38889	14.61114
7,645.984	55.700	109.580	6,081.849	4,931.851	748.078	3,274.159	1,784.180	11.59988	3.88765	13.52812
7,734.984	59.740	115.460	6,129.400	4,979.402	719.206	3,343.571	1,853.657	7.19507	4.53934	6.60675
7,824.984	60.270	115.200	6,174.393	5,024.395	685.858	3,414.023	1,927.036	0.63984	0.58889	-0.28889
7,914.984	63.130	117.650	6,217.061	5,067.064	650.580	3,484.961	2,002.124	3.98005	3.17778	2.72223
8,003.984	68.370	123.920	6,253.633	5,103.635	609.012	3,554.556	2,080.714	8.71036	5.88765	7.04496
8,093.983	72.100	130.110	6,284.088	5,134.091	558.018	3,622.101	2,164.525	7.68413	4.14445	6.87779
Top of Marcellus@6301' TVD										
8,153.024	74.814	132.407	6,300.900	5,150.902	520.696	3,664.634	2,220.989	5.91943	4.59666	3.89120
8,182.983	76.200	133.550	6,308.397	5,158.400	500.922	3,685.854	2,249.975	5.91943	4.62664	3.81389



EQT
Survey Report

Database:	EDM_Definitive	Local Co-ordinate Reference:	Well M09H - Slot M09H
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:	M09H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Hines M09H 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	80.160	138.450	6,326.840	5,176.842	437.569	3,746.995	2,338.007	6.90977	4.40001	5.44446
8,361.983	85.810	145.770	6,337.720	5,187.722	367.912	3,801.158	2,425.568	10.33831	6.34833	8.22474
8,451.983	87.780	150.240	6,342.754	5,192.756	291.725	3,848.752	2,513.109	5.42029	2.18889	4.96668
LP=8452' MD/ 6343' TVD										
8,452.000	87.780	150.240	6,342.754	5,192.757	291.710	3,848.760	2,513.126	0.00000	0.00000	0.00000
8,541.983	88.430	153.330	6,345.730	5,195.733	212.472	3,891.273	2,599.235	3.50728	0.72236	3.43399
8,630.982	88.520	154.350	6,348.099	5,198.101	132.618	3,930.497	2,683.456	1.15012	0.10112	1.14607
8,720.982	89.450	154.270	6,349.693	5,199.696	51.528	3,969.505	2,768.400	1.03715	1.03334	-0.08889
8,810.982	89.540	152.150	6,350.487	5,200.489	-28.804	4,010.066	2,853.904	2.35759	0.10000	-2.35556
8,899.982	88.770	152.010	6,351.799	5,201.802	-107.435	4,051.735	2,938.987	0.87935	-0.86517	-0.15730
8,989.982	88.180	154.960	6,354.195	5,204.197	-187.930	4,091.895	3,024.324	3.34154	-0.65556	3.27778
9,079.981	88.280	159.140	6,356.976	5,206.978	-270.748	4,126.964	3,107.707	4.64357	0.11111	4.64445
9,168.981	87.780	162.700	6,360.036	5,210.039	-354.795	4,156.035	3,187.721	4.03691	-0.56180	4.00001
9,258.981	89.540	160.480	6,362.141	5,212.144	-440.157	4,184.448	3,268.201	3.14720	1.95556	-2.46667
9,348.981	90.950	156.680	6,361.756	5,211.759	-523.922	4,217.309	3,350.693	4.50338	1.56667	-4.22223
9,437.981	90.710	153.160	6,360.467	5,210.469	-604.509	4,255.025	3,434.368	3.96383	-0.26966	-3.95506
9,527.980	88.680	149.510	6,360.946	5,210.948	-683.460	4,298.186	3,520.732	4.64036	-2.25556	-4.05556
9,616.980	89.480	151.310	6,362.375	5,212.377	-760.839	4,342.125	3,606.534	2.21298	0.89888	2.02248
9,706.980	90.000	148.950	6,362.783	5,212.786	-838.876	4,386.945	3,693.423	2.68509	0.57778	-2.62223
9,795.980	88.610	145.630	6,363.863	5,213.866	-913.745	4,435.027	3,780.376	4.04376	-1.56180	-3.73034
9,884.980	88.650	146.680	6,365.991	5,215.994	-987.641	4,484.581	3,867.681	1.18030	0.04494	1.17978
9,974.980	89.450	151.350	6,367.484	5,217.487	-1,064.766	4,530.894	3,954.980	5.26374	0.88889	5.18890
10,063.979	89.420	151.970	6,368.362	5,218.364	-1,143.094	4,573.140	4,040.257	0.69741	-0.03371	0.69663
10,153.979	89.450	151.630	6,369.249	5,219.252	-1,222.408	4,615.667	4,126.430	0.37923	0.03333	-0.37778
10,242.979	89.910	151.950	6,369.746	5,219.749	-1,300.835	4,657.737	4,211.653	0.62961	0.51685	0.35955
10,332.979	89.970	153.070	6,369.841	5,219.843	-1,380.671	4,699.280	4,297.500	1.24623	0.06667	1.24445
10,421.979	89.880	153.630	6,369.957	5,219.960	-1,460.216	4,739.200	4,381.994	0.63729	-0.10112	0.62921
10,510.978	90.920	152.700	6,369.336	5,219.338	-1,539.627	4,779.374	4,466.574	1.56758	1.16854	-1.04495
10,600.979	90.030	150.190	6,368.590	5,218.592	-1,618.670	4,822.389	4,552.899	2.95891	-0.98889	-2.78889
10,689.979	89.480	151.120	6,368.970	5,218.973	-1,696.247	4,866.004	4,638.613	1.21399	-0.61798	1.04495
10,779.979	89.420	154.000	6,369.834	5,219.837	-1,776.110	4,907.471	4,724.425	3.20055	-0.06667	3.20001
10,868.979	89.260	159.480	6,370.860	5,220.863	-1,857.839	4,942.602	4,807.081	6.15953	-0.17978	6.15732
10,957.979	89.630	164.150	6,371.723	5,221.725	-1,942.366	4,970.368	4,886.513	5.26339	0.41573	5.24720
11,047.978	89.630	163.050	6,372.304	5,222.306	-2,028.701	4,995.778	4,965.559	1.22220	0.00000	-1.22222
11,136.978	89.630	163.050	6,372.879	5,222.881	-2,113.833	5,021.724	5,044.133	0.00000	0.00000	0.00000



EQT
Survey Report

Database:	EDM_Definitive	Local Co-ordinate Reference:	Well M09H - Slot M09H
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:	M09H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Hines M09H 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)
11,226.978	89.850	158.770	6,373.287	5,223.290	-2,198.863	5,051.152	5,125.095	4.76179	0.24444	-4.75557
11,315.978	89.630	154.010	6,373.691	5,223.694	-2,280.388	5,086.786	5,207.963	5.35398	-0.24719	-5.34833
11,405.978	89.010	149.830	6,374.760	5,224.762	-2,359.771	5,129.137	5,294.060	4.69492	-0.68889	-4.64445
11,494.977	88.830	148.720	6,376.438	5,226.440	-2,436.263	5,174.600	5,380.310	1.26327	-0.20225	-1.24719
11,584.977	88.680	150.590	6,378.393	5,228.396	-2,513.911	5,220.055	5,467.374	2.08397	-0.16667	2.07778
11,673.977	88.490	155.590	6,380.592	5,230.595	-2,593.224	5,260.311	5,551.941	5.62033	-0.21348	5.61799
11,763.977	89.600	157.510	6,382.093	5,232.095	-2,675.774	5,296.119	5,635.657	2.46391	1.23334	2.13334
11,852.977	89.420	154.570	6,382.854	5,232.856	-2,757.093	5,332.256	5,718.733	3.30944	-0.20225	-3.30338
11,941.977	89.630	155.550	6,383.592	5,233.594	-2,837.790	5,369.783	5,802.352	1.12609	0.23596	1.10113
12,031.976	89.420	151.080	6,384.338	5,234.341	-2,918.180	5,410.189	5,887.788	4.97198	-0.23333	-4.96668
12,120.976	89.720	148.380	6,385.006	5,235.009	-2,995.036	5,455.046	5,973.868	3.05229	0.33708	-3.03371
12,210.976	89.570	145.000	6,385.564	5,235.566	-3,070.238	5,504.463	6,062.000	3.75919	-0.16667	-3.75556
12,299.976	88.740	148.920	6,386.877	5,236.879	-3,144.822	5,552.973	6,149.054	4.50164	-0.93259	4.40450
12,388.976	87.600	154.180	6,389.721	5,239.723	-3,223.004	5,595.335	6,234.310	6.04429	-1.28090	5.91012
12,478.975	89.450	158.300	6,392.039	5,242.041	-3,305.328	5,631.574	6,318.169	5.01655	2.05556	4.57779
12,567.975	89.660	156.150	6,392.730	5,242.732	-3,387.381	5,666.024	6,400.574	2.42716	0.23596	-2.41574
12,657.975	89.510	152.240	6,393.382	5,243.384	-3,468.388	5,705.193	6,485.572	4.34753	-0.16667	-4.34445
12,746.975	88.650	157.940	6,394.812	5,244.815	-3,549.064	5,742.659	6,569.133	6.47612	-0.96629	6.40451
12,835.975	89.380	161.840	6,396.343	5,246.345	-3,632.609	5,773.249	6,649.865	4.45747	0.82023	4.38203
12,925.975	89.850	158.980	6,396.948	5,246.950	-3,717.388	5,803.421	6,731.175	3.22033	0.52222	-3.17778
13,015.974	90.000	151.670	6,397.066	5,247.068	-3,799.115	5,840.967	6,815.536	8.12394	0.16667	-8.12224
13,104.974	90.340	148.340	6,396.802	5,246.804	-3,876.183	5,885.454	6,901.505	3.76101	0.38202	-3.74158
13,193.974	88.460	148.060	6,397.733	5,247.736	-3,951.816	5,932.348	6,988.159	2.13566	-2.11236	-0.31461
13,282.974	87.070	151.840	6,401.206	5,251.208	-4,028.778	5,976.874	7,074.080	4.52212	-1.56180	4.24720
13,372.974	89.350	158.160	6,404.019	5,254.022	-4,110.260	6,014.866	7,158.583	7.46156	2.53334	7.02224
13,461.973	89.260	165.770	6,405.101	5,255.103	-4,194.819	6,042.398	7,237.872	8.55055	-0.10112	8.55058
13,551.973	90.030	168.080	6,405.658	5,255.661	-4,282.477	6,062.756	7,314.285	2.70544	0.85556	2.56667
13,640.973	91.200	164.310	6,404.703	5,254.705	-4,368.884	6,083.987	7,390.430	4.43496	1.31461	-4.23596
13,729.973	89.660	159.370	6,404.034	5,254.037	-4,453.420	6,111.716	7,469.841	5.81372	-1.73034	-5.55057



EQT
Survey Report

Database:	EDM_Definitive	Local Co-ordinate Reference:	Well M09H - Slot M09H
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:	M09H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Hines M09H 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)	
13,819.973	88.980	158.070	6,405.102	5,255.105	-4,537.275	6,144.376	7,552.256	1.63002	-0.75556	-1.44445	
13,908.973	89.260	156.100	6,406.470	5,256.472	-4,619.237	6,179.024	7,634.735	2.23547	0.31461	-2.21349	
13,998.972	89.970	153.160	6,407.074	5,257.077	-4,700.546	6,217.580	7,719.514	3.36049	0.78889	-3.26667	
14,087.972	88.860	149.460	6,407.983	5,257.986	-4,778.601	6,260.296	7,804.930	4.34009	-1.24719	-4.15731	
14,176.972	88.710	146.030	6,409.871	5,259.873	-4,853.838	6,307.776	7,891.718	3.85676	-0.16854	-3.85394	
14,266.972	88.580	145.830	6,411.999	5,262.002	-4,928.369	6,358.180	7,980.072	0.26499	-0.14444	-0.22222	
14,355.972	88.890	151.340	6,413.966	5,263.968	-5,004.275	6,404.541	8,066.543	6.19930	0.34832	6.19102	
14,445.971	88.950	152.940	6,415.662	5,265.664	-5,083.826	6,446.590	8,152.546	1.77872	0.06667	1.77778	
14,534.971	89.750	148.240	6,416.672	5,266.675	-5,161.329	6,490.279	8,238.258	5.35649	0.89888	-5.28091	
14,624.971	88.830	142.920	6,417.788	5,267.791	-5,235.538	6,541.128	8,326.700	5.99835	-1.02222	-5.91112	
14,714.971	88.890	143.770	6,419.579	5,269.581	-5,307.725	6,594.847	8,415.738	0.94661	0.06667	0.94445	
14,803.971	88.610	146.670	6,421.521	5,271.523	-5,380.800	6,645.597	8,503.307	3.27281	-0.31461	3.25843	
14,892.971	88.120	149.090	6,424.061	5,274.063	-5,456.140	6,692.895	8,590.039	2.77319	-0.55056	2.71911	
14,982.970	89.230	153.470	6,426.143	5,276.145	-5,535.027	6,736.119	8,676.403	5.01919	1.23334	4.86668	
15,071.970	89.290	156.160	6,427.292	5,277.295	-5,615.552	6,773.986	8,760.140	3.02298	0.06742	3.02248	
15,160.970	89.540	158.110	6,428.201	5,278.204	-5,697.550	6,808.564	8,842.596	2.20883	0.28090	2.19102	
15,250.970	89.380	157.720	6,429.049	5,279.052	-5,780.943	6,842.401	8,925.514	0.46837	-0.17778	-0.43333	
15,339.970	89.420	154.530	6,429.982	5,279.984	-5,862.312	6,878.416	9,008.541	3.58436	0.04494	-3.58428	
15,429.969	88.980	152.930	6,431.238	5,281.241	-5,943.006	6,918.245	9,093.783	1.84361	-0.48889	-1.77778	
15,518.969	88.950	154.930	6,432.846	5,282.848	-6,022.934	6,957.349	9,177.972	2.24708	-0.03371	2.24720	
15,608.969	88.430	158.450	6,434.904	5,284.907	-6,105.552	6,992.948	9,261.588	3.95254	-0.57778	3.91112	
15,697.969	89.110	160.860	6,436.815	5,286.817	-6,188.974	7,023.881	9,342.476	2.81298	0.76405	2.70787	
15,786.969	89.170	161.040	6,438.151	5,288.153	-6,273.090	7,052.926	9,422.521	0.21317	0.06742	0.20225	
15,875.968	89.970	161.120	6,438.819	5,288.821	-6,357.279	7,081.783	9,502.484	0.90336	0.89888	0.08989	
15,965.968	89.450	158.930	6,439.274	5,289.277	-6,441.858	7,112.526	9,584.056	2.50095	-0.57778	-2.43334	



EQT
Survey Report

Database:	EDM_Definitive	Local Co-ordinate Reference:	Well M09H - Slot M09H
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:	M09H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Hines M09H 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)
16,054.968	90.150	157.720	6,439.585	5,289.587	-6,524.562	7,145.396	9,665.805	1.57065	0.78652	-1.35955
16,144.968	89.600	155.140	6,439.781	5,289.784	-6,607.046	7,181.381	9,749.598	2.93107	-0.61111	-2.86667
16,233.968	89.480	151.920	6,440.496	5,290.498	-6,686.703	7,221.044	9,833.990	3.62038	-0.13483	-3.61798
16,323.968	89.630	150.180	6,441.195	5,291.198	-6,765.451	7,264.605	9,920.494	1.94045	0.16667	-1.93334
16,412.967	89.510	150.490	6,441.863	5,291.865	-6,842.784	7,308.653	10,006.339	0.37349	-0.13483	0.34832
16,502.967	89.450	151.160	6,442.680	5,292.682	-6,921.362	7,352.523	10,092.941	0.74739	-0.06667	0.74445
16,591.967	89.450	152.030	6,443.534	5,293.537	-6,999.642	7,394.858	10,178.247	0.97749	0.00000	0.97753
16,681.967	89.420	152.950	6,444.422	5,294.424	-7,079.461	7,436.427	10,264.100	1.02272	-0.03333	1.02222
16,770.967	89.780	152.520	6,445.043	5,295.045	-7,158.571	7,477.197	10,348.888	0.63011	0.40450	-0.48315
16,859.966	89.450	151.250	6,445.641	5,295.643	-7,237.065	7,519.136	10,434.065	1.47432	-0.37079	-1.42697
16,949.966	89.510	152.350	6,446.458	5,296.460	-7,316.378	7,561.663	10,520.237	1.22399	0.06667	1.22222
17,038.966	89.510	150.120	6,447.219	5,297.222	-7,394.388	7,604.487	10,605.698	2.50553	0.00000	-2.50562
17,127.966	89.320	151.690	6,448.128	5,298.130	-7,472.150	7,647.761	10,691.301	1.77683	-0.21348	1.76405
17,217.966	88.800	156.400	6,449.605	5,299.608	-7,553.039	7,687.134	10,776.360	5.26442	-0.57778	5.23334
17,306.966	89.600	163.290	6,450.849	5,300.852	-7,636.529	7,717.778	10,857.092	7.79279	0.89888	7.74159
Final Survey=17387' MD/ 6452' TVD										
17,396.965	89.510	163.540	6,451.548	5,301.551	-7,722.782	7,743.466	10,936.277	0.29522	-0.10000	0.27778
Projection to TD/ Deepest Point of Well=17444' MD/ 6452' TVD										
17,443.965	89.510	163.540	6,451.950	5,301.953	-7,767.854	7,756.783	10,977.580	0.00000	0.00000	0.00000



EQT
Survey Report

Database:	EDM_Definitive	Local Co-ordinate Reference:	Well M09H - Slot M09H
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:	M09H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Hines M09H As Drilled		

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (-1.434)	+E/-W (15.420)	Northing (usft)	Easting (usft)	Latitude	Longitude
Hines 9H KOP - hit/miss target - Shape	0.000	0.000	2,848.46 2	-1.434	15.420	514,419.273	1,632,099.226	39.9061700	80.6991850°W
- actual wellpath misses target center by 0.458usft at 2849.000usft MD (2848.464 TVD, -1.775 N, 15.726 E)									
- Point									
Hines 9H LP - actual wellpath misses target center by 0.097usft at 8451.549usft MD (6342.737 TVD, 292.101 N, 3848.537 E)	0.000	0.000	6,342.75 3	292.052	3,848.455	514,661.566	1,635,935.837	39.9069749	80.6855214°W
- Point									
Hines 9H BHL - actual wellpath misses target center by 0.196usft at 17443.551usft MD (6451.947 TVD, -7767.458 N, 7756.666 E)	0.000	0.000	6,451.94 9	-7,767.513	7,756.478	506,550.553	1,639,735.927	39.8848467	80.6715994°W
- Point									

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
8,153.024	6,300.900	Top of Marcellus@6301' TVD		0.0000	

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,849.000	2,848.464	-1.775	15.726	KOP=2849' MD/ 2848' TVD
8,452.000	6,342.754	291.710	3,848.760	LP=8452' MD/ 6343' TVD
17,396.965	6,451.548	-7,722.782	7,743.466	Final Survey=17397' MD/ 6452' TVD
17,443.965	6,451.950	-7,767.854	7,756.783	Projection to TD/ Deepest Point of Well=17444' MD/ 6452' TVD

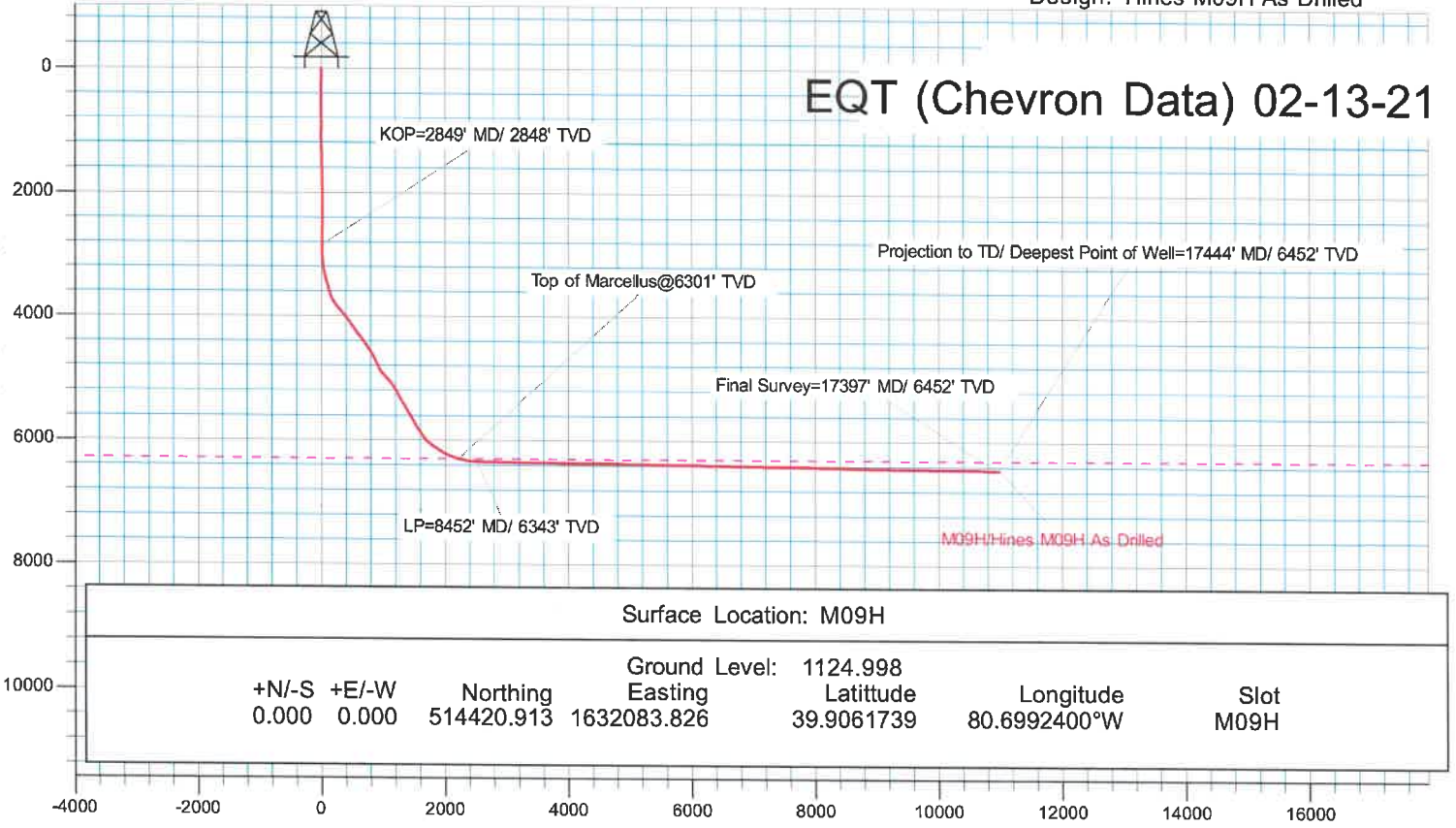
Checked By: _____ Approved By: _____ Date: _____



KB Elevation= GL at 1125.00' & 25' KB @ 1149.998usft Site: Hines Pad EQT
 Ground Elevation= 1124.998
 All measurements were taken from KB Elevation

Project: Hines Pad EQT
 Well: M09H
 Wellbore: OH
 Design: Hines M09H As Drilled

EQT (Chevron Data) 02-13-21



Vertical Section at 135.041° (3000 usft/in)

DESIGN TARGET DETAILS						
Name	TVD	Northing	Easting	Latitude	Longitude	
Hines 9H KOP	2848.462	514419.273	1632099.226	39.9061699	80.6991850°W	
Hines 9H LP	6342.753	514661.567	1635935.837	39.9069748	80.6855215°W	
Hines 9H BHL	6451.949	506550.553	1639735.927	39.8848466	80.6715994°W	

