

3D-015-39188

Mewbourne Oil Co

Eddy County, New Mexico

Sec35-19S-29E

Four Peaks 35 Fed Com #1H

Wellbore #1

Survey: DDC MWD

DDC Survey Report

03 November, 2011



DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Four Peaks 35 Fed Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	Well @ 3336.0usft (Patterson UTI #46)
Site:	Sec35-19S-29E	MD Reference:	Well @ 3336.0usft (Patterson UTI #46)
Well:	Four Peaks 35 Fed Com #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000 1 Single User Db

Project:	Eddy County, New Mexico		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site:		Sec35-19S-29E			
Site Position:		Northing:	590,381.51 usft	Latitude:	32° 37' 21.895 N
From:	Map	Easting:	586,446.05 usft	Longitude:	104° 3' 9.204 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.15 °

Well	Four Peaks 35 Fed Com #1H					
Well Position	+N/-S	0 0 usft	Northing:	590,381 51 usft	Latitude:	32° 37' 21 895 N
	+E/-W	0 0 usft	Easting:	586,446 05 usft	Longitude:	104° 3' 9 204 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,315 0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/26/2011	7 80	60 47	48,776

Design:	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	95.60	

Survey Program		Date	11/3/2011	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	7,418.0	Gyro (Wellbore #1)	Good__mag	Good Magnetic
7,496.0	12,518.0	DDC MWD (Wellbore #1)	MWD default	MWD - Standard

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Tie into Gyro									
7,418.0	1.65	258.48	7,415.9	26.3	-16.2	-18.7	0.00	0.00	0.00
7,496.0	1.80	228.00	7,493.9	25.2	-18.2	-20.6	1.18	0.19	-39.08
7,528.0	1.80	193.40	7,525.9	24.4	-18.7	-21.0	3.34	0.00	-108.13
7,559.0	3.60	137.40	7,556.8	23.2	-18.2	-20.3	9.65	5.81	-180.65
7,591.0	6.20	116.80	7,588.7	21.7	-15.9	-18.0	9.69	8.13	-64.38
7,622.0	9.10	105.40	7,619.4	20.3	-12.1	-14.0	10.51	9.35	-36.77
7,654.0	12.30	97.80	7,650.9	19.1	-6.3	-8.1	10.91	10.00	-23.75
Hard Line crossing @ 7681.5' MD									

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Four Peaks 35-Fed Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	Well @ 3336 0usft (Patterson UTI #46)
Site:	Sec35-19S-29E	MD Reference:	Well @ 3336 0usft (Patterson UTI #46)
Well:	Four Peaks 35-Fed Com #1H	North Reference:	Grd
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000 1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,681.5	14.87	94.00	7,677.6	18.5	0.2	-1.6	9.90	9.36	-13.81
7,686.0	15.30	93.50	7,681.9	18.4	1.3	-0.5	9.90	9.47	-11.15
7,717.0	18.20	93.20	7,711.6	17.9	10.3	8.5	9.36	9.35	-0.97
7,749.0	21.00	95.00	7,741.8	17.1	21.0	19.2	8.95	8.75	5.63
7,781.0	24.00	97.50	7,771.3	15.8	33.1	31.4	9.84	9.38	7.81
7,812.0	26.60	97.40	7,799.4	14.1	46.3	44.7	8.39	8.39	-0.32
7,844.0	29.10	96.70	7,827.7	12.2	61.1	59.6	7.88	7.81	-2.19
7,876.0	31.80	97.40	7,855.2	10.2	77.2	75.8	8.51	8.44	2.19
7,908.0	34.30	97.90	7,882.1	7.9	94.5	93.3	7.86	7.81	1.56
7,939.0	37.00	97.30	7,907.2	5.5	112.4	111.3	8.78	8.71	-1.94
7,971.0	40.00	96.90	7,932.3	3.1	132.2	131.2	9.41	9.38	-1.25
8,002.0	43.40	96.80	7,955.4	0.6	152.6	151.8	10.97	10.97	-0.32
8,034.0	46.50	97.00	7,978.1	-2.1	175.1	174.4	9.70	9.69	0.63
8,066.0	50.30	96.20	7,999.3	-4.9	198.8	198.4	12.02	11.88	-2.50
8,098.0	54.00	95.00	8,018.9	-7.3	224.0	223.6	11.94	11.56	-3.75
8,129.0	57.10	95.10	8,036.5	-9.6	249.4	249.2	10.00	10.00	0.32
8,161.0	60.00	95.90	8,053.2	-12.2	276.6	276.5	9.31	9.06	2.50
8,193.0	63.70	96.90	8,068.3	-15.3	304.6	304.7	11.89	11.56	3.13
8,224.0	67.30	97.40	8,081.1	-18.8	332.6	332.9	11.71	11.61	1.61
8,256.0	70.20	97.30	8,092.7	-22.7	362.2	362.7	9.07	9.06	-0.31
8,288.0	73.40	96.20	8,102.7	-26.2	392.4	393.1	10.52	10.00	-3.44
8,319.0	76.50	95.90	8,110.8	-29.4	422.2	423.0	10.04	10.00	-0.97
8,351.0	79.70	96.40	8,117.4	-32.7	453.3	454.3	10.12	10.00	1.56
8,372.0	81.90	96.50	8,120.7	-35.1	473.9	475.0	10.49	10.48	0.48
8,441.0	85.80	97.40	8,128.1	-43.4	542.0	543.6	5.80	5.65	1.30
8,472.0	85.70	99.80	8,130.4	-48.0	572.5	574.5	7.73	-0.32	7.74
8,504.0	86.50	99.50	8,132.6	-53.3	604.0	606.3	2.67	2.50	-0.94
8,535.0	87.00	98.90	8,134.3	-58.3	634.6	637.2	2.52	1.61	-1.94
8,567.0	87.80	98.50	8,135.8	-63.1	666.2	669.1	2.79	2.50	-1.25
8,599.0	87.50	96.00	8,137.1	-67.2	697.9	701.1	7.86	-0.94	-7.81
8,631.0	86.70	94.70	8,138.7	-70.1	729.7	733.0	4.77	-2.50	-4.06
8,663.0	88.30	94.20	8,140.1	-72.6	761.6	765.0	5.24	5.00	-1.56
8,695.0	90.00	94.40	8,140.6	-75.0	793.5	797.0	5.35	5.31	0.63
8,727.0	90.20	94.50	8,140.5	-77.5	825.4	829.0	0.70	0.63	0.31
8,758.0	89.60	93.90	8,140.6	-79.8	856.3	860.0	2.74	-1.94	-1.94
8,789.0	89.90	93.90	8,140.7	-81.9	887.2	891.0	0.97	0.97	0.00
8,821.0	90.80	94.20	8,140.5	-84.1	919.1	923.0	2.96	2.81	0.94
8,853.0	90.70	93.60	8,140.1	-86.3	951.1	954.9	1.90	-0.31	-1.88
8,885.0	90.50	93.30	8,139.8	-88.2	983.0	986.9	1.13	-0.63	-0.94
8,917.0	90.10	93.80	8,139.6	-90.2	1,014.9	1,018.9	2.00	-1.25	1.56
8,948.0	89.80	93.40	8,139.6	-92.2	1,045.9	1,049.9	1.61	-0.97	-1.29
8,980.0	89.80	94.70	8,139.7	-94.4	1,077.8	1,081.9	4.06	0.00	4.06
9,012.0	89.90	96.30	8,139.8	-97.5	1,109.6	1,113.9	5.01	0.31	5.00

DDC
Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Four Peaks 35 Fed Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	Well @ 3336.0usft (Patterson UTI #46)
Site:	Sec35-19S-29E	MD Reference:	Well @ 3336.0usft (Patterson UTI #46)
Well:	Four Peaks 35 Fed Com #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,043.0	89.80	96.10	8,139.9	-100.9	1,140.5	1,144.9	0.72	-0.32	-0.65
9,075.0	89.60	95.60	8,140.1	-104.1	1,172.3	1,176.9	1.68	-0.63	-1.56
9,107.0	89.20	97.00	8,140.4	-107.6	1,204.1	1,208.9	4.55	-1.25	4.38
9,139.0	89.10	96.90	8,140.9	-111.5	1,235.9	1,240.8	0.44	-0.31	-0.31
9,170.0	89.20	97.00	8,141.3	-115.2	1,266.6	1,271.8	0.46	0.32	0.32
9,202.0	89.20	97.40	8,141.8	-119.3	1,298.4	1,303.8	1.25	0.00	1.25
9,234.0	88.30	97.80	8,142.5	-123.5	1,330.1	1,335.8	3.08	-2.81	1.25
9,266.0	88.30	97.10	8,143.4	-127.6	1,361.8	1,367.8	2.19	0.00	-2.19
9,297.0	88.40	96.20	8,144.3	-131.2	1,392.6	1,398.7	2.92	0.32	-2.90
9,329.0	88.90	95.70	8,145.1	-134.5	1,424.4	1,430.7	2.21	1.56	-1.56
9,361.0	89.10	95.70	8,145.6	-137.7	1,456.2	1,462.7	0.63	0.63	0.00
9,393.0	87.90	96.20	8,146.5	-141.0	1,488.0	1,494.7	4.06	-3.75	1.56
9,425.0	87.90	96.00	8,147.7	-144.4	1,519.8	1,526.7	0.62	0.00	-0.63
9,457.0	88.80	96.10	8,148.6	-147.8	1,551.7	1,558.7	2.83	2.81	0.31
9,489.0	88.80	95.60	8,149.2	-151.1	1,583.5	1,590.7	1.56	0.00	-1.56
9,521.0	87.70	95.60	8,150.2	-154.2	1,615.3	1,622.6	3.44	-3.44	0.00
9,553.0	88.00	95.30	8,151.4	-157.2	1,647.1	1,654.6	1.33	0.94	-0.94
9,584.0	89.60	94.80	8,152.1	-159.9	1,678.0	1,685.6	5.41	5.16	-1.61
9,616.0	89.30	94.30	8,152.4	-162.5	1,709.9	1,717.6	1.82	-0.94	-1.56
9,648.0	89.40	94.40	8,152.7	-164.9	1,741.8	1,749.6	0.44	0.31	0.31
9,680.0	90.00	94.90	8,152.9	-167.5	1,773.7	1,781.6	2.44	1.88	1.56
9,711.0	90.20	95.40	8,152.9	-170.3	1,804.6	1,812.6	1.74	0.65	1.61
9,743.0	90.50	95.50	8,152.7	-173.3	1,836.4	1,844.6	0.99	0.94	0.31
9,775.0	90.50	95.40	8,152.4	-176.4	1,868.3	1,876.6	0.31	0.00	-0.31
9,807.0	90.70	95.40	8,152.1	-179.4	1,900.2	1,908.6	0.63	0.63	0.00
9,838.0	89.10	95.40	8,152.1	-182.3	1,931.0	1,939.6	5.16	-5.16	0.00
9,870.0	88.20	94.90	8,152.9	-185.2	1,962.9	1,971.6	3.22	-2.81	-1.56
9,902.0	88.30	95.00	8,153.8	-187.9	1,994.7	2,003.6	0.44	0.31	0.31
9,934.0	89.10	95.30	8,154.6	-190.8	2,026.6	2,035.5	2.67	2.50	0.94
9,965.0	89.60	95.10	8,154.9	-193.6	2,057.5	2,066.5	1.74	1.61	-0.65
9,997.0	89.10	94.80	8,155.3	-196.4	2,089.4	2,098.5	1.82	-1.56	-0.94
10,029.0	88.60	94.70	8,155.9	-199.0	2,121.2	2,130.5	1.59	-1.56	-0.31
10,060.0	89.40	94.80	8,156.5	-201.6	2,152.1	2,161.5	2.60	2.58	0.32
10,092.0	90.10	94.90	8,156.6	-204.3	2,184.0	2,193.5	2.21	2.19	0.31
10,124.0	90.40	95.10	8,156.5	-207.1	2,215.9	2,225.5	1.13	0.94	0.63
10,156.0	90.00	95.20	8,156.3	-210.0	2,247.8	2,257.5	1.29	-1.25	0.31
10,187.0	89.60	95.40	8,156.5	-212.8	2,278.6	2,288.5	1.44	-1.29	0.65
10,219.0	89.30	95.40	8,156.8	-215.8	2,310.5	2,320.5	0.94	-0.94	0.00
10,251.0	89.50	95.50	8,157.1	-218.9	2,342.3	2,352.5	0.70	0.63	0.31
10,283.0	90.10	96.00	8,157.2	-222.1	2,374.2	2,384.5	2.44	1.88	1.56
10,315.0	89.60	96.30	8,157.3	-225.5	2,406.0	2,416.5	1.82	-1.56	0.94
10,346.0	89.00	96.40	8,157.7	-228.9	2,436.8	2,447.5	1.96	-1.94	0.32
10,378.0	87.90	96.50	8,158.5	-232.5	2,468.6	2,479.5	3.45	-3.44	0.31
10,410.0	86.20	96.90	8,160.2	-236.3	2,500.3	2,511.4	5.46	-5.31	1.25

DDC
Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Four Peaks 35 Fed Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	Well @ 3336.0usft (Patterson UTI #46)
Site:	Sec35-19S-29E	MD Reference:	Well @ 3336.0usft (Patterson UTI #46)
Well:	Four Peaks 35 Fed Com #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000 1 Single User Db

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	N/S (usft)	E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,442.0	85.60	97.00	8,162.5	-240.1	2,532.0	2,543.3	1.90	-1.88	0.31
10,473.0	87.20	96.40	8,164.4	-243.7	2,562.7	2,574.3	5.51	5.16	-1.94
10,505.0	88.00	95.60	8,165.8	-247.1	2,594.5	2,606.3	3.53	2.50	-2.50
10,536.0	87.10	95.00	8,167.1	-249.9	2,625.4	2,637.2	3.49	-2.90	-1.94
10,568.0	86.30	94.80	8,168.9	-252.7	2,657.2	2,669.2	2.58	-2.50	-0.63
10,600.0	87.50	94.30	8,170.7	-255.2	2,689.0	2,701.1	4.06	3.75	-1.56
10,632.0	88.60	93.90	8,171.7	-257.5	2,720.9	2,733.1	3.66	3.44	-1.25
10,664.0	89.10	94.30	8,172.4	-259.8	2,752.9	2,765.1	2.00	1.56	1.25
10,696.0	88.90	94.50	8,172.9	-262.2	2,784.8	2,797.1	0.88	-0.63	0.63
10,727.0	88.10	94.70	8,173.8	-264.7	2,815.6	2,828.0	2.66	-2.58	0.65
10,759.0	87.90	94.80	8,174.9	-267.4	2,847.5	2,860.0	0.70	-0.63	0.31
10,791.0	88.80	95.30	8,175.8	-270.2	2,879.4	2,892.0	3.22	2.81	1.56
10,822.0	88.50	95.60	8,176.5	-273.1	2,910.2	2,923.0	1.37	-0.97	0.97
10,853.0	87.90	95.60	8,177.5	-276.1	2,941.1	2,954.0	1.94	-1.94	0.00
10,884.0	86.40	95.50	8,179.0	-279.1	2,971.9	2,984.9	4.85	-4.84	-0.32
10,916.0	87.30	95.70	8,180.8	-282.2	3,003.7	3,016.9	2.88	2.81	0.63
10,947.0	89.60	97.50	8,181.6	-285.8	3,034.5	3,047.9	9.42	7.42	5.81
10,979.0	89.80	97.50	8,181.8	-290.0	3,066.2	3,079.9	0.63	0.63	0.00
11,011.0	89.30	97.50	8,182.1	-294.2	3,097.9	3,111.8	1.56	-1.56	0.00
11,043.0	88.80	96.90	8,182.6	-298.2	3,129.7	3,143.8	2.44	-1.56	-1.88
11,075.0	88.30	96.40	8,183.4	-301.9	3,161.4	3,175.8	2.21	-1.56	-1.56
11,107.0	87.70	96.40	8,184.5	-305.4	3,193.2	3,207.8	1.88	-1.88	0.00
11,138.0	89.00	97.10	8,185.4	-309.1	3,224.0	3,238.8	4.76	4.19	2.26
11,170.0	90.20	97.20	8,185.6	-313.1	3,255.7	3,270.7	3.76	3.75	0.31
11,202.0	89.90	97.60	8,185.6	-317.2	3,287.5	3,302.7	1.56	-0.94	1.25
11,234.0	89.60	97.50	8,185.7	-321.4	3,319.2	3,334.7	0.99	-0.94	-0.31
11,266.0	89.40	97.20	8,186.0	-325.5	3,350.9	3,366.7	1.13	-0.63	-0.94
11,298.0	89.20	97.00	8,186.4	-329.4	3,382.7	3,398.7	0.88	-0.63	-0.63
11,329.0	88.70	97.30	8,187.0	-333.3	3,413.4	3,429.7	1.88	-1.61	0.97
11,361.0	87.30	96.60	8,188.1	-337.2	3,445.2	3,461.6	4.89	-4.38	-2.19
11,392.0	86.80	96.60	8,189.7	-340.7	3,475.9	3,492.6	1.61	-1.61	0.00
11,424.0	86.20	96.30	8,191.6	-344.3	3,507.7	3,524.5	2.10	-1.88	-0.94
11,456.0	85.50	96.10	8,194.0	-347.8	3,539.4	3,556.4	2.27	-2.19	-0.63
11,488.0	86.30	96.90	8,196.2	-351.4	3,571.1	3,588.4	3.53	2.50	2.50
11,520.0	85.70	96.60	8,198.5	-355.1	3,602.8	3,620.3	2.10	-1.88	-0.94
11,551.0	86.70	96.10	8,200.5	-358.5	3,633.5	3,651.2	3.60	3.23	-1.61
11,583.0	88.70	96.10	8,201.8	-361.9	3,665.3	3,683.2	6.25	6.25	0.00
11,615.0	88.00	96.30	8,202.7	-365.4	3,697.1	3,715.2	2.27	-2.19	0.63
11,647.0	88.30	96.40	8,203.8	-368.9	3,728.9	3,747.1	0.99	0.94	0.31
11,679.0	89.70	96.60	8,204.3	-372.6	3,760.7	3,779.1	4.42	4.38	0.63
11,711.0	89.40	96.30	8,204.6	-376.2	3,792.5	3,811.1	1.33	-0.94	-0.94
11,743.0	88.70	96.50	8,205.1	-379.7	3,824.3	3,843.1	2.28	-2.19	0.63
11,775.0	88.70	96.70	8,205.8	-383.4	3,856.1	3,875.1	0.62	0.00	0.63

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Four Peaks 35 Fed Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	Well @ 3336 0usft (Patterson UTI #46)
Site:	Sec35-19S-29E	MD Reference:	Well @ 3336 0usft (Patterson UTI #46)
Well:	Four Peaks 35 Fed Com #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation/Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/S (usft)	+E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,807.0	88.20	96.60	8,206.7	-387.1	3,887.9	3,907.1	1.59	-1.56	-0.31
11,839.0	87.40	96.40	8,207.9	-390.7	3,919.6	3,939.1	2.58	-2.50	-0.63
11,870.0	88.90	96.60	8,208.9	-394.2	3,950.4	3,970.0	4.88	4.84	0.65
11,902.0	90.80	96.20	8,209.0	-397.8	3,982.2	4,002.0	6.07	5.94	-1.25
11,934.0	90.80	95.90	8,208.6	-401.2	4,014.0	4,034.0	0.94	0.00	-0.94
11,965.0	90.50	95.30	8,208.2	-404.2	4,044.9	4,065.0	2.16	-0.97	-1.94
11,997.0	90.00	95.40	8,208.1	-407.2	4,076.7	4,097.0	1.59	-1.56	0.31
12,029.0	90.10	94.80	8,208.1	-410.0	4,108.6	4,129.0	1.90	0.31	-1.88
12,060.0	88.70	94.00	8,208.4	-412.4	4,139.5	4,160.0	5.20	-4.52	-2.58
12,092.0	88.20	93.70	8,209.2	-414.5	4,171.4	4,192.0	1.82	-1.56	-0.94
12,123.0	87.90	93.40	8,210.3	-416.5	4,202.4	4,222.9	1.37	-0.97	-0.97
12,155.0	87.70	93.30	8,211.5	-418.3	4,234.3	4,254.9	0.70	-0.63	-0.31
12,187.0	87.60	93.10	8,212.8	-420.1	4,266.2	4,286.8	0.70	-0.31	-0.63
12,219.0	87.30	92.90	8,214.3	-421.8	4,298.1	4,318.8	1.13	-0.94	-0.63
12,251.0	86.70	91.90	8,215.9	-423.1	4,330.1	4,350.7	3.64	-1.88	-3.13
12,282.0	87.70	92.70	8,217.5	-424.4	4,361.0	4,381.6	4.13	3.23	2.58
12,314.0	87.60	92.40	8,218.8	-425.8	4,392.9	4,413.5	0.99	-0.31	-0.94
12,346.0	88.40	93.00	8,219.9	-427.3	4,424.9	4,445.5	3.12	2.50	1.88
12,378.0	88.60	92.70	8,220.7	-428.9	4,456.8	4,477.4	1.13	0.63	-0.94
12,410.0	88.00	92.40	8,221.7	-430.3	4,488.8	4,509.4	2.10	-1.88	-0.94
12,441.0	87.00	92.80	8,223.0	-431.7	4,519.7	4,540.3	3.47	-3.23	1.29
12,473.0	87.20	92.20	8,224.6	-433.1	4,551.7	4,572.2	1.97	0.63	-1.88
Projection to Bit									
12,518.0	87.20	92.20	8,226.8	-434.8	4,596.6	4,617.1	0.00	0.00	0.00

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates	Comment
7,418.0	7,415.9	26.3	-16.2
7,681.5	7,677.6	18.5	0.2
12,518.0	8,226.8	-434.8	4,596.6

Checked By: _____ Approved By: _____ Date: _____

Company Name: Mewbourne Oil Co
 Four Peaks 35 Fed Com #1H
 Eddy County, New Mexico
 Rig: Patterson UTI #46
 Created By: Shelly C. Peterkin
 Date: 11/3/2011

Four Peaks 35 Fed Com #1H
 Eddy County, New Mexico
 Q110140 & WT-11554

MEWBOURNE OIL COMPANY



PROJECT DETAILS: Eddy County, New Mexico

Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001
 System Datum: Mean Sea Level

WELL DETAILS Four Peaks 35 Fed Com #1H

+N/-S	+E/-W	Ground Level	3315 0	North	East	Latitude	Longitude
0 0	0 0	590381 51	586446 05	32° 37' 21 895 N	104° 3' 9 204 W		

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	North	East	Latitude	Longitude
PBHL Four Peaks 35 Fed Com #1H	8223 0	-453 0	4618 0	589928 50	591064 00	32° 37' 17 288 N	104° 2' 15 222 W

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
7013 5	2 56	283 61	7011 7	23 3	-0 2	-2 4	111 4	From GYRO: Hard Line crossing @ 7013 5' MD
7418 0	1 65	258 48	7415 9	26 3	-16 2	-18 7	127 8	Tie into Gyro
7681 5	14 97	94 00	7677 6	18 5	0 2	-1 6	152 0	Hard Line crossing @ 7681 5' MD
12918 0	87 20	92 20	8226 8	-434 8	4599 6	4617 1	4772 1	Projection to Bit



Azimuths to Grid North

Magnetic North: 7 65°

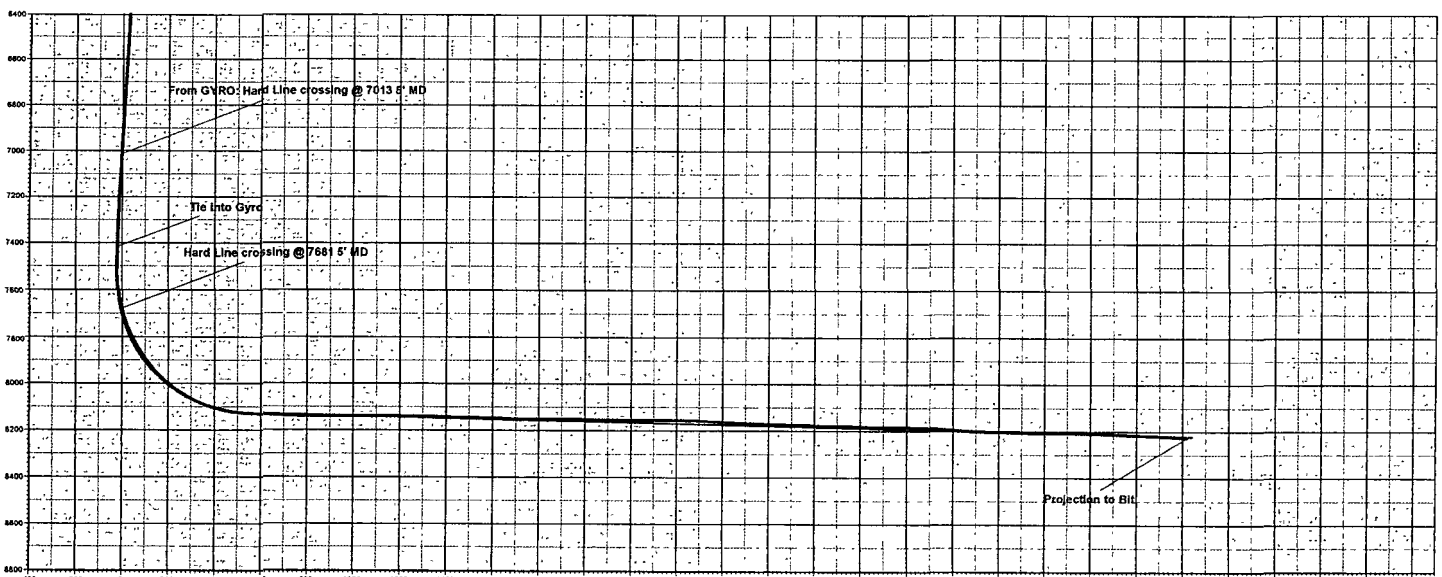
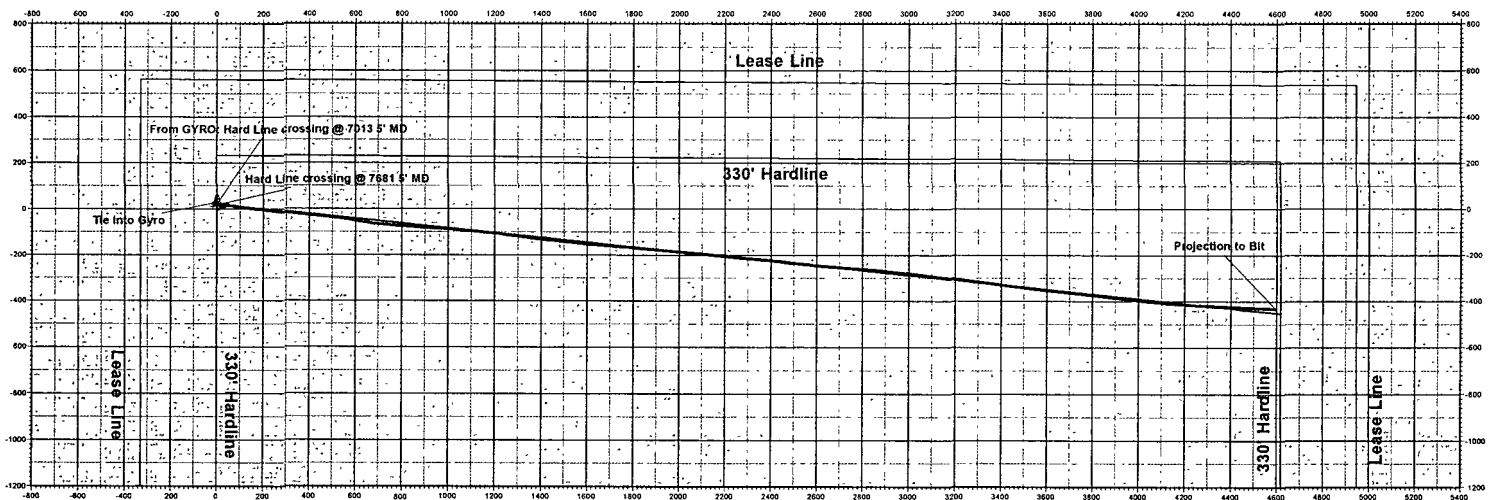
Magnetic Field

Strength: 48775.7snT

Dip Angle: 60.47°

Date: 9/26/2011

Model: IGRF2010



Vertical Section at 95 60° (200 usf/m)



Company: Mewbourne Oil
Lease/Well: Four Peaks 35 Fed/#1H

Rig Name: Patterson UTI #46
State/County: New Mexico/Eddy
Latitude: 32.62, Longitude: -104.05
GRID North is 0.15 Degrees East of True North
VS-Azi: 0.00 Degrees



Depth Reference : RKB= 20.5 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: four peaks 35 fed #1h.ut
Minimum Curvature Method
Report Date/Time: 10/11/2011 / 12:07

Vaughn Energy Services
Midland, TX
432-563-5444
Glen McCandless

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.37	136.71	100.00	-0.24	0.22	-0.24	0.32	136.71	0.37
200.00	0.38	109.77	200.00	-0.58	0.76	-0.58	0.95	127.72	0.17
300.00	0.46	90.52	299.99	-0.70	1.47	-0.70	1.62	115.49	0.16
400.00	0.46	84.53	399.99	-0.66	2.27	-0.66	2.37	106.29	0.05
500.00	0.70	77.05	499.99	-0.49	3.27	-0.49	3.31	98.50	0.25
600.00	1.02	67.41	599.97	-0.01	4.69	-0.01	4.69	90.10	0.35
700.00	1.03	69.32	699.96	0.65	6.36	0.65	6.39	84.14	0.03
800.00	1.33	72.06	799.94	1.33	8.30	1.33	8.41	80.92	0.31
900.00	1.66	74.13	899.90	2.08	10.80	2.08	11.00	79.09	0.34
1000.00	2.38	75.60	999.84	3.00	14.21	3.00	14.52	78.10	0.72
1100.00	2.77	73.36	1099.74	4.21	18.54	4.21	19.01	77.22	0.40
1200.00	2.65	64.06	1199.63	5.91	22.94	5.91	23.69	75.56	0.46
1300.00	2.34	67.49	1299.53	7.70	26.90	7.70	27.98	74.03	0.34
1400.00	1.86	62.48	1399.47	9.23	30.22	9.23	31.60	73.02	0.51
1500.00	1.40	64.29	1499.42	10.50	32.75	10.50	34.40	72.22	0.46
1600.00	1.30	62.99	1599.40	11.55	34.86	11.55	36.72	71.67	0.10
1700.00	1.06	58.39	1699.38	12.55	36.66	12.55	38.75	71.10	0.25
1800.00	1.23	48.18	1799.36	13.75	38.25	13.75	40.65	70.23	0.27
1900.00	1.34	39.06	1899.33	15.38	39.79	15.38	42.66	68.87	0.23
2000.00	1.13	32.71	1999.31	17.11	41.06	17.11	44.48	67.38	0.25
2100.00	1.03	31.98	2099.29	18.70	42.07	18.70	46.04	66.03	0.09
2200.00	0.70	55.78	2199.28	19.81	43.05	19.81	47.39	65.29	0.49
2300.00	0.57	56.83	2299.27	20.43	43.97	20.43	48.49	65.08	0.12
2400.00	0.69	68.90	2399.27	20.92	44.95	20.92	49.58	65.04	0.18
2500.00	0.53	96.87	2499.26	21.08	45.97	21.08	50.58	65.36	0.33
2600.00	0.46	98.76	2599.26	20.97	46.83	20.97	51.31	65.88	0.06
2700.00	0.40	81.07	2699.25	20.96	47.57	20.96	51.98	66.22	0.15
2800.00	0.32	153.64	2799.25	20.76	48.04	20.76	52.33	66.63	0.43
2900.00	0.64	183.53	2899.25	19.95	48.13	19.95	52.10	67.48	0.40
3000.00	0.85	187.55	2999.24	18.66	48.00	18.66	51.50	68.75	0.21
3100.00	0.87	196.91	3099.23	17.20	47.68	17.20	50.69	70.16	0.14
3200.00	0.79	190.41	3199.22	15.80	47.33	15.80	49.90	71.54	0.13
3300.00	0.63	198.01	3299.21	14.60	47.04	14.60	49.25	72.76	0.18
3400.00	0.21	199.72	3399.21	13.90	46.81	13.90	48.83	73.46	0.42

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
3500.00	0.04	184.33	3499.21	13.69	46.74	13.69	48.71	73.67	0.18
3600.00	0.14	289.99	3599.21	13.70	46.62	13.70	48.59	73.62	0.16
3700.00	0.11	212.90	3699.21	13.66	46.45	13.66	48.42	73.61	0.16
3800.00	0.20	267.15	3799.21	13.57	46.22	13.57	48.17	73.64	0.16
3900.00	0.34	301.01	3899.21	13.71	45.80	13.71	47.80	73.33	0.21
4000.00	0.54	288.10	3999.20	14.01	45.10	14.01	47.22	72.74	0.22
4100.00	0.43	293.74	4099.20	14.31	44.30	14.31	46.56	72.10	0.12
4200.00	0.33	287.57	4199.20	14.55	43.69	14.55	46.05	71.58	0.12
4300.00	0.26	303.42	4299.20	14.76	43.23	14.76	45.68	71.15	0.10
4400.00	0.09	272.75	4399.20	14.88	42.96	14.88	45.47	70.89	0.19
4500.00	0.03	188.18	4499.20	14.86	42.89	14.86	45.39	70.89	0.09
4600.00	0.01	182.68	4599.20	14.82	42.88	14.82	45.37	70.94	0.02
4700.00	0.09	186.02	4699.20	14.73	42.87	14.73	45.33	71.03	0.08
4800.00	0.13	234.01	4799.20	14.59	42.77	14.59	45.19	71.16	0.10
4900.00	0.08	246.58	4899.20	14.50	42.62	14.50	45.01	71.21	0.06
5000.00	0.20	270.44	4999.20	14.47	42.38	14.47	44.78	71.15	0.14
5100.00	0.15	274.93	5099.19	14.48	42.07	14.48	44.49	71.00	0.05
5200.00	0.23	281.24	5199.19	14.53	41.74	14.53	44.20	70.80	0.08
5300.00	0.37	272.81	5299.19	14.59	41.23	14.59	43.73	70.51	0.15
5400.00	0.45	285.20	5399.19	14.71	40.53	14.71	43.11	70.05	0.12
5500.00	0.36	282.46	5499.19	14.88	39.83	14.88	42.52	69.52	0.09
5600.00	0.38	307.40	5599.19	15.15	39.26	15.15	42.08	68.90	0.16
5700.00	0.13	343.92	5699.18	15.46	38.97	15.46	41.92	68.36	0.28
5800.00	0.24	329.30	5799.18	15.75	38.83	15.75	41.90	67.92	0.12
5900.00	0.27	337.68	5899.18	16.15	38.63	16.15	41.87	67.32	0.05
6000.00	0.39	307.67	5999.18	16.57	38.28	16.57	41.71	66.59	0.21
6100.00	0.53	301.58	6099.18	17.02	37.62	17.02	41.29	65.66	0.15
6200.00	0.77	295.05	6199.17	17.54	36.61	17.54	40.60	64.40	0.25
6300.00	1.45	272.82	6299.15	17.89	34.74	17.89	39.08	62.76	0.79
6400.00	2.04	275.09	6399.11	18.11	31.71	18.11	36.52	60.27	0.59
6500.00	3.27	275.71	6499.00	18.55	27.10	18.55	32.84	55.61	1.24
6600.00	3.19	276.85	6598.84	19.17	21.50	19.17	28.80	48.28	0.10
6700.00	3.25	279.03	6698.68	19.95	15.93	19.95	25.53	38.62	0.14
6800.00	3.27	280.25	6798.52	20.90	10.33	20.90	23.31	26.30	0.07
6900.00	2.90	283.97	6898.37	22.01	5.07	22.01	22.59	12.98	0.42
7000.00	2.55	283.55	6998.26	23.14	0.46	23.14	23.15	1.13	0.35
7100.00	2.64	283.98	7098.16	24.22	-3.94	24.22	24.54	350.76	0.09
7200.00	2.44	282.08	7198.06	25.22	-8.26	25.22	26.54	341.88	0.22
7300.00	2.29	282.40	7297.97	26.10	-12.29	26.10	28.85	334.79	0.14
7400.00	1.64	262.28	7397.92	26.34	-15.66	26.34	30.64	329.27	0.94
7418.00	1.65	258.48	7415.91	26.25	-16.16	26.25	30.83	328.38	0.61
HORIZONTAL DISPLACEMENT IS 30.83 FEET AT 328.38 DEGREES									