

EQT (Chevron Data) 02-13-21

Marshall County, WV Chevron

Longworth

M01H

OH - ST01

Design: Longworth 1H As Drilled ST01

Standard Survey Report

30 June, 2021

EQT
Survey Report

Database:	EDM_Definitive	Local Co-ordinate Reference:	Well M01H
Company:	EQT (Chevron Data) 02-13-21	TVD Reference:	Air RKB @ 1294.000usft (Highlands 9)
Project:	Marshall County, WV Chevron	MD Reference:	Air RKB @ 1294.000usft (Highlands 9)
Site:	Longworth	North Reference:	True
Well:	M01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH - ST01		
Design:	Longworth 1H As Drilled ST01		

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	Longworth				
Site Position:		Northing:	493,086.404 usft	Latitude:	39.85
From:	Map	Easting:	1,624,022.636 usft	Longitude:	-80.73
Position Uncertainty:	0.000 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.7825 °

Well	M01H					
Well Position	+N/-S	0.000 usft	Northing:	493,083.529 usft	Latitude:	39.8473048
	+E/-W	0.000 usft	Easting:	1,624,067.410 usft	Longitude:	80.7267744°W
Position Uncertainty		0.000 usft	Wellhead Elevation:	0.000 usft	Ground Level:	1,270.000 usft

Wellbore	OH - ST01				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	4/19/2019	-8.0500	66.8500	52,329.40000000

Design	Longworth 1H As Drilled ST01				
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	320.590	

Survey Program	Date	6/22/2021			
From (')	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	1,250.000	OH - ST01 (OH - ST01)	MWD c	MWD - Standard 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	-1,294.000	0.000	0.000	0.000	0.00000	0.00000	0.00000	
24.000	0.000	177.430	24.000	-1,270.000	0.000	0.000	0.000	0.00000	0.00000	0.00000	
100.000	0.040	177.430	100.000	-1,194.000	-0.027	0.001	-0.021	0.05263	0.05263	0.00000	
125.000	0.150	132.310	125.000	-1,169.000	-0.057	0.026	-0.061	0.50012	0.44000	-180.4800	
150.000	0.280	50.440	150.000	-1,144.000	-0.040	0.097	-0.093	1.19345	0.52000	0	
175.000	0.190	46.060	175.000	-1,119.000	0.027	0.174	-0.089	0.36684	-0.36000	-17.52000	
200.000	0.100	21.930	200.000	-1,094.000	0.076	0.212	-0.076	0.42747	-0.36000	-96.52000	

EQT
Survey Report

Database:	EDM_Definitive	Local Co-ordinate Reference:	Well M01H
Company:	EQT (Chevron Data) 02-13-21	TVD Reference:	Air RKB @ 1294.000usft (Highlands 8)
Project:	Marshall County, WV Chevron	MD Reference:	Air RKB @ 1294.000usft (Highlands 9)
Site:	Longworth	North Reference:	True
Well:	M01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH - ST01		
Design:	Longworth 1H As Drilled ST01		

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)
225.000	0.130	113.520	224.999	-1,069.000	0.085	0.246	-0.090	0.66479	0.12000	366.36000
250.000	0.350	81.100	249.999	-1,044.001	0.086	0.348	-0.154	1.00066	0.88000	-129.68000
275.000	0.410	72.370	274.999	-1,019.001	0.125	0.508	-0.226	0.33287	0.24000	0
300.000	0.460	66.210	299.998	-994.002	0.192	0.685	-0.287	0.27358	0.20000	-34.92000
325.000	0.430	67.920	324.997	-969.003	0.268	0.864	-0.342	0.13122	-0.12000	-24.64000
350.000	0.500	84.680	349.996	-944.004	0.313	1.060	-0.431	0.60881	0.28000	6.84000
375.000	0.420	99.350	374.996	-919.004	0.309	1.259	-0.561	0.56698	-0.32000	67.04000
400.000	0.610	88.880	399.995	-894.005	0.296	1.482	-0.712	0.84504	0.76000	58.68000
425.000	0.730	79.430	424.993	-869.007	0.328	1.772	-0.871	0.65098	0.48000	-41.88000
450.000	0.730	74.810	449.991	-844.009	0.399	2.082	-1.014	0.23538	0.00000	-37.80000
475.000	0.680	67.130	474.989	-819.011	0.498	2.372	-1.121	0.42718	-0.20000	-18.48000
500.000	0.780	67.030	499.987	-794.013	0.622	2.666	-1.211	0.40003	0.40000	-30.72000
525.000	0.800	72.720	524.985	-769.015	0.741	2.989	-1.325	0.32369	0.08000	-0.40000
550.000	0.680	80.530	549.982	-744.017	0.817	3.302	-1.465	0.62599	-0.48000	22.76000
694.000	1.110	65.900	693.965	-600.035	1.527	5.418	-2.260	0.33581	0.29861	31.24000
765.000	1.190	68.660	764.950	-529.049	2.076	6.733	-2.670	0.13702	0.11268	-10.15972
819.000	0.440	67.280	818.945	-475.055	2.360	7.446	-2.904	1.38926	-1.38889	3.88732
913.000	0.770	201.210	912.942	-381.058	1.911	7.551	-3.317	1.19253	0.35106	-2.55556
1,007.000	2.240	212.260	1,006.907	-287.093	-0.232	6.341	-4.205	1.58680	1.56383	142.47873
Final ST Survey=1100' MD/TVD										
1,100.000	2.380	215.290	1,099.832	-194.168	-3.345	4.256	-5.286	0.19972	0.15054	11.75532
Projection to ST TD=1250' MD/ TVD										
1,250.000	2.380	215.290	1,249.702	-44.298	-8.429	0.657	-6.930	0.00000	0.00000	3.25806

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,100.000	1,099.832	-3.345	4.256	Final ST Survey=1100' MD/TVD
1,250.000	1,249.702	-8.429	0.657	Projection to ST TD=1250' MD/ TVD

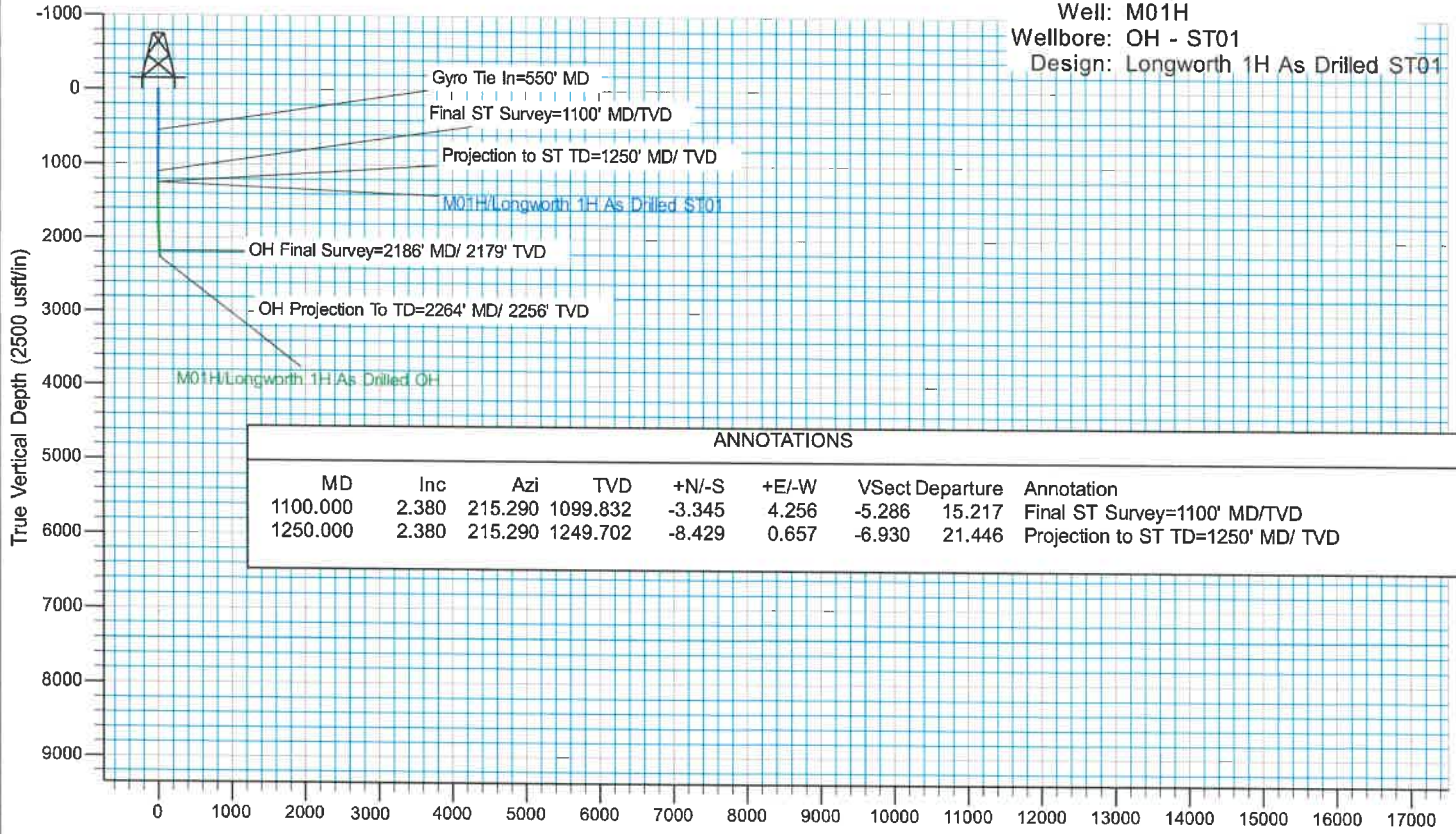
Checked By: _____ Approved By: _____ Date: _____



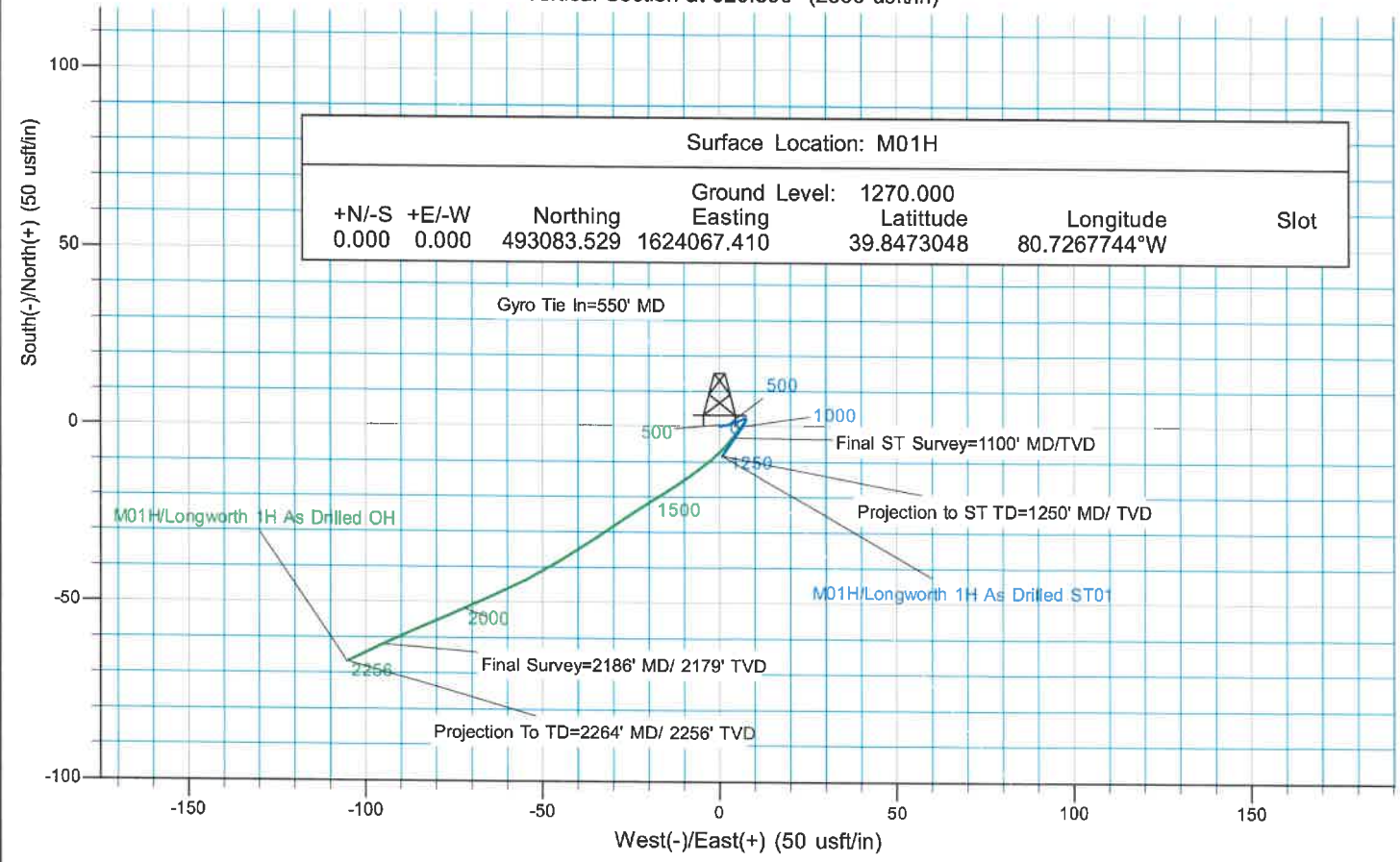
EQT (Chevron Data) 02-13-21

KB Elevation= Air RKB @ 1294.000usft (Highlands 9)
 Ground Elevation= 1270.000
 All measurements were taken from KB Elevation

Project: Marshall County, WV Chevron
 Site: Longworth
 Well: M01H
 Wellbore: OH - ST01
 Design: Longworth 1H As Drilled ST01



ANNOTATIONS								
MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
1100.000	2.380	215.290	1099.832	-3.345	4.256	-5.286	15.217	Final ST Survey=1100' MD/TVD
1250.000	2.380	215.290	1249.702	-8.429	0.657	-6.930	21.446	Projection to ST TD=1250' MD/ TVD



Surface Location: M01H							
+N/-S	+E/-W	Northing	Easting	Ground Level:	Latitude	Longitude	Slot
0.000	0.000	493083.529	1624067.410	1270.000	39.8473048	80.7267744°W	