

91-01250

PHOENIX
TECHNOLOGY SERVICES



EQT Production - Marcellus

Taylor County, WV
Taylor County 514301
Well 514301

Main Wellbore

Design: As Drilled Surveys

Standard Survey Report

05 March, 2014



09/19/2014

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site Taylor County 514301
Company:	EOT Production - Marcellus	TVD Reference:	KB @ 1606.0usft
Project:	Taylor County, WV	MD Reference:	KB @ 1606.0usft
Site:	Taylor County 514301	North Reference:	Grid
Well:	Well 514301	Survey Calculation Method:	Minimum Curvature
Wellbore:	Main Wellbore		
Design:	As Drilled Surveys		

Project	Taylor County, WV
----------------	-------------------

Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	West Virginia North 4701		Using geodetic scale factor

Site	Taylor County 514301
-------------	----------------------

Site Position:		Northing:	297,174.40 usft	Latitude:	39.31
From:	Map	Easting:	1,810,080.80 usft	Longitude:	-80.17
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.43 °

Well	Well 514301
-------------	-------------

Well Position	+N/-S	0.0 usft	Northing:	297,174.40 usft	Latitude:	39° 18' 50.298 N
	+E/-W	0.0 usft	Easting:	1,810,080.80 usft	Longitude:	80° 10' 16.458 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	1,590.0 usft

Wellbore	Main Wellbore
-----------------	---------------

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	1/2/2014	-8.89	66.79	52,286

Design	As Drilled Surveys
---------------	--------------------

Audit Notes:

Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
-----------------	-----	---------------	--------	----------------------	-----

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	167.57

Survey Program	Date	3/5/2014
-----------------------	------	----------

From (')	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	6,220.0	514301 Gyrodata Gyro (Main Wellbore)	GYD_DP_MS	Gyrodata gyro-compassing and drop
0.00	19,660.0	514301 PHX MWD (Main Wellbore)	MWD	MWD - Standard

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)
0.0	0.00	0.00	0.0	-1,606.0	0.0	0.0	0.0	0.00	0.00	0.00
103.0	0.64	310.24	103.0	-1,503.0	0.4	-0.4	-0.5	0.62	0.62	0.00
203.0	0.61	309.81	203.0	-1,403.0	1.1	-1.3	-1.3	0.03	-0.03	-0.43
303.0	0.53	318.59	303.0	-1,303.0	1.8	-2.0	-2.1	0.12	-0.08	8.78
403.0	0.50	317.14	403.0	-1,203.0	2.4	-2.6	-2.9	0.03	-0.03	-1.45
503.0	0.46	314.12	503.0	-1,103.0	3.0	-3.2	-3.6	0.05	-0.04	-3.02
603.0	0.40	310.30	603.0	-1,003.0	3.5	-3.7	-4.3	0.07	-0.06	-3.82
703.0	0.33	288.85	703.0	-903.0	3.9	-4.3	-4.7	0.15	-0.07	-21.44



91.01250

Phoenix Technology Services
Survey Report



Database:	EDM 5000.1 Single User.Dbt	Local Co-ordinate Reference:	Site Taylor County 514301
Company:	EQT Production - Marcellus	TVD Reference:	KB @ 1005.0usft
Project:	Taylor County, WV	MD Reference:	KB @ 1905.0usft
Site:	Taylor County 514301	North Reference:	Grid
Well:	Well 514301	Survey Calculation Method:	Minimum Curvature
Wellbore:	Main Wellbore		
Design:	As Drilled Surveys		

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)
803.0	0.35	295.98	803.0	-803.0	4.1	-4.8	-5.0	0.05	0.02	7.12
903.0	0.31	302.07	903.0	-703.0	4.4	-5.3	-5.4	0.05	-0.04	6.09
1,003.0	0.23	353.36	1,003.0	-603.0	4.7	-5.6	-5.8	0.24	-0.08	51.29
1,103.0	0.24	11.92	1,103.0	-503.0	5.1	-5.6	-6.2	0.08	0.01	18.56
1,203.0	0.42	24.98	1,203.0	-403.0	5.6	-5.4	-6.7	0.19	0.18	13.06
1,303.0	0.44	25.61	1,303.0	-303.0	6.3	-5.0	-7.3	0.02	0.02	0.63
1,403.0	0.46	19.26	1,403.0	-203.0	7.0	-4.7	-7.9	0.05	0.02	-6.35
1,503.0	0.50	14.55	1,503.0	-103.0	7.8	-4.5	-8.6	0.06	0.04	-4.71
1,603.0	0.51	12.28	1,603.0	-3.0	8.7	-4.3	-9.4	0.02	0.01	-2.27
1,703.0	0.52	10.54	1,703.0	97.0	9.6	-4.1	-10.2	0.02	0.01	-1.74
1,803.0	0.54	6.37	1,802.9	196.9	10.5	-4.0	-11.1	0.04	0.02	-4.17
1,903.0	0.62	352.67	1,902.9	296.9	11.5	-4.0	-12.1	0.16	0.08	-13.70
2,003.0	0.79	334.52	2,002.9	396.9	12.7	-4.4	-13.3	0.28	0.17	-18.15
2,103.0	0.94	320.73	2,102.9	496.9	13.9	-5.2	-14.7	0.26	0.15	-13.79
2,203.0	0.87	317.90	2,202.9	596.9	15.1	-6.2	-16.1	0.08	-0.07	-2.83
2,303.0	0.64	322.84	2,302.9	696.9	16.1	-7.0	-17.3	0.24	-0.23	4.94
2,403.0	0.49	330.36	2,402.9	796.9	16.9	-7.6	-18.2	0.17	-0.15	7.52
2,503.0	0.18	331.92	2,502.9	896.9	17.5	-7.9	-18.7	0.31	-0.31	1.56
2,603.0	0.08	298.53	2,602.9	996.9	17.6	-8.0	-18.9	0.12	-0.10	-33.39
2,703.0	0.34	320.34	2,702.9	1,096.9	17.9	-8.3	-19.2	0.27	0.26	21.81
2,803.0	0.50	317.30	2,802.9	1,196.9	18.4	-8.8	-19.9	0.16	0.16	-3.04
2,903.0	0.56	316.59	2,902.9	1,296.9	19.1	-9.4	-20.7	0.06	0.06	-0.71
3,003.0	0.69	315.97	3,002.9	1,396.9	19.9	-10.1	-21.6	0.13	0.13	-0.62
3,103.0	0.86	310.98	3,102.9	1,496.9	20.8	-11.1	-22.7	0.18	0.17	-4.99
3,203.0	1.06	312.48	3,202.9	1,596.9	21.9	-12.4	-24.1	0.20	0.20	1.50
3,303.0	1.11	312.76	3,302.8	1,696.8	23.2	-13.8	-25.6	0.05	0.05	0.28
3,403.0	1.14	310.24	3,402.8	1,796.8	24.5	-15.2	-27.2	0.06	0.03	-2.52
3,503.0	1.14	312.53	3,502.8	1,896.8	25.8	-16.7	-28.8	0.05	0.00	2.29
3,603.0	1.18	313.17	3,602.8	1,996.8	27.2	-18.2	-30.5	0.04	0.04	0.64
3,703.0	1.11	312.69	3,702.6	2,096.8	28.6	-19.7	-32.1	0.07	-0.07	-0.48
3,803.0	1.02	309.90	3,802.7	2,196.7	29.8	-21.1	-33.6	0.10	-0.09	-2.79
3,903.0	1.01	307.05	3,902.7	2,296.7	30.9	-22.5	-35.0	0.05	-0.01	-2.85
4,003.0	1.03	309.34	4,002.7	2,396.7	32.0	-23.9	-36.4	0.05	0.02	2.29
4,103.0	1.06	308.33	4,102.7	2,496.7	33.2	-25.3	-37.8	0.04	0.03	-1.01
4,203.0	0.99	307.51	4,202.7	2,596.7	34.2	-26.7	-39.2	0.07	-0.07	-0.82
4,303.0	0.90	309.25	4,302.7	2,696.7	35.3	-28.0	-40.5	0.09	-0.09	1.74
4,403.0	0.84	312.81	4,402.7	2,796.7	36.3	-29.1	-41.7	0.08	-0.06	3.56
4,503.0	0.69	317.92	4,502.6	2,896.6	37.2	-30.1	-42.8	0.16	-0.15	5.11
4,603.0	0.52	326.26	4,602.6	2,996.6	38.0	-30.7	-43.8	0.19	-0.17	8.34
4,703.0	0.58	329.57	4,702.6	3,096.6	38.9	-31.2	-44.7	0.07	0.06	3.31
4,803.0	0.46	335.64	4,802.6	3,196.6	39.7	-31.7	-45.5	0.13	-0.12	6.07
4,903.0	0.43	337.02	4,902.6	3,296.6	40.4	-32.0	-46.3	0.03	-0.03	1.38



91-01250

Phoenix Technology Services
Survey Report



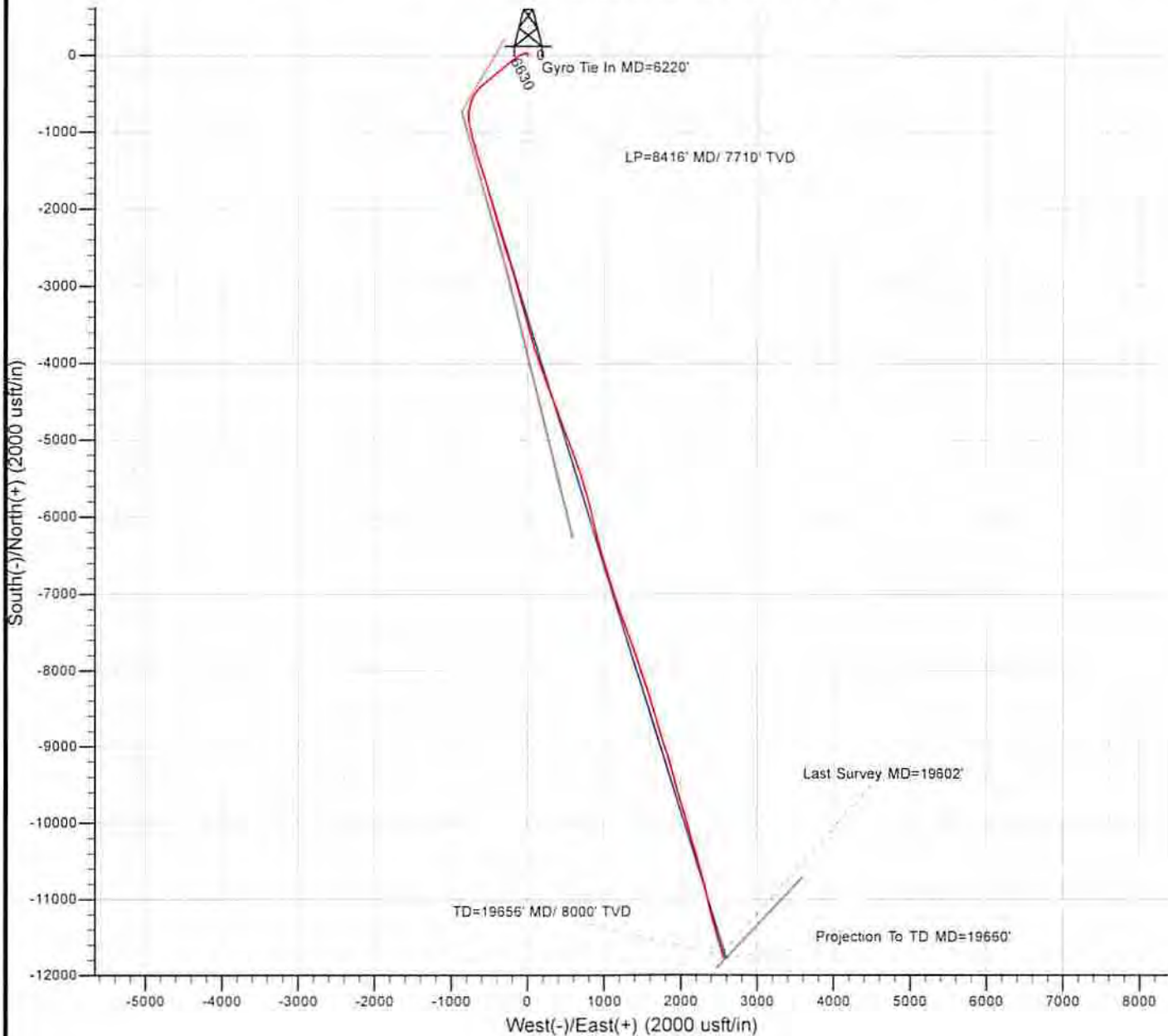
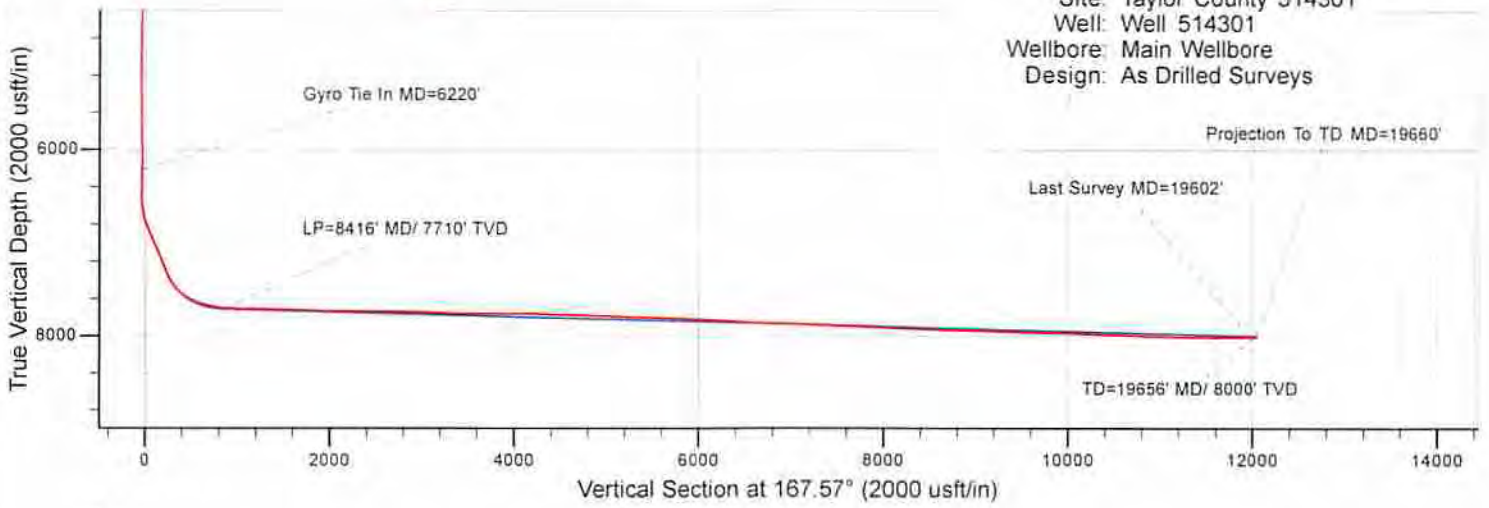
Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site Taylor County 514301
Company:	EQT Production - Marcellus	TVD Reference:	KB @ 1000.0usft
Project:	Taylor County, WV	MD Reference:	KB @ 1600.0usft
Site:	Taylor County 514301	North Reference:	Grid
Well:	Well 3 14301	Survey Calculation Method:	Minimum Curvature
Wellbore:	Main Wellbore		
Design:	As Drilled Surveys		

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)
5,003.0	0.35	339.95	5,002.6	3,396.6	41.0	-32.2	-47.0	0.08	-0.08	2.93
5,103.0	0.38	348.16	5,102.6	3,496.6	41.6	-32.4	-47.6	0.06	0.03	8.21
5,203.0	0.15	61.54	5,202.6	3,596.6	42.0	-32.3	-48.0	0.37	-0.23	73.38
5,303.0	0.35	121.40	5,302.6	3,696.6	41.9	-32.0	-47.8	0.30	0.20	59.86
5,403.0	0.58	129.85	5,402.6	3,796.6	41.4	-31.3	-47.2	0.24	0.23	8.45
5,503.0	0.79	134.70	5,502.6	3,896.6	40.6	-30.4	-46.2	0.22	0.21	4.85
5,603.0	0.87	127.98	5,602.6	3,996.6	39.7	-29.4	-45.0	0.13	0.08	-6.72
5,703.0	0.95	127.08	5,702.6	4,096.6	38.7	-28.1	-43.8	0.06	0.08	-0.90
5,803.0	0.94	127.76	5,802.6	4,196.6	37.7	-26.8	-42.6	0.02	-0.01	0.68
5,903.0	0.89	129.69	5,902.6	4,296.6	36.7	-25.5	-41.3	0.06	-0.05	1.93
6,003.0	0.71	140.14	6,002.6	4,396.6	35.7	-24.5	-40.2	0.23	-0.18	10.45
6,103.0	0.65	138.75	6,102.5	4,496.5	34.8	-23.8	-39.1	0.06	-0.06	-1.39
6,203.0	0.41	152.08	6,202.5	4,596.5	34.1	-23.2	-38.3	0.27	-0.24	13.33
Gyro Tie In MD=6220'										
6,220.0	0.30	140.35	6,219.5	4,613.5	34.0	-23.2	-38.2	0.77	-0.65	-69.00
6,268.0	0.50	137.40	6,267.5	4,661.5	33.7	-23.0	-37.9	0.42	0.42	-6.15
6,299.0	0.10	190.10	6,298.5	4,692.5	33.6	-22.9	-37.7	1.44	-1.29	170.00
6,331.0	3.40	322.60	6,330.5	4,724.5	34.3	-23.4	-38.6	10.84	10.31	414.06
6,362.0	5.10	311.80	6,361.4	4,755.4	36.0	-25.0	-40.5	6.04	5.48	-34.84
6,394.0	5.80	276.00	6,393.3	4,787.3	37.1	-27.7	-42.2	10.66	2.19	-111.88
6,424.0	8.20	267.70	6,423.1	4,817.1	37.2	-31.3	-43.0	8.66	8.00	-27.67
6,456.0	10.90	264.20	6,454.6	4,848.6	36.8	-36.6	-43.8	8.63	8.44	-10.94
6,487.0	13.80	260.20	6,484.9	4,878.9	35.8	-43.2	-44.3	9.75	9.35	-12.90
6,519.0	17.10	256.00	6,515.7	4,908.7	34.1	-51.5	-44.4	10.88	10.31	-13.13
6,550.0	20.20	251.60	6,545.1	4,939.1	31.3	-61.0	-43.7	10.98	10.00	-14.19
6,582.0	23.60	248.10	6,574.8	4,968.8	27.1	-72.2	-42.0	11.38	10.63	-10.94
6,645.0	28.80	242.30	6,631.3	5,025.3	15.4	-97.4	-36.0	9.19	8.25	-9.21
6,677.0	31.60	240.30	6,659.0	5,053.0	7.6	-111.5	-31.4	9.30	8.75	-6.25
6,708.0	34.60	239.00	6,684.9	5,078.9	-0.9	-126.1	-26.2	9.94	9.68	-4.19
6,740.0	37.10	237.30	6,710.9	5,104.9	-10.8	-142.0	-20.0	8.41	7.81	-5.31
6,772.0	40.00	234.80	6,735.9	5,129.9	-22.0	-158.5	-12.7	10.29	9.06	-7.81
6,802.0	43.00	232.50	6,756.4	5,152.4	-33.8	-174.5	-4.6	11.22	10.00	-7.67
6,834.0	44.10	231.90	6,781.6	5,175.6	-47.3	-192.0	4.8	3.67	3.44	-1.88
6,897.0	43.30	231.00	6,827.1	5,221.1	-74.4	-226.0	24.0	1.61	-1.27	-1.43
6,929.0	43.00	231.00	6,850.5	5,244.5	-88.2	-243.0	33.8	0.94	-0.94	0.00
6,960.0	42.80	230.20	6,873.2	5,267.2	-101.6	-259.3	43.4	1.87	-0.65	-2.58
7,023.0	43.00	230.30	6,919.3	5,313.3	-129.0	-292.3	63.0	0.34	0.32	0.16
7,086.0	42.90	230.80	6,965.4	5,359.4	-156.3	-325.4	82.5	0.56	-0.16	0.79
7,149.0	44.10	231.30	7,011.1	5,405.1	-183.5	-359.2	101.9	1.98	1.90	0.79
7,212.0	44.00	229.90	7,056.4	5,450.4	-211.3	-393.0	121.8	1.55	-0.16	-2.22
7,275.0	43.10	228.40	7,102.1	5,496.1	-239.7	-425.8	142.4	2.18	-1.43	-2.38
7,338.0	43.60	229.40	7,147.9	5,541.9	-268.1	-458.4	163.2	1.35	0.79	1.59
7,401.0	42.80	231.70	7,193.8	5,587.8	-295.5	-491.7	182.8	2.80	-1.27	3.65

Measured Depth (ustft)	Inclination (°)	Azimuth (°)	Vertical Depth (ustft)	Subsea Depth (ustft)	+N/S (ustft)	+E/W (ustft)	Vertical Section (ustft)	Dogleg Rate (/100ustft)	Build Rate (/100ustft)	Turn Rate (/100ustft)
7,464.0	40.70	230.90	7,240.8	5,634.8	-321.8	-524.5	201.3	3.44	-3.33	-1.27
7,495.0	39.50	229.70	7,264.5	5,658.5	-334.5	-539.8	210.5	4.60	-3.87	-3.87
7,527.0	38.80	229.20	7,289.3	5,683.3	-347.7	-555.2	220.0	2.40	-2.19	-1.56
7,558.0	40.00	230.30	7,313.3	5,707.3	-360.4	-570.2	229.2	4.48	3.87	3.55
7,590.0	40.90	229.90	7,337.6	5,731.6	-373.7	-586.1	238.7	2.93	2.81	-1.25
7,621.0	44.00	229.50	7,360.5	5,754.5	-387.2	-602.1	248.5	10.04	10.00	-1.29
7,653.0	45.70	227.50	7,383.2	5,777.2	-402.2	-619.0	259.5	6.90	5.31	-6.25
7,684.0	47.30	223.50	7,404.5	5,798.5	-417.9	-635.0	271.4	10.69	5.16	-12.90
7,716.0	49.70	220.30	7,425.7	5,819.7	-435.8	-651.0	285.4	10.60	7.50	-10.00
7,747.0	50.30	218.60	7,445.7	5,839.7	-454.0	-666.2	299.9	2.60	1.94	-2.26
7,779.0	51.30	216.60	7,465.9	5,859.9	-473.5	-681.5	315.7	7.91	3.13	-9.38
7,810.0	51.10	215.20	7,485.3	5,879.3	-493.1	-695.7	331.7	3.58	-0.65	-4.52
7,842.0	52.70	211.60	7,505.1	5,898.1	-514.1	-709.5	349.3	10.17	5.00	-11.25
7,873.0	55.00	208.70	7,523.4	5,917.4	-535.7	-722.1	367.7	10.59	7.42	-9.35
7,905.0	57.20	205.40	7,541.2	5,935.2	-559.4	-734.2	388.2	10.98	6.88	-10.31
7,936.0	59.60	201.70	7,557.5	5,951.5	-583.6	-744.7	409.6	12.78	7.74	-11.94
7,968.0	61.70	198.40	7,573.1	5,967.1	-609.8	-754.3	433.1	11.13	6.56	-10.31
7,999.0	62.10	196.10	7,587.8	5,981.8	-635.9	-762.4	458.8	6.67	1.29	-7.42
8,031.0	64.00	193.10	7,602.3	5,996.3	-663.5	-769.5	482.3	10.25	5.94	-9.38
8,063.0	66.60	190.30	7,615.6	6,009.6	-692.0	-775.4	508.8	11.37	8.13	-8.75
8,094.0	69.30	187.20	7,627.3	6,021.3	-720.3	-779.8	535.6	12.72	8.71	-10.00
8,125.0	71.90	184.50	7,637.6	6,031.6	-749.4	-782.8	563.3	11.74	8.39	-8.71
8,157.0	73.30	180.20	7,647.1	6,041.1	-779.9	-784.0	592.8	13.55	4.38	-13.44
8,188.0	74.90	176.80	7,655.6	6,049.6	-809.7	-783.2	622.1	11.74	5.16	-10.97
8,220.0	75.90	173.90	7,663.7	6,057.7	-840.6	-780.7	652.8	9.31	3.13	-9.06
8,251.0	75.60	170.90	7,671.3	6,065.3	-870.4	-776.7	682.7	9.43	-0.97	-9.68
8,282.0	76.50	168.20	7,678.8	6,072.8	-899.9	-771.3	712.8	8.94	2.80	-8.71
8,314.0	79.00	166.60	7,685.6	6,079.6	-930.5	-764.5	744.1	9.21	7.81	-5.00
8,345.0	80.70	166.40	7,691.1	6,085.1	-960.1	-757.3	774.6	5.52	5.48	-6.55
8,377.0	81.70	165.70	7,696.0	6,090.0	-990.8	-749.7	806.2	3.80	3.13	-2.19
8,408.0	84.40	164.60	7,699.7	6,093.7	-1,020.6	-741.8	836.9	9.39	8.71	-3.55
8,440.0	87.60	164.30	7,701.9	6,095.9	-1,051.3	-733.3	868.8	10.04	10.00	-9.94
8,471.0	88.70	163.80	7,702.9	6,096.9	-1,081.1	-724.8	899.7	9.90	3.55	-1.61
8,480.0	89.00	163.80	7,703.1	6,097.1	-1,089.7	-722.3	908.7	3.33	3.33	0.00
8,544.0	89.20	164.00	7,704.1	6,098.1	-1,151.2	-704.5	972.6	0.44	0.31	0.31
8,606.0	89.20	163.30	7,705.0	6,099.0	-1,210.7	-687.1	1,034.4	1.13	0.00	-1.13
8,669.0	88.40	162.30	7,706.3	6,100.3	-1,270.9	-668.4	1,097.2	2.03	-1.27	-1.59
8,732.0	88.70	162.20	7,707.9	6,101.9	-1,330.9	-649.2	1,159.9	0.50	0.48	-0.16
8,796.0	89.10	162.70	7,709.1	6,103.1	-1,391.9	-629.9	1,223.6	1.00	0.63	0.78
8,859.0	88.70	161.90	7,710.3	6,104.3	-1,451.9	-610.8	1,286.3	1.42	-0.63	-1.27
8,922.0	87.80	161.90	7,712.3	6,106.3	-1,511.7	-591.2	1,349.0	1.43	-1.43	0.00
8,985.0	87.90	161.50	7,714.6	6,108.6	-1,571.5	-571.5	1,411.8	0.65	0.16	-0.63
9,048.0	88.70	162.70	7,716.5	6,110.5	-1,631.4	-552.1	1,474.3	2.29	1.27	1.90

Database:	EDM 5000 - Single Layer Dr
Company:	EOT Production - Marcellus
Project:	Taylor County, WV
Site:	Taylor County 514301
Well:	Well 514301
Wellbore:	Main Wellbore
Design:	All Drilled Surveys
Local Co-ordinate Reference:	Site Taylor County 514301
TVD Reference:	KB @ 1605 Const.
MD Reference:	KB @ 1605 Const.
North Reference:	Grid
Survey Calculation Method:	Minimum Curvature

Project: Taylor County, WV
Site: Taylor County 514301
Well: Well 514301
Wellbore: Main Wellbore
Design: As Drilled Surveys



Database:	EDM 5000 1 Single User Db	Local Co-ordinate Reference:	State Taylor County 514301
Company:	EQT Production - Marcellus	TVD Reference:	KB @ 1600.0usft
Project:	Taylor County, WV	MD Reference:	KB @ 1600.0usft
Site:	Taylor County 514301	North Reference:	Grid
Well:	Well 514301	Survey Calculation Method:	Minimum Curvature
Wellbore:	Main Wellbore		
Design:	As Drilled Surveys		

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)	
9,111.0	89.70	164.10	7,717.4	6,111.4	-1,691.8	-534.1	1,537.1	2.73	1.59	2.22	
9,174.0	89.50	163.90	7,717.8	6,111.8	-1,752.4	-516.7	1,600.0	0.45	-0.32	-0.32	
9,237.0	89.40	163.90	7,718.4	6,112.4	-1,812.9	-499.3	1,662.9	0.16	-0.16	0.00	
9,300.0	87.60	164.20	7,720.1	6,114.1	-1,873.4	-482.0	1,725.7	2.90	-2.86	0.48	
9,364.0	87.90	163.90	7,722.6	6,116.6	-1,934.9	-464.4	1,789.6	0.66	0.47	-0.47	
9,427.0	87.20	162.70	7,725.3	6,119.3	-1,995.2	-446.3	1,852.3	2.20	-1.11	-1.90	
9,490.0	87.50	162.50	7,726.2	6,122.2	-2,055.3	-427.5	1,915.0	0.57	0.48	-0.32	
9,553.0	88.40	163.70	7,730.4	6,124.4	-2,115.5	-409.2	1,977.8	2.38	1.43	1.90	
9,616.0	89.20	164.10	7,731.8	6,125.8	-2,176.0	-391.7	2,040.7	1.42	1.27	0.63	
9,679.0	89.80	163.80	7,732.3	6,126.3	-2,236.6	-374.3	2,103.5	1.06	0.95	-0.48	
9,742.0	89.80	163.70	7,732.5	6,126.5	-2,297.0	-356.7	2,166.4	0.16	0.00	-0.16	
9,804.0	89.90	163.00	7,732.7	6,126.7	-2,356.4	-338.9	2,228.2	1.14	0.16	-1.13	
9,868.0	90.80	164.40	7,732.3	6,126.3	-2,417.9	-320.9	2,292.1	2.60	1.41	2.19	
9,931.0	90.90	162.90	7,731.4	6,125.4	-2,478.3	-303.2	2,354.9	2.39	0.16	-2.38	
9,994.0	90.50	161.00	7,730.6	6,124.6	-2,538.2	-283.7	2,417.6	3.08	-0.63	-3.02	
10,057.0	89.60	161.40	7,730.5	6,124.5	-2,597.8	-263.4	2,480.2	1.56	-1.43	0.63	
10,120.0	88.70	161.90	7,731.5	6,125.5	-2,657.6	-243.6	2,542.9	1.63	-1.43	0.79	
10,183.0	89.10	162.50	7,732.7	6,126.7	-2,717.6	-224.3	2,605.6	1.14	0.63	0.95	
10,246.0	88.90	162.20	7,733.8	6,127.8	-2,777.6	-205.2	2,668.3	0.57	-0.32	-0.48	
10,309.0	89.00	162.50	7,734.9	6,128.9	-2,837.6	-186.1	2,731.0	0.50	0.16	0.48	
10,372.0	89.10	162.80	7,736.0	6,130.0	-2,897.8	-167.3	2,793.8	0.50	0.16	0.48	
10,435.0	89.20	163.70	7,736.9	6,130.9	-2,958.1	-149.2	2,856.6	1.44	0.16	1.43	
10,498.0	89.10	164.00	7,737.9	6,131.9	-3,018.6	-131.6	2,919.5	0.50	-0.16	0.48	
10,561.0	88.00	164.60	7,739.5	6,133.5	-3,079.2	-114.6	2,982.3	1.99	-1.75	0.95	
10,625.0	88.80	165.40	7,741.2	6,135.2	-3,141.0	-98.0	3,046.3	1.77	1.25	1.25	
10,688.0	88.60	165.50	7,742.7	6,136.7	-3,202.0	-82.2	3,109.2	0.35	-0.32	0.16	
10,751.0	87.40	164.00	7,744.9	6,138.9	-3,262.7	-65.7	3,172.1	3.05	-1.90	-2.38	
10,814.0	86.20	164.40	7,748.4	6,142.4	-3,323.2	-48.5	3,234.9	2.01	-1.90	0.63	
10,877.0	86.90	164.60	7,752.2	6,146.2	-3,383.8	-31.7	3,297.7	1.16	1.11	0.32	
10,939.0	88.60	164.70	7,754.6	6,148.6	-3,443.6	-15.3	3,359.5	2.75	2.74	0.16	
11,002.0	88.80	163.50	7,756.0	6,150.0	-3,504.2	1.8	3,422.4	1.93	0.32	-1.90	
11,065.0	88.90	163.70	7,757.3	6,151.3	-3,564.6	19.7	3,485.2	0.35	0.16	0.32	
11,127.0	90.40	165.00	7,757.7	6,151.7	-3,624.3	36.4	3,547.1	3.20	2.42	2.10	
11,190.0	90.40	163.40	7,757.2	6,151.2	-3,684.9	53.6	3,610.0	2.54	0.00	-2.54	
11,253.0	90.50	163.60	7,756.7	6,150.7	-3,745.3	71.5	3,672.9	0.35	0.16	0.32	
11,317.0	89.70	161.10	7,756.6	6,150.6	-3,806.3	90.9	3,736.6	4.10	-1.25	-3.91	
11,380.0	89.60	160.60	7,757.0	6,151.0	-3,865.8	111.5	3,799.2	0.81	-0.16	-0.79	
11,443.0	89.80	159.90	7,757.4	6,151.4	-3,925.1	132.8	3,861.6	1.16	0.32	-1.11	
11,506.0	90.60	161.00	7,757.1	6,151.1	-3,984.5	153.9	3,924.2	2.16	1.27	1.75	
11,569.0	90.50	160.50	7,756.5	6,150.5	-4,043.9	174.7	3,986.7	0.81	-0.16	-0.79	
11,631.0	89.70	160.90	7,756.4	6,150.4	-4,102.4	195.2	4,048.3	1.44	-1.29	0.65	
11,694.0	90.60	161.50	7,756.3	6,150.3	-4,162.1	215.6	4,110.9	1.59	1.27	0.95	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site Taylor County 514301
Company:	EQT Production - Marcellus	TVD Reference:	KD @ 1806.0usft
Project:	Taylor County, WV	MD Reference:	KB @ 1806.0usft
Site:	Taylor County 514301	North Reference:	Grid
Well:	Well 514301	Survey Calculation Method:	Minimum Curvature
Wellbore:	Main Wellbore		
Design:	As Drilled Survey		

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)
11,757.0	88.90	160.40	7,756.6	6,150.6	-4,221.6	236.0	4,173.4	3.08	-2.54	-1.75
11,820.0	87.00	158.20	7,758.9	6,152.9	-4,280.5	258.3	4,235.7	4.61	-3.02	-3.49
11,884.0	87.10	157.70	7,762.2	6,156.2	-4,339.8	282.3	4,298.8	0.80	0.16	-0.78
11,947.0	87.20	158.30	7,765.3	6,159.3	-4,398.1	305.9	4,360.8	0.96	0.16	0.95
12,009.0	88.70	159.40	7,767.5	6,161.5	-4,455.9	328.2	4,422.1	3.00	2.42	1.77
12,072.0	89.50	160.60	7,768.5	6,162.5	-4,515.1	349.8	4,484.5	2.29	1.27	1.90
12,135.0	89.70	160.50	7,769.0	6,163.0	-4,574.5	370.7	4,547.0	0.35	0.32	-0.16
12,198.0	88.00	158.80	7,770.2	6,164.2	-4,633.5	392.6	4,609.4	3.82	-2.70	-2.70
12,261.0	88.10	160.10	7,772.4	6,166.4	-4,692.5	414.7	4,671.7	2.07	0.16	2.06
12,324.0	88.30	159.90	7,774.4	6,168.4	-4,751.7	436.3	4,734.2	0.45	0.32	-0.32
12,387.0	88.00	158.90	7,776.4	6,170.4	-4,810.6	458.4	4,796.5	1.66	-0.48	-1.59
12,450.0	88.10	158.40	7,778.5	6,172.5	-4,869.2	481.3	4,858.7	0.81	0.16	-0.79
12,513.0	88.50	159.60	7,780.4	6,174.4	-4,928.0	503.9	4,921.0	2.01	0.63	1.90
12,576.0	88.40	159.50	7,782.1	6,176.1	-4,987.0	525.9	4,983.3	0.22	-0.16	-0.16
12,640.0	87.10	160.20	7,784.6	6,178.6	-5,047.1	547.9	5,046.7	2.31	-2.03	1.09
12,702.0	87.00	159.60	7,787.8	6,181.8	-5,105.2	569.2	5,108.0	0.98	-0.16	-0.97
12,766.0	87.80	160.10	7,790.7	6,184.7	-5,165.2	591.2	5,171.4	1.47	1.25	0.78
12,828.0	88.40	161.50	7,792.8	6,186.8	-5,223.8	611.6	5,232.9	2.46	0.97	2.26
12,891.0	88.20	160.00	7,794.6	6,188.6	-5,283.2	632.4	5,295.5	2.40	-0.32	-2.38
12,954.0	88.00	158.90	7,796.7	6,190.7	-5,342.2	654.5	5,357.8	1.77	-0.32	-1.75
13,017.0	88.80	161.30	7,798.5	6,192.5	-5,401.4	675.9	5,420.2	4.01	1.27	3.81
13,080.0	88.70	161.60	7,799.9	6,193.9	-5,461.1	696.0	5,482.9	0.50	-0.16	0.48
13,143.0	88.40	163.60	7,801.5	6,195.5	-5,521.2	714.8	5,545.6	3.21	-0.48	3.17
13,206.0	89.10	163.50	7,802.8	6,196.8	-5,581.6	732.6	5,608.4	1.12	1.11	-0.16
13,269.0	87.20	163.40	7,804.9	6,198.9	-5,641.9	750.6	5,671.2	3.02	-3.02	-0.16
13,332.0	88.30	164.20	7,807.3	6,201.3	-5,702.4	768.1	5,734.0	2.16	1.75	1.27
13,396.0	88.30	164.40	7,809.2	6,203.2	-5,764.0	785.4	5,797.9	0.31	0.00	0.31
13,459.0	87.40	164.80	7,811.6	6,205.6	-5,824.7	802.2	5,860.8	1.56	-1.43	0.63
13,522.0	87.00	164.50	7,814.7	6,208.7	-5,885.4	818.8	5,923.6	0.79	-0.63	-0.48
13,585.0	86.20	165.40	7,818.4	6,212.4	-5,946.1	835.1	5,986.4	1.91	-1.27	1.43
13,648.0	86.90	165.20	7,822.2	6,216.2	-6,006.9	851.1	6,049.3	1.16	1.11	-0.32
13,711.0	87.80	166.60	7,825.1	6,219.1	-6,067.9	866.4	6,112.2	2.64	1.43	2.22
13,775.0	87.10	167.10	7,828.0	6,222.0	-6,130.2	881.0	6,176.1	1.34	-1.09	0.78
13,838.0	86.70	166.90	7,831.4	6,225.4	-6,191.5	895.1	6,239.0	0.71	-0.63	-0.32
13,901.0	87.10	166.10	7,834.8	6,228.8	-6,252.7	909.8	6,301.9	1.42	0.63	-1.27
13,964.0	84.80	164.50	7,839.2	6,233.2	-6,313.4	925.8	6,364.7	4.44	-3.65	-2.54
14,027.0	84.40	164.10	7,845.2	6,239.2	-6,373.8	942.7	6,427.3	0.90	-0.63	-0.63
14,090.0	84.50	163.90	7,851.2	6,245.2	-6,434.1	960.0	6,489.9	0.35	0.16	-0.32
14,153.0	84.30	164.20	7,857.4	6,251.4	-6,494.4	977.2	6,552.5	0.57	-0.32	0.48
14,216.0	88.80	163.60	7,861.2	6,255.2	-6,554.8	994.7	6,615.2	7.21	7.14	-0.95
14,279.0	89.90	163.30	7,861.9	6,255.9	-6,615.2	1,012.6	6,678.1	1.81	1.75	-0.48
14,342.0	89.50	163.40	7,862.2	6,256.2	-6,675.5	1,030.7	6,740.9	0.65	-0.63	0.16
14,405.0	88.00	162.60	7,863.6	6,257.6	-6,735.8	1,049.1	6,803.7	2.70	-2.38	-1.27



91-01250

Phoenix Technology Services
Survey Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site Taylor County 514301
Company:	EQT Production - Marcellus	TVD Reference:	KB @ 1605.0usft
Project:	Taylor County, WV	MD Reference:	KB @ 1605.0usft
Site:	Taylor County 514301	North Reference:	Grid
Well:	Wall 514301	Survey Calculation Method:	Minimum Curvature
Wellbore:	Main Wellbore		
Design:	As Drilled Surveys		

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)
14,468.0	87.40	161.80	7,866.1	6,260.1	-6,795.7	1,068.3	6,866.3	1.59	-0.95	-1.27
14,530.0	88.30	163.50	7,868.5	6,262.5	-6,854.8	1,086.8	6,928.1	3.10	1.45	2.74
14,593.0	89.30	163.90	7,869.8	6,263.8	-6,915.3	1,104.5	6,990.9	1.71	1.59	0.63
14,657.0	88.40	161.70	7,871.1	6,265.1	-6,976.4	1,123.4	7,054.7	3.71	-1.41	-3.44
14,720.0	87.10	160.10	7,873.5	6,267.5	-7,035.9	1,144.0	7,117.2	3.27	-2.06	-2.54
14,783.0	86.80	160.20	7,876.9	6,270.9	-7,095.1	1,165.4	7,179.6	0.50	-0.48	0.16
14,846.0	89.00	162.50	7,879.2	6,273.2	-7,154.7	1,185.5	7,242.2	5.05	3.49	3.65
14,909.0	88.10	161.50	7,880.8	6,274.8	-7,214.6	1,205.0	7,304.8	2.14	-1.43	-1.59
14,972.0	87.50	159.50	7,883.2	6,277.2	-7,273.9	1,226.0	7,367.3	3.31	-0.95	-3.17
15,035.0	87.00	158.00	7,886.2	6,280.2	-7,332.8	1,248.8	7,429.5	2.51	-0.79	-2.38
15,098.0	86.50	159.00	7,889.6	6,283.8	-7,391.1	1,271.8	7,491.6	1.77	-0.79	1.59
15,161.0	88.10	161.30	7,892.6	6,286.8	-7,450.3	1,293.2	7,554.0	4.44	2.54	3.65
15,224.0	89.10	162.60	7,894.3	6,288.3	-7,510.2	1,312.7	7,616.7	2.60	1.59	2.06
15,287.0	87.90	161.30	7,896.0	6,290.0	-7,570.1	1,332.2	7,679.4	2.81	-1.90	-2.06
15,350.0	87.20	159.80	7,898.7	6,292.7	-7,629.4	1,353.2	7,741.8	2.63	-1.11	-2.38
15,413.0	87.60	160.40	7,901.5	6,295.5	-7,688.6	1,374.6	7,804.2	1.14	0.63	0.95
15,476.0	88.10	161.30	7,903.9	6,297.9	-7,748.1	1,395.2	7,866.7	1.63	0.79	1.43
15,539.0	87.60	161.60	7,906.2	6,300.2	-7,807.7	1,415.3	7,929.3	0.93	-0.79	0.48
15,602.0	87.50	161.90	7,908.9	6,302.9	-7,867.5	1,435.0	7,992.0	0.50	-0.16	0.48
15,665.0	88.20	162.50	7,911.3	6,305.3	-7,927.5	1,454.2	8,054.6	1.46	1.11	0.95
15,728.0	88.00	163.10	7,913.4	6,307.4	-7,987.6	1,472.9	8,117.4	1.00	-0.32	0.95
15,792.0	88.00	162.70	7,915.6	6,309.6	-8,048.7	1,491.7	8,181.1	0.62	0.00	-0.63
15,855.0	87.60	160.50	7,918.0	6,312.0	-8,108.5	1,511.5	8,243.7	3.55	-0.63	-3.49
15,918.0	87.00	160.10	7,921.0	6,315.0	-8,167.7	1,532.7	8,306.2	1.14	-0.95	-0.63
15,981.0	87.80	161.30	7,923.9	6,317.9	-8,227.1	1,553.5	8,368.6	2.29	1.27	1.90
16,043.0	88.60	163.40	7,925.8	6,319.8	-8,286.2	1,572.3	8,430.4	3.62	1.29	3.39
16,106.0	88.50	162.80	7,927.4	6,321.4	-8,346.4	1,590.6	8,493.1	0.97	-0.16	-0.95
16,170.0	88.00	163.00	7,929.4	6,323.4	-8,407.6	1,609.4	8,556.9	0.84	-0.78	0.31
16,233.0	87.00	162.80	7,932.1	6,326.1	-8,467.7	1,628.0	8,619.6	1.62	-1.59	-0.32
16,320.0	87.60	163.50	7,936.2	6,330.2	-8,550.9	1,653.1	8,706.3	1.06	0.69	0.80
16,383.0	88.70	163.80	7,938.2	6,332.2	-8,611.3	1,670.9	8,769.1	1.81	1.75	0.48
16,446.0	88.90	164.20	7,939.6	6,333.6	-8,671.9	1,688.2	8,832.0	0.71	0.32	0.63
16,509.0	88.70	164.20	7,940.9	6,334.9	-8,732.5	1,705.4	8,894.8	0.32	-0.32	0.00
16,572.0	88.90	164.10	7,942.2	6,336.2	-8,793.1	1,722.6	8,957.7	0.35	0.32	-0.16
16,635.0	88.80	163.40	7,943.5	6,337.5	-8,853.5	1,740.2	9,020.6	1.12	-0.16	-1.11
16,698.0	89.10	163.40	7,944.6	6,338.6	-8,913.9	1,758.2	9,083.4	0.48	0.48	0.00
16,761.0	89.30	162.10	7,945.5	6,339.5	-8,974.0	1,776.9	9,146.2	2.09	0.32	-2.06
16,824.0	87.70	161.30	7,947.1	6,341.1	-9,033.8	1,796.7	9,208.8	2.84	-2.54	-1.27
16,887.0	87.50	160.60	7,949.8	6,343.8	-9,093.3	1,817.2	9,271.3	1.15	-0.32	-1.11
16,950.0	87.10	164.10	7,952.7	6,346.7	-9,153.3	1,836.3	9,334.0	5.59	-0.63	5.56
17,013.0	87.00	163.20	7,956.0	6,350.0	-9,213.7	1,854.0	9,396.8	1.44	-0.16	-1.43
17,075.0	89.50	163.90	7,957.9	6,351.9	-9,273.1	1,871.5	9,458.6	4.19	4.03	1.13

Projection To TD MD=19607												
19,602.0	90.20	161.80	8,013.5	6,407.5	-11,707.7	2,543.3	11,980.7	4.71	-3.33	-3.33		
Last Survey MD=19607												
19,596.0	90.40	162.00	8,013.6	6,407.6	-11,701.9	2,541.4	11,974.7	1.46	0.32	-1.43		
19,593.0	80.20	162.80	8,013.9	6,407.9	-11,641.9	2,522.5	11,911.9	1.00	0.32	-0.95		
19,470.0	90.00	163.50	8,014.0	6,408.0	-11,581.6	2,504.2	11,849.1	0.65	-0.16	-0.63		
19,407.0	90.10	163.90	8,014.1	6,408.1	-11,521.1	2,486.6	11,786.3	1.02	-0.32	-0.97		
19,345.0	90.30	164.50	8,014.3	6,408.3	-11,461.4	2,469.7	11,724.4	0.47	0.00	-0.47		
19,281.0	90.30	164.80	8,014.6	6,408.6	-11,399.7	2,452.7	11,660.5	1.23	1.13	0.48		
19,219.0	89.60	164.50	8,014.6	6,408.6	-11,339.9	2,436.3	11,598.5	0.95	0.16	-0.94		
19,155.0	89.50	165.10	8,014.1	6,408.1	-11,278.2	2,419.5	11,534.6	1.13	0.00	-1.13		
19,093.0	89.50	165.80	8,013.5	6,407.5	-11,218.2	2,404.0	11,472.7	0.71	0.63	-0.32		
19,030.0	89.10	166.00	8,012.8	6,406.8	-11,157.1	2,388.6	11,409.7	1.24	0.95	-0.79		
18,967.0	88.50	166.50	8,011.4	6,405.4	-11,095.9	2,373.7	11,346.7	0.57	-0.32	-0.48		
18,904.0	88.70	166.80	8,009.9	6,403.9	-11,034.6	2,359.1	11,283.8	2.12	-2.06	0.48		
18,841.0	90.00	166.50	8,009.2	6,403.2	-10,973.3	2,344.6	11,220.8	2.66	2.03	1.72		
18,777.0	88.70	166.40	8,008.5	6,402.5	-10,911.2	2,329.0	11,156.8	0.00	0.00	0.00		
18,714.0	88.70	166.40	8,007.0	6,401.0	-10,850.3	2,313.2	11,093.9	1.36	-0.48	-1.27		
18,651.0	89.00	166.20	8,005.8	6,399.8	-10,789.2	2,297.7	11,030.9	1.46	1.43	0.32		
18,588.0	88.10	166.00	8,004.2	6,398.2	-10,728.1	2,282.6	10,967.9	0.84	0.78	-0.31		
18,524.0	87.60	166.20	8,001.8	6,395.8	-10,666.0	2,267.2	10,904.0	1.59	-0.65	1.45		
18,462.0	88.00	166.30	7,999.4	6,393.4	-10,606.0	2,252.0	10,842.1	1.02	-0.63	0.79		
18,399.0	88.40	166.80	7,997.4	6,391.4	-10,545.1	2,235.7	10,779.2	0.79	0.63	-0.48		
18,336.0	88.00	166.10	7,995.4	6,389.4	-10,484.3	2,219.4	10,716.3	3.14	0.31	3.13		
18,272.0	87.80	166.10	7,993.1	6,387.1	-10,422.8	2,203.8	10,652.4	1.81	1.11	1.43		
18,209.0	87.10	166.20	7,990.3	6,384.3	-10,362.7	2,188.1	10,589.7	1.89	-0.65	-1.77		
18,147.0	87.50	166.30	7,987.4	6,381.4	-10,303.6	2,164.7	10,528.0	2.86	-0.95	-2.70		
18,084.0	88.10	166.00	7,984.9	6,378.9	-10,243.0	2,147.5	10,465.2	0.63	0.00	0.63		
18,021.0	88.10	164.60	7,982.9	6,376.9	-10,182.3	2,131.0	10,402.3	1.92	-0.79	1.75		
17,958.0	88.60	163.50	7,981.0	6,375.0	-10,121.7	2,113.7	10,339.4	0.93	0.48	0.79		
17,895.0	88.30	163.00	7,979.3	6,373.3	-10,061.4	2,095.6	10,276.6	1.00	-0.32	-0.95		
17,832.0	88.50	163.60	7,977.6	6,371.6	-10,001.1	2,077.5	10,213.8	0.46	-0.32	-0.32		
17,770.0	88.70	163.80	7,976.1	6,370.1	-9,941.6	2,060.1	10,152.0	1.44	-0.16	-1.43		
17,707.0	88.80	164.70	7,974.7	6,368.7	-9,881.0	2,043.0	10,089.1	1.22	0.94	0.78		
17,643.0	88.20	164.20	7,973.0	6,367.0	-9,819.4	2,025.8	10,025.2	3.21	1.75	2.70		
17,580.0	87.10	162.50	7,970.4	6,364.4	-9,759.1	2,007.8	9,962.5	0.79	0.63	-0.48		
17,517.0	86.70	162.80	7,967.0	6,361.0	-9,699.0	1,989.0	9,899.8	2.06	-1.80	-0.79		
17,454.0	87.90	163.30	7,964.1	6,358.1	-9,638.8	1,970.7	9,837.1	3.27	-2.54	-2.06		
17,391.0	89.50	164.60	7,962.6	6,356.6	-9,578.3	1,953.3	9,774.2	0.57	0.32	-0.48		
17,328.0	89.30	164.90	7,962.0	6,356.0	-9,517.5	1,936.7	9,711.3	0.78	0.63	0.47		
17,264.0	88.90	164.60	7,961.0	6,355.0	-9,455.8	1,919.9	9,647.4	0.79	0.00	-0.79		
17,201.0	88.90	165.10	7,959.8	6,353.8	-9,395.0	1,903.4	9,584.4	1.77	-0.32	-1.75		
17,138.0	89.10	166.20	7,958.7	6,352.7	-9,334.0	1,887.8	9,521.5	3.71	-0.63	3.65		

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)
Database:	EDM 5000 1 Single User DB										
Company:	EOT Production - Marcellus										
Project:	Taylor County, WV										
Well:	Well 514301										
Wellbore:	Main Wellbore										
Design:	All Drilled Surveys										
Local Co-ordinate Reference:											
TVD Reference:											
MD Reference:											
North Reference:											
Survey Calculation Method:											
Site Taylor County 514301											
KB @ 1600' depth											
KB @ 1600' depth											
Grid											
Minimum Curvature											



91-01250

Phoenix Technology Services Survey Report



Database:	EDM 5000.1 Single User Do	Local Co-ordinate Reference:	Site Taylor County 514301
Company:	EQT Production - Marcellus	TVD Reference:	KB @ 1006.0usft
Project:	Taylor County, WV	MD Reference:	KB @ 1605.0usft
Site:	Taylor County 514301	North Reference:	Grid
Well:	Well 514301	Survey Calculation Method:	Minimum Curvature
Wellbore:	Main Wellbore		
Design:	As Drilled Surveys		

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)
19,660.0	90.20	161.80	8,013.3	6,407.3	-11,762.8	2,561.4	12,038.4	0.00	0.00	0.00

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
6,220.0	6,219.5	34.0	-23.2	Gyro Tie In MD=6220'
19,602.0	8,013.5	-11,707.7	2,543.3	Last Survey MD=19602'
19,660.0	8,013.3	-11,762.8	2,561.4	Projection To TD MD=19660'

Checked By: _____ Approved By: _____ Date: _____

Project: Taylor County, WV
Site: Taylor County 514301
Well: Well 514301
Wellbore: Main Wellbore
Design: As Drilled Surveys

