



EQT (Chevron Data) 02-13-21

Marshall County, WV Chevron

Hines Pad EQT

M10H - Slot M10H

OH

Design: Hines M10H As Drilled

Standard Survey Report

27 July, 2021



EQT
Survey Report

Database:	EDM_Definitive	Local Co-ordinate Reference:	Well M10H - Slot M10H
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:	M10H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Hines M10H 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 M10H - Slot M10H

Well Position	+N/-S	0.000 usft	Northing:	514,435.879 usft	Latitude:	39.9062150
	+E/-W	0.000 usft	Easting:	1,632,084.572 usft	Longitude:	80.6992380°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	-8.4134	68.2443	53,878.82038169

Design Hines M10H 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	166.064

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	13,915.973	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	77.790	25.000	-1,124.998	0.000	0.000	0.000	0.00000	0.00000	0.00000
108.000	0.360	77.790	107.999	-1,041.998	0.055	0.255	0.008	0.43374	0.43374	0.00000
133.000	0.540	55.760	132.998	-1,016.999	0.138	0.429	-0.031	0.98620	0.72000	-88.12018
158.000	0.440	49.190	157.997	-992.000	0.267	0.599	-0.115	0.45818	-0.40000	-26.28005
183.000	0.430	37.220	182.997	-967.001	0.405	0.728	-0.217	0.36502	-0.04000	-47.88010
208.000	0.570	36.000	207.996	-942.002	0.580	0.858	-0.356	0.56159	0.56000	-4.88001



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Well:	M10H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Hines M10H 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	0.650	42.730	232.994	-917.003	0.785	1.028	-0.514	0.42906	0.32000	26.92005
257.999	0.520	46.200	257.993	-892.005	0.967	1.206	-0.648	0.53873	-0.52000	13.88003
282.999	0.550	50.300	282.992	-867.006	1.122	1.380	-0.757	0.19448	0.12000	16.40003
307.999	0.630	47.190	307.990	-842.007	1.292	1.573	-0.876	0.34457	0.32000	-12.44003
332.999	0.640	39.190	332.989	-817.009	1.494	1.762	-1.026	0.35660	0.04000	-32.00006
357.999	0.500	39.940	357.987	-792.010	1.686	1.920	-1.174	0.56078	-0.56000	3.00001
507.999	0.980	32.680	507.974	-642.023	3.267	3.033	-2.441	0.32541	0.32000	-4.84001
600.999	0.440	99.640	600.968	-549.030	3.877	3.815	-2.844	0.97160	-0.58065	72.00015
663.999	0.680	140.560	663.965	-486.033	3.548	4.291	-2.410	0.71663	0.38095	64.95251
694.999	0.670	146.570	694.963	-455.035	3.255	4.507	-2.073	0.23055	-0.03226	19.38714
725.999	0.970	160.910	725.959	-424.038	2.855	4.693	-1.641	1.16530	0.96774	46.25816
756.998	0.870	176.300	756.955	-393.042	2.372	4.794	-1.148	0.85661	-0.32258	49.64526
818.998	0.910	182.810	818.948	-331.050	1.411	4.800	-0.213	0.17527	0.06452	10.50002
850.998	0.970	186.920	850.943	-299.054	0.888	4.755	0.283	0.28194	0.18750	12.84378
881.998	1.100	182.150	881.938	-268.059	0.330	4.712	0.814	0.50275	0.41936	-15.38713
912.998	1.040	172.240	912.933	-237.065	-0.246	4.739	1.380	0.62663	-0.19355	-31.96781
943.998	1.050	179.350	943.928	-206.070	-0.808	4.780	1.936	0.41926	0.03226	22.93553
974.998	1.260	173.440	974.921	-175.076	-1.431	4.823	2.550	0.77796	0.67742	-19.06455
1,005.998	1.170	181.110	1,005.914	-144.083	-2.086	4.855	3.194	0.59895	-0.29032	24.74199
1,037.998	1.010	204.110	1,037.909	-112.089	-2.670	4.734	3.732	1.44380	-0.50000	71.87515
1,068.998	0.960	194.100	1,068.904	-81.094	-3.171	4.559	4.176	0.57720	-0.16129	-32.29039
1,099.998	0.820	214.600	1,099.900	-50.097	-3.606	4.370	4.552	1.11417	-0.45161	66.12917
1,130.998	0.960	219.780	1,130.896	-19.101	-3.988	4.078	4.853	0.52044	0.45161	16.70971
1,162.998	0.800	237.550	1,162.893	12.895	-4.314	3.718	5.082	0.98265	-0.50000	55.53136
1,193.998	0.850	234.100	1,193.889	43.892	-4.565	3.349	5.237	0.22729	0.16129	-11.12905
1,224.997	0.890	260.530	1,224.886	74.888	-4.739	2.925	5.304	1.28923	0.12903	85.25824
1,255.997	1.070	259.100	1,255.881	105.884	-4.834	2.403	5.270	0.58594	0.58065	-4.61291
1,286.997	0.930	273.990	1,286.876	136.879	-4.871	1.868	5.177	0.94831	-0.45161	48.03236
1,318.997	0.900	282.050	1,318.872	168.875	-4.800	1.363	4.987	0.41263	-0.09375	25.18755
1,349.997	1.020	273.240	1,349.868	199.870	-4.734	0.850	4.799	0.61256	0.38710	-28.41941
1,380.997	1.180	277.490	1,380.862	230.864	-4.677	0.258	4.601	0.57902	0.51613	13.70971
1,411.997	1.430	266.150	1,411.854	261.856	-4.661	-0.445	4.417	1.15578	0.80645	-36.58072
1,443.997	1.710	270.190	1,443.842	293.844	-4.686	-1.321	4.230	0.94036	0.87500	12.62503
1,474.997	2.100	262.260	1,474.825	324.827	-4.761	-2.346	4.056	1.51563	1.25807	-25.58070
1,505.997	2.480	263.620	1,505.800	355.802	-4.912	-3.575	3.907	1.23819	1.22581	4.38711
1,536.997	2.930	259.860	1,536.765	386.768	-5.126	-5.022	3.766	1.55964	1.45162	-12.12906
1,567.997	3.090	255.150	1,567.722	417.725	-5.480	-6.609	3.727	0.94979	0.51613	-15.19358
1,599.997	3.690	255.770	1,599.666	449.669	-5.954	-8.441	3.746	1.87847	1.87500	1.93750
1,630.997	3.830	252.380	1,630.599	480.602	-6.513	-10.395	3.818	0.84728	0.45161	-10.93551
1,661.997	4.070	252.430	1,661.526	511.528	-7.158	-12.430	3.954	0.77427	0.77420	0.16129
1,692.997	4.680	249.190	1,692.435	542.438	-7.940	-14.661	4.175	2.12237	1.96775	-10.45163
1,724.996	4.980	249.350	1,724.322	574.324	-8.893	-17.181	4.494	0.93845	0.93750	0.50000
1,755.996	5.290	246.550	1,755.197	605.199	-9.936	-19.751	4.887	1.28562	1.00000	-9.03228



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Wellbore:	OH		
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1,786.996	5.320	245.770	1,786.064	636.067	-11.095	-22.373	5.380	0.25196	0.09677	-2.51613
1,818.996	5.660	245.570	1,817.917	667.920	-12.356	-25.162	5.933	1.06418	1.06250	-0.62500
1,849.996	5.870	245.130	1,848.760	698.763	-13.655	-27.992	6.512	0.69226	0.67742	-1.41936
1,880.996	5.910	246.580	1,879.597	729.599	-14.956	-30.895	7.075	0.49702	0.12903	4.67743
1,911.996	5.900	242.360	1,910.432	760.435	-16.330	-33.771	7.716	1.40055	-0.03226	-13.61293
1,942.996	5.370	243.540	1,941.282	791.285	-17.715	-36.481	8.408	1.74997	-1.70968	3.80646
1,974.996	5.020	241.860	1,973.151	823.153	-19.043	-39.056	9.076	1.19247	-1.09375	-5.25001
2,193.996	3.850	233.770	2,191.493	1,041.495	-27.908	-53.437	14.217	0.60454	-0.53425	-3.69407
2,282.995	3.350	235.070	2,280.317	1,130.319	-31.162	-57.979	16.282	0.56920	-0.56180	1.46068
2,371.995	2.850	234.570	2,369.186	1,219.189	-33.934	-61.914	18.024	0.56261	-0.56180	-0.56180
2,461.995	2.350	233.070	2,459.093	1,309.095	-36.340	-65.212	19.565	0.56063	-0.55556	-1.66667
2,550.995	1.950	231.550	2,548.030	1,398.032	-38.378	-67.856	20.906	0.45394	-0.44944	-1.70787
2,639.995	1.630	232.810	2,636.986	1,486.989	-40.084	-70.051	22.034	0.36224	-0.35955	1.41573
2,729.994	1.450	236.100	2,726.954	1,576.956	-41.493	-72.015	22.928	0.22275	-0.20000	3.65556
2,819.994	1.250	229.810	2,816.928	1,666.931	-42.762	-73.710	23.751	0.27626	-0.22222	-6.98890
2,908.994	0.560	250.380	2,905.917	1,755.919	-43.534	-74.862	24.223	0.84483	-0.77528	23.11241
2,997.994	0.990	336.940	2,994.911	1,844.913	-42.973	-75.573	23.507	1.24468	0.48315	97.25862
3,087.994	1.190	332.840	3,084.894	1,934.897	-41.426	-76.304	21.830	0.23838	0.22222	-4.55556
3,176.993	0.800	91.370	3,173.887	2,023.889	-40.619	-76.104	21.094	1.93488	-0.43820	133.18004
3,266.993	1.060	89.710	3,263.875	2,113.877	-40.629	-74.644	21.456	0.29041	0.28889	-1.84445
3,355.993	0.880	77.170	3,352.862	2,202.864	-40.473	-73.154	21.664	0.31158	-0.20225	-14.08992
3,445.993	0.660	44.410	3,442.854	2,292.856	-39.950	-72.118	21.405	0.53651	-0.24444	-36.40007
3,535.993	0.700	17.740	3,532.848	2,382.850	-39.056	-71.587	20.665	0.35119	0.04444	-29.63339
3,624.993	0.730	5.040	3,621.840	2,471.843	-37.973	-71.372	19.666	0.18083	0.03371	-14.26969
3,714.992	0.910	10.050	3,711.831	2,561.833	-36.698	-71.197	18.471	0.21510	0.20000	5.56668
3,803.992	0.910	3.970	3,800.820	2,650.822	-35.297	-71.025	17.153	0.10845	0.00000	-6.83147
3,893.992	0.750	2.130	3,890.810	2,740.812	-33.996	-70.953	15.907	0.18021	-0.17778	-2.04445
KOP=3983' MD/3980' TVD										
3,982.992	0.820	345.500	3,979.802	2,829.804	-32.797	-71.091	14.710	0.26671	0.07865	-18.68543
4,072.992	2.900	253.200	4,069.760	2,919.763	-32.832	-73.432	14.180	3.38346	2.31111	-102.55573
4,161.991	4.420	243.230	4,158.577	3,008.579	-35.027	-78.650	15.054	1.84525	1.70787	-11.20227
4,251.991	7.960	235.050	4,248.039	3,098.042	-40.161	-86.857	18.060	4.04375	3.93334	-9.08891
4,340.991	10.640	231.450	4,335.862	3,185.864	-48.813	-98.336	23.694	3.07993	3.01124	-4.04495
4,421.991	10.370	235.520	4,415.505	3,265.508	-57.601	-110.194	29.366	0.97462	-0.33333	5.02470
4,511.991	17.020	239.800	4,502.899	3,352.902	-68.825	-128.275	35.905	7.46924	7.38890	4.75557
4,600.991	25.420	243.080	4,585.793	3,435.796	-84.053	-156.616	43.860	9.52850	9.43822	3.68540
4,689.990	32.620	246.160	4,663.573	3,513.575	-102.422	-195.643	52.289	8.25982	8.08990	3.46068
4,779.990	35.430	247.970	4,738.158	3,588.161	-122.016	-242.024	60.136	3.31854	3.12223	2.01112
4,868.990	35.370	248.710	4,810.705	3,660.707	-141.045	-289.939	67.065	0.48634	-0.06742	0.83146
4,957.990	35.460	249.330	4,883.238	3,733.240	-159.510	-338.094	73.390	0.41616	0.10112	0.69663
5,046.990	35.420	252.290	4,955.753	3,805.756	-176.470	-386.820	78.115	1.92888	-0.04494	3.32585
5,136.989	35.470	254.910	5,029.078	3,879.080	-191.202	-436.880	80.358	1.68903	0.05556	2.91112



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5,225.989	35.520	255.820	5,101.539	3,951.542	-204.258	-486.878	80.988	0.59633	0.05618	1.02247
5,315.989	35.440	255.690	5,174.828	4,024.830	-217.112	-537.509	81.270	0.12219	-0.08889	-0.14444
5,405.989	35.430	254.720	5,248.158	4,098.160	-230.437	-587.958	82.052	0.62497	-0.01111	-1.07778
5,494.989	35.480	253.760	5,320.655	4,170.657	-244.458	-637.641	83.695	0.62820	0.05618	-1.07865
5,584.989	35.340	254.720	5,394.008	4,244.010	-258.623	-687.827	85.356	0.63732	-0.15556	1.06667
5,673.988	35.460	254.410	5,466.554	4,316.557	-272.344	-737.524	86.705	0.24268	0.13483	-0.34832
5,763.988	35.430	253.370	5,539.875	4,389.878	-286.826	-787.665	88.685	0.67095	-0.03333	-1.15556
5,852.988	35.420	251.810	5,612.400	4,462.403	-302.260	-836.886	91.810	1.01604	-0.01124	-1.75281
5,942.988	34.860	244.170	5,686.033	4,536.036	-321.618	-884.838	99.050	4.92293	-0.62222	-8.48891
6,031.988	36.580	223.920	5,758.543	4,608.546	-351.911	-926.276	118.472	13.37493	1.93259	-22.75286
6,121.987	38.270	209.460	5,830.154	4,680.156	-395.584	-958.652	153.062	9.92481	1.87778	-16.06670
6,210.987	40.970	206.250	5,898.711	4,748.713	-445.765	-985.119	195.391	3.80622	3.03371	-3.60675
6,300.987	42.460	204.100	5,965.894	4,815.896	-499.963	-1,010.576	241.863	2.29499	1.65556	-2.38889
6,390.987	45.000	197.250	6,030.960	4,880.962	-558.125	-1,032.432	293.049	5.96736	2.82223	-7.61113
6,479.987	51.230	190.430	6,090.389	4,940.392	-622.403	-1,048.070	351.669	9.02330	7.00001	-7.66294
6,569.987	57.220	185.090	6,143.005	4,993.007	-694.693	-1,057.792	419.490	8.21035	6.65557	-5.93335
6,658.986	60.030	180.360	6,189.356	5,039.358	-770.554	-1,061.355	492.260	5.52681	3.15731	-5.31462
6,747.986	65.060	173.960	6,230.410	5,080.412	-849.345	-1,057.346	569.697	8.52080	5.65170	-7.19103
6,837.986	73.430	167.380	6,262.305	5,112.308	-932.238	-1,043.591	653.463	11.53711	9.30002	-7.31113
Top of Marcellus@6271' TVD										
6,869.769	74.068	166.838	6,271.200	5,121.202	-961.982	-1,036.784	683.970	2.59099	2.00748	-1.70626
6,926.986	75.220	165.870	6,286.352	5,136.354	-1,015.596	-1,023.766	739.142	2.59099	2.01333	-1.69129
7,015.986	80.660	167.830	6,304.942	5,154.944	-1,100.317	-1,003.988	826.132	6.48038	6.11237	2.20225
7,105.985	87.290	164.460	6,314.386	5,164.388	-1,187.150	-982.555	915.572	8.25339	7.36668	-3.74445
LP=7196' MD/8314' TVD										
7,106.000	87.290	164.460	6,314.386	5,164.389	-1,187.164	-982.551	915.586	0.00000	0.00000	0.00000
7,194.985	89.690	160.150	6,316.732	5,166.734	-1,271.883	-955.520	1,004.322	5.54200	2.69707	-4.84348
7,284.985	89.660	157.900	6,317.243	5,167.245	-1,355.912	-923.306	1,093.636	2.50019	-0.03333	-2.50001
7,373.985	89.630	152.250	6,317.794	5,167.797	-1,436.589	-885.814	1,180.967	6.34829	-0.03371	-6.34833
7,463.985	89.350	150.670	6,318.596	5,168.598	-1,515.646	-842.818	1,268.052	1.78284	-0.31111	-1.75556
7,552.985	89.420	147.720	6,319.551	5,169.553	-1,592.077	-797.247	1,353.208	3.31536	0.07865	-3.31461
7,642.984	89.320	150.250	6,320.541	5,170.543	-1,669.198	-750.880	1,439.227	2.81314	-0.11111	2.81112
7,731.984	89.230	154.510	6,321.667	5,171.670	-1,748.032	-709.632	1,525.674	4.78721	-0.10112	4.78653
7,821.984	89.260	153.330	6,322.853	5,172.856	-1,828.859	-670.070	1,613.650	1.31142	0.03333	-1.31111
7,910.984	89.420	151.710	6,323.879	5,173.881	-1,907.809	-629.006	1,700.166	1.82896	0.17978	-1.82023
8,000.984	89.420	154.230	6,324.790	5,174.792	-1,987.968	-588.111	1,787.815	2.79986	0.00000	2.80001
8,090.983	89.420	155.460	6,325.701	5,175.703	-2,069.427	-549.857	1,876.088	1.36660	0.00000	1.36667
8,179.983	89.380	156.740	6,326.633	5,176.635	-2,150.789	-513.803	1,963.739	1.43883	-0.04494	1.43821
8,269.983	89.420	157.490	6,327.575	5,177.578	-2,233.699	-478.805	2,052.638	0.83447	0.04444	0.83334
8,358.983	89.600	157.700	6,328.337	5,178.339	-2,315.978	-444.884	2,140.664	0.31077	0.20225	0.23596
8,448.983	89.480	155.390	6,329.059	5,179.062	-2,398.533	-409.065	2,229.416	2.57005	-0.13333	-2.56667
8,538.983	89.350	152.850	6,329.978	5,179.981	-2,479.496	-369.787	2,317.455	2.82577	-0.14444	-2.82223
8,627.982	89.450	153.290	6,330.910	5,180.913	-2,558.840	-329.481	2,404.171	0.50696	0.11236	0.49438



EQT
Survey Report

Database:	EDM_Definitive	Local Co-ordinate Reference:	Well M10H - Slot M10H
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:	M10H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Hines M10H 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)
8,717.982	89.420	154.280	6,331.798	5,181.800	-2,639.578	-289.727	2,492.106	1.10045	-0.03333	1.10000
8,807.982	89.420	154.690	6,332.709	5,182.711	-2,720.796	-250.962	2,580.270	0.45553	0.00000	0.45556
8,896.982	89.450	154.410	6,333.586	5,183.589	-2,801.155	-212.718	2,667.474	0.31639	0.03371	-0.31461
8,986.982	89.540	154.370	6,334.380	5,184.382	-2,882.310	-173.818	2,755.609	0.10943	0.10000	-0.04444
9,075.981	89.540	154.250	6,335.094	5,185.097	-2,962.510	-135.238	2,842.740	0.13483	0.00000	-0.13483
9,165.981	89.570	152.560	6,335.793	5,185.796	-3,042.982	-94.949	2,930.546	1.87802	0.03333	-1.87778
9,255.981	89.480	153.300	6,336.539	5,186.542	-3,123.119	-53.994	3,018.188	0.82825	-0.10000	0.82222
9,345.981	89.660	156.340	6,337.215	5,187.217	-3,204.554	-15.708	3,106.447	3.38360	0.20000	3.37778
9,434.981	89.660	160.090	6,337.743	5,187.746	-3,287.182	17.316	3,194.596	4.21342	0.00000	4.21349
9,524.980	89.510	161.650	6,338.395	5,188.398	-3,372.207	46.808	3,284.221	1.74129	-0.16667	1.73334
9,613.980	89.880	160.550	6,338.869	5,188.871	-3,456.406	75.636	3,372.884	1.30398	0.41573	-1.23596
9,703.980	89.320	158.260	6,339.497	5,189.500	-3,540.646	107.291	3,462.269	2.61935	-0.62222	-2.54445
9,792.980	88.920	159.680	6,340.864	5,190.867	-3,623.705	139.225	3,550.574	1.65742	-0.44944	1.59551
9,881.980	89.480	161.520	6,342.107	5,192.109	-3,707.640	168.783	3,639.157	2.16085	0.62921	2.06742
9,971.980	89.570	156.300	6,342.854	5,192.856	-3,791.579	201.155	3,728.422	5.80067	0.10000	-5.80001
10,060.979	89.200	153.170	6,343.809	5,193.812	-3,872.051	239.134	3,815.672	3.54114	-0.41573	-3.51686
10,150.979	88.710	152.890	6,345.451	5,195.453	-3,952.249	279.944	3,903.338	0.62704	-0.54445	-0.31111
10,239.979	89.170	154.970	6,347.097	5,197.100	-4,032.176	319.048	3,990.329	2.39316	0.51685	2.33708
10,329.979	89.200	157.660	6,348.378	5,198.380	-4,114.579	355.194	4,079.012	2.98878	0.03333	2.98889
10,418.979	89.570	156.790	6,349.333	5,199.335	-4,196.634	389.645	4,166.949	1.06221	0.41573	-0.97753
10,507.978	89.420	153.700	6,350.118	5,200.120	-4,277.442	426.907	4,254.353	3.47587	-0.16854	-3.47192
10,597.979	89.290	152.420	6,351.131	5,201.133	-4,357.668	467.678	4,342.037	1.42945	-0.14444	-1.42223
10,686.979	89.140	150.640	6,352.350	5,202.352	-4,435.895	510.099	4,428.177	2.00691	-0.16854	-2.00000
10,775.979	89.200	151.700	6,353.639	5,203.642	-4,513.854	553.010	4,514.177	1.19280	0.06742	1.19101
10,865.979	89.050	154.270	6,355.014	5,205.016	-4,594.018	593.882	4,601.824	2.86009	-0.16667	2.85556
10,954.979	89.170	158.070	6,356.397	5,206.399	-4,675.405	629.829	4,689.474	4.27128	0.13483	4.26967
11,044.978	89.450	160.290	6,357.481	5,207.483	-4,759.517	661.814	4,778.813	2.48603	0.31111	2.46667
11,133.978	89.570	158.300	6,358.242	5,208.244	-4,842.761	693.277	4,867.184	2.23994	0.13483	-2.23596
11,223.978	89.380	156.080	6,359.067	5,209.069	-4,925.714	728.165	4,956.097	2.47558	-0.21111	-2.46667
11,312.978	89.380	155.720	6,360.030	5,210.032	-5,006.951	764.504	5,043.695	0.40447	0.00000	-0.40450
11,402.978	89.350	156.010	6,361.027	5,211.030	-5,089.078	801.301	5,132.267	0.32392	-0.03333	0.32222
11,491.977	89.380	156.810	6,362.014	5,212.016	-5,170.635	836.916	5,220.001	0.89945	0.03371	0.89888
11,581.977	89.350	154.950	6,363.011	5,213.014	-5,252.769	873.690	5,308.573	2.06681	-0.03333	-2.06667
11,670.977	89.420	155.330	6,363.967	5,213.969	-5,333.517	911.104	5,395.955	0.43413	0.07865	0.42697
11,760.977	89.480	158.880	6,364.831	5,214.833	-5,416.409	946.110	5,484.839	3.94483	0.06667	3.94445



EQT
Survey Report

Database:	EDM_Definitive	Local Co-ordinate Reference:	Well M10H - Slot M10H
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:	M10H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Hines M10H 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)
11,849.977	89.630	160.250	6,365.522	5,215.524	-5,499.804	977.182	5,573.262	1.54848	0.16854	1.53933
11,938.977	89.630	162.240	6,366.097	5,216.099	-5,584.072	1,005.796	5,661.941	2.23591	0.00000	2.23596
12,028.976	89.660	164.360	6,366.654	5,216.657	-5,670.269	1,031.656	5,751.829	2.35575	0.03333	2.35556
12,117.976	89.820	159.080	6,367.059	5,217.061	-5,754.747	1,059.562	5,840.541	5.93526	0.17978	-5.93260
12,207.976	89.600	153.970	6,367.514	5,217.517	-5,837.269	1,095.401	5,929.265	5.68297	-0.24444	-5.67779
12,296.976	89.420	151.070	6,368.276	5,218.278	-5,916.216	1,136.463	6,015.778	3.26458	-0.20225	-3.25843
12,385.976	89.420	151.870	6,369.177	5,219.179	-5,994.404	1,178.968	6,101.901	0.89883	0.00000	0.89888
12,475.975	89.380	153.490	6,370.119	5,220.122	-6,074.357	1,220.271	6,189.449	1.80045	-0.04444	1.80000
12,564.975	89.420	154.910	6,371.051	5,221.054	-6,154.479	1,259.003	6,276.540	1.59605	0.04494	1.59551
12,654.975	89.540	158.090	6,371.868	5,221.871	-6,237.000	1,294.884	6,365.274	3.53571	0.13333	3.53334
12,743.975	90.120	160.130	6,372.132	5,222.135	-6,320.145	1,326.618	6,453.614	2.38296	0.65169	2.29214
12,832.975	89.510	153.500	6,372.420	5,222.422	-6,401.911	1,361.637	6,541.407	7.48084	-0.68539	-7.44945
12,922.975	89.290	149.800	6,373.363	5,223.365	-6,481.098	1,404.364	6,628.553	4.11815	-0.24444	-4.11112
13,012.974	89.420	146.170	6,374.376	5,224.379	-6,557.392	1,452.066	6,714.090	4.03567	0.14444	-4.03334
13,101.974	89.320	148.910	6,375.355	5,225.357	-6,632.475	1,499.825	6,798.466	3.08052	-0.11236	3.07866
13,190.974	89.380	151.500	6,376.365	5,226.367	-6,709.699	1,544.043	6,884.065	2.91071	0.06742	2.91012
13,279.974	89.320	153.280	6,377.375	5,227.377	-6,788.555	1,585.285	6,970.533	2.00101	-0.06742	2.00000
13,369.974	89.480	153.540	6,378.317	5,228.319	-6,869.031	1,625.567	7,058.342	0.33919	0.17778	0.28889
13,458.973	89.290	152.850	6,379.272	5,229.275	-6,948.463	1,665.700	7,145.101	0.80409	-0.21348	-0.77528
13,548.973	89.050	154.460	6,380.576	5,230.579	-7,029.104	1,705.634	7,232.986	1.80847	-0.26667	1.78889
13,637.973	88.800	158.700	6,382.247	5,232.249	-7,110.738	1,740.994	7,320.734	4.77149	-0.28090	4.76405
13,726.973	88.680	163.710	6,384.205	5,234.207	-7,194.945	1,769.652	7,409.364	5.62948	-0.13483	5.62922
13,816.973	88.680	162.630	6,386.278	5,236.281	-7,281.066	1,795.703	7,499.224	1.19968	0.00000	-1.20000
Final Survey=13891' MD/ 6388' TVD										
13,890.972	89.080	158.200	6,387.725	5,237.728	-7,350.753	1,820.497	7,572.831	6.00970	0.54054	-5.98650
Projection to TD/ Deepest Point of Well=13916' MD/ 6388' TVD										
13,915.972	89.080	158.200	6,388.127	5,238.129	-7,373.963	1,829.780	7,597.593	0.00005	0.00000	-0.00005



EQT
Survey Report

Database:	EDM_Definitive	Local Co-ordinate Reference:	Well M10H - Slot M10H
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:	M10H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Hines M10H As Drilled		

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (-33.063)	+E/-W (-69.863)	Northing (usft)	Easting (usft)	Latitude	Longitude
Hines 10H KOP	0.000	0.000	3,979.86	-33.063	-69.863	514,403.752	1,632,014.274	39.9061243	80.6994870°W
- actual wellpath misses target center by 1.257usft at 3983.019usft MD (3979.829 TVD, -32.797 N, -71.091 E)									
- Point									
Hines 10H LP	0.000	0.000	6,314.44	-1,187.429	-981.324	513,261.655	1,631,087.485	39.9029552	80.7027359°W
- actual wellpath misses target center by 1.113usft at 7106.628usft MD (6314.416 TVD, -1187.768 N, -982.383 E)									
- Point									
Hines 10H BHL	0.000	0.000	6,388.18	-7,374.228	1,831.008	507,037.866	1,633,816.982	39.8859705	80.6927130°W
- actual wellpath misses target center by 1.258usft at 13915.972usft MD (6388.127 TVD, -7373.963 N, 1829.780 E)									
- Point									

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
6,869.769	6,271.200	Top of Marcellus@6271' TVD		0.0000		

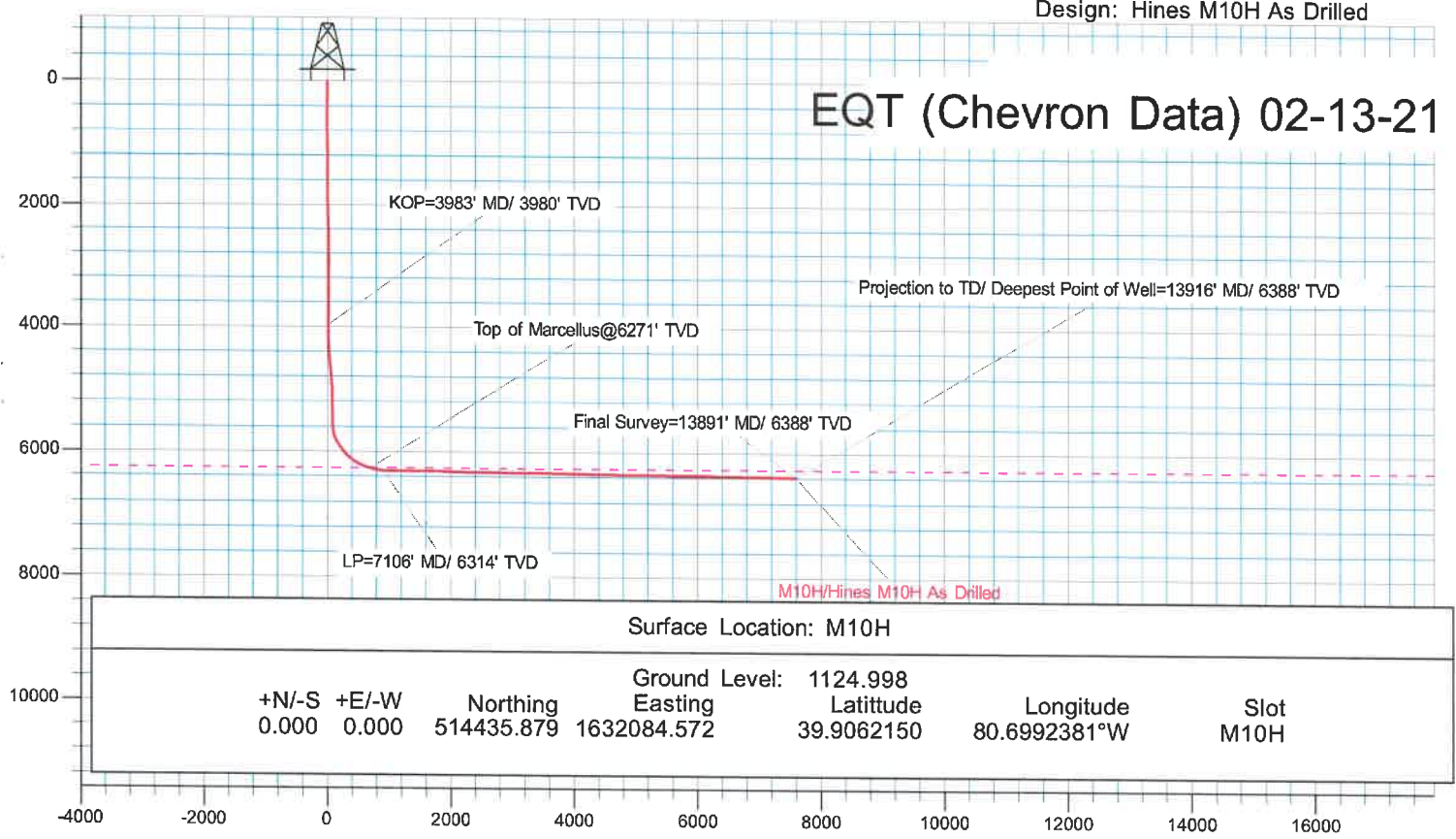
Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
3,982.992	3,979.802	-32.797	-71.091	KOP=3983' MD/ 3980' TVD	
7,106.000	6,314.386	-1,187.164	-982.551	LP=7106' MD/ 6314' TVD	
13,890.972	6,387.725	-7,350.753	1,820.497	Final Survey=13891' MD/ 6388' TVD	
13,915.972	6,388.127	-7,373.963	1,829.780	Projection to TD/ Deepest Point of Well=13916' MD/ 6388' TVD	

Checked By: _____ Approved By: _____ Date: _____



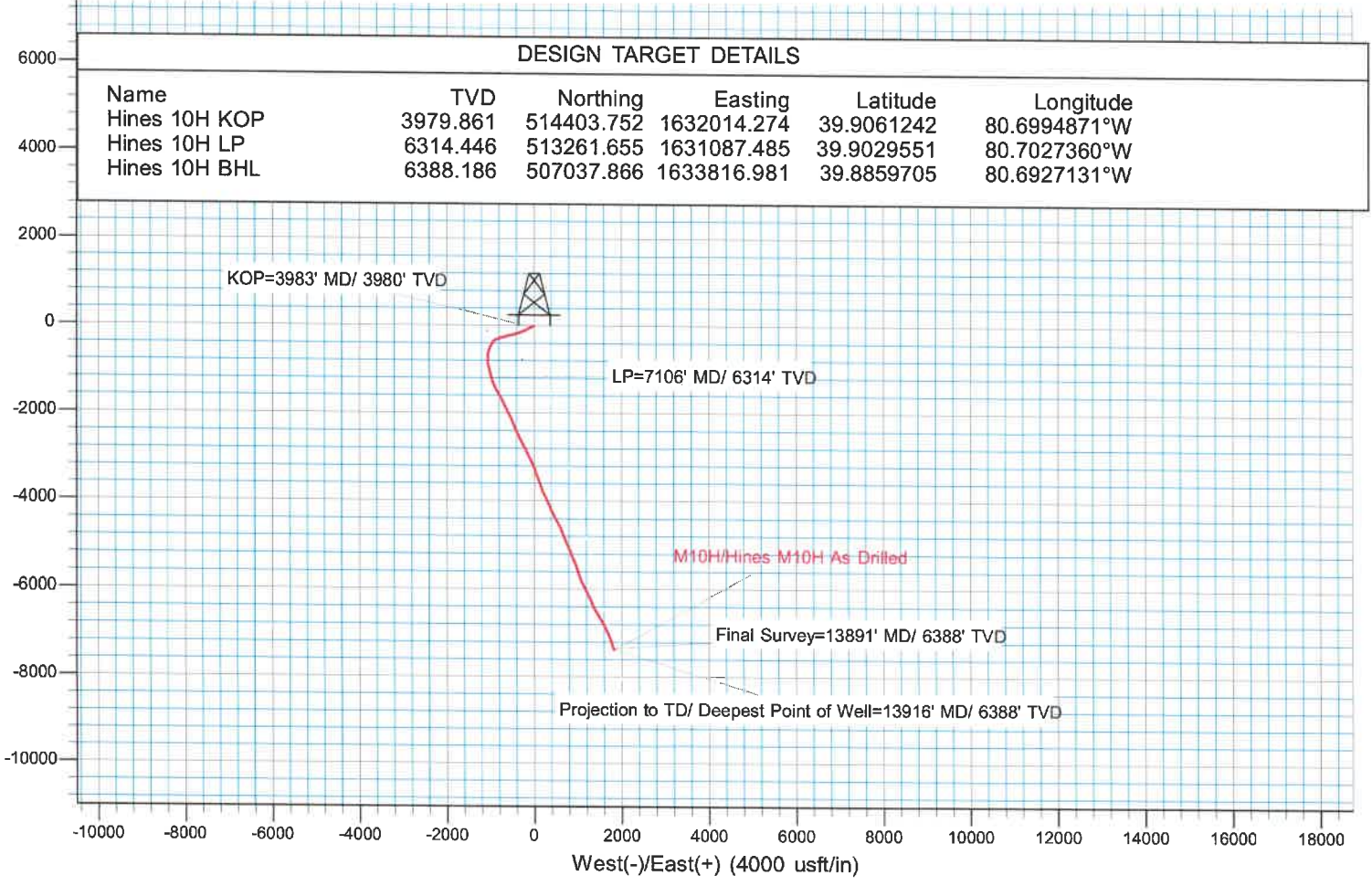
Project: Marcellus County, WV Chevron
 KB Elevation= GL at 1125.00' & 25' KB @ 1149.998usft Site: Hines Pad EQT
 Ground Elevation= 1124.998
 Well: M10H
 All measurements were taken from KB Elevation
 Wellbore: OH
 Design: Hines M10H As Drilled

EQT (Chevron Data) 02-13-21



Surface Location: M10H						
Ground Level: 1124.998						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.000	0.000	514435.879	1632084.572	39.9062150	80.6992381°W	M10H

Vertical Section at 166.064° (3000 usft/in)



DESIGN TARGET DETAILS						
Name	TVD	Northing	Easting	Latitude	Longitude	
Hines 10H KOP	3979.861	514403.752	1632014.274	39.9061242	80.6994871°W	
Hines 10H LP	6314.446	513261.655	1631087.485	39.9029551	80.7027360°W	
Hines 10H BHL	6388.186	507037.866	1633816.981	39.8859705	80.6927131°W	