



Where energy meets innovation.

EQT Production - Marcellus

Doddridge County, WV Grid

Doddridge County 512484

Well #512484

Main Wellbore

Design: As Drilled

Standard Survey Report

21 May, 2014



Where energy meets innovation.

02/12/2016

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site Doddridge County 512484
Company:	EQT Production - Marcellus	TVD Reference:	KB @ 1275.0usft
Project:	Doddridge County, WV Grid	MD Reference:	KB @ 1275.0usft
Site:	Doddridge County 512484	North Reference:	Grid
Well:	Well #512484	Survey Calculation Method:	Minimum Curvature
Wellbore:	Main Wellbore		
Design:	As Drilled		

Project Doddridge County, WV Grid			
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 Doddridge County 512484			
Site Position:		Northing:	266,003.87 usft
From:	Map	Easting:	1,634,184.75 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	39.22
		Longitude:	-80.79
		Grid Convergence:	-0.82 °

Well Well #512484			
Well Position	+N/-S	0.0 usft	Northing: 266,003.87 usft
	+E/-W	0.0 usft	Easting: 1,634,184.75 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	39° 13' 23.230 N
		Longitude:	80° 47' 28.556 W
		Ground Level:	1,259.0 usft

Wellbore Main Wellbore					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	4/21/2014	-8.45	66.78	52,279

Design As Drilled					
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		321.83

Survey Program		Date 5/21/2014	
From (')	To (usft)	Survey (Wellbore)	Tool Name
0.00	5,225.0	VES Gyro (Main Wellbore)	GyroFlex
0.00	10,824.0	512484 PHX MWD (Main Wellbore)	MWD
			Description
			MWD - Standard

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	-1,275.0	0.0	0.0	0.0	0.00	0.00	0.00
25.0	0.20	120.55	25.0	-1,250.0	0.0	0.0	0.0	0.80	0.80	0.00
50.0	0.22	118.46	50.0	-1,225.0	-0.1	0.1	-0.1	0.09	0.08	-8.36
75.0	0.08	107.45	75.0	-1,200.0	-0.1	0.2	-0.2	0.57	-0.56	-44.04
100.0	0.18	106.56	100.0	-1,175.0	-0.1	0.2	-0.2	0.40	0.40	-3.56
125.0	0.04	115.50	125.0	-1,150.0	-0.1	0.3	-0.3	0.56	-0.56	35.76
150.0	0.12	107.39	150.0	-1,125.0	-0.1	0.3	-0.3	0.32	0.32	-32.44
175.0	0.19	109.89	175.0	-1,100.0	-0.2	0.4	-0.4	0.28	0.28	10.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site Doddridge County 512484
Company:	EQT Production - Marcellus	TVD Reference:	KB @ 1275.0usft
Project:	Doddridge County, WV Grid	MD Reference:	KB @ 1275.0usft
Site:	Doddridge County 512484	North Reference:	Grid
Well:	Well #512484	Survey Calculation Method:	Minimum Curvature
Wellbore:	Main Wellbore		
Design:	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)	
200.0	0.08	113.01	200.0	-1,075.0	-0.2	0.4	-0.4	0.44	-0.44	12.48	
225.0	0.29	123.33	225.0	-1,050.0	-0.2	0.5	-0.5	0.85	0.84	41.28	
250.0	0.30	126.82	250.0	-1,025.0	-0.3	0.6	-0.6	0.08	0.04	13.96	
275.0	0.30	122.06	275.0	-1,000.0	-0.4	0.7	-0.7	0.10	0.00	-19.04	
300.0	0.18	126.84	300.0	-975.0	-0.4	0.8	-0.8	0.49	-0.48	19.12	
325.0	0.26	123.89	325.0	-950.0	-0.5	0.9	-0.9	0.32	0.32	-11.80	
350.0	0.26	129.27	350.0	-925.0	-0.6	1.0	-1.0	0.10	0.00	21.52	
375.0	0.33	132.18	375.0	-900.0	-0.6	1.1	-1.2	0.29	0.28	11.64	
400.0	0.19	129.99	400.0	-875.0	-0.7	1.1	-1.3	0.56	-0.56	-8.76	
425.0	0.31	140.09	425.0	-850.0	-0.8	1.2	-1.4	0.51	0.48	40.40	
450.0	0.22	145.18	450.0	-825.0	-0.9	1.3	-1.5	0.37	-0.36	20.36	
475.0	0.16	140.67	475.0	-800.0	-0.9	1.3	-1.6	0.25	-0.24	-18.04	
500.0	0.25	141.46	500.0	-775.0	-1.0	1.4	-1.7	0.36	0.36	3.16	
525.0	0.11	138.17	525.0	-750.0	-1.1	1.5	-1.7	0.56	-0.56	-13.16	
550.0	0.37	137.48	550.0	-725.0	-1.2	1.5	-1.8	1.04	1.04	-2.76	
575.0	0.40	141.65	575.0	-700.0	-1.3	1.6	-2.0	0.16	0.12	16.68	
600.0	0.20	144.52	600.0	-675.0	-1.4	1.7	-2.1	0.80	-0.80	11.48	
625.0	0.26	140.17	625.0	-650.0	-1.5	1.8	-2.2	0.25	0.24	-17.40	
650.0	0.30	137.25	650.0	-625.0	-1.6	1.9	-2.4	0.17	0.16	-11.68	
675.0	0.14	133.16	675.0	-600.0	-1.6	1.9	-2.5	0.64	-0.64	-16.36	
700.0	0.19	137.13	700.0	-575.0	-1.7	2.0	-2.5	0.21	0.20	15.88	
725.0	0.44	132.83	725.0	-550.0	-1.8	2.1	-2.7	1.00	1.00	-17.20	
750.0	0.34	129.11	750.0	-525.0	-1.9	2.2	-2.8	0.41	-0.40	-14.88	
775.0	0.39	136.23	775.0	-500.0	-2.0	2.3	-3.0	0.27	0.20	28.48	
800.0	0.18	138.69	800.0	-475.0	-2.1	2.4	-3.1	0.84	-0.84	9.84	
825.0	0.31	130.08	825.0	-450.0	-2.2	2.5	-3.2	0.54	0.52	-34.44	
850.0	0.31	135.39	850.0	-425.0	-2.2	2.6	-3.4	0.11	0.00	21.24	
875.0	0.08	141.25	875.0	-400.0	-2.3	2.6	-3.4	0.92	-0.92	23.44	
900.0	0.19	142.60	900.0	-375.0	-2.4	2.7	-3.5	0.44	0.44	5.40	
925.0	0.23	146.44	925.0	-350.0	-2.4	2.7	-3.6	0.17	0.16	15.36	
950.0	0.46	150.06	950.0	-325.0	-2.6	2.8	-3.7	0.92	0.92	14.48	
975.0	0.42	144.56	975.0	-300.0	-2.7	2.9	-3.9	0.23	-0.16	-22.00	
1,000.0	0.22	135.10	1,000.0	-275.0	-2.8	3.0	-4.1	0.82	-0.80	-37.84	
1,025.0	0.10	125.48	1,025.0	-250.0	-2.9	3.0	-4.1	0.49	-0.48	-38.48	
1,050.0	0.33	127.64	1,050.0	-225.0	-2.9	3.1	-4.2	0.92	0.92	8.64	
1,075.0	0.46	135.60	1,075.0	-200.0	-3.1	3.2	-4.4	0.56	0.52	31.84	
1,100.0	0.30	122.22	1,100.0	-175.0	-3.2	3.4	-4.6	0.73	-0.64	-53.52	
1,125.0	0.18	135.76	1,125.0	-150.0	-3.2	3.5	-4.7	0.53	-0.48	54.16	
1,150.0	0.38	128.42	1,150.0	-125.0	-3.3	3.5	-4.8	0.81	0.80	-29.36	
1,175.0	0.44	143.49	1,175.0	-100.0	-3.4	3.7	-5.0	0.49	0.24	60.28	
1,200.0	0.36	141.13	1,200.0	-75.0	-3.6	3.8	-5.1	0.33	-0.32	-9.44	
1,225.0	0.23	145.50	1,225.0	-50.0	-3.7	3.8	-5.3	0.53	-0.52	17.48	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site Doddridge County 512484
Company:	EQT Production - Marcellus	TVD Reference:	KB @ 1275.0usft
Project:	Doddridge County, WV Grid	MD Reference:	KB @ 1275.0usft
Site:	Doddridge County 512484	North Reference:	Grid
Well:	Well #512484	Survey Calculation Method:	Minimum Curvature
Wellbore:	Main Wellbore		
Design:	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)
1,250.0	0.56	151.77	1,250.0	-25.0	-3.8	3.9	-5.4	1.33	1.32	25.08
1,275.0	0.25	163.26	1,275.0	0.0	-4.0	4.0	-5.6	1.28	-1.24	45.96
1,300.0	0.58	175.14	1,300.0	25.0	-4.2	4.0	-5.8	1.36	1.32	47.52
1,325.0	0.63	157.07	1,325.0	50.0	-4.4	4.1	-6.0	0.79	0.20	-72.28
1,350.0	0.44	158.68	1,350.0	75.0	-4.6	4.2	-6.2	0.76	-0.76	6.44
1,375.0	0.43	161.81	1,375.0	100.0	-4.8	4.3	-6.4	0.10	-0.04	12.52
1,400.0	0.57	179.71	1,400.0	125.0	-5.0	4.3	-6.6	0.83	0.56	71.60
1,425.0	0.70	161.04	1,425.0	150.0	-5.3	4.3	-6.8	0.97	0.52	-74.68
1,450.0	0.47	166.95	1,450.0	175.0	-5.5	4.4	-7.1	0.95	-0.92	23.64
1,475.0	0.41	172.14	1,475.0	200.0	-5.7	4.4	-7.2	0.29	-0.24	20.76
1,500.0	0.64	171.04	1,500.0	225.0	-5.9	4.5	-7.4	0.92	0.92	-4.40
1,525.0	0.53	161.65	1,525.0	250.0	-6.2	4.5	-7.7	0.58	-0.44	-37.56
1,550.0	0.68	174.17	1,550.0	275.0	-6.4	4.6	-7.9	0.80	0.60	50.08
1,575.0	0.71	161.13	1,575.0	300.0	-6.7	4.6	-8.2	0.64	0.12	-52.16
1,600.0	0.76	156.30	1,600.0	325.0	-7.0	4.8	-8.5	0.32	0.20	-19.32
1,625.0	0.66	149.13	1,625.0	350.0	-7.3	4.9	-8.8	0.53	-0.40	-28.68
1,650.0	0.45	142.32	1,650.0	375.0	-7.5	5.0	-9.0	0.88	-0.84	-27.24
1,675.0	0.51	155.88	1,675.0	400.0	-7.7	5.1	-9.2	0.51	0.24	54.24
1,700.0	0.62	168.84	1,700.0	425.0	-7.9	5.2	-9.5	0.67	0.44	51.84
1,725.0	0.81	157.13	1,725.0	450.0	-8.2	5.3	-9.8	0.96	0.76	-46.84
1,750.0	0.65	166.78	1,750.0	475.0	-8.5	5.4	-10.1	0.80	-0.64	38.60
1,775.0	0.85	158.26	1,775.0	500.0	-8.8	5.5	-10.4	0.91	0.80	-34.08
1,800.0	0.78	152.25	1,800.0	525.0	-9.2	5.7	-10.7	0.44	-0.28	-24.04
1,825.0	0.68	141.75	1,825.0	550.0	-9.4	5.8	-11.0	0.67	-0.40	-42.00
1,850.0	0.62	140.46	1,850.0	575.0	-9.7	6.0	-11.3	0.25	-0.24	-5.16
1,875.0	0.64	146.51	1,875.0	600.0	-9.9	6.2	-11.6	0.28	0.08	24.20
1,900.0	0.87	152.21	1,899.9	624.9	-10.2	6.3	-11.9	0.97	0.92	22.80
1,925.0	0.98	154.05	1,924.9	649.9	-10.5	6.5	-12.3	0.46	0.44	7.36
1,950.0	1.06	153.21	1,949.9	674.9	-10.9	6.7	-12.7	0.33	0.32	-3.36
1,975.0	0.76	143.11	1,974.9	699.9	-11.3	6.9	-13.1	1.36	-1.20	-40.40
2,000.0	0.48	142.82	1,999.9	724.9	-11.5	7.1	-13.4	1.12	-1.12	-1.16
2,025.0	0.62	140.25	2,024.9	749.9	-11.7	7.2	-13.6	0.57	0.56	-10.28
2,050.0	0.68	140.09	2,049.9	774.9	-11.9	7.4	-13.9	0.24	0.24	-0.64
2,075.0	0.52	142.76	2,074.9	799.9	-12.1	7.6	-14.2	0.65	-0.64	10.68
2,100.0	0.66	152.73	2,099.9	824.9	-12.3	7.7	-14.4	0.69	0.56	39.88
2,125.0	0.43	151.78	2,124.9	849.9	-12.5	7.8	-14.7	0.92	-0.92	-3.80
2,150.0	0.56	150.00	2,149.9	874.9	-12.7	7.9	-14.9	0.52	0.52	-7.12
2,175.0	0.58	141.55	2,174.9	899.9	-12.9	8.1	-15.1	0.35	0.08	-33.80
2,200.0	0.52	143.44	2,199.9	924.9	-13.1	8.2	-15.4	0.25	-0.24	7.56
2,225.0	0.56	133.00	2,224.9	949.9	-13.3	8.4	-15.6	0.42	0.16	-41.76
2,250.0	0.47	132.92	2,249.9	974.9	-13.4	8.5	-15.8	0.36	-0.36	-0.32
2,275.0	0.44	130.68	2,274.9	999.9	-13.6	8.7	-16.0	0.14	-0.12	-8.96
2,300.0	0.41	142.86	2,299.9	1,024.9	-13.7	8.8	-16.2	0.38	-0.12	48.72

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site Doddridge County 512484
Company:	EQT Production - Marcellus	TVD Reference:	KB @ 1275 0usft
Project:	Doddridge County, WV Gnd	MD Reference:	KB @ 1275 0usft
Site:	Doddridge County 512484	North Reference:	Gnd
Well:	Well #512484	Survey Calculation Method:	Minimum Curvature
Wellbore:	Main Wellbore		
Design:	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)
2,325.0	0.41	138.44	2,324.9	1,049.9	-13.8	8.9	-16.4	0.13	0.00	-17.68
2,350.0	0.24	153.14	2,349.9	1,074.9	-13.9	9.0	-16.5	0.75	-0.68	58.80
2,375.0	0.22	151.32	2,374.9	1,099.9	-14.0	9.1	-16.6	0.09	-0.08	-7.28
2,400.0	0.29	144.58	2,399.9	1,124.9	-14.1	9.1	-16.7	0.30	0.28	-26.96
2,425.0	0.43	144.49	2,424.9	1,149.9	-14.2	9.2	-16.9	0.56	0.56	-0.36
2,450.0	0.25	150.15	2,449.9	1,174.9	-14.4	9.3	-17.0	0.73	-0.72	22.64
2,475.0	0.24	148.44	2,474.9	1,199.9	-14.5	9.3	-17.1	0.05	-0.04	-6.84
2,500.0	0.24	132.19	2,499.9	1,224.9	-14.5	9.4	-17.2	0.27	0.00	-65.00
2,525.0	0.27	126.78	2,524.9	1,249.9	-14.6	9.5	-17.4	0.15	0.12	-21.64
2,550.0	0.27	122.64	2,549.9	1,274.9	-14.7	9.6	-17.5	0.08	0.00	-16.56
2,575.0	0.23	135.06	2,574.9	1,299.9	-14.7	9.7	-17.6	0.27	-0.16	49.68
2,600.0	0.16	120.98	2,599.9	1,324.9	-14.8	9.7	-17.7	0.34	-0.28	-56.32
2,625.0	0.13	130.66	2,624.9	1,349.9	-14.8	9.8	-17.7	0.15	-0.12	38.72
2,650.0	0.04	132.51	2,649.9	1,374.9	-14.9	9.8	-17.8	0.36	-0.36	7.40
2,675.0	0.23	256.51	2,674.9	1,399.9	-14.9	9.8	-17.7	1.02	0.76	496.00
2,700.0	0.26	249.88	2,699.9	1,424.9	-14.9	9.7	-17.7	0.16	0.12	-26.52
2,725.0	0.33	241.86	2,724.9	1,449.9	-15.0	9.6	-17.7	0.32	0.28	-32.08
2,750.0	0.39	239.87	2,749.9	1,474.9	-15.0	9.4	-17.6	0.25	0.24	-7.96
2,775.0	0.29	237.44	2,774.9	1,499.9	-15.1	9.3	-17.6	0.40	-0.40	-9.72
2,800.0	0.16	243.20	2,799.9	1,524.9	-15.2	9.2	-17.6	0.53	-0.52	23.04
2,825.0	0.37	255.71	2,824.9	1,549.9	-15.2	9.1	-17.6	0.87	0.84	50.04
2,850.0	0.39	254.74	2,849.9	1,574.9	-15.2	8.9	-17.5	0.08	0.08	-3.88
2,875.0	0.36	253.17	2,874.9	1,599.9	-15.3	8.8	-17.5	0.13	-0.12	-6.28
2,900.0	0.25	253.72	2,899.9	1,624.9	-15.3	8.7	-17.4	0.44	-0.44	2.20
2,925.0	0.28	276.35	2,924.9	1,649.9	-15.3	8.5	-17.3	0.43	0.12	90.52
2,950.0	0.22	275.91	2,949.9	1,674.9	-15.3	8.4	-17.3	0.24	-0.24	-1.76
2,975.0	0.21	273.61	2,974.9	1,699.9	-15.3	8.3	-17.2	0.05	-0.04	-9.20
3,000.0	0.24	290.89	2,999.9	1,724.9	-15.3	8.2	-17.1	0.30	0.12	69.12
3,025.0	0.12	229.84	3,024.9	1,749.9	-15.3	8.2	-17.1	0.84	-0.48	-244.20
3,050.0	0.06	199.14	3,049.9	1,774.9	-15.3	8.2	-17.1	0.30	-0.24	-122.80
3,075.0	0.09	190.13	3,074.9	1,799.9	-15.4	8.1	-17.1	0.13	0.12	-36.04
3,100.0	0.20	187.97	3,099.9	1,824.9	-15.4	8.1	-17.2	0.44	0.44	-8.64
3,125.0	0.21	185.01	3,124.9	1,849.9	-15.5	8.1	-17.2	0.06	0.04	-11.84
3,150.0	0.08	182.48	3,149.9	1,874.9	-15.6	8.1	-17.3	0.52	-0.52	-10.12
3,175.0	0.05	189.63	3,174.9	1,899.9	-15.6	8.1	-17.3	0.12	-0.12	28.60
3,200.0	0.11	185.57	3,199.9	1,924.9	-15.6	8.1	-17.3	0.24	0.24	-16.24
3,225.0	0.20	229.18	3,224.9	1,949.9	-15.7	8.1	-17.3	0.57	0.36	174.44
3,250.0	0.27	244.76	3,249.9	1,974.9	-15.7	8.0	-17.3	0.38	0.28	62.32
3,275.0	0.17	263.06	3,274.9	1,999.9	-15.8	7.9	-17.3	0.48	-0.40	73.20
3,300.0	0.16	285.55	3,299.9	2,024.9	-15.8	7.8	-17.2	0.26	-0.04	89.96
3,325.0	0.13	278.71	3,324.9	2,049.9	-15.7	7.8	-17.2	0.14	-0.12	-27.36
3,350.0	0.20	275.67	3,349.9	2,074.9	-15.7	7.7	-17.1	0.28	0.28	-12.16

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site Doddridge County 512484
Company:	EQT Production - Marcellus	TVD Reference:	KB @ 1275.0usft
Project:	Doddridge County, WV Grid	MD Reference:	KB @ 1275.0usft
Site:	Doddridge County 512484	North Reference:	Grd
Well:	Well #512484	Survey Calculation Method:	Minimum Curvature
Wellbore:	Main Wellbore		
Design:	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)
3,375.0	0.29	276.89	3,374.9	2,099.9	-15.7	7.6	-17.1	0.36	0.36	4.88
3,400.0	0.35	303.64	3,399.9	2,124.9	-15.7	7.5	-16.9	0.64	0.24	107.00
3,425.0	0.40	308.19	3,424.9	2,149.9	-15.6	7.3	-16.8	0.23	0.20	18.20
3,450.0	0.35	309.81	3,449.9	2,174.9	-15.5	7.2	-16.6	0.20	-0.20	6.48
3,475.0	0.40	310.70	3,474.9	2,199.9	-15.4	7.1	-16.5	0.20	0.20	3.56
3,500.0	0.20	302.47	3,499.9	2,224.9	-15.3	7.0	-16.3	0.82	-0.80	-32.92
3,525.0	0.39	304.90	3,524.9	2,249.9	-15.2	6.9	-16.2	0.76	0.76	9.72
3,550.0	0.41	300.93	3,549.9	2,274.9	-15.1	6.7	-16.1	0.14	0.08	-15.88
3,575.0	0.24	301.53	3,574.9	2,299.9	-15.1	6.6	-15.9	0.68	-0.68	2.40
3,600.0	0.24	285.76	3,599.9	2,324.9	-15.0	6.5	-15.8	0.26	0.00	-63.08
3,625.0	0.61	283.32	3,624.9	2,349.9	-15.0	6.3	-15.7	1.48	1.48	-9.76
3,650.0	0.64	282.29	3,649.9	2,374.9	-14.9	6.1	-15.5	0.13	0.12	-4.12
3,675.0	0.60	276.96	3,674.9	2,399.9	-14.9	5.8	-15.3	0.28	-0.16	-21.32
3,700.0	0.74	270.34	3,699.9	2,424.9	-14.8	5.5	-15.1	0.64	0.56	-26.48
3,725.0	0.96	267.20	3,724.9	2,449.9	-14.9	5.1	-14.9	0.90	0.88	-12.56
3,750.0	0.93	269.31	3,749.9	2,474.9	-14.9	4.7	-14.6	0.18	-0.12	8.44
3,775.0	0.58	271.84	3,774.9	2,499.9	-14.9	4.4	-14.4	1.41	-1.40	10.12
3,800.0	0.47	277.61	3,799.9	2,524.9	-14.8	4.2	-14.2	0.49	-0.44	23.08
3,825.0	0.33	289.99	3,824.9	2,549.9	-14.8	4.0	-14.1	0.65	-0.56	49.52
3,850.0	0.26	12.07	3,849.9	2,574.9	-14.7	3.9	-14.0	1.56	-0.28	328.32
3,875.0	0.82	12.91	3,874.9	2,599.9	-14.5	4.0	-13.9	2.24	2.24	3.36
3,900.0	1.25	43.53	3,899.9	2,624.9	-14.1	4.2	-13.7	2.74	1.72	122.48
3,925.0	1.31	56.67	3,924.9	2,649.9	-13.8	4.7	-13.7	1.20	0.24	52.56
3,950.0	1.33	60.91	3,949.9	2,674.9	-13.5	5.1	-13.8	0.40	0.08	16.96
3,975.0	1.28	62.82	3,974.9	2,699.9	-13.2	5.6	-13.9	0.27	-0.20	7.64
4,000.0	1.25	65.73	3,999.9	2,724.9	-13.0	6.1	-14.0	0.28	-0.12	11.64
4,025.0	1.05	56.36	4,024.9	2,749.9	-12.7	6.6	-14.1	1.10	-0.80	-37.48
4,050.0	1.01	60.20	4,049.9	2,774.9	-12.5	7.0	-14.1	0.32	-0.16	15.36
4,075.0	0.94	58.22	4,074.8	2,799.8	-12.3	7.3	-14.2	0.31	-0.28	-7.92
4,100.0	0.97	51.99	4,099.8	2,824.8	-12.0	7.7	-14.2	0.43	0.12	-24.92
4,125.0	0.88	42.18	4,124.8	2,849.8	-11.8	8.0	-14.2	0.73	-0.36	-39.24
4,150.0	0.81	35.66	4,149.8	2,874.8	-11.5	8.2	-14.1	0.48	-0.28	-26.08
4,175.0	0.87	28.29	4,174.8	2,899.8	-11.2	8.4	-14.0	0.49	0.24	-29.48
4,200.0	0.92	13.24	4,199.8	2,924.8	-10.8	8.5	-13.8	0.96	0.20	-60.20
4,225.0	1.00	0.34	4,224.8	2,949.8	-10.4	8.6	-13.5	0.92	0.32	-51.60
4,250.0	1.02	2.95	4,249.8	2,974.8	-9.9	8.6	-13.1	0.20	0.08	10.44
4,275.0	0.99	356.45	4,274.8	2,999.8	-9.5	8.6	-12.8	0.47	-0.12	-26.00
4,300.0	1.33	354.26	4,299.8	3,024.8	-9.0	8.5	-12.4	1.37	1.36	-8.76
4,325.0	1.16	355.91	4,324.8	3,049.8	-8.5	8.5	-11.9	0.69	-0.68	6.60
4,350.0	1.36	357.03	4,349.8	3,074.8	-7.9	8.5	-11.5	0.81	0.80	4.48
4,375.0	1.19	353.57	4,374.8	3,099.8	-7.4	8.4	-11.0	0.75	-0.68	-13.84
4,400.0	1.08	356.99	4,399.8	3,124.8	-6.9	8.4	-10.6	0.52	-0.44	13.68
4,425.0	1.06	355.61	4,424.8	3,149.8	-6.4	8.3	-10.2	0.13	-0.08	-5.52

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site Doddridge County 512484
Company:	EQT Production - Marcellus	TVD Reference:	KB @ 1275.0usft
Project:	Doddridge County, WV Grid	MD Reference:	KB @ 1275.0usft
Site:	Doddridge County 512484	North Reference:	Grid
Well:	Well #512484	Survey Calculation Method:	Minimum Curvature
Wellbore:	Main Wellbore		
Design:	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)
4,450.0	1.29	353.62	4,449.8	3,174.8	-5.9	8.3	-9.8	0.93	0.92	-7.96
4,475.0	1.43	355.22	4,474.8	3,199.8	-5.3	8.2	-9.3	0.58	0.56	6.40
4,500.0	1.41	348.40	4,499.8	3,224.8	-4.7	8.2	-8.7	0.68	-0.08	-27.28
4,525.0	1.46	346.41	4,524.8	3,249.8	-4.1	8.0	-8.2	0.28	0.20	-7.96
4,550.0	1.49	333.94	4,549.8	3,274.8	-3.5	7.8	-7.6	1.29	0.12	-49.88
4,575.0	1.63	331.26	4,574.7	3,299.7	-2.9	7.5	-6.9	0.63	0.56	-10.72
4,600.0	1.68	325.40	4,599.7	3,324.7	-2.3	7.1	-6.2	0.71	0.20	-23.44
4,625.0	1.62	327.00	4,624.7	3,349.7	-1.7	6.7	-5.5	0.30	-0.24	6.40
4,650.0	1.80	325.63	4,649.7	3,374.7	-1.0	6.3	-4.7	0.74	0.72	-5.48
4,675.0	1.76	325.91	4,674.7	3,399.7	-0.4	5.9	-3.9	0.16	-0.16	1.12
4,700.0	1.51	328.25	4,699.7	3,424.7	0.2	5.5	-3.2	1.03	-1.00	9.36
4,725.0	1.61	327.76	4,724.7	3,449.7	0.8	5.1	-2.5	0.40	0.40	-1.96
4,750.0	1.65	326.56	4,749.7	3,474.7	1.4	4.7	-1.8	0.21	0.16	-4.80
4,775.0	1.32	324.30	4,774.7	3,499.7	1.9	4.4	-1.2	1.34	-1.32	-9.04
4,800.0	1.52	322.86	4,799.7	3,524.7	2.4	4.0	-0.6	0.81	0.80	-5.76
4,825.0	1.18	323.85	4,824.6	3,549.6	2.9	3.6	0.0	1.36	-1.36	3.96
4,850.0	1.59	316.57	4,849.6	3,574.6	3.3	3.2	0.6	1.78	1.64	-29.12
4,875.0	1.62	317.13	4,874.6	3,599.6	3.8	2.8	1.3	0.14	0.12	2.24
4,900.0	1.61	319.00	4,899.6	3,624.6	4.4	2.3	2.0	0.21	-0.04	7.48
4,925.0	1.25	315.15	4,924.6	3,649.6	4.8	1.9	2.6	1.49	-1.44	-15.40
4,950.0	1.47	306.71	4,949.6	3,674.6	5.2	1.4	3.2	1.19	0.88	-33.76
4,975.0	1.36	308.13	4,974.6	3,699.6	5.6	0.9	3.8	0.46	-0.44	5.68
5,000.0	1.62	310.53	4,999.6	3,724.6	6.0	0.4	4.5	1.07	1.04	9.60
5,025.0	1.66	313.25	5,024.6	3,749.6	6.5	-0.1	5.2	0.35	0.16	10.88
5,050.0	1.59	316.42	5,049.6	3,774.6	7.0	-0.6	5.9	0.46	-0.28	12.68
5,075.0	1.58	310.72	5,074.6	3,799.6	7.5	-1.1	6.5	0.63	-0.04	-22.80
5,100.0	2.14	311.31	5,099.5	3,824.5	8.0	-1.7	7.3	2.24	2.24	2.36
5,125.0	2.14	312.60	5,124.5	3,849.5	8.6	-2.4	8.3	0.19	0.00	5.16
5,150.0	2.20	311.65	5,149.5	3,874.5	9.2	-3.1	9.2	0.28	0.24	-3.80
5,175.0	2.33	313.61	5,174.5	3,899.5	9.9	-3.8	10.2	0.61	0.52	7.84
5,200.0	2.49	312.37	5,199.5	3,924.5	10.6	-4.6	11.2	0.67	0.64	-4.96
Gyro Tie In=5225' MD										
5,225.0	2.48	310.25	5,224.4	3,949.4	11.3	-5.4	12.3	0.37	-0.04	-8.48
KOP=5255' MD										
5,258.0	3.10	292.20	5,255.4	3,980.4	12.1	-6.7	13.7	3.45	2.00	-58.23
5,288.0	6.20	288.10	5,287.3	4,012.3	12.4	-9.2	15.4	11.25	9.69	-75.31
5,319.0	10.40	264.20	5,318.0	4,043.0	12.0	-13.7	17.9	13.66	13.55	-12.58
5,351.0	12.10	257.90	5,349.4	4,074.4	11.0	-19.9	20.9	6.55	5.31	-19.69
5,382.0	14.20	244.00	5,379.6	4,104.6	8.7	-26.5	23.2	12.20	6.77	-44.84
5,414.0	17.10	234.50	5,410.4	4,135.4	4.2	-33.8	24.2	12.07	9.06	-29.69
5,445.0	20.50	231.30	5,439.7	4,164.7	-1.8	-41.8	24.4	11.46	10.97	-10.32
5,477.0	23.40	227.00	5,469.4	4,194.4	-9.6	-50.8	23.8	10.36	9.06	-13.44
5,508.0	26.20	224.60	5,497.5	4,222.5	-18.7	-60.1	22.4	9.60	9.03	-7.74



Where energy meets innovation.

Phoenix Technology Services Survey Report



Where energy meets innovation.

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site Doddridge County 512484
Company:	EQT Production - Marcellus	TVD Reference:	KB @ 1275.0usft
Project:	Doddridge County, WV Grid	MD Reference:	KB @ 1275.0usft
Site:	Doddridge County 512484	North Reference:	Gnd
Well:	Well #512484	Survey Calculation Method:	Minimum Curvature
Wellbore:	Main Wellbore		
Design:	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)
5,540.0	28.40	224.80	5,526.0	4,251.0	-29.2	-70.4	20.6	6.88	6.88	0.63
5,571.0	30.80	226.30	5,552.9	4,277.9	-39.9	-81.4	18.9	8.10	7.74	4.84
5,603.0	33.60	224.70	5,580.0	4,305.0	-51.8	-93.5	17.0	9.15	8.75	-5.00
5,634.0	36.00	222.30	5,605.4	4,330.4	-64.7	-105.7	14.5	8.91	7.74	-7.74
512476 LP 510' VS										
5,666.0	39.60	221.60	5,630.7	4,355.7	-79.3	-118.8	11.1	11.33	11.25	-2.19
5,697.0	43.50	221.70	5,653.9	4,378.9	-94.6	-132.4	7.5	12.58	12.58	0.32
512474 Top of Perf										
5,708.6	44.05	221.51	5,662.3	4,387.3	-100.6	-137.7	6.1	4.89	4.76	-1.66
5,760.0	46.50	220.70	5,698.5	4,423.5	-128.1	-161.8	-0.7	4.89	4.76	-1.57
5,822.0	45.00	219.70	5,741.7	4,466.7	-162.0	-190.4	-9.7	2.68	-2.42	-1.61
5,885.0	44.10	218.20	5,786.6	4,511.6	-196.4	-218.2	-19.5	2.20	-1.43	-2.38
5,948.0	42.20	219.20	5,832.6	4,557.6	-230.0	-245.2	-29.3	3.21	-3.02	1.59
6,011.0	40.00	221.30	5,880.1	4,605.1	-261.7	-271.9	-37.7	4.12	-3.49	3.33
6,074.0	38.10	221.30	5,929.0	4,654.0	-291.5	-298.1	-44.9	3.02	-3.02	0.00
6,137.0	36.20	220.60	5,979.2	4,704.2	-320.2	-323.0	-52.1	3.09	-3.02	-1.11
6,200.0	35.90	220.50	6,030.1	4,755.1	-348.4	-347.1	-59.3	0.49	-0.48	-0.16
6,231.0	36.70	221.10	6,055.1	4,780.1	-362.3	-359.1	-62.8	2.82	2.58	1.94
6,263.0	34.40	220.40	6,081.1	4,806.1	-376.4	-371.3	-66.4	7.30	-7.19	-2.19
6,294.0	34.70	222.60	6,106.7	4,831.7	-389.5	-382.9	-69.6	4.14	0.97	7.10
6,326.0	36.80	229.10	6,132.7	4,857.7	-402.5	-396.3	-71.5	13.55	6.56	20.31
6,357.0	38.90	235.30	6,157.1	4,882.1	-414.1	-411.4	-71.3	14.01	6.77	20.00
512473 Top of Perf										
6,358.2	38.92	235.54	6,158.0	4,883.0	-414.5	-412.0	-71.3	13.45	1.69	21.25
6,388.0	39.60	241.80	6,181.2	4,906.2	-424.3	-428.1	-69.0	13.45	2.28	20.96
6,420.0	39.10	245.80	6,205.9	4,930.9	-433.3	-446.3	-64.8	8.08	-1.56	12.50
6,451.0	38.90	252.40	6,230.0	4,955.0	-440.3	-464.5	-59.0	13.41	-0.65	21.29
6,483.0	39.00	256.80	6,254.9	4,979.9	-445.6	-483.9	-51.3	8.65	0.31	13.75
6,514.0	39.20	261.20	6,279.0	5,004.0	-449.3	-503.0	-42.3	8.97	0.65	14.19
6,546.0	40.30	263.50	6,303.6	5,028.6	-452.0	-523.3	-31.9	5.74	3.44	7.19
6,578.0	41.90	266.60	6,327.7	5,052.7	-453.8	-544.3	-20.4	8.10	5.00	9.69
6,609.0	42.90	269.50	6,350.6	5,075.6	-454.6	-565.2	-8.1	7.08	3.23	9.35
6,640.0	43.90	275.60	6,373.1	5,098.1	-453.6	-586.4	5.8	13.90	3.23	19.68
6,672.0	44.90	280.70	6,396.0	5,121.0	-450.4	-608.6	22.0	11.58	3.13	15.94
6,703.0	44.70	284.70	6,418.0	5,143.0	-445.6	-629.9	39.0	9.11	-0.65	12.90
6,735.0	46.50	288.90	6,440.4	5,165.4	-439.0	-651.7	57.7	10.93	5.63	13.13
6,766.0	48.00	293.00	6,461.4	5,186.4	-430.9	-673.0	77.2	10.85	4.84	13.23
6,798.0	50.20	296.80	6,482.4	5,207.4	-420.7	-694.9	98.8	11.30	6.88	11.88
6,829.0	53.10	300.50	6,501.6	5,226.6	-409.0	-716.2	121.1	13.23	9.35	11.94
6,860.0	56.30	304.50	6,519.5	5,244.5	-395.4	-737.5	145.0	14.74	10.32	12.90
512475 Top of Perf										
6,892.0	59.20	307.20	6,536.6	5,261.6	-379.5	-759.5	171.0	11.53	9.06	8.44
6,923.0	60.30	308.80	6,552.2	5,277.2	-363.1	-780.6	197.0	5.70	3.55	5.16

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site Doddridge County 512484
Company:	EQT Production - Marcellus	TVD Reference:	KB @ 1275 0usft
Project:	Doddridge County, WV Grid	MD Reference:	KB @ 1275 0usft
Site:	Doddridge County 512484	North Reference:	Grid
Well:	Well #512484	Survey Calculation Method:	Minimum Curvature
Wellbore:	Main Wellbore		
Design:	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)
6,955.0	62.80	308.90	6,567.5	5,292.5	-345.4	-802.5	224.4	7.82	7.81	0.31
6,986.0	65.00	309.70	6,581.1	5,306.1	-327.8	-824.0	251.6	7.47	7.10	2.58
7,018.0	67.80	311.30	6,593.9	5,318.9	-308.7	-846.3	280.3	9.88	8.75	5.00
7,049.0	67.10	312.50	6,605.8	5,330.8	-289.6	-867.6	308.5	4.23	-2.26	3.87
7,080.0	69.90	315.50	6,617.2	5,342.2	-269.6	-888.4	337.1	12.75	9.03	9.68
7,112.0	70.70	317.30	6,628.0	5,353.0	-247.8	-909.1	367.1	5.86	2.50	5.63
7,144.0	73.10	320.70	6,637.9	5,362.9	-224.8	-929.1	397.5	12.58	7.50	10.63
7,175.0	73.30	321.50	6,646.9	5,371.9	-201.7	-947.7	427.2	2.55	0.65	2.58
7,207.0	76.70	324.80	6,655.1	5,380.1	-177.0	-966.2	458.0	14.56	10.63	10.31
7,238.0	80.00	328.10	6,661.4	5,386.4	-151.7	-983.0	488.3	14.90	10.65	10.65
7,270.0	83.30	331.10	6,666.1	5,391.1	-124.4	-999.0	519.7	13.87	10.31	9.38
LP=7301' MD/ 6669' TVD										
7,301.0	87.10	333.60	6,668.6	5,393.6	-97.0	-1,013.4	550.0	14.66	12.26	8.06
512484 LP 579' VS OA										
7,330.4	91.74	336.44	6,668.9	5,393.9	-70.4	-1,025.7	578.6	18.53	15.81	9.68
7,332.0	92.00	336.60	6,668.9	5,393.9	-68.9	-1,026.4	580.2	18.53	15.81	9.68
7,396.0	92.50	336.20	6,666.4	5,391.4	-10.3	-1,052.0	642.1	1.00	0.78	-0.63
512484 LP										
7,444.6	90.88	335.35	6,664.9	5,389.9	34.0	-1,071.9	689.2	3.76	-3.33	-1.75
7,459.0	90.40	335.10	6,664.8	5,389.8	47.1	-1,078.0	703.2	3.76	-3.33	-1.74
7,522.0	88.50	333.30	6,665.4	5,390.4	103.8	-1,105.4	764.8	4.15	-3.02	-2.86
512483 LP										
7,542.8	88.27	332.97	6,666.0	5,391.0	122.4	-1,114.8	785.2	1.94	-1.11	-1.59
7,585.0	87.80	332.30	6,667.4	5,392.4	159.8	-1,134.2	826.6	1.94	-1.11	-1.59
7,648.0	87.30	332.20	6,670.1	5,395.1	215.5	-1,163.5	888.5	0.81	-0.79	-0.16
7,711.0	87.10	332.20	6,673.2	5,398.2	271.1	-1,192.8	950.4	0.32	-0.32	0.00
7,774.0	87.90	333.50	6,675.9	5,400.9	327.1	-1,221.5	1,012.1	2.42	1.27	2.06
7,837.0	87.80	334.20	6,678.3	5,403.3	383.7	-1,249.3	1,073.7	1.12	-0.16	1.11
7,900.0	87.70	333.60	6,680.8	5,405.8	440.2	-1,277.0	1,135.3	0.96	-0.16	-0.95
7,962.0	88.90	335.10	6,682.6	5,407.6	496.1	-1,303.8	1,195.8	3.10	1.94	2.42
8,025.0	88.70	334.20	6,683.9	5,408.9	553.0	-1,330.8	1,257.2	1.46	-0.32	-1.43
8,089.0	88.80	334.10	6,685.3	5,410.3	610.6	-1,358.7	1,319.7	0.22	0.16	-0.16
8,152.0	88.30	334.50	6,686.9	5,411.9	667.3	-1,386.0	1,381.2	1.02	-0.79	0.63
8,215.0	88.20	334.90	6,688.8	5,413.8	724.2	-1,412.9	1,442.6	0.65	-0.16	0.63
8,278.0	88.10	334.10	6,690.9	5,415.9	781.1	-1,440.0	1,504.0	1.28	-0.16	-1.27
8,341.0	88.80	335.30	6,692.6	5,417.6	838.0	-1,466.9	1,565.4	2.20	1.11	1.90
8,404.0	88.40	338.00	6,694.1	5,419.1	895.8	-1,491.9	1,626.3	4.33	-0.63	4.29
8,467.0	88.40	337.40	6,695.9	5,420.9	954.1	-1,515.8	1,686.9	0.95	0.00	-0.95
8,530.0	88.60	337.30	6,697.5	5,422.5	1,012.2	-1,540.0	1,747.5	0.35	0.32	-0.16
8,593.0	88.70	336.90	6,699.0	5,424.0	1,070.2	-1,564.5	1,808.3	0.65	0.16	-0.63
8,656.0	88.70	336.50	6,700.4	5,425.4	1,128.1	-1,589.4	1,869.2	0.63	0.00	-0.63
8,719.0	88.30	335.90	6,702.1	5,427.1	1,185.7	-1,614.9	1,930.2	1.14	-0.63	-0.95
8,782.0	88.30	335.90	6,704.0	5,429.0	1,243.2	-1,640.6	1,991.3	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Do	Local Co-ordinate Reference:	Site Doddridge County 512484
Company:	EQT Production - Marcellus	TVD Reference:	KB @ 1275 0usft
Project:	Doddridge County, WV Grid	MD Reference:	KB @ 1275 0usft
Site:	Doddridge County 512484	North Reference:	Grid
Well:	Well #512484	Survey Calculation Method:	Minimum Curvature
Wellbore:	Main Wellbore		
Design:	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)
8,845.0	88.40	335.30	6,705.8	5,430.8	1,300.5	-1,666.6	2,052.4	0.97	0.16	-0.95
8,908.0	88.00	335.80	6,707.8	5,432.8	1,357.8	-1,692.7	2,113.6	1.02	-0.63	0.79
8,971.0	86.90	338.10	6,710.6	5,435.6	1,415.8	-1,717.3	2,174.3	4.04	-1.75	3.65
9,034.0	87.00	337.70	6,713.9	5,438.9	1,474.0	-1,741.0	2,234.8	0.65	0.16	-0.63
9,097.0	87.30	337.60	6,717.0	5,442.0	1,532.2	-1,764.9	2,295.3	0.50	0.48	-0.16
9,160.0	87.80	338.20	6,719.7	5,444.7	1,590.6	-1,788.6	2,355.8	1.24	0.79	0.95
9,223.0	87.40	337.20	6,722.4	5,447.4	1,648.8	-1,812.5	2,416.4	1.71	-0.63	-1.59
9,286.0	87.60	337.00	6,725.1	5,450.1	1,706.8	-1,836.9	2,477.1	0.45	0.32	-0.32
9,349.0	87.60	336.80	6,727.8	5,452.8	1,764.7	-1,861.6	2,537.9	0.32	0.00	-0.32
9,411.0	87.90	336.50	6,730.2	5,455.2	1,821.6	-1,886.2	2,597.7	0.68	0.48	-0.48
9,474.0	87.90	335.80	6,732.5	5,457.5	1,879.1	-1,911.6	2,658.7	1.11	0.00	-1.11
9,537.0	87.90	334.90	6,734.8	5,459.8	1,936.4	-1,937.9	2,720.0	1.43	0.00	-1.43
9,600.0	88.40	335.00	6,736.9	5,461.9	1,993.4	-1,964.6	2,781.3	0.81	0.79	0.16
9,664.0	88.20	336.00	6,738.7	5,463.7	2,051.6	-1,991.1	2,843.4	1.59	-0.31	1.56
9,727.0	88.70	337.20	6,740.5	5,465.5	2,109.4	-2,016.1	2,904.3	2.06	0.79	1.90
9,790.0	90.00	338.50	6,741.2	5,466.2	2,167.7	-2,039.9	2,964.9	2.92	2.06	2.06
9,853.0	90.10	338.60	6,741.1	5,466.1	2,226.4	-2,062.9	3,025.2	0.22	0.16	0.16
9,916.0	90.30	337.80	6,740.9	5,465.9	2,284.9	-2,086.3	3,085.7	1.31	0.32	-1.27
9,979.0	90.50	337.60	6,740.5	5,465.5	2,343.2	-2,110.2	3,146.3	0.45	0.32	-0.32
10,042.0	90.30	336.50	6,740.0	5,465.0	2,401.2	-2,134.8	3,207.0	1.77	-0.32	-1.75
10,105.0	90.50	336.60	6,739.6	5,464.6	2,459.0	-2,159.8	3,268.0	0.35	0.32	0.16
10,168.0	90.60	336.80	6,739.0	5,464.0	2,516.8	-2,184.7	3,328.9	0.35	0.16	0.32
10,231.0	90.60	336.30	6,738.3	5,463.3	2,574.6	-2,209.8	3,389.8	0.79	0.00	-0.79
10,294.0	89.80	334.70	6,738.1	5,463.1	2,631.9	-2,235.9	3,451.0	2.84	-1.27	-2.54
10,358.0	89.50	334.40	6,738.5	5,463.5	2,689.7	-2,263.4	3,513.4	0.66	-0.47	-0.47
10,421.0	89.30	333.90	6,739.1	5,464.1	2,746.4	-2,290.9	3,575.0	0.85	-0.32	-0.79
10,484.0	89.50	333.60	6,739.8	5,464.8	2,802.9	-2,318.8	3,636.6	0.57	0.32	-0.48
10,547.0	89.60	333.50	6,740.3	5,465.3	2,859.3	-2,346.8	3,698.3	0.22	0.16	-0.16
10,611.0	90.30	334.10	6,740.4	5,465.4	2,916.8	-2,375.1	3,760.9	1.44	1.09	0.94
10,674.0	92.70	336.20	6,738.7	5,463.7	2,973.9	-2,401.6	3,822.2	5.06	3.81	3.33
Final Survey=10737' MD/ 6736' TVD										
10,737.0	93.10	335.70	6,735.5	5,460.5	3,031.4	-2,427.2	3,883.2	1.02	0.63	-0.79
Projection to TD=10824' MD/ 6731' TVD - 512484 TD										
10,824.0	93.10	335.70	6,730.8	5,455.8	3,110.5	-2,462.9	3,967.5	0.00	0.00	0.00

Database:	EDM 5000 1 Single User Db	Local Co-ordinate Reference:	Site Doddridge County 512484
Company:	EQT Production - Marcellus	TVD Reference:	KB @ 1275 0usft
Project:	Doddridge County, WV Grid	MD Reference:	KB @ 1275 0usft
Site:	Doddridge County 512484	North Reference:	Grid
Well:	Well #512484	Survey Calculation Method:	Minimum Curvature
Wellbore:	Main Wellbore		
Design:	As Drilled		

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5,225.0	5,224.4	11.3	-5.4	Gyro Tie In=5225' MD
5,256.0	5,255.4	12.1	-6.7	KOP=5256' MD
7,301.0	6,668.6	-97.0	-1,013.4	LP=7301' MD/ 6669' TVD
10,737.0	6,735.5	3,031.4	-2,427.2	Final Survey=10737' MD/ 6736' TVD
10,824.0	6,730.8	3,110.5	-2,462.9	Projection to TD=10824' MD/ 6731' TVD

Checked By: _____ Approved By: _____ Date: _____



Project: Doddridge County, WV Grid
 Site: Doddridge County 512484
 Well: Well #512484
 Wellbore: Main Wellbore
 Design: As Drilled

