



EQT (Chevron Data) 02-13-21

Marshall County, WV Chevron

Freeland

M04H Plat

Wellbore #1

Design: Freeland M04H Final As Drilled

Standard Survey Report

23 August, 2021



EQT
Survey Report

Database:	EDM_Definitive	Local Co-ordinate Reference:	Well M04H Plat
Company:	EQT (Chevron Data) 02-13-21	TVD Reference:	KB@27 @ 1301.000usft
Project:	Marshall County, WV Chevron	MD Reference:	KB@27 @ 1301.000usft
Site:	Freeland	North Reference:	True
Well:	M04H Plat	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Freeland M04H Final 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	Freeland				
Site Position:		Northing:	500,572.528 usft	Latitude:	39.87
From:	Lat/Long	Easting:	1,614,533.947 usft	Longitude:	-80.76
Position Uncertainty:	0.000 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.8043 °

Well	M04H Plat					
Well Position	+N/-S	0.000 usft	Northing:	500,615.660 usft	Latitude:	39.8676180
	+E/-W	0.000 usft	Easting:	1,614,521.990 usft	Longitude:	80.7611447°W
Position Uncertainty		0.000 usft	Wellhead Elevation:	usft	Ground Level:	1,274.000 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	9/26/2019	-7.9000	66.8500	52,295.90000000

Design	Freeland M04H Final 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	205.685	

Survey Program	Date	8/23/2021			
From (°)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	651.998	Freeland M04H Gyro Survey (Wellbore #1	53_SD1_Keeper_WL_NS+CTSDI_101Ga - SDI	Keep static gyrocompass with con c	
0.00	2,260.991	Freeland M04H Air MWD (Wellbore #1)	10_MWD+IFR1+AX c	A006Mb: IFR dec & axial corrections c	

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	-1,301.000	0.000	0.000	0.000	0.00000	0.00000	0.00000	
27.000	0.000	299.390	27.000	-1,274.000	0.000	0.000	0.000	0.00000	0.00000	0.00000	
100.000	0.030	299.390	100.000	-1,201.000	0.009	-0.017	-0.001	0.04110	0.04110	0.00000	
125.000	0.140	214.890	124.999	-1,176.000	-0.012	-0.040	0.028	0.56136	0.44000	-338.00126	
149.999	0.150	241.190	149.999	-1,151.001	-0.053	-0.086	0.085	0.26676	0.04000	105.20040	
174.999	0.280	245.460	174.999	-1,126.001	-0.094	-0.170	0.159	0.52358	0.52000	17.08006	
199.999	0.280	240.420	199.999	-1,101.001	-0.150	-0.279	0.256	0.09849	0.00000	-20.16008	



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Site:	Freeland	North Reference:	True
Well:	M04H Plat	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Freeland M04H Final 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)
224.999	0.340	242.130	224.998	-1,076.002	-0.215	-0.398	0.366	0.24281	0.24000	6.84003
249.999	0.290	226.870	249.998	-1,051.002	-0.293	-0.509	0.485	0.38891	-0.20000	-61.04023
274.999	0.130	263.330	274.997	-1,026.002	-0.339	-0.584	0.559	0.80357	-0.64000	145.84055
299.999	0.110	309.810	299.997	-1,001.003	-0.327	-0.630	0.568	0.38587	-0.08000	185.92070
324.999	0.220	273.740	324.997	-976.003	-0.309	-0.697	0.580	0.58486	0.44000	-144.28054
349.999	0.370	274.990	349.997	-951.003	-0.299	-0.825	0.627	0.60052	0.60000	5.00002
374.999	0.380	283.050	374.996	-926.004	-0.273	-0.986	0.673	0.21458	0.04000	32.24012
399.998	0.170	287.740	399.996	-901.004	-0.243	-1.102	0.697	0.84411	-0.84000	18.76007
424.998	0.190	271.370	424.995	-876.004	-0.230	-1.179	0.719	0.21977	0.08000	-65.48025
449.998	0.260	219.380	449.995	-851.005	-0.273	-1.256	0.791	0.82810	0.28000	-207.96077
474.998	0.410	193.680	474.995	-826.005	-0.404	-1.314	0.933	0.83513	0.60000	-102.80039
499.998	0.280	207.950	499.994	-801.006	-0.545	-1.363	1.082	0.61948	-0.52000	57.08021
524.998	0.270	231.500	524.994	-776.006	-0.636	-1.438	1.196	0.45066	-0.04000	94.20035
549.998	0.270	237.330	549.993	-751.007	-0.704	-1.534	1.299	0.10985	0.00000	23.32009
574.998	0.290	230.080	574.993	-726.007	-0.776	-1.632	1.407	0.16258	0.08000	-29.00011
599.998	0.160	193.460	599.993	-701.007	-0.851	-1.688	1.499	0.75066	-0.52000	-146.48055
624.998	0.150	164.970	624.993	-676.007	-0.917	-1.688	1.558	0.30758	-0.04000	-113.96043
649.998	0.070	269.280	649.992	-651.008	-0.948	-1.695	1.589	0.72212	-0.32000	417.24156
651.998	0.080	277.580	651.992	-649.008	-0.948	-1.698	1.590	0.73708	0.50000	415.00155
Final Gyro Survey=652' MD										
652.000	0.080	277.580	651.995	-649.005	-0.948	-1.698	1.590	0.00000	0.00000	0.00000
749.997	0.270	177.120	749.992	-551.008	-1.170	-1.754	1.814	0.30123	0.19388	-102.51314
838.997	0.330	234.920	838.990	-462.010	-1.527	-1.953	2.222	0.33111	0.06742	64.94406
928.996	0.580	194.550	928.987	-372.013	-2.116	-2.279	2.895	0.43554	0.27778	-44.85572
1,018.996	0.700	196.520	1,018.981	-282.019	-3.084	-2.550	3.885	0.13554	0.13333	2.18890
1,108.996	1.330	209.340	1,108.966	-192.033	-4.522	-3.218	5.470	0.73980	0.70000	14.24450
1,197.995	1.860	198.160	1,197.932	-103.068	-6.795	-4.175	7.933	0.68785	0.59551	-12.56184
1,287.995	2.540	202.700	1,287.864	-13.136	-10.022	-5.399	11.372	0.77939	0.75556	5.04446
1,377.995	3.110	193.110	1,377.755	76.755	-14.240	-6.723	15.747	0.82066	0.63334	-10.65560
1,466.994	3.060	192.570	1,466.625	165.626	-18.910	-7.787	20.417	0.06498	-0.05618	-0.60674
1,556.994	3.780	207.230	1,556.466	255.466	-23.892	-9.668	25.722	1.25248	0.80000	16.28895
1,648.994	5.250	213.570	1,648.178	347.178	-30.096	-13.383	32.923	1.68502	1.59783	6.89133
1,737.993	5.860	210.170	1,736.760	435.760	-37.417	-17.918	41.486	0.77851	0.68540	-3.82024
1,827.993	5.900	206.210	1,826.286	525.286	-45.539	-22.270	50.692	0.45286	0.04444	-4.40002
1,916.993	6.550	200.160	1,914.762	613.762	-54.408	-26.040	60.318	1.03670	0.73034	-6.79778
2,006.992	6.100	208.480	2,004.215	703.215	-63.430	-30.089	70.204	1.13319	-0.50000	9.24448
2,096.992	6.290	208.360	2,093.689	792.689	-71.972	-34.711	79.905	0.21160	0.21111	-0.13333
2,186.992	6.360	204.310	2,183.141	882.142	-80.854	-39.105	89.814	0.50171	0.07778	-4.50002
Final MWD Survey=2187' MD/ 2183' TVD										



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2,187.000	6.360	204.310	2,183.150	882.150	-80.854	-39.106	89.814	0.00000	0.00000	0.00000	
Projection to BHL=2260' MD/ 2256' TVD											
2,260.000	6.360	204.310	2,255.700	954.700	-88.224	-42.435	97.899	0.00000	0.00000	0.00000	
2,260.991	6.360	204.310	2,256.686	955.686	-88.324	-42.480	98.009	0.00000	0.00000	0.00000	

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
652.000	651.995	-0.948	-1.698	Final Gyro Survey=652' MD	
2,187.000	2,183.150	-80.854	-39.106	Final MWD Survey=2187' MD/ 2183' TVD	
2,260.000	2,255.700	-88.224	-42.435	Projection to BHL=2260' MD/ 2256' TVD	

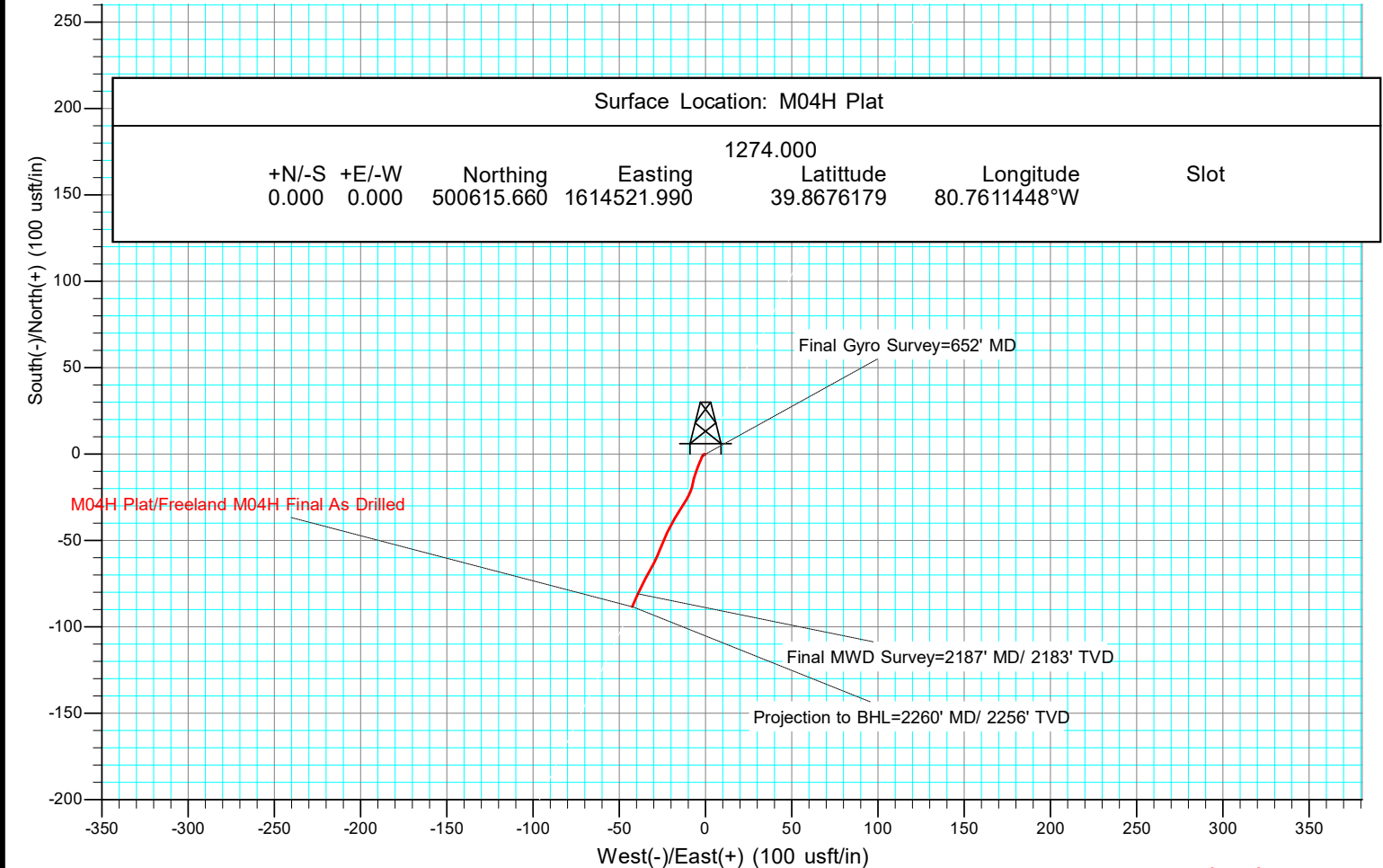
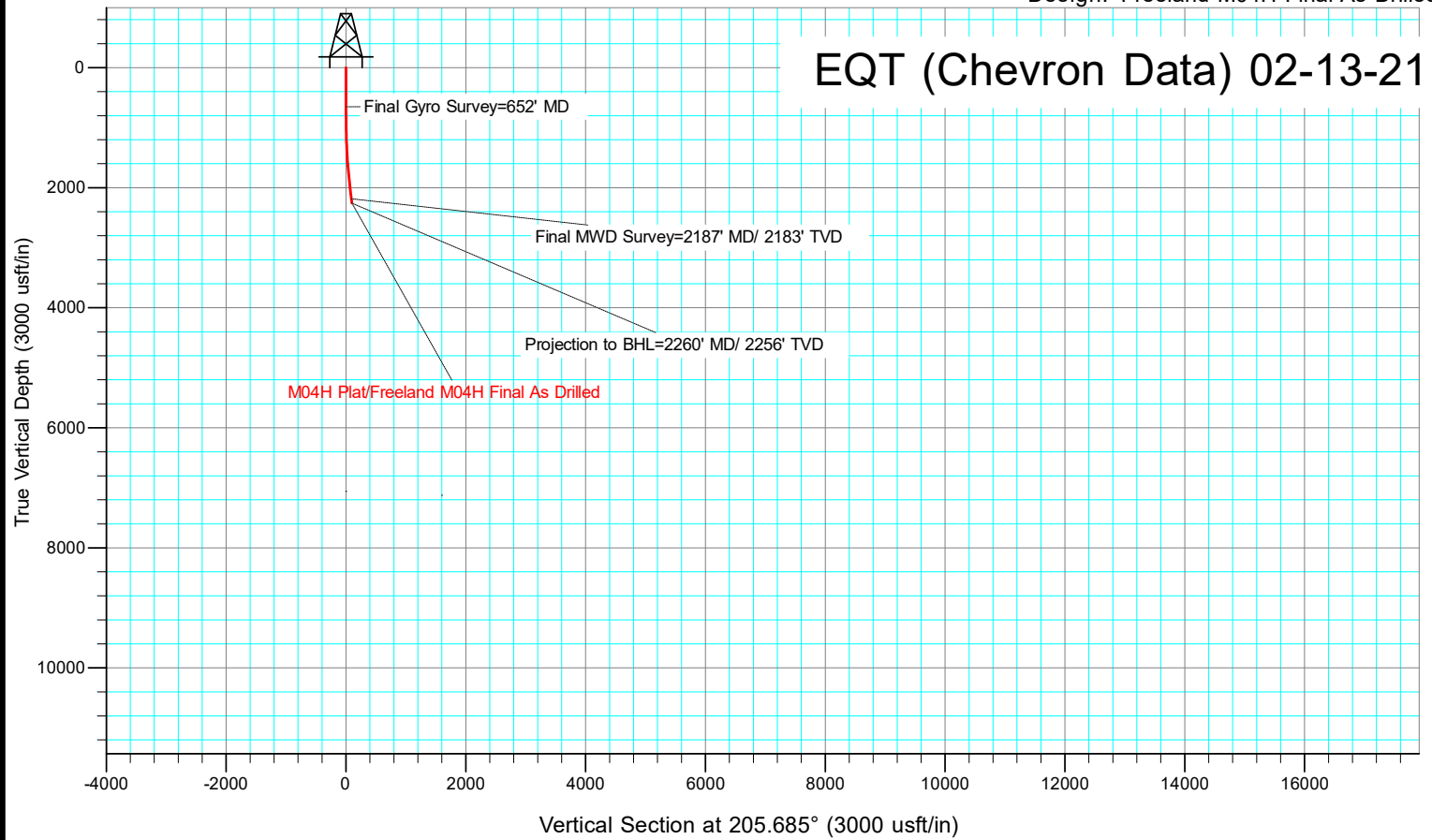
Checked By: _____ Approved By: _____ Date: _____



KB Elevation= KB@27 @ 1301.000usft
 Ground Elevation= 1274.000
 All measurements were taken from KB Elevation

Project: Marshall County, WV Chevron
 Site: Freeland
 Well: M04H Plat
 Wellbore: Wellbore #1
 Design: Freeland M04H Final As Drilled

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11/19/2021