

30-015-39057

Mewbourne Oil Co

Eddy County, New Mexico

Sec 24-T19S-R25E

Wyatt Draw 24 JB #1H

Wellbore #1

Survey: MWD

DDC Survey Report

17 October, 2011



DDC
Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Wyatt Draw 24 JB #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3413.0usft (Patterson UTI #101)
Site:	Sec 24-T19S-R25E	MD Reference:	WELL @ 3413.0usft (Patterson UTI #101)
Well:	Wyatt Draw 24 JB #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	Sec 24-T19S-R25E				
Site Position:		Northing:	597,128.75 usft	Latitude:	32° 38' 29.628 N
From:	Map	Easting:	466,881.19 usft	Longitude:	104° 26' 27.333 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.06 °

Well	Wyatt Draw 24 JB #1H					
Well Position	+N/-S	0.0 usft	Northing:	597,168.90 usft	Latitude:	32° 38' 30.038 N
	+E/-W	0.0 usft	Easting:	468,213.50 usft	Longitude:	104° 26' 11.752 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,394.0 usft

Wellbore	Wellbore #1				
-----------------	-------------	--	--	--	--

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/16/2011	7.98	60.42	48,745

Design	Wellbore #1				
---------------	-------------	--	--	--	--

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	0.77

Survey Program		Date: 10/17/2011			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	2,090.0	Gyro (Wellbore #1)	Good_gyro	Good Gyro	
2,148.0	6,387.0	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									
2,090.0	0.50	309.88	2,089.9	5.6	18.4	5.8	0.00	0.00	0.00
2,148.0	0.50	351.20	2,147.9	6.0	18.2	6.2	0.61	0.00	71.24
2,180.0	2.50	354.80	2,179.8	6.8	18.1	7.1	6.25	6.25	11.25
2,211.0	5.90	356.00	2,210.8	9.1	17.9	9.3	10.97	10.97	3.87
2,242.0	9.00	359.20	2,241.5	13.1	17.8	13.3	10.09	10.00	10.32
2,274.0	12.00	1.10	2,273.0	18.9	17.8	19.2	9.44	9.38	5.94
2,305.0	14.40	1.20	2,303.1	26.0	18.0	26.3	7.74	7.74	0.32
2,337.0	17.00	359.90	2,333.9	34.7	18.0	34.9	8.20	8.13	-4.06
2,369.0	19.80	358.80	2,364.3	44.8	17.9	45.0	8.82	8.75	-3.44

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Wyatt Draw 24 JB #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3413.0usft (Patterson UTI #101)
Site:	Sec 24-T19S-R25E	MD Reference:	WELL @ 3413.0usft (Patterson UTI #101)
Well:	Wyatt Draw 24 JB #1H	North Reference:	Grid
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)
2,400.0	22.70	358.70	2,393.2	56.0	17.7	56.2	9.36	9.35	-0.32
2,431.0	25.50	359.40	2,421.5	68.7	17.5	68.9	9.08	9.03	2.26
2,462.0	28.40	359.50	2,449.1	82.7	17.3	82.9	9.36	9.35	0.32
2,493.0	30.90	359.80	2,476.1	98.0	17.2	98.3	8.08	8.06	0.97
2,525.0	33.70	359.50	2,503.1	115.1	17.1	115.4	8.76	8.75	-0.94
2,556.0	36.50	359.40	2,528.5	133.0	17.0	133.2	9.03	9.03	-0.32
2,587.0	39.50	358.80	2,552.9	152.0	16.7	152.3	9.75	9.68	-1.94
2,619.0	42.50	359.00	2,577.0	173.0	16.3	173.2	9.38	9.38	0.63
2,651.0	45.10	358.10	2,600.1	195.2	15.7	195.4	8.35	8.13	-2.81
2,682.0	47.70	357.80	2,621.5	217.6	14.9	217.8	8.42	8.39	-0.97
2,713.0	50.70	357.60	2,641.8	241.0	13.9	241.2	9.69	9.68	-0.65
Lease Line crossing @ 2733.5' MD									
2,733.5	52.75	358.40	2,654.5	257.1	13.4	257.3	10.46	9.99	3.93
2,744.0	53.80	358.80	2,660.7	265.5	13.2	265.7	10.46	10.01	3.76
2,776.0	55.80	357.30	2,679.2	291.7	12.3	291.8	7.33	6.25	-4.69
2,807.0	58.00	358.00	2,696.1	317.6	11.2	317.7	7.34	7.10	2.26
2,838.0	61.60	358.90	2,711.7	344.4	10.5	344.5	11.88	11.61	2.90
2,869.0	65.50	359.60	2,725.5	372.1	10.1	372.2	12.74	12.58	2.26
2,901.0	69.40	359.70	2,737.8	401.7	10.0	401.8	12.19	12.19	0.31
2,933.0	73.30	360.00	2,748.0	432.0	9.9	432.1	12.22	12.19	0.94
2,964.0	76.90	0.50	2,756.0	462.0	10.0	462.1	11.72	11.61	1.61
2,995.0	80.80	0.90	2,762.0	492.4	10.4	492.5	12.64	12.58	1.29
3,026.0	84.50	1.60	2,765.9	523.1	11.1	523.2	12.14	11.94	2.26
3,048.0	86.80	2.20	2,767.6	545.0	11.8	545.1	10.80	10.45	2.73
Hard Line crossing @ 3090.5' MD									
3,090.5	88.63	2.35	2,769.3	587.5	13.5	587.6	4.32	4.30	0.35
3,134.0	90.50	2.50	2,769.6	630.9	15.3	631.1	4.32	4.30	0.35
3,166.0	88.90	1.60	2,769.8	662.9	16.5	663.0	5.74	-5.00	-2.81
3,198.0	88.70	2.10	2,770.5	694.9	17.5	695.0	1.68	-0.63	1.56
3,263.0	89.30	359.30	2,771.6	759.8	18.3	760.0	4.40	0.92	-4.31
3,327.0	89.20	360.00	2,772.4	823.8	17.9	824.0	1.10	-0.16	1.09
3,392.0	90.60	0.50	2,772.6	888.8	18.2	889.0	2.29	2.15	0.77
3,456.0	90.90	359.50	2,771.7	952.8	18.2	953.0	1.63	0.47	-1.56
3,520.0	91.70	359.30	2,770.3	1,016.8	17.5	1,016.9	1.29	1.25	-0.31
3,584.0	91.80	0.50	2,768.3	1,080.8	17.4	1,080.9	1.88	0.16	1.88
3,648.0	92.00	359.10	2,766.2	1,144.7	17.2	1,144.9	2.21	0.31	-2.19
3,712.0	92.10	0.70	2,763.9	1,208.7	17.1	1,208.8	2.50	0.16	2.50
3,776.0	91.20	359.80	2,762.1	1,272.7	17.3	1,272.8	1.99	-1.41	-1.41
3,840.0	91.20	357.80	2,760.7	1,336.6	16.0	1,336.7	3.12	0.00	-3.13
3,904.0	90.70	357.30	2,759.7	1,400.6	13.3	1,400.6	1.10	-0.78	-0.78
3,969.0	90.50	358.10	2,759.0	1,465.5	10.7	1,465.5	1.27	-0.31	1.23
4,033.0	90.90	358.40	2,758.2	1,529.5	8.7	1,529.5	0.78	0.63	0.47
4,097.0	90.20	359.00	2,757.6	1,593.5	7.2	1,593.4	1.44	-1.09	0.94

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Wyatt Draw 24 JB #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3413.0usft (Patterson UTI #101)
Site:	Sec 24-T19S-R25E	MD Reference:	WELL @ 3413.0usft (Patterson UTI #101)
Well:	Wyatt Draw 24 JB #1H	North Reference:	Grid
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)
4,162.0	90.10	358.40	2,757.4	1,658.4	5.8	1,658.4	0.94	-0.15	-0.92
4,226.0	90.40	359.40	2,757.1	1,722.4	4.5	1,722.3	1.63	0.47	1.56
4,291.0	90.50	359.30	2,756.6	1,787.4	3.8	1,787.3	0.22	0.15	-0.15
4,353.0	89.60	359.70	2,756.6	1,849.4	3.3	1,849.3	1.59	-1.45	0.65
4,413.0	89.80	360.00	2,756.9	1,909.4	3.1	1,909.3	0.60	0.33	0.50
4,473.0	89.60	1.10	2,757.2	1,969.4	3.7	1,969.3	1.86	-0.33	1.83
4,534.0	89.60	1.10	2,757.6	2,030.4	4.9	2,030.3	0.00	0.00	0.00
4,594.0	89.60	1.50	2,758.0	2,090.4	6.2	2,090.3	0.67	0.00	0.67
4,656.0	89.80	0.10	2,758.4	2,152.4	7.1	2,152.3	2.28	0.32	-2.26
4,718.0	90.00	2.40	2,758.5	2,214.4	8.4	2,214.3	3.72	0.32	3.71
4,781.0	90.90	2.30	2,758.0	2,277.3	11.0	2,277.2	1.44	1.43	-0.16
4,839.0	90.90	1.60	2,757.1	2,335.3	13.0	2,335.2	1.21	0.00	-1.21
4,900.0	90.80	1.60	2,756.2	2,396.2	14.7	2,396.2	0.16	-0.16	0.00
4,959.0	90.90	1.50	2,755.3	2,455.2	16.3	2,455.2	0.24	0.17	-0.17
5,023.0	90.50	2.30	2,754.5	2,519.2	18.4	2,519.2	1.40	-0.63	1.25
5,087.0	91.10	2.70	2,753.6	2,583.1	21.2	2,583.1	1.13	0.94	0.63
5,151.0	91.50	0.80	2,752.2	2,647.0	23.2	2,647.1	3.03	0.63	-2.97
5,215.0	90.30	1.20	2,751.1	2,711.0	24.3	2,711.1	1.98	-1.88	0.63
5,279.0	89.90	1.00	2,751.0	2,775.0	25.5	2,775.1	0.70	-0.63	-0.31
5,344.0	90.40	1.70	2,750.9	2,840.0	27.0	2,840.1	1.32	0.77	1.08
5,407.0	91.30	1.80	2,749.9	2,903.0	29.0	2,903.1	1.44	1.43	0.16
5,471.0	89.80	1.20	2,749.3	2,966.9	30.6	2,967.1	2.52	-2.34	-0.94
5,536.0	89.80	1.00	2,749.5	3,031.9	31.9	3,032.1	0.31	0.00	-0.31
5,600.0	90.10	0.90	2,749.6	3,095.9	32.9	3,096.1	0.49	0.47	-0.16
5,664.0	90.40	0.10	2,749.3	3,159.9	33.5	3,160.1	1.33	0.47	-1.25
5,729.0	90.60	359.90	2,748.8	3,224.9	33.5	3,225.1	0.44	0.31	-0.31
5,793.0	89.40	359.80	2,748.8	3,288.9	33.3	3,289.0	1.88	-1.88	-0.16
5,856.0	89.30	1.60	2,749.5	3,351.9	34.1	3,352.0	2.86	-0.16	2.86
5,921.0	89.50	2.00	2,750.1	3,416.8	36.1	3,417.0	0.69	0.31	0.62
5,985.0	90.40	0.60	2,750.2	3,480.8	37.6	3,481.0	2.60	1.41	-2.19
6,049.0	91.10	1.10	2,749.4	3,544.8	38.5	3,545.0	1.34	1.09	0.78
6,112.0	91.90	2.20	2,747.7	3,607.8	40.4	3,608.0	2.16	1.27	1.75
6,176.0	91.80	1.80	2,745.7	3,671.7	42.6	3,671.9	0.64	-0.16	-0.63
6,240.0	91.80	3.40	2,743.6	3,735.6	45.5	3,735.9	2.50	0.00	2.50
6,304.0	91.90	3.50	2,741.6	3,799.4	49.3	3,799.8	0.22	0.16	0.16
6,337.0	90.60	2.40	2,740.9	3,832.4	51.0	3,832.7	5.16	-3.94	-3.33
Projection to Bit									
6,387.0	90.00	2.40	2,740.6	3,882.3	53.1	3,882.7	1.20	-1.20	0.00

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Wyatt Draw 24 JB #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3413 0usft (Patterson UTI #101)
Site:	Sec 24-T19S-R25E	MD Reference:	WELL @ 3413.0usft (Patterson UTI #101)
Well:	Wyatt Draw 24 JB #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

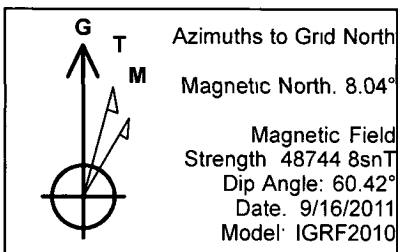
Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,090.0	2,089.9	5.6	18.4	Tie into Gyro
2,733.5	2,654.5	257.1	13.4	Lease Line crossing @ 2733.5' MD
3,090.5	2,769.3	587.5	13.5	Hard Line crossing @ 3090.5' MD
6,387.0	2,740.6	3,882.3	53.1	Projection to Bit

Checked By: _____ Approved By: _____ Date: _____

Company Name: Mewbourne Oil Co
Wyatt Draw 24 JB #1H
Eddy County, New Mexico
Rig: Patterson UTI #101
Created By: Shelly Gale Peterkin
Date: 10/17/2011

Wyatt Draw 24 JB #1H
Eddy County, New Mexico
Q110426 & WT-11531

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 Wyatt Draw 24 JB #1H

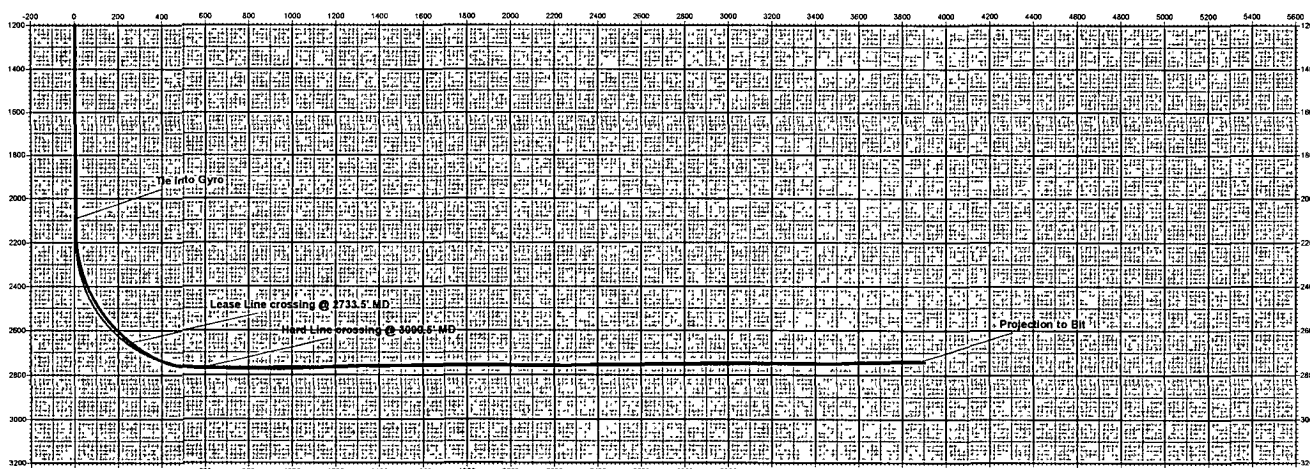
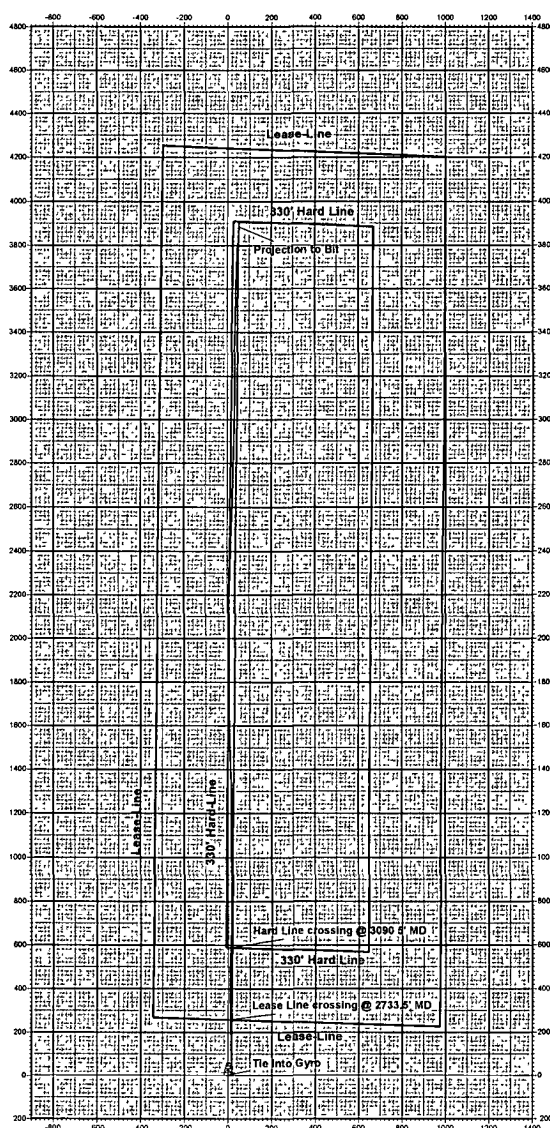
Ground Level 3394.0					
+N-S	+E-W	Northing	Easting	Latitude	Longitude
0.0	0.0	597168.90	468213.50	32° 38' 30.038 N	104° 26' 11.752 W

DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
PBHL Wyatt Draw 24 JB #1H	2744.0	3908.0	52.7	601076.90	468266.20	32° 39' 8.711 N	104° 26' 11.180 W

ANNOTATIONS

MD	Inc	Azi	TVD	+N-S	+E-W	Vsect	Departure	Annotation
2080.0	0.50	308.88	2089.9	5.6	18.4	5.9	22.2	Tie into Gyro
2733.5	52.75	358.40	2654.5	257.1	13.4	257.3	274.0	Lease Line crossing @ 2733.5' MD
3090.5	80.83	2.35	2759.3	887.5	13.5	587.6	604.4	Hard Line crossing @ 3090.5' MD
6387.0	90.00	2.40	2740.6	3882.9	53.1	3882.7	5900.4	Projection to Bit



Vertical Section at 0.77" (200 usf/in)