

EQT (Chevron Data) 02-13-21

Marshall County, WV Chevron

Hines Pad EQT

Hines M18H

OH

Design: Hines M18H As Drilled

Standard Survey Report

30 June, 2021

05/27/2022

EQT

Survey Report

Database: EDM_Definitive	Local Co-ordinate Reference: Well Hines M18H	Company: EQT (Chevron Data) 02-13-21	TVD Reference: GL @ 1125.00 & 25' KB @ 1149.998usft (PD572)
Project: Marshall County, WV Chevron	MD Reference: GL @ 1125.00 & 25' KB @ 1149.998usft (PD572)	Site: Hines Pad EQT	North Reference: True
Well: Hines M18H	Survey Calculation Method: Minimum Curvature	Wellbore: OH	
Design: Hines M18H 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: From: Map	Northing: 514,501.050 usft	Latitude: 39.91	
Position Uncertainty: 1.500 usft	Easting: 1,631,895.930 usft	Longitude: -80.70	
	Slot Radius: 13-3/16 "	Grid Convergence: -0.7653 °	

Well: Hines M18H			
Well Position: +N/-S 0.000 usft	Northing: 514,449.683 usft	Latitude: 39.9062540	
+E/-W 0.000 usft	Easting: 1,632,115.072 usft	Longitude: 80.6991300°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)
	HDGM	6/23/2019	-7.9500	66.9500	52,375.00000000

Design: Hines M18H 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	154.120	

Survey Program		Date: 6/28/2021			
From (')	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	3,910.990	Survey #3 Gyro (OH)	SDI Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
0.00	6,012.000	Survey #4 SDI MWD (OH)	MWD c	MWD - Standard c	

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
101.000	0.140	1.730	101.000	-1,048.998	0.123	0.004	-0.109	0.13861	0.13861	0.00000
126.000	0.110	36.020	126.000	-1,023.998	0.173	0.019	-0.148	0.31631	-0.12000	137.16000
151.000	0.140	76.200	151.000	-998.998	0.200	0.063	-0.153	0.36151	0.12000	160.72000
176.000	0.110	159.730	176.000	-973.998	0.185	0.101	-0.122	0.67206	-0.12000	334.12000
201.000	0.110	223.380	201.000	-948.998	0.145	0.092	-0.090	0.46405	0.00000	254.60000

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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)
226.000	0.090	176.800	226.000	-923.998	0.108	0.077	-0.063	0.32473	-0.08000	-186.32000
251.000	0.120	161.020	251.000	-898.998	0.063	0.087	-0.019	0.16560	0.12000	-63.12000
276.000	0.050	160.010	276.000	-873.998	0.028	0.099	0.018	0.28005	-0.28000	-4.04000
301.000	0.030	74.050	301.000	-848.998	0.020	0.109	0.030	0.22587	-0.08000	-343.84000
326.000	0.090	25.390	326.000	-823.998	0.039	0.124	0.018	0.29484	0.24000	-194.64000
351.000	0.120	45.470	351.000	-798.998	0.076	0.151	-0.002	0.18817	0.12000	80.32000
376.000	0.200	84.480	375.999	-773.998	0.098	0.213	0.005	0.52310	0.32000	156.04000
401.000	0.340	99.120	400.999	-748.998	0.091	0.329	0.062	0.61988	0.56000	58.56000
426.000	0.380	122.400	425.999	-723.999	0.034	0.473	0.175	0.60183	0.16000	93.12000
451.000	0.370	122.090	450.998	-699.000	-0.053	0.611	0.314	0.04081	-0.04000	-1.24000
476.000	0.270	111.620	475.998	-674.000	-0.118	0.734	0.426	0.46176	-0.40000	-41.88000
501.000	0.320	94.700	500.997	-649.000	-0.145	0.858	0.505	0.39960	0.20000	-67.68000
526.000	0.320	85.910	525.997	-624.001	-0.146	0.998	0.567	0.19618	0.00000	-35.16000
551.000	0.450	65.140	550.996	-599.001	-0.099	1.156	0.594	0.75489	0.52000	-83.08000
576.000	0.740	52.120	575.995	-574.003	0.041	1.373	0.562	1.27261	1.16000	-52.08000
601.000	0.860	46.870	600.993	-549.005	0.268	1.637	0.473	0.56198	0.48000	-21.00000
626.000	0.910	41.700	625.990	-524.008	0.545	1.906	0.342	0.37666	0.20000	-20.68000
651.000	0.760	41.810	650.987	-499.011	0.817	2.149	0.203	0.60003	-0.60000	0.44000
676.000	0.780	34.160	675.985	-474.013	1.081	2.355	0.055	0.41860	0.08000	-30.60000
701.000	0.790	24.480	700.982	-449.015	1.379	2.522	-0.140	0.53135	0.04000	-38.72000
726.000	0.940	21.530	725.980	-424.018	1.726	2.669	-0.388	0.62569	0.60000	-11.80000
751.000	1.000	18.390	750.976	-399.022	2.124	2.813	-0.683	0.32056	0.24000	-12.56000
776.000	1.030	15.100	775.972	-374.026	2.548	2.940	-1.009	0.26214	0.12000	-13.16000
801.000	1.140	16.040	800.968	-349.030	3.004	3.067	-1.364	0.44571	0.44000	3.76000
826.000	0.920	0.090	825.964	-324.034	3.444	3.136	-1.729	1.43747	-0.88000	-63.80000
851.000	0.980	21.680	850.960	-299.037	3.843	3.216	-2.054	1.44278	0.24000	86.36000
876.000	0.890	19.220	875.957	-274.041	4.225	3.358	-2.335	0.39411	-0.36000	-9.84000
901.000	0.900	14.970	900.954	-249.044	4.598	3.473	-2.621	0.26847	0.04000	-17.00000
926.000	0.950	14.970	925.951	-224.047	4.988	3.577	-2.926	0.20000	0.20000	0.00000
951.000	0.930	26.790	950.947	-199.050	5.369	3.722	-3.206	0.77835	-0.08000	47.28000
976.000	1.010	54.440	975.944	-174.054	5.679	3.993	-3.366	1.88008	0.32000	110.60000
1,001.000	1.130	65.180	1,000.939	-149.058	5.910	4.396	-3.399	0.93278	0.48000	42.96000
1,026.000	1.070	70.590	1,025.935	-124.063	6.091	4.840	-3.368	0.47951	-0.24000	21.64000
1,051.000	1.130	74.180	1,050.930	-99.067	6.236	5.297	-3.298	0.36540	0.24000	14.36000
1,076.000	1.100	78.320	1,075.926	-74.072	6.352	5.769	-3.196	0.34377	-0.12000	16.56000
1,101.000	1.070	80.290	1,100.921	-49.077	6.440	6.235	-3.073	0.19146	-0.12000	7.88000
1,126.000	0.950	80.780	1,125.917	-24.081	6.512	6.669	-2.948	0.48124	-0.48000	1.96000
1,151.000	0.820	71.140	1,150.914	0.917	6.603	7.043	-2.867	0.78891	-0.52000	-38.56000
1,176.000	0.580	47.280	1,175.912	25.915	6.747	7.305	-2.882	1.49071	-0.96000	-95.44000

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Site:	Hines Pad EQT	North Reference:	True
Well:	Hines M18H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Hines M18H 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)
1,201.000	0.610	34.360	1,200.911	50.913	6.943	7.473	-2.984	0.54865	0.12000	-51.68000
1,226.000	0.670	34.060	1,225.909	75.912	7.174	7.630	-3.124	0.24037	0.24000	-1.20000
1,251.000	0.600	29.380	1,250.908	100.910	7.409	7.776	-3.272	0.34826	-0.28000	-18.72000
1,276.000	0.550	38.590	1,275.907	125.909	7.617	7.915	-3.398	0.41968	-0.20000	36.84000
1,301.000	0.520	49.190	1,300.906	150.908	7.785	8.076	-3.479	0.41300	-0.12000	42.40000
1,326.000	0.440	50.200	1,325.905	175.907	7.920	8.236	-3.531	0.32177	-0.32000	4.04000
1,351.000	0.320	52.900	1,350.904	200.906	8.024	8.365	-3.568	0.48518	-0.48000	10.80000
1,376.000	0.390	50.190	1,375.904	225.906	8.120	8.486	-3.602	0.28786	0.28000	-10.84000
1,401.000	0.350	35.620	1,400.903	250.905	8.237	8.596	-3.659	0.40752	-0.16000	-58.28000
1,426.000	0.380	25.010	1,425.903	275.905	8.374	8.676	-3.747	0.29523	0.12000	-42.44000
1,451.000	0.420	25.270	1,450.902	300.904	8.532	8.750	-3.857	0.16016	0.16000	1.04000
1,476.000	0.590	29.950	1,475.901	325.903	8.726	8.853	-3.987	0.69917	0.68000	18.72000
1,501.000	0.580	37.040	1,500.900	350.902	8.939	8.994	-4.117	0.29211	-0.04000	28.36000
1,526.000	0.560	34.740	1,525.898	375.901	9.140	9.139	-4.234	0.12154	-0.08000	-9.20000
1,551.000	0.590	40.060	1,550.897	400.900	9.339	9.292	-4.347	0.24483	0.12000	21.28000
1,576.000	0.470	26.460	1,575.896	425.899	9.530	9.420	-4.462	0.69224	-0.48000	-54.40000
1,601.000	0.500	39.530	1,600.895	450.898	9.706	9.536	-4.570	0.45739	0.12000	52.28000
1,626.000	0.570	45.530	1,625.894	475.897	9.877	9.694	-4.655	0.35827	0.28000	24.00000
1,651.000	0.420	34.010	1,650.893	500.896	10.040	9.834	-4.741	0.71716	-0.60000	-46.08000
1,676.000	0.470	25.470	1,675.892	525.895	10.208	9.929	-4.851	0.33172	0.20000	-34.16000
1,701.000	0.390	16.130	1,700.892	550.894	10.383	9.997	-4.978	0.42445	-0.32000	-37.36000
1,726.000	0.380	5.990	1,725.891	575.894	10.547	10.029	-5.112	0.27509	-0.04000	-40.56000
1,751.000	0.460	12.460	1,750.891	600.893	10.727	10.059	-5.261	0.37152	0.32000	25.88000
1,776.000	0.430	6.350	1,775.890	625.892	10.919	10.091	-5.419	0.22440	-0.12000	-24.44000
1,801.000	0.460	8.550	1,800.889	650.891	11.111	10.117	-5.581	0.13808	0.12000	8.80000
1,826.000	0.510	7.120	1,825.888	675.890	11.321	10.145	-5.757	0.20576	0.20000	-5.72000
1,851.000	0.540	4.220	1,850.887	700.889	11.549	10.168	-5.952	0.16027	0.12000	-11.60000
1,876.000	0.560	5.430	1,875.886	725.888	11.788	10.188	-6.158	0.09251	0.08000	4.84000
1,901.000	0.510	11.150	1,900.885	750.887	12.018	10.221	-6.352	0.29241	-0.20000	22.88000
1,926.000	0.440	20.570	1,925.884	775.886	12.217	10.276	-6.507	0.41861	-0.28000	37.68000
1,951.000	0.450	25.910	1,950.883	800.886	12.396	10.353	-6.634	0.17058	0.04000	21.36000
1,976.000	0.530	38.450	1,975.882	825.885	12.575	10.468	-6.744	0.53335	0.32000	50.16000
2,001.000	0.430	35.110	2,000.881	850.884	12.742	10.594	-6.840	0.41520	-0.40000	-13.36000
2,026.000	0.470	38.310	2,025.881	875.883	12.899	10.711	-6.930	0.18890	0.16000	12.80000
2,051.000	0.460	31.110	2,050.880	900.882	13.065	10.827	-7.029	0.23697	-0.04000	-28.80000
2,076.000	0.510	31.900	2,075.879	925.881	13.246	10.937	-7.143	0.20178	0.20000	3.16000
2,101.000	0.600	39.270	2,100.878	950.880	13.442	11.079	-7.258	0.45880	0.36000	29.48000
2,126.000	0.800	34.460	2,125.876	975.878	13.687	11.261	-7.399	0.83312	0.80000	-19.24000
Nudge KOP=2151' MD/ TVD										
2,151.000	0.820	32.700	2,150.873	1,000.876	13.981	11.456	-7.579	0.12768	0.08000	-7.04000
2,176.000	1.180	39.800	2,175.870	1,025.872	14.330	11.717	-7.778	1.52020	1.44000	28.40000
2,201.000	2.580	51.420	2,200.856	1,050.858	14.878	12.322	-8.008	5.77547	5.60000	46.48000

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Survey

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2,226.000	4.360	53.950	2,225.809	1,075.811	15.788	13.530	-8.299	7.14457	7.12000	10.12000
2,251.000	5.880	55.360	2,250.708	1,100.711	17.076	15.352	-8.662	6.10034	6.08000	5.64000
2,276.000	6.950	54.550	2,275.551	1,125.554	18.681	17.638	-9.109	4.29518	4.28000	-3.24000
2,301.000	7.670	53.370	2,300.348	1,150.350	20.554	20.209	-9.671	2.94180	2.88000	-4.72000
2,326.000	7.960	53.050	2,325.116	1,175.118	22.590	22.931	-10.315	1.17298	1.16000	-1.28000
2,351.000	7.950	54.150	2,349.875	1,199.878	24.643	25.716	-10.946	0.61024	-0.04000	4.40000
2,376.000	7.900	58.330	2,374.637	1,224.639	26.557	28.580	-11.419	2.31345	-0.20000	16.72000
2,401.000	8.250	64.900	2,399.389	1,249.392	28.220	31.666	-11.568	3.94543	1.40000	26.28000
2,426.000	9.060	70.280	2,424.105	1,274.107	29.645	35.144	-11.332	4.57763	3.24000	21.52000
2,451.000	10.470	73.150	2,448.742	1,298.744	30.968	39.171	-10.765	5.96493	5.64000	11.48000
2,476.000	11.630	74.130	2,473.278	1,323.281	32.315	43.769	-9.970	4.70027	4.64000	3.92000
2,500.990	12.470	74.390	2,497.717	1,347.720	33.730	48.790	-9.051	3.36835	3.36134	1.04042
2,525.990	13.180	74.950	2,522.094	1,372.096	35.197	54.142	-8.034	2.88317	2.84000	2.24000
2,550.990	13.700	75.520	2,546.409	1,396.411	36.677	59.761	-6.914	2.14642	2.08000	2.28000
2,575.990	14.760	75.460	2,570.641	1,420.644	38.217	65.710	-5.702	4.24041	4.24000	-0.24000
2,600.990	15.570	74.220	2,594.771	1,444.773	39.929	72.022	-4.488	3.48998	3.24000	-4.96000
2,625.990	16.600	73.940	2,618.792	1,468.794	41.829	78.682	-3.290	4.13166	4.12000	-1.12000
2,650.990	17.350	73.980	2,642.702	1,492.705	43.846	85.697	-2.043	3.00036	3.00000	0.16000
2,675.990	18.560	75.220	2,666.484	1,516.487	45.890	93.127	-0.638	5.07551	4.84000	-4.96000
2,700.990	19.780	77.110	2,690.098	1,540.100	47.848	101.098	1.078	5.47455	4.88000	7.56000
2,725.990	20.530	77.930	2,713.567	1,563.569	49.709	109.509	3.076	3.20575	3.00000	3.28000
2,750.990	21.740	78.690	2,736.885	1,586.887	51.534	118.336	5.287	4.96247	4.84000	3.04000
2,775.990	23.200	79.340	2,759.986	1,609.989	53.353	127.716	7.745	5.92386	5.84000	2.60000
2,800.990	23.860	79.560	2,782.907	1,632.910	55.180	137.528	10.383	2.66327	2.64000	0.88000
2,825.990	25.190	79.530	2,805.651	1,655.654	57.063	147.732	13.143	5.32023	5.32000	-0.12000
2,850.990	26.440	79.110	2,828.156	1,678.158	59.081	158.430	15.997	5.05321	5.00000	-1.68000
2,875.990	27.460	78.160	2,850.441	1,700.443	61.315	169.537	18.835	4.42847	4.08000	-3.80000
2,900.990	28.400	77.050	2,872.529	1,722.531	63.831	180.973	21.564	4.29667	3.76000	-4.44000
2,925.990	29.630	75.750	2,894.391	1,744.393	66.684	192.758	24.140	5.52857	4.92000	-5.20000
2,950.990	30.400	74.650	2,916.038	1,766.041	69.880	204.848	26.542	3.78549	3.08000	-4.40000
2,975.990	31.450	73.460	2,937.484	1,787.487	73.411	217.200	28.756	4.86028	4.20000	-4.76000
3,000.990	32.070	72.380	2,958.741	1,808.743	77.277	229.778	30.768	3.36458	2.48000	-4.32000
3,025.990	32.490	71.440	2,979.877	1,829.879	81.423	242.469	32.577	2.61810	1.68000	-3.76000
3,050.990	32.300	70.400	3,000.987	1,850.989	85.801	255.126	34.163	2.35472	-0.76000	-4.16000
3,075.990	31.970	69.450	3,022.157	1,872.159	90.365	267.616	35.509	2.41409	-1.32000	-3.80000
3,100.990	31.780	68.910	3,043.387	1,893.389	95.057	279.956	36.673	1.37062	-0.76000	-2.16000
3,125.990	32.360	68.380	3,064.572	1,914.574	99.891	292.318	37.720	2.57863	2.32000	-2.12000
3,150.990	32.760	68.790	3,085.642	1,935.645	104.803	304.844	38.768	1.82729	1.60000	1.64000
3,175.990	33.520	69.840	3,106.576	1,956.578	109.630	317.630	40.007	3.80958	3.04000	4.20000
3,200.990	34.170	70.490	3,127.340	1,977.342	114.353	330.727	41.474	2.97602	2.60000	2.60000
3,225.990	34.700	70.920	3,147.959	1,997.961	119.024	344.070	43.095	2.33245	2.12000	1.72000
3,250.990	35.460	71.330	3,168.417	2,018.420	123.672	357.665	44.848	3.18275	3.04000	1.64000

EQT

Survey Report

Database: DM_Definitive	Local Co-ordinate Reference: Well Hines M18H
Company: EQT (Chevron Data) 02-13-21	TVD Reference: GL @ 1125.00 & 25' KB @ 1149.998usft (PD572)
Project: Marshall County, WV Chevron	MD Reference: GL @ 1125.00 & 25' KB @ 1149.998usft (PD572)
Site: Hines Pad EQT	North Reference: True
Well: Hines M18H	Survey Calculation Method: Minimum Curvature
Wellbore: OH	
Design: Hines M18H 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)
3,275.990	36.630	71.590	3,188.631	2,038.633	128.349	371.612	46.728	4.71983	4.68000	1.04000
3,300.990	37.510	71.660	3,208.578	2,058.580	133.099	385.914	48.696	3.52404	3.52000	0.28000
3,325.990	39.210	72.020	3,228.181	2,078.183	137.934	400.656	50.781	6.85845	6.80000	1.44000
3,350.990	40.790	72.590	3,247.331	2,097.334	142.817	415.965	53.070	6.48764	6.32000	2.28000
Hines A NE3 BHL										
3,375.990	42.060	73.940	3,266.077	2,116.079	147.577	431.805	55.701	6.21038	5.08000	5.40000
3,400.990	43.340	75.230	3,284.450	2,134.452	152.081	448.148	58.783	6.20137	5.12000	5.16000
Hines A NE3 AZI										
3,425.990	44.170	76.650	3,302.507	2,152.510	156.279	464.919	62.326	5.14307	3.32000	5.68000
3,450.990	45.050	78.830	3,320.306	2,170.308	160.004	482.074	66.462	7.06305	3.52000	8.72000
3,475.990	46.080	79.360	3,337.808	2,187.811	163.381	499.603	71.075	4.38927	4.12000	2.12000
3,500.990	47.760	79.560	3,354.883	2,204.885	166.720	517.554	75.906	6.74535	6.72000	0.80000
3,525.990	49.300	79.760	3,371.438	2,221.441	170.082	535.982	80.925	6.18909	6.16000	0.80000
3,550.990	51.170	79.460	3,387.429	2,237.431	173.548	554.883	86.056	7.53664	7.48000	-1.20000
3,575.990	53.040	78.730	3,402.783	2,252.786	177.282	574.253	91.152	7.82680	7.48000	-2.92000
3,600.990	54.700	77.790	3,417.524	2,267.526	181.392	594.022	96.083	7.30140	6.64000	-3.76000
3,625.990	56.320	77.620	3,431.680	2,281.682	185.780	614.154	100.923	6.50419	6.48000	-0.68000
3,650.990	57.090	77.260	3,445.403	2,295.406	190.324	634.550	105.736	3.30682	3.08000	-1.44000
3,675.990	57.200	76.830	3,458.966	2,308.969	195.033	655.016	110.434	1.51039	0.44000	-1.72000
3,700.990	56.420	76.080	3,472.652	2,322.654	199.932	675.356	114.904	4.00464	-3.12000	-3.00000
3,725.990	56.240	75.740	3,486.512	2,336.514	204.997	695.536	119.155	1.34145	-0.72000	-1.36000
3,750.990	55.710	75.240	3,500.501	2,350.503	210.188	715.595	123.240	2.69109	-2.12000	-2.00000
3,775.990	56.400	75.170	3,514.461	2,364.463	215.484	735.646	127.227	2.76976	2.76000	-0.28000
3,800.990	56.750	75.720	3,528.232	2,378.234	220.727	755.842	131.325	2.30898	1.40000	2.20000
3,825.990	56.500	75.320	3,541.985	2,391.987	225.947	776.056	135.452	1.66891	-1.00000	-1.60000
3,850.990	56.260	74.560	3,555.827	2,405.829	231.356	796.159	139.360	2.70740	-0.96000	-3.04000
3,875.990	56.910	74.430	3,569.594	2,419.597	236.935	816.267	143.118	2.63598	2.60000	-0.52000
3,900.990	57.940	74.290	3,583.054	2,433.057	242.614	836.554	146.863	4.14694	4.12000	-0.56000
3,910.990	58.350	74.230	3,588.332	2,438.334	244.919	844.729	148.358	4.13155	4.10000	-0.60000
3,976.992	59.080	74.500	3,622.606	2,472.609	260.120	899.046	158.391	1.15996	1.10603	0.40908
4,069.992	58.540	75.230	3,670.769	2,520.772	280.893	975.843	173.221	0.88771	-0.58065	0.78495
4,165.991	57.730	75.380	3,721.449	2,571.451	301.575	1,054.707	189.036	0.85412	-0.84375	0.15625
4,259.991	56.660	76.490	3,772.377	2,622.379	320.780	1,131.343	205.208	1.51022	-1.13830	1.18085
4,352.991	55.280	75.730	3,824.421	2,674.424	339.277	1,206.160	221.223	1.63110	-1.48387	-0.81721
4,446.991	54.420	74.720	3,878.539	2,728.542	358.874	1,280.476	236.030	1.26839	-0.91490	-1.07447
4,539.991	54.560	73.550	3,932.559	2,782.561	379.569	1,353.294	249.194	1.03508	0.15054	-1.25807
4,633.991	54.790	74.620	3,986.912	2,836.914	400.598	1,427.045	262.466	0.96041	0.24468	1.13830
4,727.990	55.910	73.660	4,040.357	2,890.359	421.734	1,501.426	275.916	1.45789	1.19149	-1.02128
4,820.990	58.020	75.740	4,091.057	2,941.059	442.288	1,576.622	290.245	2.94315	2.26882	2.23656
4,914.990	57.820	74.720	4,140.981	2,990.983	462.592	1,653.635	305.593	0.94371	-0.21277	-1.08511
5,007.990	56.450	74.450	4,191.447	3,041.450	483.353	1,728.939	319.783	1.49317	-1.47312	-0.29032
5,101.990	56.520	76.700	4,243.354	3,093.357	502.874	1,804.832	335.346	1.99701	0.07447	2.39362

EQT

Survey Report

Database: EDM_Definitive	Local Co-ordinate Reference: Well Hines M18H
Company: EQT (Chevron Data) 02-13-21	TVD Reference: GL @ 1125.00' & 25' KB @ 1149.988usft (PD572)
Project: Marshall County, WV Chevron	MD Reference: GL @ 1125.00' & 25' KB @ 1149.988usft (PD572)
Site: Hines Pad EQT	North Reference: True
Well: Hines M18H	Survey Calculation Method: Minimum Curvature
Wellbore: OH	
Design: Hines M18H 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)
5,195.989	58.050	77.200	4,294.156	3,144.159	520.729	1,881.876	352.911	1.68806	1.62766	0.53192
5,290.989	57.810	76.320	4,344.598	3,194.600	539.165	1,960.238	370.527	0.82461	-0.25263	-0.92632
5,384.989	56.610	75.030	4,395.505	3,245.507	558.710	2,036.800	386.361	1.72062	-1.27660	-1.37234
5,478.989	55.590	75.590	4,447.932	3,297.935	578.497	2,112.269	401.499	1.19246	-1.08511	0.59575
5,572.989	55.740	74.780	4,500.952	3,350.954	598.345	2,187.308	416.396	0.72923	0.15957	-0.86170
5,665.988	56.870	77.410	4,552.551	3,402.553	616.925	2,262.408	432.459	2.64795	1.21506	2.82796
5,759.988	58.920	77.740	4,602.507	3,452.509	634.054	2,340.164	450.988	2.20103	2.18086	0.35106
5,852.988	57.560	76.480	4,651.459	3,501.461	651.687	2,417.242	468.768	1.86156	-1.46237	-1.35484
Final MWD=5947' MD/ 4704' TVD										
5,946.988	55.050	74.600	4,703.606	3,553.608	671.194	2,492.966	484.269	3.14609	-2.67022	-2.00000
Projection to Top Hole TD=6012' MD/4741' TVD - Hines A SE1 70° - Hines NE3 70° - Hines A NE3 LP -603 VS - Hines A NE3 LP - Hines A NE										
6,012.000	55.050	74.600	4,740.849	3,590.851	685.345	2,544.340	493.961	0.00000	0.00000	0.00000

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (807.723)	+E/-W (5,043.761)	Northing (usft)	Easting (usft)	Latitude	Longitude	
(1) Hines M18H LP - Re	0.000	0.000	6,269.98	807.723	5,043.761	515,190.013	1,637,169.165	39.9084701	80.6811501°W	
- actual wellpath misses target center by 2932.635usft at 6012.000usft MD (4740.849 TVD, 685.345 N, 2544.340 E)										
- Point										
Hines M01H LP - Rev-2	0.000	0.000	6,269.98	1,112.556	56.254	515,561.390	1,632,186.170	39.9093083	80.6989294°W	
- actual wellpath misses target center by 2739.688usft at 4877.398usft MD (4120.982 TVD, 454.312 N, 1622.900 E)										
- Point										
(2) Hines M18H BHL - Re	0.000	0.000	6,269.98	-7,237.401	8,946.967	507,093.508	1,640,964.642	39.8863810	80.6672463°W	
- actual wellpath misses target center by 10300.573usft at 6012.000usft MD (4740.849 TVD, 685.345 N, 2544.340 E)										
- Point										
(1) Hines M18H LP - Re	0.000	0.000	6,269.98	761.841	5,066.022	515,143.838	1,637,190.811	39.9083441	80.6810708°W	
- actual wellpath misses target center by 2950.084usft at 6012.000usft MD (4740.849 TVD, 685.345 N, 2544.340 E)										
- Point										

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,151.000	2,150.873	13.981	11.456	Nudge KOP=2151' MD/ TVD
5,946.988	4,703.606	671.194	2,492.966	Final MWD=5947' MD/ 4704' TVD
6,012.000	4,740.849	685.345	2,544.340	Projection to Top Hole TD=6012' MD/4741' TVD

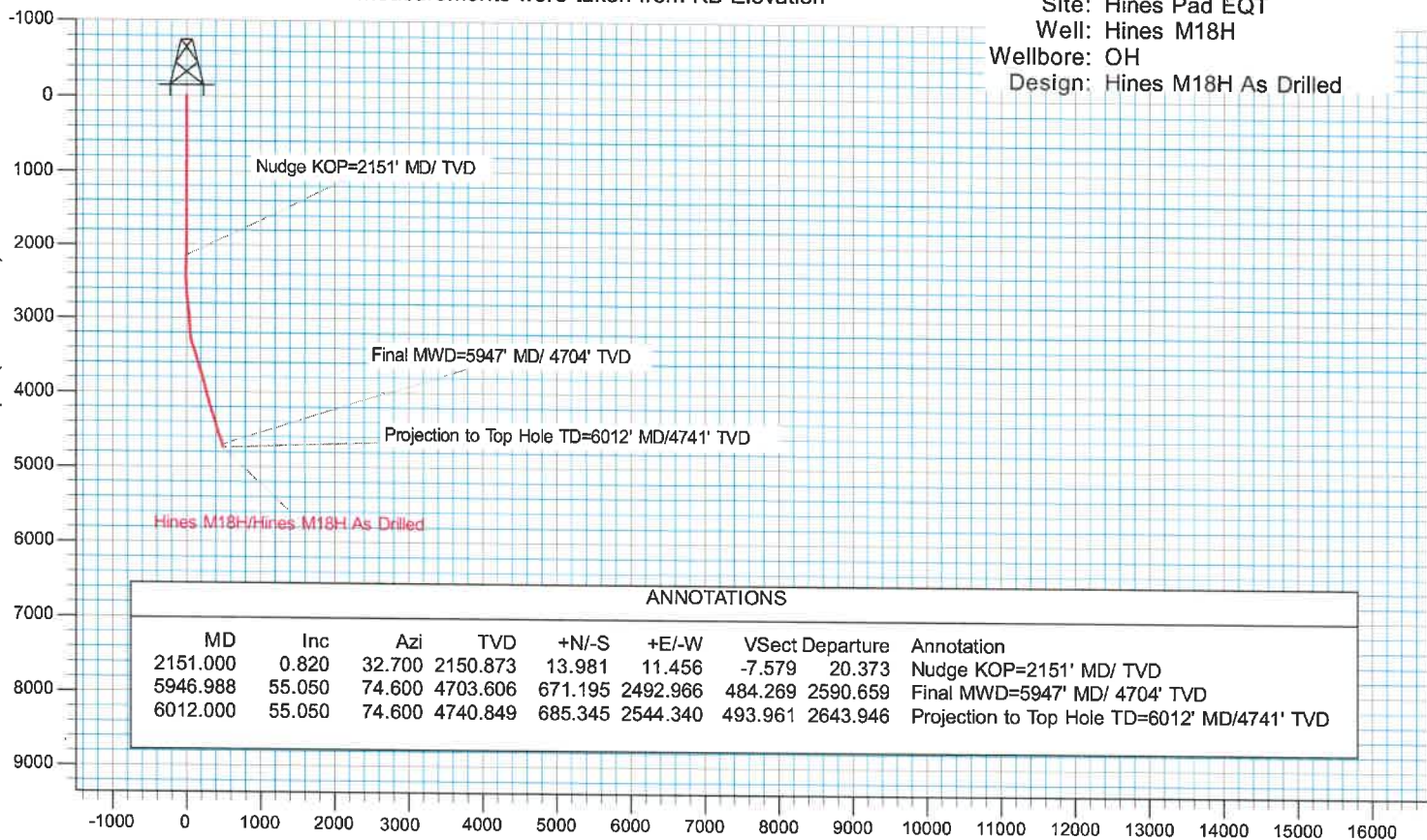
Checked By: _____ Approved By: _____ Date: _____



EQT (Chevron Data) 02-13-21

KB Elevation= GL @ 1125.00 & 25' KB @ 1149.998usft (PD572)
 Ground Elevation= 1124.998
 All measurements were taken from KB Elevation

Project: Marshall County, WV Chevron
 Site: Hines Pad EQT
 Well: Hines M18H
 Wellbore: OH
 Design: Hines M18H As Drilled



Vertical Section at 154.120° (2500 usft/in)

