



# **EQT (Chevron Data) 02-13-21**

**Marshall County, WV Chevron**

**Hines Pad EQT**

**M11H - Slot M11H**

**OH**

**Design: Hines M11H As Drilled**

## **Standard Survey Report**

**27 July, 2021**

**05/27/2022**



**EQT**  
Survey Report

Database:	EDM_Definitive	Local Co-ordinate Reference:	Well M11H - Slot M11H
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:	M11H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Hines M11H As Drilled		

**Project** Marshall County, WV Chevron

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

**Site** Hines Pad EQT

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

**Well** M11H - Slot M11H

<b>Well Position</b>	<b>+N/-S</b>	0.000 usft	<b>Northing:</b>	514,450.747 usft	<b>Latitude:</b>	39.9062559
	<b>+E/-W</b>	0.000 usft	<b>Easting:</b>	1,632,085.082 usft	<b>Longitude:</b>	80.6992369°W
<b>Position Uncertainty</b>		0.000 usft	<b>Wellhead Elevation:</b>	0.000 usft	<b>Ground Level:</b>	1,124.998 usft

**Wellbore** OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2000	12/31/2004	-8.4134	68.2444	53,878.84027067

**Design** Hines M11H As Drilled

**Audit Notes:**

<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.000
<b>Vertical Section:</b>		<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
		0.000	0.000	0.000	342.762

Survey Program		Date			
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	17,899.964	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	296.550	25.000	-1,124.998	0.000	0.000	0.000	0.00000	0.00000	0.00000
108.000	0.110	296.550	108.000	-1,041.998	0.036	-0.071	0.055	0.13253	0.13253	0.00000
133.000	0.270	292.810	133.000	-1,016.998	0.069	-0.147	0.110	0.64158	0.64000	-14.96003
158.000	0.280	283.300	157.999	-991.998	0.106	-0.261	0.179	0.18667	0.04000	-38.04008
183.000	0.110	252.280	182.999	-966.999	0.113	-0.343	0.209	0.77676	-0.68000	-124.0802



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Site:	Hines Pad EQT	North Reference:	True
Well:	M11H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Hines M11H 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)	
208.000	0.110	122.250	207.999	-941.999	0.093	-0.346	0.191	0.79765	0.00000	-520.12104	
233.000	0.090	196.710	232.999	-916.999	0.061	-0.331	0.156	0.48819	-0.08000	297.84059	
257.999	0.110	253.940	257.999	-891.999	0.036	-0.360	0.141	0.38952	0.08000	228.92045	
282.999	0.160	199.100	282.999	-866.999	-0.004	-0.394	0.113	0.52809	0.20000	-219.36043	
307.999	0.150	256.550	307.999	-841.999	-0.045	-0.437	0.087	0.59698	-0.04000	229.80046	
332.999	0.120	256.790	332.998	-816.999	-0.058	-0.495	0.091	0.12002	-0.12000	0.96000	
357.999	0.190	228.240	357.998	-791.999	-0.092	-0.551	0.076	0.40880	0.28000	-114.20023	
507.999	0.520	220.240	507.995	-642.003	-0.777	-1.176	-0.393	0.22193	0.22000	-5.33334	
538.999	0.520	220.910	538.994	-611.004	-0.991	-1.359	-0.543	0.01961	0.00000	2.16129	
569.999	0.530	199.890	569.992	-580.005	-1.232	-1.500	-0.732	0.61864	0.03226	-67.80659	
600.999	0.560	204.840	600.991	-549.007	-1.504	-1.613	-0.959	0.18001	0.09677	15.96777	
632.999	0.360	205.980	632.990	-517.008	-1.736	-1.722	-1.148	0.62562	-0.62500	3.56251	
663.999	0.440	191.410	663.989	-486.009	-1.941	-1.789	-1.323	0.41546	0.25807	-47.00010	
694.999	0.380	175.500	694.988	-455.010	-2.160	-1.804	-1.528	0.41323	-0.19355	-51.32268	
725.999	0.260	189.270	725.987	-424.010	-2.332	-1.807	-1.691	0.45710	-0.38710	44.41944	
756.998	0.090	151.220	756.987	-393.010	-2.422	-1.807	-1.778	0.63579	-0.54839	-122.74218	
787.998	0.160	57.160	787.987	-362.011	-2.420	-1.759	-1.790	0.60983	0.22581	-303.41996	
818.998	0.390	46.260	818.987	-331.011	-2.324	-1.646	-1.732	0.75756	0.74194	-35.16136	
850.998	0.440	27.950	850.986	-299.012	-2.140	-1.510	-1.596	0.44067	0.15625	-57.21887	
881.998	0.470	16.620	881.985	-268.013	-1.913	-1.418	-1.407	0.30535	0.09677	-36.54846	
912.998	0.580	29.630	912.983	-237.014	-1.655	-1.304	-1.194	0.52109	0.35484	41.96783	
943.998	0.780	34.030	943.981	-206.017	-1.344	-1.108	-0.955	0.66632	0.64516	14.19358	
974.998	0.580	62.790	974.979	-175.019	-1.097	-0.851	-0.796	1.25603	-0.64516	92.77438	
1,005.998	0.800	357.410	1,005.977	-144.021	-0.809	-0.721	-0.559	2.47733	0.70968	-210.90364	
1,037.998	0.840	37.850	1,037.974	-112.024	-0.401	-0.587	-0.209	1.77516	0.12500	126.37526	
1,068.998	1.110	36.060	1,068.969	-81.028	0.021	-0.271	0.101	0.87639	0.87097	-5.77421	
1,099.998	0.900	31.790	1,099.965	-50.033	0.471	0.034	0.440	0.71875	-0.67742	-13.77422	
1,130.998	1.070	38.180	1,130.960	-19.038	0.906	0.341	0.764	0.65210	0.54839	20.61294	
1,162.998	0.670	36.730	1,162.956	12.958	1.290	0.638	1.043	1.25179	-1.25000	-4.53126	
1,193.998	0.680	37.350	1,193.954	43.956	1.582	0.858	1.257	0.03995	0.03226	2.00000	
1,224.997	0.450	7.270	1,224.952	74.955	1.849	0.985	1.474	1.18663	-0.74194	-97.03245	
1,255.997	0.360	338.600	1,255.951	105.954	2.060	0.965	1.682	0.70543	-0.29032	-92.48406	
1,286.997	0.240	348.950	1,286.951	136.953	2.215	0.917	1.844	0.42320	-0.38710	33.38716	
1,318.997	0.360	278.140	1,318.951	168.953	2.295	0.804	1.953	1.12847	0.37500	-221.28169	
1,349.997	0.640	275.010	1,349.949	199.952	2.324	0.536	2.061	0.90718	0.90323	-10.09679	
1,380.997	0.300	275.350	1,380.948	230.951	2.346	0.282	2.157	1.09681	-1.09678	1.09678	
1,411.997	0.630	251.540	1,411.947	261.949	2.300	0.040	2.185	1.21160	1.06452	-76.80661	
1,443.997	0.560	231.290	1,443.945	293.948	2.146	-0.249	2.124	0.68829	-0.21875	-63.28138	



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Survey Report

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Site:	Hines Pad EQT	North Reference:	True
Well:	M11H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Hines M11H 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)
1,474.997	0.710	231.640	1,474.943	324.946	1.933	-0.518	1.999	0.48403	0.48387	1.12903
1,505.997	0.560	226.530	1,505.941	355.944	1.709	-0.779	1.863	0.51674	-0.48387	-16.48390
1,536.997	0.480	243.120	1,536.940	386.942	1.546	-1.004	1.774	0.54723	-0.25807	53.51624
1,567.997	0.300	165.540	1,567.939	417.942	1.409	-1.100	1.672	1.63996	-0.58065	-250.25856
1,599.997	0.290	104.480	1,599.939	449.941	1.308	-1.000	1.545	0.93699	-0.03125	-190.81289
1,630.997	0.550	91.340	1,630.938	480.940	1.284	-0.776	1.457	0.88901	0.83871	-42.38718
1,661.997	0.680	93.780	1,661.936	511.939	1.269	-0.443	1.343	0.42769	0.41936	7.87098
1,692.997	0.640	104.860	1,692.934	542.936	1.212	-0.093	1.185	0.43066	-0.12903	35.74201
1,724.996	0.640	92.210	1,724.932	574.934	1.160	0.259	1.031	0.44066	0.00000	-39.53133
1,755.996	0.550	91.960	1,755.930	605.933	1.148	0.580	0.924	0.29044	-0.29032	-0.80645
1,786.996	0.660	88.040	1,786.929	636.931	1.149	0.908	0.828	0.37893	0.35484	-12.64519
1,818.996	0.190	88.230	1,818.927	668.930	1.157	1.145	0.766	1.46876	-1.46875	0.59375
1,849.996	0.040	23.630	1,849.927	699.930	1.168	1.201	0.760	0.56961	-0.48387	-208.38751
1,880.996	0.190	350.330	1,880.927	730.930	1.229	1.196	0.819	0.51000	0.48387	-107.41957
1,911.996	0.300	20.760	1,911.927	761.929	1.355	1.216	0.934	0.53789	0.35484	98.16149
1,943.996	0.300	20.080	1,943.926	793.929	1.512	1.275	1.067	0.01113	0.00000	-2.12500
1,974.996	0.310	34.480	1,974.926	824.928	1.658	1.350	1.183	0.24869	0.03226	46.45171
<b>KOP=2096' MD</b>										
2,096.000	1.546	69.676	2,095.912	945.915	2.495	3.066	1.474	1.07836	1.02137	29.08650
2,184.996	2.500	72.690	2,184.851	1,034.854	3.489	6.045	1.541	1.07836	1.07208	3.38689
2,274.995	4.530	60.230	2,274.678	1,124.681	5.838	11.005	2.315	2.39696	2.25556	-13.84447
2,363.995	7.070	55.140	2,363.216	1,213.218	10.715	18.551	4.736	2.90909	2.85394	-5.71911
2,453.995	9.920	56.500	2,452.219	1,302.222	18.161	29.563	8.584	3.17431	3.16667	1.51111
2,542.995	12.770	63.800	2,539.475	1,389.478	26.737	44.785	12.264	3.57966	3.20225	8.20226
2,631.995	16.490	67.510	2,625.576	1,475.579	35.915	65.288	14.954	4.30828	4.17978	4.16855
2,721.994	20.240	72.230	2,710.982	1,560.984	45.556	91.926	16.268	4.47913	4.16668	5.24446
2,810.994	24.630	74.930	2,793.228	1,643.230	55.081	124.511	15.709	5.06542	4.93259	3.03371
2,900.994	27.400	73.110	2,874.102	1,724.104	65.976	162.444	14.874	3.20270	3.07778	-2.02223
2,990.994	29.450	72.270	2,953.248	1,803.250	78.732	203.338	14.938	2.32065	2.27778	-0.93334
3,079.994	29.070	70.780	3,030.893	1,880.895	92.513	244.595	15.874	0.92295	-0.42697	-1.67416
3,169.994	31.450	70.770	3,108.625	1,958.627	107.446	287.416	17.447	2.64446	2.64445	-0.01111
3,258.993	33.960	70.150	3,183.509	2,033.511	123.536	332.727	19.387	2.84520	2.82023	-0.69663
3,348.993	37.330	68.610	3,256.638	2,106.640	142.030	381.795	22.509	3.87470	3.74445	-1.71111
3,437.993	40.970	66.140	3,325.649	2,175.652	163.683	433.625	27.830	4.44875	4.08990	-2.77529
3,527.993	43.900	62.720	3,392.075	2,242.077	189.928	488.360	36.676	4.14313	3.25556	-3.80001
3,616.993	46.350	60.920	3,454.867	2,304.870	219.726	543.935	48.667	3.10335	2.75281	-2.02248
3,706.992	48.400	59.390	3,515.814	2,365.816	252.691	601.361	63.133	2.59852	2.27778	-1.70000
3,795.992	49.580	58.580	3,574.214	2,424.216	287.298	658.914	79.130	1.49314	1.32585	-0.91011
3,885.992	49.620	59.180	3,632.545	2,482.547	322.720	717.588	95.574	0.50963	0.04444	0.66667
3,974.992	49.650	61.240	3,690.190	2,540.192	356.407	776.433	110.310	1.76386	0.03371	2.31461



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Wellbore:	OH		
Design:	Hines M11H Aa 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)
4,064.992	49.670	64.130	3,748.456	2,598.458	387.880	837.372	122.310	2.44756	0.02222	3.21112
4,153.991	49.620	66.730	3,806.091	2,656.093	416.077	899.043	130.965	2.22684	-0.05618	2.92135
4,243.991	49.590	68.950	3,864.420	2,714.422	441.928	962.516	136.846	1.87885	-0.03333	2.46667
4,332.991	50.630	69.910	3,921.497	2,771.499	465.916	1,026.449	140.810	1.43192	1.16854	1.07865
4,422.991	50.580	69.150	3,978.617	2,828.619	490.239	1,091.607	144.731	0.65494	-0.05556	-0.84445
4,511.991	50.590	67.580	4,035.128	2,885.130	515.588	1,155.518	150.003	1.36288	0.01124	-1.76405
4,600.991	50.630	66.300	4,091.608	2,941.611	542.529	1,218.803	156.980	1.11241	0.04494	-1.43821
4,690.990	50.550	65.020	4,148.747	2,998.750	571.187	1,282.156	165.577	1.10242	-0.08889	-1.42223
4,779.990	50.830	63.700	4,205.132	3,055.134	600.985	1,344.233	175.640	1.18989	0.31461	-1.48315
4,868.990	50.980	62.970	4,261.256	3,111.258	631.983	1,405.959	186.954	0.65851	0.16854	-0.82023
4,957.990	50.940	62.190	4,317.314	3,167.317	663.816	1,467.319	199.173	0.68219	-0.04494	-0.87641
5,047.990	50.940	62.350	4,374.026	3,224.029	696.333	1,529.177	211.899	0.13804	0.00000	0.17778
5,136.989	50.980	63.570	4,430.085	3,280.088	727.758	1,590.745	223.667	1.06564	0.04494	1.37079
5,226.989	50.990	63.420	4,486.742	3,336.745	758.965	1,653.323	234.928	0.12997	0.01111	-0.16667
5,315.989	50.950	62.680	4,542.788	3,392.791	790.298	1,714.951	246.591	0.64745	-0.04494	-0.83146
5,405.989	50.870	62.690	4,599.537	3,449.539	822.353	1,777.016	258.813	0.08931	-0.08889	0.01111
5,495.989	50.830	62.390	4,656.359	3,506.361	854.537	1,838.947	271.199	0.26229	-0.04444	-0.33333
5,584.989	50.830	62.440	4,712.573	3,562.575	886.488	1,900.103	283.592	0.04355	0.00000	0.05618
5,674.988	50.910	63.060	4,769.371	3,619.373	918.454	1,962.168	295.730	0.54172	0.08889	0.68889
5,763.988	50.900	64.160	4,825.496	3,675.498	949.154	2,024.041	306.716	0.95929	-0.01124	1.23596
5,852.988	50.830	66.030	4,881.671	3,731.673	978.224	2,086.650	315.926	1.63163	-0.07865	2.10113
5,942.988	50.900	67.200	4,938.475	3,788.478	1,005.930	2,150.724	323.401	1.01135	0.07778	1.30000
6,031.988	50.900	68.420	4,994.607	3,844.609	1,032.015	2,214.674	329.363	1.06379	0.00000	1.37079
6,121.987	50.860	69.520	5,051.393	3,901.395	1,057.071	2,279.845	333.980	0.94927	-0.04444	1.22222
6,210.987	50.860	69.500	5,107.571	3,957.573	1,081.234	2,344.507	337.896	0.01743	0.00000	-0.02247
6,300.987	50.870	68.500	5,164.375	4,014.378	1,106.251	2,409.678	342.477	0.86191	0.01111	-1.11111
6,390.987	50.800	66.940	5,221.217	4,071.220	1,132.705	2,474.245	348.609	1.34614	-0.07778	-1.73334
6,480.987	50.840	65.300	5,278.078	4,128.080	1,160.946	2,538.033	356.678	1.41321	0.04444	-1.82223
6,569.987	50.830	63.650	5,334.288	4,184.291	1,190.678	2,600.299	366.623	1.43744	-0.01124	-1.85394
6,658.986	50.860	62.010	5,390.487	4,240.489	1,222.191	2,661.694	378.526	1.42928	0.03371	-1.84270
6,747.986	50.990	60.590	5,446.589	4,296.591	1,255.370	2,722.295	392.256	1.24720	0.14607	-1.59551
6,837.986	50.980	59.790	5,503.246	4,353.249	1,290.132	2,782.969	407.477	0.69074	-0.01111	-0.88889
6,926.986	50.960	59.640	5,559.292	4,409.294	1,324.998	2,842.670	423.085	0.13284	-0.02247	-0.16854
7,015.986	51.030	59.920	5,615.307	4,465.310	1,359.808	2,902.432	438.621	0.25682	0.07865	0.31461
7,105.985	51.060	55.330	5,671.909	4,521.912	1,397.266	2,961.512	456.889	3.96569	0.03333	-5.10001
7,194.985	51.070	48.100	5,727.885	4,577.888	1,440.108	3,015.788	481.722	6.31738	0.01124	-8.12361
7,284.985	51.030	39.850	5,784.522	4,634.524	1,490.398	3,064.313	515.374	7.12659	-0.04444	-9.16669
7,374.985	51.190	32.200	5,841.077	4,691.080	1,546.981	3,105.454	557.224	6.61646	0.17778	-8.50002
7,463.985	53.020	23.260	5,895.809	4,745.812	1,609.066	3,138.014	606.871	8.18534	2.05618	-10.04496
7,553.985	54.570	14.190	5,949.041	4,799.043	1,677.738	3,161.231	665.579	8.30870	1.72223	-10.07780
7,642.984	58.750	5.780	5,998.006	4,848.008	1,750.866	3,173.973	731.645	9.18047	4.69664	-9.44946
7,732.984	62.330	358.150	6,042.312	4,892.314	1,829.087	3,176.564	805.585	8.38193	3.97779	-8.47779



EQT  
Survey Report

Database:	EDM_Definitive	Local Co-ordinate Reference:	Well M11H - Slot M11H
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:	M11H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Hines M11H 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)
7,821.984	65.430	351.200	6,081.528	4,931.530	1,908.569	3,169.091	883.712	7.82695	3.48315	-7.80900
7,911.984	65.400	348.240	6,118.979	4,968.981	1,989.084	3,154.489	964.938	2.99087	-0.03333	-3.28890
8,000.984	65.370	345.410	6,156.055	5,006.057	2,067.856	3,136.049	1,045.635	2.89097	-0.03371	-3.17978
8,090.983	65.470	343.920	6,193.493	5,043.496	2,146.783	3,114.405	1,127.431	1.50962	0.11111	-1.65556
8,180.983	68.680	341.470	6,228.551	5,078.553	2,225.898	3,089.734	1,210.303	4.35943	3.56667	-2.72223
<b>Top of Marcellus@6272' TVD</b>										
8,193.246	69.199	341.064	6,232.957	5,082.960	2,236.735	3,086.059	1,221.743	5.24475	4.23559	-3.31450
8,269.983	72.470	338.580	6,258.150	5,108.152	2,304.749	3,061.047	1,294.114	5.24475	4.26209	-3.23644
8,359.983	76.930	336.510	6,281.895	5,131.897	2,384.946	3,027.884	1,380.536	5.42920	4.95557	-2.30000
8,448.983	81.880	335.380	6,298.254	5,148.256	2,464.802	2,992.231	1,467.370	5.70002	5.56181	-1.26967
8,538.983	85.570	328.830	6,308.100	5,158.102	2,543.801	2,950.391	1,555.221	8.31409	4.10001	-7.27779
8,627.982	89.750	322.960	6,311.736	5,161.739	2,617.380	2,900.557	1,640.262	8.09119	4.69664	-6.59552
<b>LP=8628' MD/ 6312' TVD</b>										
8,628.000	89.750	322.960	6,311.736	5,161.739	2,617.394	2,900.546	1,640.279	0.00000	0.00000	0.00000
8,717.982	90.980	320.960	6,311.163	5,161.165	2,688.256	2,845.103	1,724.388	2.60927	1.36693	-2.22265
8,807.982	91.050	317.310	6,309.568	5,159.570	2,756.296	2,786.237	1,806.816	4.05567	0.07778	-4.05556
8,896.982	90.770	314.250	6,308.154	5,158.157	2,820.064	2,724.182	1,886.109	3.45214	-0.31461	-3.43821
8,986.982	90.310	315.070	6,307.306	5,157.308	2,883.321	2,660.170	1,965.494	1.04465	-0.51111	0.91111
9,076.981	90.280	318.120	6,306.842	5,156.845	2,948.699	2,598.335	2,046.259	3.38901	-0.03333	3.38890
9,165.981	90.490	320.460	6,306.244	5,156.247	3,016.156	2,540.292	2,127.887	2.63972	0.23596	2.62922
9,255.981	90.430	319.410	6,305.522	5,155.524	3,085.031	2,482.365	2,210.835	1.16853	-0.06667	-1.16667
9,345.981	90.460	318.750	6,304.823	5,154.825	3,153.035	2,423.417	2,293.252	0.73407	0.03333	-0.73333
9,435.981	90.460	319.200	6,304.100	5,154.103	3,220.930	2,364.344	2,375.604	0.49998	0.00000	0.50000
9,524.980	90.250	317.940	6,303.549	5,153.551	3,287.657	2,305.455	2,456.784	1.43523	-0.23596	-1.41573
9,613.980	90.150	318.530	6,303.238	5,153.240	3,354.039	2,246.175	2,537.752	0.67237	-0.11236	0.66292
9,703.980	90.150	316.450	6,303.002	5,153.005	3,420.380	2,185.364	2,619.134	2.31111	0.00000	-2.31112
9,792.980	90.120	316.650	6,302.793	5,152.795	3,484.991	2,124.157	2,698.981	0.22723	-0.03371	0.22472
9,881.980	90.180	316.710	6,302.560	5,152.562	3,549.741	2,063.097	2,778.917	0.09534	0.06742	0.06742
9,971.980	90.400	319.560	6,302.104	5,152.106	3,616.758	2,003.040	2,860.721	3.17605	0.24444	3.16667
10,060.979	90.090	319.110	6,301.724	5,151.726	3,684.266	1,945.045	2,942.383	0.61398	-0.34832	-0.50562
10,150.979	89.750	321.270	6,301.849	5,151.852	3,753.398	1,887.427	3,025.484	2.42955	-0.37778	2.40000
10,239.979	90.710	326.820	6,301.492	5,151.494	3,825.411	1,835.192	3,109.742	6.32845	1.07865	6.23597
10,329.979	90.520	328.550	6,300.526	5,150.528	3,901.465	1,787.085	3,196.635	1.93367	-0.21111	1.92223
10,418.979	92.280	331.960	6,298.351	5,148.353	3,978.700	1,742.950	3,283.481	4.31055	1.97753	3.83147
10,507.978	88.000	326.020	6,298.133	5,148.135	4,054.928	1,697.129	3,369.863	8.22496	-4.80900	-6.67417
10,597.979	90.770	322.560	6,299.099	5,149.102	4,127.983	1,644.613	3,455.199	4.92422	3.07778	-3.84445
10,686.979	92.120	319.880	6,296.855	5,146.857	4,197.334	1,588.894	3,537.947	3.37079	1.51686	-3.01124



EQT  
Survey Report

Database:	EDM_Definitive	Local Co-ordinate Reference:	Well M11H - Slot M11H
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:	M11H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Hines M11H 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)
10,776.979	91.820	315.090	6,293.759	5,143.761	4,263.614	1,528.127	3,619.257	5.32951	-0.33333	-5.32223
10,865.979	90.550	312.300	6,291.918	5,141.920	4,325.076	1,463.799	3,697.021	3.44367	-1.42697	-3.13484
10,955.979	90.580	315.650	6,291.030	5,141.033	4,387.555	1,399.044	3,775.884	3.72220	0.03333	3.72223
11,044.978	90.550	317.650	6,290.153	5,140.155	4,452.267	1,337.956	3,855.792	2.24734	-0.03371	2.24720
11,134.978	90.680	317.160	6,289.186	5,139.189	4,518.516	1,277.046	3,937.116	0.56325	0.14444	-0.54445
11,223.978	90.710	315.070	6,288.107	5,138.109	4,582.653	1,215.359	4,016.652	2.34839	0.03371	-2.34832
11,312.978	90.620	312.530	6,287.074	5,137.076	4,644.245	1,151.132	4,094.510	2.85554	-0.10112	-2.85394
11,402.978	90.740	317.580	6,286.005	5,136.007	4,707.920	1,087.578	4,174.159	5.61231	0.13333	5.61112
11,492.977	90.950	323.780	6,284.676	5,134.679	4,777.504	1,030.584	4,257.507	6.89210	0.23333	6.88890
11,581.977	90.980	323.250	6,283.177	5,133.180	4,849.051	977.671	4,341.520	0.59638	0.03371	-0.59551
11,670.977	91.020	319.110	6,281.623	5,131.626	4,918.366	921.900	4,424.249	4.65120	0.04494	-4.65169
11,760.977	90.980	315.860	6,280.052	5,130.055	4,984.686	861.097	4,505.609	3.61084	-0.04444	-3.61112
11,849.977	90.890	314.630	6,278.600	5,128.602	5,047.877	798.444	4,584.528	1.38554	-0.10112	-1.38203
11,939.977	90.890	324.480	6,277.199	5,127.201	5,116.277	740.138	4,667.134	10.94314	0.00000	10.94447
12,028.976	91.230	322.060	6,275.552	5,125.554	5,187.590	686.926	4,751.012	2.74535	0.38202	-2.71911
12,118.976	91.790	319.440	6,273.180	5,123.182	5,257.255	630.007	4,834.415	2.97587	0.62222	-2.91112
12,207.976	91.690	323.130	6,270.477	5,120.479	5,326.654	574.378	4,917.183	4.14569	-0.11236	4.14608
12,296.976	91.630	326.630	6,267.898	5,117.900	5,399.410	523.207	5,001.834	3.93152	-0.06742	3.93259
12,386.976	91.720	329.550	6,265.266	5,115.269	5,475.768	475.660	5,088.853	3.24461	0.10000	3.24445
12,475.975	91.850	330.110	6,262.494	5,112.496	5,552.674	430.953	5,175.553	0.64565	0.14607	0.62921
12,564.975	92.120	328.560	6,259.411	5,109.413	5,629.180	385.590	5,262.065	1.76677	0.30337	-1.74158
12,654.975	91.390	324.120	6,256.653	5,106.656	5,704.036	335.742	5,348.330	4.99726	-0.81111	-4.93334
12,743.975	90.400	319.820	6,255.263	5,105.265	5,774.114	280.932	5,431.503	4.95723	-1.11236	-4.83147
12,833.975	89.940	321.020	6,254.996	5,104.998	5,843.478	223.589	5,514.745	1.42793	-0.51111	1.33334
12,922.975	87.480	319.810	6,256.999	5,107.001	5,912.045	166.897	5,597.032	3.08012	-2.76405	-1.35955
13,012.974	86.890	318.740	6,261.419	5,111.422	5,980.168	108.251	5,679.474	1.35639	-0.65556	-1.18889
13,101.974	88.980	319.140	6,264.626	5,114.628	6,047.228	49.833	5,760.834	2.39088	2.34832	0.44944
13,190.974	90.000	317.640	6,265.418	5,115.421	6,113.766	-9.264	5,841.896	2.03807	1.14607	-1.68540
13,280.974	90.150	317.270	6,265.300	5,115.303	6,180.073	-70.119	5,923.258	0.44361	0.16667	-0.41111
13,369.974	90.060	316.700	6,265.137	5,115.140	6,245.147	-130.833	6,003.402	0.64838	-0.10112	-0.64045



EQT  
Survey Report

Database:	EDM_Definitive	Local Co-ordinate Reference:	Well M11H - Slot M11H
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:	M11H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Hines M11H 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)
13,458.97 3	90.460	317.650	6,264.733	5,114.736	6,310.421	-191.330	6,083.671	1.15817	0.44944	1.06742
13,548.97 3	90.310	317.600	6,264.129	5,114.131	6,376.907	-251.987	6,165.146	0.17568	-0.16667	-0.05556
13,637.97 3	90.520	319.110	6,263.484	5,113.486	6,443.411	-311.125	6,246.187	1.71292	0.23596	1.69663
13,726.97 3	90.550	320.410	6,262.653	5,112.655	6,511.344	-368.614	6,328.105	1.46100	0.03371	1.46068
13,816.97 3	90.400	320.780	6,261.907	5,111.909	6,580.882	-425.744	6,411.450	0.44360	-0.16667	0.41111
13,906.97 3	90.460	326.540	6,261.231	5,111.233	6,653.346	-479.052	6,496.456	6.40018	0.06667	6.40001
13,995.97 2	90.430	331.650	6,260.539	5,110.541	6,729.682	-524.747	6,582.905	5.74151	-0.03371	5.74158
14,084.97 2	90.490	333.280	6,259.825	5,109.827	6,808.595	-565.888	6,670.465	1.83265	0.06742	1.83146
14,173.97 2	90.490	331.580	6,259.063	5,109.066	6,887.483	-607.077	6,758.015	1.91005	0.00000	-1.91012
14,263.97 2	90.430	327.480	6,258.340	5,108.343	6,965.034	-652.704	6,845.604	4.55591	-0.06667	-4.55556
14,352.97 2	90.770	321.730	6,257.408	5,107.410	7,037.551	-704.228	6,930.132	6.47161	0.38202	-6.46069
14,442.97 1	90.830	313.580	6,256.149	5,106.151	7,104.007	-764.795	7,011.552	9.05493	0.06667	-9.05557
14,531.97 1	90.770	307.720	6,254.905	5,104.908	7,161.954	-832.283	7,086.895	6.58399	-0.06742	-6.58428
14,621.97 1	90.800	308.800	6,253.672	5,103.675	7,217.678	-902.944	7,161.057	1.20035	0.03333	1.20000
14,711.971	90.860	311.600	6,252.368	5,102.371	7,275.758	-971.672	7,236.894	3.11151	0.06667	3.11112
14,800.97 1	90.680	314.670	6,251.172	5,101.174	7,336.596	-1,036.605	7,314.242	3.45506	-0.20225	3.44945
14,890.97 1	91.050	316.850	6,249.813	5,099.815	7,401.062	-1,099.384	7,394.416	2.45659	0.41111	2.42223
14,979.97 0	91.050	319.720	6,248.182	5,098.184	7,467.479	-1,158.590	7,475.395	3.22418	0.00000	3.22473
15,068.97 0	90.620	322.390	6,246.885	5,096.887	7,536.685	-1,214.522	7,558.068	3.03834	-0.48315	3.00001
15,158.97 0	90.550	325.160	6,245.966	5,095.968	7,609.278	-1,267.700	7,643.158	3.07861	-0.07778	3.07778
15,247.97 0	90.490	325.300	6,245.158	5,095.160	7,682.383	-1,318.453	7,728.020	0.17114	-0.06742	0.15730
15,336.97 0	90.680	324.400	6,244.249	5,094.251	7,755.149	-1,369.689	7,812.701	1.03347	0.21348	-1.01124
15,426.96 9	90.580	324.330	6,243.260	5,093.262	7,828.292	-1,422.121	7,898.096	0.13563	-0.11111	-0.07778
15,515.96 9	90.620	325.040	6,242.328	5,092.330	7,900.910	-1,473.567	7,982.697	0.79898	0.04494	0.79775
15,605.96 9	91.420	320.800	6,240.725	5,090.727	7,972.683	-1,527.808	8,067.321	4.79347	0.88889	-4.71112





EQT  
Survey Report

Database:	EDM_Definitive	Local Co-ordinate Reference:	Well M11H - Slot M11H
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:	M11H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Hines M11H 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)
15,694.969	90.460	317.080	6,239.264	5,089.266	8,039.769	-1,586.249	8,148.712	4.31613	-1.07865	-4.17978
15,783.969	90.090	315.970	6,238.837	5,088.839	8,104.352	-1,647.483	8,228.540	1.31464	-0.41573	-1.24719
15,872.969	90.060	320.390	6,238.720	5,088.723	8,170.662	-1,706.812	8,309.453	4.96641	-0.03371	4.96630
15,962.968	90.060	322.300	6,238.626	5,088.628	8,240.942	-1,763.026	8,393.234	2.12223	0.00000	2.12223
16,051.968	90.490	321.510	6,238.199	5,088.201	8,310.982	-1,817.935	8,476.400	1.01060	0.48315	-0.88764
16,141.968	90.400	320.500	6,237.500	5,087.502	8,380.927	-1,874.565	8,559.985	1.12664	-0.10000	-1.12222
16,230.968	90.520	319.710	6,236.785	5,086.788	8,449.207	-1,931.646	8,642.113	0.89780	0.13483	-0.88764
16,320.968	90.550	321.480	6,235.945	5,085.947	8,518.742	-1,988.773	8,725.454	1.96687	0.03333	1.96667
16,409.967	90.340	323.200	6,235.254	5,085.256	8,589.194	-2,043.146	8,808.854	1.94688	-0.23596	1.93259
16,499.967	90.430	322.600	6,234.649	5,084.651	8,660.974	-2,097.433	8,893.498	0.67411	0.10000	-0.66667
16,589.967	90.460	318.080	6,233.950	5,083.952	8,730.240	-2,154.857	8,976.670	5.02219	0.03333	-5.02223
16,678.967	90.830	315.830	6,232.948	5,082.950	8,795.274	-2,215.598	9,056.783	2.56189	0.41573	-2.52810
16,767.967	90.680	316.340	6,231.775	5,081.777	8,859.381	-2,277.322	9,136.301	0.59726	-0.16854	0.57303
16,856.966	90.550	315.280	6,230.819	5,080.822	8,923.192	-2,339.354	9,215.629	1.19987	-0.14607	-1.19101
16,946.966	90.620	314.610	6,229.901	5,079.903	8,986.767	-2,403.050	9,295.224	0.74846	0.07778	-0.74445
17,036.966	90.650	315.710	6,228.903	5,078.905	9,050.579	-2,466.507	9,374.974	1.22260	0.03333	1.22222
17,125.966	90.580	317.200	6,227.948	5,077.950	9,115.084	-2,527.816	9,454.750	1.67591	-0.07865	1.67416
17,214.966	90.550	319.100	6,227.070	5,077.072	9,181.373	-2,587.189	9,535.656	2.13500	-0.03371	2.13484
17,304.966	90.650	319.670	6,226.128	5,076.130	9,249.688	-2,645.773	9,618.263	0.64297	0.11111	0.63333
17,393.965	90.620	320.260	6,225.141	5,075.144	9,317.826	-2,703.019	9,700.305	0.66374	-0.03371	0.66292
17,482.965	90.620	320.290	6,224.178	5,074.181	9,386.274	-2,759.896	9,782.533	0.03371	0.00000	0.03371
17,572.965	90.620	320.540	6,223.204	5,073.207	9,455.631	-2,817.243	9,865.769	0.27776	0.00000	0.27778
17,666.965	90.650	322.730	6,222.162	5,072.165	9,529.324	-2,875.578	9,953.440	2.32987	0.03191	2.32979
17,760.965	90.220	323.250	6,221.449	5,071.451	9,604.383	-2,932.160	10,041.895	0.71782	-0.45745	0.55319
17,854.964	88.920	323.720	6,222.154	5,072.157	9,679.927	-2,988.090	10,130.620	1.47058	-1.38298	0.50000



**EQT**  
Survey Report

Database:	EDM_Definitive	Local Co-ordinate Reference:	Well M11H - Slot M11H
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:	M11H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Hines M11H 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)
<b>Final Survey=17855' MD/ 6222' TV</b>										
17,855.00 0	88.920	323.720	6,222.155	5,072.157	9,679.956	-2,988.111	10,130.65 3	0.00239	0.00000	0.00000
<b>Projection to TD=17900' MD/ 6223' TVD</b>										
17,899.96 4	88.920	323.720	6,223.002	5,073.005	9,716.197	-3,014.713	10,173.14 9	0.00000	0.00000	0.00000

Target Name	- hit/miss target	- Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (1.528)	+E/-W (1.560)	Northing (usft)	Easting (usft)	Latitude	Longitude
Hines 11H KOP			0.000	0.000	2,095.92 9	1.528	1.560	514,452.254	1,632,086.662	39.9062600	80.6992313°W
- actual wellpath misses target center by 1.790usft at 2095.989usft MD (2095.902 TVD, 2.494 N, 3.066 E)											
- Point											
Hines 11H BHL			0.000	0.000	6,223.04 8	9,714.619	-3,017.342	524,204.779	1,629,197.685	39.9329245	80.7099968°W
- actual wellpath misses target center by 3.067usft at 17899.964usft MD (6223.003 TVD, 9716.197 N, -3014.713 E)											
- Point											
Hines 11H LP			0.000	0.000	6,311.782	2,615.816	2,897.917	517,027.648	1,635,017.659	39.9134365	80.6889058°W
- actual wellpath misses target center by 3.050usft at 8628.377usft MD (6311.738 TVD, 2617.695 N, 2900.319 E)											
- Point											

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
8,193.246	6,272.000	Top of Marcellus@6272' TVD		-1.0000	

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,096.000	2,095.912	2.495	3.066	KOP=2096' MD
8,628.000	6,311.736	2,617.394	2,900.546	LP=8628' MD/ 6312' TVD
17,855.000	6,222.155	9,679.956	-2,988.111	Final Survey=17855' MD/ 6222' TV
17,899.964	6,223.002	9,716.197	-3,014.713	Projection to TD=17900' MD/ 6223' TVD

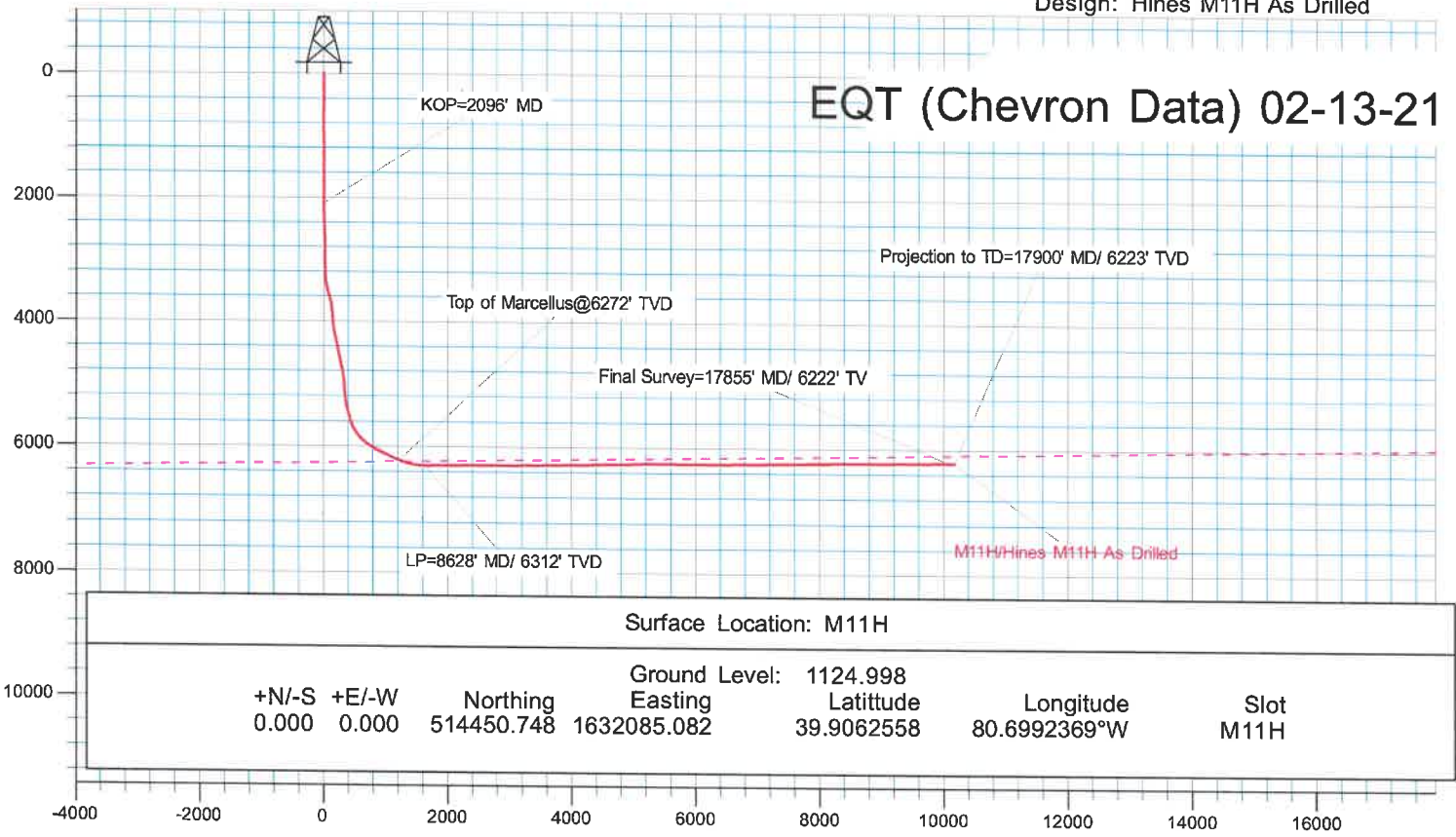
Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



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

Project: Marcellus Sealing, etc. Chevron  
 Site: Hines Pad EQT  
 Well: M11H  
 Wellbore: OH  
 Design: Hines M11H As Drilled

# EQT (Chevron Data) 02-13-21



Vertical Section at 342.762° (3000 usft/in)

DESIGN TARGET DETAILS						
Name	TVD	Northing	Easting	Latitude	Longitude	
Hines 11H KOP	2095.930	514452.255	1632086.662	39.9062600	80.6992314°W	
Hines 11H BHL	6223.049	524204.779	1629197.685	39.9329245	80.7099969°W	
Hines 11H LP	6311.783	517027.648	1635017.658	39.9134365	80.6889058°W	

