

Mewbourne Oil Co

Eddy County, New Mexico

Sec 24-T19S-R25E

Wyatt Draw 24-25 NF Fed Com #1H

Wellbore #1

Survey: MWD

DDC Survey Report

21 June, 2011

30-015-38637

19.25.24. K

1650 FSL

2290 FWL

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DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Wyatt Draw 24-25 NF Fed Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3416.0usft (Patterson #101)
Site:	Sec 24-T19S-R25E	MD Reference:	WELL @ 3416.0usft (Patterson #101)
Well:	Wyatt Draw 24-25 NF 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		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 24-25 NF Fed Com #1H					
Well Position	+N/-S	0.0 usft	Northing:	597,769.50 usft	Latitude:	32° 38' 35.975 N
	+E/-W	0.0 usft	Easting:	467,532.79 usft	Longitude:	104° 26' 19.720 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,397.0 usft	

Wellbore:	Wellbore #1
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/25/2011	8.02	60.42	48,777

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	180.46

Survey Program	Date	From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
	6/21/2011	100.0	2,083.0	Gyro Survey (Wellbore #1)	Good_gyro	Good Gyro
		2,120.0	6,464.0	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	2,083.0	1.08	301.13	2,082.7	10.1	-29.3	-9.9	0.00	0.00	0.00
	2,120.0	1.40	287.60	2,119.7	10.4	-30.0	-10.2	1.17	0.86	-36.57
	2,152.0	1.20	290.00	2,151.7	10.7	-30.7	-10.4	0.65	-0.63	7.50
	2,184.0	1.00	251.30	2,183.7	10.7	-31.3	-10.4	2.35	-0.63	-120.94
	2,215.0	2.50	199.90	2,214.7	10.0	-31.8	-9.7	6.56	4.84	-165.81
	2,247.0	4.90	189.30	2,246.6	8.0	-32.2	-7.7	7.77	7.50	-33.13
	2,278.0	8.00	184.50	2,277.4	4.5	-32.6	-4.2	10.14	10.00	-15.48
	2,310.0	10.90	182.90	2,309.0	-0.7	-32.9	1.0	9.10	9.06	-5.00
	2,341.0	14.20	181.90	2,339.2	-7.5	-33.2	7.7	10.67	10.65	-3.23

DDC Survey Report



Company: Mewbourne Oil Co.
Project: Eddy County, New Mexico
Site: Sec 24-T19S-R25E
Well: Wyatt Draw 24-25 NF Fed Com #1H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Wyatt Draw 24-25 NF Fed Com #1H
TVD Reference: WELL @ 3416.0usft (Patterson #101)
MD Reference: WELL @ 3416.0usft (Patterson #101)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)
2,372.0	17.70	180.50	2,369.0	-16.0	-33.4	16.3	11.36	11.29	-4.52
2,404.0	21.00	179.70	2,399.2	-26.6	-33.4	26.9	10.35	10.31	-2.50
2,435.0	24.20	178.50	2,427.8	-38.5	-33.2	38.8	10.43	10.32	-3.87
2,467.0	27.50	179.50	2,456.6	-52.5	-33.0	52.7	10.40	10.31	3.13
2,499.0	30.70	180.60	2,484.6	-68.0	-33.0	68.3	10.14	10.00	3.44
2,530.0	33.90	181.80	2,510.8	-84.6	-33.3	84.8	10.53	10.32	3.87
2,561.0	37.30	182.60	2,536.0	-102.6	-34.0	102.9	11.07	10.97	2.58
2,593.0	40.70	183.40	2,560.9	-122.7	-35.1	123.0	10.74	10.63	2.50
2,624.0	43.80	182.80	2,583.8	-143.5	-36.2	143.8	10.08	10.00	-1.94
2,654.0	46.90	182.40	2,604.9	-164.8	-37.2	165.1	10.38	10.33	-1.33
2,686.0	50.30	182.30	2,626.1	-188.8	-38.2	189.1	10.63	10.63	-0.31
2,717.0	53.50	181.80	2,645.2	-213.2	-39.0	213.5	10.40	10.32	-1.61
2,749.0	56.60	181.40	2,663.5	-239.4	-39.8	239.7	9.74	9.69	-1.25
2,780.0	59.90	180.60	2,679.8	-265.8	-40.2	266.1	10.87	10.65	-2.58
2,812.0	63.60	180.10	2,695.0	-293.9	-40.4	294.3	11.64	11.56	-1.56
Crossed Lease Line @ 2841' MD									
2,840.5	66.45	179.83	2,707.0	-319.8	-40.4	320.1	10.04	10.00	-0.94
2,844.0	66.80	179.80	2,708.4	-323.0	-40.4	323.3	10.04	10.00	-0.92
2,875.0	69.90	180.00	2,719.8	-351.8	-40.3	352.1	10.02	10.00	0.65
2,906.0	73.30	180.10	2,729.6	-381.2	-40.3	381.5	10.97	10.97	0.32
2,937.0	76.60	180.00	2,737.6	-411.1	-40.4	411.4	10.65	10.65	-0.32
2,968.0	78.80	180.10	2,744.3	-441.4	-40.4	441.7	7.10	7.10	0.32
2,999.0	81.50	180.10	2,749.6	-472.0	-40.5	472.3	8.71	8.71	0.00
3,031.0	83.80	179.80	2,753.6	-503.7	-40.4	504.0	7.25	7.19	-0.94
3,063.0	85.90	179.70	2,756.5	-535.6	-40.3	535.9	6.57	6.56	-0.31
3,094.0	87.70	179.60	2,758.3	-566.5	-40.1	566.8	5.82	5.81	-0.32
3,125.0	89.10	180.00	2,759.1	-597.5	-40.0	597.8	4.70	4.52	1.29
3,157.0	90.90	179.70	2,759.1	-629.5	-39.9	629.8	5.70	5.63	-0.94
Crossed Hard Line @ 3177' MD									
3,177.4	90.82	179.32	2,758.8	-649.9	-39.7	650.2	1.89	-0.37	-1.85
3,238.0	90.60	178.20	2,758.1	-710.5	-38.4	710.8	1.89	-0.37	-1.85
3,270.0	90.70	179.10	2,757.7	-742.5	-37.7	742.7	2.83	0.31	2.81
3,301.0	90.90	178.80	2,757.3	-773.5	-37.1	773.7	1.16	0.65	-0.97
3,333.0	90.30	178.40	2,756.9	-805.5	-36.3	805.7	2.25	-1.88	-1.25
3,397.0	89.30	180.80	2,757.1	-869.4	-35.9	869.7	4.06	-1.56	3.75
3,460.0	89.80	179.80	2,757.6	-932.4	-36.2	932.7	1.77	0.79	-1.59
3,524.0	89.90	180.90	2,757.8	-996.4	-36.6	996.7	1.73	0.16	1.72
3,588.0	90.50	180.30	2,757.6	-1,060.4	-37.3	1,060.7	1.33	0.94	-0.94
3,652.0	90.40	180.60	2,757.1	-1,124.4	-37.8	1,124.7	0.49	-0.16	0.47
3,715.0	89.80	181.60	2,757.0	-1,187.4	-39.0	1,187.7	1.85	-0.95	1.59
3,779.0	90.10	182.00	2,757.0	-1,251.4	-41.0	1,251.7	0.78	0.47	0.63
3,843.0	90.30	182.00	2,756.8	-1,315.3	-43.2	1,315.6	0.31	0.31	0.00
3,906.0	90.70	180.60	2,756.3	-1,378.3	-44.6	1,378.6	2.31	0.63	-2.22

DDC Survey Report



Company: Mewbourne Oil Co
Project: Eddy County, New Mexico
Site: Sec 24-T19S-R25E
Well: Wyatt Draw 24-25 NF Fed Com #1H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Wyatt Draw 24-25 NF Fed Com #1H
TVD Reference: WELL @ 3416.0usft (Patterson #101)
MD Reference: WELL @ 3416.0usft (Patterson #101)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)
3,968.0	91.00	181.60	2,755.3	-1,440.3	-45.8	1,440.6	1.68	0.48	1.61
4,030.0	90.80	182.20	2,754.4	-1,502.3	-47.9	1,502.6	1.02	-0.32	0.97
4,094.0	91.80	181.60	2,752.9	-1,566.2	-50.0	1,566.6	1.82	1.56	-0.94
4,157.0	91.70	180.30	2,751.0	-1,629.2	-51.1	1,629.5	2.07	-0.16	-2.06
4,221.0	91.60	178.30	2,749.1	-1,693.1	-50.3	1,693.5	3.13	-0.16	-3.13
4,285.0	91.10	178.00	2,747.6	-1,757.1	-48.2	1,757.4	0.91	-0.78	-0.47
4,349.0	91.20	178.90	2,746.4	-1,821.0	-46.5	1,821.4	1.41	0.16	1.41
4,411.0	91.30	177.10	2,745.0	-1,883.0	-44.3	1,883.3	2.91	0.16	-2.90
4,472.0	90.60	179.60	2,744.0	-1,944.0	-42.6	1,944.2	4.26	-1.15	4.10
4,532.0	90.50	180.90	2,743.4	-2,003.9	-42.8	2,004.2	2.17	-0.17	2.17
4,593.0	90.50	179.90	2,742.9	-2,064.9	-43.2	2,065.2	1.64	0.00	-1.64
4,653.0	90.70	180.70	2,742.3	-2,124.9	-43.6	2,125.2	1.37	0.33	1.33
4,712.0	90.70	180.50	2,741.5	-2,183.9	-44.2	2,184.2	0.34	0.00	-0.34
4,771.0	90.60	180.90	2,740.9	-2,242.9	-44.9	2,243.2	0.70	-0.17	0.68
4,833.0	91.40	179.90	2,739.8	-2,304.9	-45.3	2,305.2	2.07	1.29	-1.61
4,896.0	91.30	180.20	2,738.3	-2,367.9	-45.4	2,368.2	0.50	-0.16	0.48
4,958.0	90.90	180.00	2,737.1	-2,429.9	-45.5	2,430.2	0.72	-0.65	-0.32
5,021.0	91.00	180.00	2,736.1	-2,492.9	-45.5	2,493.2	0.16	0.16	0.00
5,085.0	90.50	179.70	2,735.2	-2,556.9	-45.3	2,557.1	0.91	-0.78	-0.47
5,149.0	90.70	180.00	2,734.6	-2,620.9	-45.2	2,621.1	0.56	0.31	0.47
5,213.0	90.80	178.80	2,733.7	-2,684.9	-44.5	2,685.1	1.88	0.16	-1.88
5,276.0	90.90	178.90	2,732.8	-2,747.8	-43.2	2,748.1	0.22	0.16	0.16
5,340.0	90.30	179.40	2,732.1	-2,811.8	-42.3	2,812.1	1.22	-0.94	0.78
5,404.0	90.60	179.30	2,731.6	-2,875.8	-41.5	2,876.1	0.49	0.47	-0.16
5,466.0	91.10	180.40	2,730.7	-2,937.8	-41.4	2,938.0	1.95	0.81	1.77
5,529.0	90.90	182.00	2,729.6	-3,000.8	-42.7	3,001.0	2.56	-0.32	2.54
5,593.0	90.90	180.00	2,728.6	-3,064.8	-43.8	3,065.0	3.12	0.00	-3.13
5,656.0	90.90	179.50	2,727.6	-3,127.8	-43.5	3,128.0	0.79	0.00	-0.79
5,718.0	91.40	179.70	2,726.3	-3,189.7	-43.1	3,190.0	0.87	0.81	0.32
5,782.0	92.30	179.10	2,724.3	-3,253.7	-42.4	3,253.9	1.69	1.41	-0.94
5,846.0	90.90	178.30	2,722.5	-3,317.7	-41.0	3,317.9	2.52	-2.19	-1.25
5,910.0	90.40	177.80	2,721.8	-3,381.6	-38.8	3,381.8	1.10	-0.78	-0.78
5,974.0	90.90	179.50	2,721.0	-3,445.6	-37.3	3,445.8	2.77	0.78	2.66
6,037.0	91.10	179.80	2,719.9	-3,508.6	-36.9	3,508.8	0.57	0.32	0.48
6,101.0	91.50	179.00	2,718.5	-3,572.6	-36.3	3,572.7	1.40	0.63	-1.25
6,165.0	92.20	178.40	2,716.4	-3,636.5	-34.8	3,636.7	1.44	1.09	-0.94
6,229.0	91.50	180.90	2,714.4	-3,700.5	-34.4	3,700.6	4.05	-1.09	3.91
6,292.0	91.80	181.00	2,712.5	-3,763.4	-35.5	3,763.6	0.50	0.48	0.16
6,356.0	91.70	180.50	2,710.6	-3,827.4	-36.3	3,827.6	0.80	-0.16	-0.78
6,420.0	91.30	179.60	2,708.9	-3,891.4	-36.3	3,891.5	1.54	-0.63	-1.41
TD									
6,464.0	91.30	179.60	2,707.9	-3,935.4	-36.0	3,935.5	0.00	0.00	0.00

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Wyatt Draw 24-25 NF Fed Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3416.0usft (Patterson #101)
Site:	Sec 24-T19S-R25E	MD Reference:	WELL @ 3416.0usft (Patterson #101)
Well:	Wyatt Draw 24-25 NF Fed Com #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)	
2,083.0	2,082.7	10.1	-29.3	Tie into Gyro
2,840.5	2,707.0	-319.8	-40.4	Crossed Lease Line @ 2841' MD
3,177.4	2,758.8	-649.9	-39.7	Crossed Hard Line @ 3177' MD
6,464.0	2,707.9	-3,935.4	-36.0	TD

Checked By: _____ Approved By: _____ Date: _____

Wyatt Draw 24-25 NF Fed Com #1H
Eddy County, New Mexico
Q100843 & WT-11304

Company Name Mewbourne Oil Co
Wyatt Draw 24-25 NF Fed Com #1H
Eddy County, New Mexico
Rig Patterson #101
Created By Shane Robbins
Date 6/21/2011



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 24-25 NF Fed Com #1H

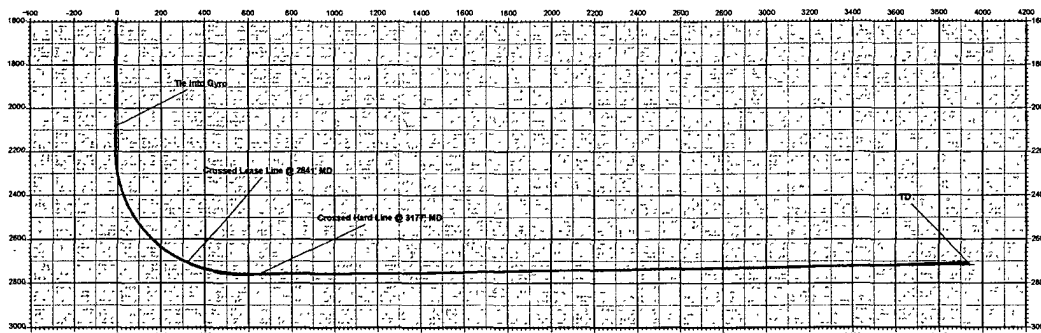
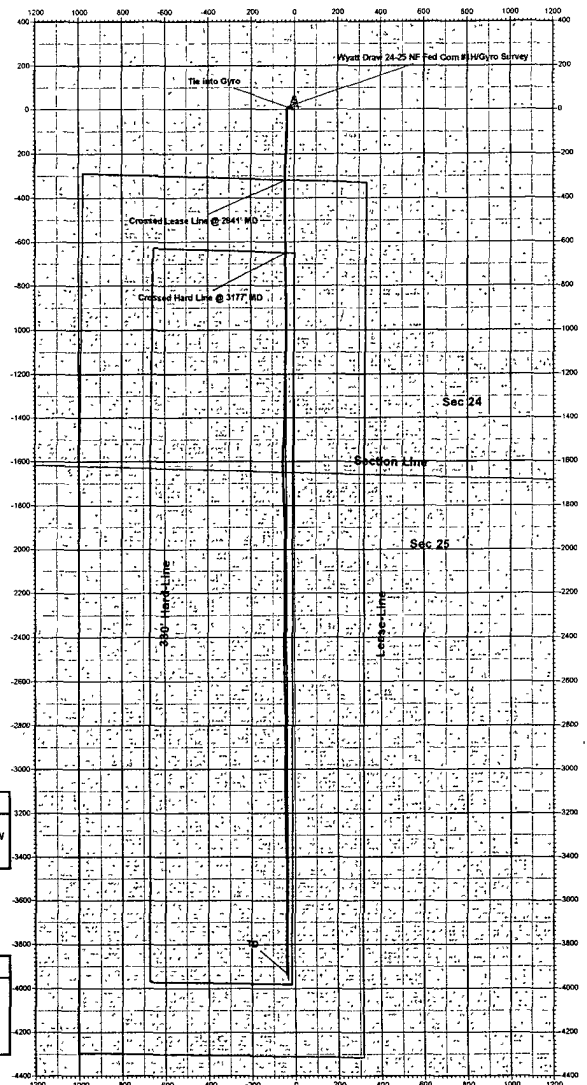
		Ground Level 3397.0			
+N-S	+E-W	Northing	Easting	Latitude	Longitude
0.0	0.0	597755.48	467532.78	32° 38' 35.975 N	104° 26' 19.720 W

DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
PBHL Wyatt Draw 24-25 NF Fed Com #1H Design #2	2716.0	-3960.1	-31.9	593809.36	467500.84	32° 37' 56.786 N	104° 26' 20.048 W

ANNOTATIONS

MD	Inc	Azi	TVD	+N-S	+E-W	Vsect	Departure	Annotation
2083.0	1.08	301.13	2082.7	10.1	-29.3	-9.9	31.9	Tie Into Gyro
2840.5	66.45	179.83	2707.0	-319.8	-40.4	320.1	365.0	Crossed Lease Line @ 2841' MD
3177.4	90.82	179.32	2708.9	-448.9	-39.7	650.2	695.1	Crossed Hard Line @ 3177' MD
6464.0	91.30	179.60	2707.9	-3936.4	-36.0	3935.6	3981.2	TD



Vertical Section at 160.46° (200 usf/in)

Azimuths to Grid North
Correction: 8.08°
Magnetic Field
Strength: 48776.5snT
Dip Angle: 60.42°
Date: 5/25/2011
Model: IGRF2010