

Mewbourne Oil Co

Eddy County, New Mexico

Sec 24-T19S-R25E

Wyatt Draw 24 KC #1H

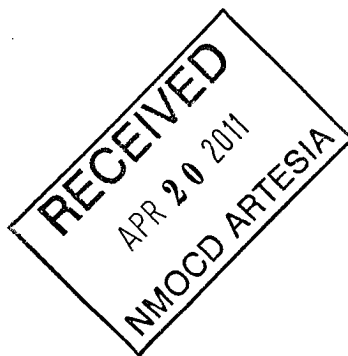
Wellbore #1

30-015-38307

Survey: MWD Survey

DDC Survey Report

17 March, 2011



DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Wyatt Draw 24 KC #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3417.0usft (Patterson #101)
Site:	Sec 24-T19S-R25E	MD Reference:	WELL @ 3417.0usft (Patterson #101)
Well:	Wyatt Draw 24 KC #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
From:	Map	Easting:	466,881.19 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 38' 29.628 N
		Longitude:	104° 26' 27.333 W
		Grid Convergence:	-0.06 °

Well	Wyatt Draw 24 KC #1H		
Well Position	+N/-S	0.0 usft	Northing: 597,128.75 usft
	+E/-W	0.0 usft	Easting: 466,881.19 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 38' 29.628 N
		Longitude:	104° 26' 27.333 W
		Ground Level:	3,398.0 usft

Wellbore	Wellbore #1		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/7/2010	8.08	60.43	48,821

Design	Wellbore #1		
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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	1.06

Survey Program		Date	3/17/2011		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	2,004.0	Gyro (Wellbore #1)	Good_gyro	Good Gyro	
2,087.0	6,460.0	MWD Survey (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-In to Gyro									
2,004.0	0.59	296.87	2,003.9	-3.6	-19.2	-3.9	0.00	0.00	0.00
2,087.0	0.70	295.10	2,086.9	-3.2	-20.0	-3.5	0.13	0.13	-2.13
2,118.0	0.70	319.30	2,117.9	-2.9	-20.3	-3.3	0.95	0.00	78.06
2,150.0	0.80	317.10	2,149.9	-2.6	-20.6	-3.0	0.33	0.31	-6.88
2,182.0	1.90	3.60	2,181.9	-1.9	-20.7	-2.3	4.59	3.44	145.31
2,213.0	5.00	9.50	2,212.8	-0.1	-20.5	-0.5	10.05	10.00	19.03
2,244.0	8.00	9.30	2,243.6	3.4	-19.9	3.0	9.68	9.68	-0.65
2,275.0	11.50	8.30	2,274.2	8.6	-19.1	8.2	11.30	11.29	-3.23
2,307.0	15.60	6.10	2,305.3	16.0	-18.2	15.7	12.91	12.81	-6.88

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Well:	Wyatt Draw 24 KC #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)
2,338.0	19.30	5.40	2,334.8	25.3	-17.3	24.9	11.95	11.94	-2.26
2,369.0	22.30	6.00	2,363.8	36.2	-16.2	35.9	9.70	9.68	1.94
2,401.0	25.60	6.30	2,393.0	49.1	-14.8	48.8	10.32	10.31	0.94
2,433.0	28.70	6.30	2,421.5	63.6	-13.2	63.4	9.69	9.69	0.00
2,464.0	31.80	7.00	2,448.3	79.1	-11.4	78.9	10.06	10.00	2.26
2,495.0	35.10	7.60	2,474.1	96.1	-9.2	95.9	10.70	10.65	1.94
2,527.0	38.10	7.70	2,499.8	115.0	-6.6	114.9	9.38	9.38	0.31
2,558.0	40.60	8.30	2,523.8	134.5	-3.9	134.4	8.16	8.06	1.94
2,590.0	43.20	8.80	2,547.6	155.6	-0.7	155.6	8.19	8.13	1.56
2,621.0	45.20	9.10	2,569.8	176.9	2.6	177.0	6.49	6.45	0.97
2,653.0	47.10	8.80	2,592.0	199.7	6.2	199.8	5.98	5.94	-0.94
2,683.0	48.80	8.80	2,612.1	221.7	9.6	221.9	5.67	5.67	0.00
2,715.0	51.30	7.40	2,632.7	246.0	13.1	246.2	8.50	7.81	-4.38
2,746.0	54.50	5.70	2,651.4	270.6	15.9	270.8	11.21	10.32	-5.48
2,777.0	57.50	4.80	2,668.7	296.2	18.2	296.5	9.97	9.68	-2.90
2,808.0	60.70	3.70	2,684.6	322.7	20.2	323.0	10.76	10.32	-3.55
Crossed Lease-Line @ 2828' MD									
2,828.0	63.02	3.50	2,694.0	340.3	21.3	340.6	11.64	11.61	-0.98
2,839.0	64.30	3.40	2,698.9	350.1	21.9	350.5	11.64	11.61	-0.95
2,871.0	67.90	3.10	2,711.9	379.3	23.6	379.7	11.28	11.25	-0.94
2,901.0	71.20	3.10	2,722.4	407.4	25.1	407.8	11.00	11.00	0.00
2,933.0	74.60	2.80	2,731.8	438.0	26.7	438.4	10.66	10.63	-0.94
2,964.0	78.40	2.10	2,739.0	468.1	28.0	468.5	12.45	12.26	-2.26
2,995.0	81.60	2.00	2,744.4	498.6	29.0	499.0	10.33	10.32	-0.32
3,026.0	82.60	2.00	2,748.6	529.3	30.1	529.7	3.23	3.23	0.00
3,058.0	85.70	2.00	2,751.9	561.1	31.2	561.5	9.69	9.69	0.00
3,089.0	88.90	1.60	2,753.4	592.0	32.2	592.5	10.40	10.32	-1.29
3,120.0	90.30	0.70	2,753.6	623.0	32.8	623.5	5.37	4.52	-2.90
3,140.0	90.40	1.20	2,753.5	643.0	33.2	643.5	2.55	0.50	2.50
Crossed Hard-Line @ 3166' MD									
3,166.0	90.75	1.11	2,753.2	669.0	33.7	669.5	1.37	1.33	-0.33
3,200.0	91.20	1.00	2,752.6	703.0	34.3	703.5	1.37	1.33	-0.33
3,232.0	90.90	1.30	2,752.0	735.0	34.9	735.5	1.33	-0.94	0.94
3,264.0	90.90	1.10	2,751.5	767.0	35.6	767.5	0.62	0.00	-0.63
3,328.0	91.10	1.60	2,750.4	830.9	37.1	831.5	0.84	0.31	0.78
3,391.0	90.40	1.50	2,749.6	893.9	38.8	894.5	1.12	-1.11	-0.16
3,455.0	90.00	0.70	2,749.4	957.9	40.1	958.5	1.40	-0.63	-1.25
3,518.0	90.00	0.80	2,749.4	1,020.9	40.9	1,021.5	0.16	0.00	0.16
3,582.0	90.10	1.60	2,749.3	1,084.9	42.2	1,085.5	1.26	0.16	1.25
3,645.0	89.90	1.60	2,749.3	1,147.8	44.0	1,148.5	0.32	-0.32	0.00
3,709.0	89.40	0.10	2,749.7	1,211.8	44.9	1,212.5	2.47	-0.78	-2.34
3,772.0	88.90	359.10	2,750.6	1,274.8	44.5	1,275.4	1.77	-0.79	-1.59
3,835.0	89.90	0.40	2,751.3	1,337.8	44.2	1,338.4	2.60	1.59	2.06

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3,899.0	89.90	359.40	2,751.4	1,401.8	44.1	1,402.4	1.56	0.00	-1.56
3,962.0	90.40	0.40	2,751.2	1,464.8	44.0	1,465.4	1.77	0.79	1.59
4,026.0	90.50	0.00	2,750.7	1,528.8	44.2	1,529.4	0.64	0.16	-0.63
4,089.0	90.40	0.90	2,750.2	1,591.8	44.7	1,592.4	1.44	-0.16	1.43
4,153.0	90.30	1.30	2,749.9	1,655.8	45.9	1,656.4	0.64	-0.16	0.63
4,216.0	90.20	0.70	2,749.6	1,718.8	47.0	1,719.4	0.97	-0.16	-0.95
4,280.0	90.10	1.20	2,749.4	1,782.8	48.1	1,783.4	0.80	-0.16	0.78
4,343.0	91.10	0.90	2,748.8	1,845.8	49.3	1,846.4	1.66	1.59	-0.48
4,403.0	91.40	1.10	2,747.4	1,905.7	50.3	1,906.3	0.60	0.50	0.33
4,465.0	91.20	1.90	2,746.0	1,967.7	51.9	1,968.3	1.33	-0.32	1.29
4,525.0	91.00	1.00	2,744.9	2,027.7	53.4	2,028.3	1.54	-0.33	-1.50
4,587.0	90.90	0.80	2,743.9	2,089.7	54.4	2,090.3	0.36	-0.16	-0.32
4,647.0	90.90	1.10	2,742.9	2,149.6	55.4	2,150.3	0.50	0.00	0.50
4,708.0	90.50	0.80	2,742.2	2,210.6	56.4	2,211.3	0.82	-0.66	-0.49
4,769.0	90.20	359.80	2,741.8	2,271.6	56.7	2,272.3	1.71	-0.49	-1.64
4,831.0	91.10	0.60	2,741.1	2,333.6	57.0	2,334.3	1.94	1.45	1.29
4,891.0	91.20	1.10	2,739.9	2,393.6	57.8	2,394.3	0.85	0.17	0.83
4,955.0	90.70	0.50	2,738.8	2,457.6	58.7	2,458.2	1.22	-0.78	-0.94
5,018.0	90.40	1.60	2,738.2	2,520.6	59.9	2,521.2	1.81	-0.48	1.75
5,081.0	90.20	1.20	2,737.9	2,583.5	61.4	2,584.2	0.71	-0.32	-0.63
5,145.0	90.10	0.50	2,737.7	2,647.5	62.4	2,648.2	1.10	-0.16	-1.09
5,209.0	89.40	0.10	2,738.0	2,711.5	62.7	2,712.2	1.26	-1.09	-0.63
5,273.0	90.60	0.60	2,738.0	2,775.5	63.1	2,776.2	2.03	1.88	0.78
5,337.0	90.50	0.60	2,737.4	2,839.5	63.8	2,840.2	0.16	-0.16	0.00
5,401.0	90.20	1.10	2,737.0	2,903.5	64.7	2,904.2	0.91	-0.47	0.78
5,464.0	90.70	0.90	2,736.5	2,966.5	65.8	2,967.2	0.85	0.79	-0.32
5,528.0	90.30	0.60	2,735.9	3,030.5	66.7	3,031.2	0.78	-0.63	-0.47
5,637.0	91.50	0.90	2,734.2	3,139.5	68.1	3,140.2	1.13	1.10	0.28
5,655.0	90.90	0.50	2,733.9	3,157.5	68.3	3,158.2	4.01	-3.33	-2.22
5,719.0	90.40	0.40	2,733.1	3,221.5	68.8	3,222.2	0.80	-0.78	-0.16
5,783.0	91.30	0.70	2,732.2	3,285.5	69.4	3,286.2	1.48	1.41	0.47
5,846.0	91.20	1.50	2,730.8	3,348.4	70.6	3,349.2	1.28	-0.16	1.27
5,910.0	91.40	1.20	2,729.4	3,412.4	72.1	3,413.1	0.56	0.31	-0.47
5,973.0	91.30	1.80	2,727.9	3,475.4	73.8	3,476.1	0.97	-0.16	0.95
6,036.0	90.50	359.90	2,726.9	3,538.3	74.7	3,539.1	3.27	-1.27	-3.02
6,100.0	90.20	0.50	2,726.5	3,602.3	75.0	3,603.1	1.05	-0.47	0.94
6,162.0	89.90	0.60	2,726.4	3,664.3	75.5	3,665.1	0.51	-0.48	0.16
6,225.0	89.00	0.10	2,727.0	3,727.3	75.9	3,728.1	1.63	-1.43	-0.79
6,288.0	90.90	0.60	2,727.1	3,790.3	76.3	3,791.1	3.12	3.02	0.79
6,351.0	91.80	0.50	2,725.6	3,853.3	76.9	3,854.1	1.44	1.43	-0.16
6,415.0	91.80	1.30	2,723.6	3,917.3	77.9	3,918.0	1.25	0.00	1.25
TD									
6,460.0	91.80	1.30	2,722.2	3,962.2	78.9	3,963.0	0.00	0.00	0.00

DDC
Survey Report



Company: Mewbourne Oil Co	Local Co-ordinate Reference: Well Wyatt Draw 24 KC #1H
Project: Eddy County, New Mexico	TVD Reference: WELL @ 3417.0usft (Patterson #101)
Site: Sec 24-T19S-R25E	MD Reference: WELL @ 3417.0usft (Patterson #101)
Well: Wyatt Draw 24 KC #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)	
2,004.0	2,003.9	-3.6	-19.2	Tie-In to Gyro
2,828.0	2,694.0	340.3	21.3	Crossed Lease-Line @ 2828' MD
3,166.0	2,753.2	669.0	33.7	Crossed Hard-Line @ 3166' MD
6,460.0	2,722.2	3,962.2	78.9	TD

Checked By: _____	Approved By: _____	Date: _____
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