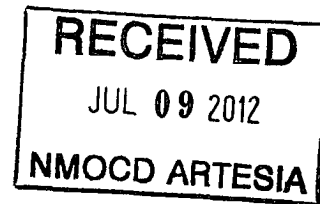


30-015-40167

Mewbourne Oil Co

Eddy County, New Mexico
Sec 30, T18S, R30E
Bradley 30 Federal Com #2H

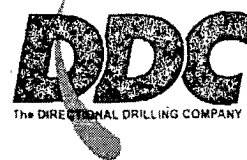


Wellbore #1

Survey: MWD

DDC Survey Report

13 June, 2012



DDC
Survey Report



Company: Mewbourne Oil Co
Project: Eddy County, New Mexico
Site: Sec 30, T18S, R30E
Well: Bradley 30 Federal Com #2H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Bradley 30 Federal Com #2H
TVD Reference: WELL @ 3463.0usft (Patterson-UT1 46)
MD Reference: WELL @ 3463.0usft (Patterson-UT1 46)
North Reference: Gnd
Survey Calculation Method: Minimum Curvature
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 30, T18S, R30E

Site Position: Northing: 622,986.86 usft Latitude: 32° 42' 44.110 N
From: Lat/Long Easting: 601,612.61 usft Longitude: 104° 0' 10.680 W
Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.18 °

Well: Bradley 30 Federal Com #2H

Well Position: +N/-S 0.0 usft Northing: 622,986.86 usft Latitude: 32° 42' 44.110 N
+E/-W 0.0 usft Easting: 601,612.61 usft Longitude: 104° 0' 10.680 W
Position Uncertainty: 0.0 usft Wellhead Elevation: usft Ground Level: 3,445.0 usft

Wellbore: Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/3/2012	7.75	60.55	48,807

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 0.0 269.91

Survey Program Date: 6/13/2012

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	7,565.0	Gyro (Wellbore #1)	Good_gyro	Good Gyro
7,700.0	12,503.0	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 IN @ 7565' MD / 7562' TVD									
7,565.0	1.53	286.94	7,561.6	45.0	-126.1	126.0	0.00	0.00	0.00
7,700.0	2.00	264.40	7,696.5	45.3	-130.1	130.1	0.61	0.35	-16.70
7,732.0	1.70	258.10	7,728.5	45.1	-131.1	131.1	1.13	-0.94	-19.69
7,764.0	4.10	269.60	7,760.5	45.0	-132.8	132.7	7.68	7.50	35.94
7,796.0	8.40	273.20	7,792.3	45.1	-136.2	136.2	13.49	13.44	11.25
7,827.0	12.90	274.40	7,822.7	45.5	-141.9	141.9	14.53	14.52	3.87
7,859.0	17.00	272.00	7,853.7	46.0	-150.2	150.1	12.96	12.81	-7.50
7,890.0	20.40	269.40	7,883.0	46.1	-160.1	160.0	11.29	10.97	-8.39
7,922.0	24.10	268.20	7,912.6	45.8	-172.2	172.2	11.65	11.56	-3.75

DDC Survey Report



Company: Mewbourne Oil Co
Project: Eddy County, New Mexico
Site: Sec 30, T18S, R30E
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Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Bradley 30 Federal Com #2H
TVD Reference: WELL @ 3463.0usft (Patterson-UT1 46)
MD Reference: WELL @ 3463 0usft (Patterson-UT1 46)
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)
7.953.0	27 80	268 40	7.940.5	45.4	-185 8	185.7	11.94	11 94	0.65
7.985 0	31.10	269.80	7.968.4	45 2	-201.5	201.4	10 53	10 31	4 38
8.017.0	34.70	269.60	7.995.2	45 1	-218.9	218.8	11.26	11 25	-0 63
8.049.0	39.00	268.60	8.020 8	44.8	-238 1	238.0	13 57	13.44	-3 13
8.080.0	43 30	268.00	8.044 2	44.2	-258.5	258 4	13.93	13.87	-1.94
8.112.0	46 50	268 80	8.066 8	43.5	-281.0	281.0	10 15	10.00	2.50
8.144.0	49 50	269 80	8.088.2	43 2	-304 8	304 7	9 66	9 38	3 13
8.175.0	53.40	269.80	8.107.5	43.2	-329 1	329.0	12 58	12 58	0 00
8.207.0	58.00	269.00	8.125.6	42.9	-355 5	355 4	14.52	14 38	-2.50
8.239.0	61.20	268 70	8.141 8	42 3	-383 1	383 0	10.03	10.00	-0.94
8.271.0	64.60	269 40	8.156 3	41 9	-411 6	411.5	10 80	10 63	2 19
8.302.0	68 40	269 90	8.168.7	41 7	-440 0	439.9	12 35	12.26	1.61
8.334.0	71.50	270 10	8.179 7	41.7	-470.0	470.0	9 71	9.69	0.63
8.366 0	74 20	270 00	8.189.1	41.7	-500.6	500 5	8 44	8 44	-0 31
8.397.0	77 10	269.80	8.196.8	41 7	-530 6	530 6	9 38	9.35	-0.65
8.424.0	79.70	269.80	8.202.2	41 6	-557.1	557 0	9 63	9.63	0.00
8.513.0	84.90	268 00	8.214.1	39 9	-645 2	645 2	6 18	5.84	-2 02
8.544.0	84 50	268.00	8.217.0	38 8	-676.1	676 0	1 29	-1 29	0 00
8.576.0	85 00	268.00	8.219.9	37.7	-707.9	707 9	1.56	1 56	0 00
8.608 0	86 50	268 40	8.222 3	36.7	-739.8	739.8	4.85	4.69	1.25
8.640.0	88.20	268 50	8.223 8	35.8	-771 8	771.7	5 32	5 31	0.31
8.671.0	90 40	269.50	8.224 2	35.3	-802 8	802.7	7.80	7.10	3 23
8.702.0	91.50	269.30	8.223.6	34.9	-833.8	833.7	3 61	3.55	-0.65
8.734.0	91.50	269 50	8.222.8	34 6	-865.7	865 7	0 62	0.00	0 63
8.766 0	91.20	269.40	8.222.1	34 3	-897.7	897.7	0.99	-0 94	-0 31
8.798 0	90.70	269.30	8.221 5	33.9	-929.7	929 7	1 59	-1 56	-0 31
8.830 0	90 50	270.00	8.221.2	33.7	-961.7	961 7	2 27	-0 63	2.19
8.862.0	91.60	270.00	8.220 6	33.7	-993.7	993 7	3 44	3 44	0.00
8.926.0	91.30	269.20	8.219.0	33 3	-1,057.7	1,057.6	1 33	-0.47	-1 25
8.989.0	90.90	268.80	8.217 8	32 2	-1,120 7	1,120 6	0 90	-0 63	-0 63
9.053 0	90.60	267 80	8.216.9	30.3	-1,184.6	1,184 6	1.63	-0.47	-1 56
9.116 0	91.40	268.70	8.215.8	28.4	-1,247 6	1,247.6	1 91	1.27	1.43
9.180.0	91.00	268.10	8.214.5	26 6	-1,311.6	1,311 5	1.13	-0.63	-0.94
9.243 0	91 00	268.30	8.213.4	24.6	-1,374.5	1,374.5	0.32	0.00	0.32
9.307.0	90 90	268 60	8.212 3	22 9	-1,438.5	1,438.4	0 49	-0.16	0.47
9.370 0	90.20	268.30	8.211.7	21.2	-1 501 5	1,501.4	1 21	-1.11	-0.48
9.434 0	91.20	268 60	8.210.9	19.4	-1,565 4	1,565 4	1.63	1 56	0.47
9.498 0	91.90	269 80	8.209 2	18.5	-1,629 4	1,629 4	2 17	1 09	1 88
9.562.0	91.60	269 80	8.207.3	18 3	-1,693 4	1,693.3	0 47	-0 47	0.00
9.625 0	91.20	269 60	8.205 7	18 0	-1,756 3	1,756.3	0 71	-0.63	-0 32
9.688 0	91.00	269 40	8.204.5	17 4	-1,819 3	1,819 3	0.45	-0.32	-0 32
9.752 0	90 30	268 20	8.203.8	16 1	-1,883 3	1,883 3	2 17	-1 09	-1 88
9.815 0	91 80	268.60	8.202.6	14.3	-1,946 3	1,946 3	2 46	2 38	0.63

DDC Survey Report



Company: Mewbourne Oil Co
Project: Eddy County, New Mexico
Site: Sec 30, T18S, R30E
Well: Bradley 30 Federal Com #2H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Bradley 30 Federal Com #2H
TVD Reference: WELL @ 3463.0usft (Patterson-UTI 46)
MD Reference: WELL @ 3483.0usft (Patterson-UTI 46)
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)
9 879.0	91.60	269.80	8,200.7	13.4	-2,010.2	2,010.2	1.90	-0.31	1.88
9,943.0	91.50	270.10	8,199.0	13.4	-2,074.2	2,074.2	0.49	-0.16	0.47
10,006.0	91.60	269.70	8,197.3	13.3	-2,137.2	2,137.2	0.65	0.16	-0.63
10,070.0	91.60	269.20	8,195.5	12.7	-2,201.2	2,201.1	0.78	0.00	-0.78
10,134.0	90.70	270.10	8,194.2	12.3	-2,265.2	2,265.1	1.99	-1.41	1.41
10,197.0	90.30	269.60	8,193.7	12.1	-2,328.1	2,328.1	1.02	-0.63	-0.79
10,260.0	90.20	269.60	8,193.4	11.7	-2,391.1	2,391.1	0.16	-0.16	0.00
10,324.0	90.00	269.90	8,193.3	11.4	-2,455.1	2,455.1	0.56	-0.31	0.47
10,388.0	89.20	269.00	8,193.7	10.8	-2,519.1	2,519.1	1.88	-1.25	-1.41
10,451.0	90.30	269.00	8,194.0	9.7	-2,582.1	2,582.1	1.75	1.75	0.00
10,515.0	92.20	270.10	8,192.6	9.2	-2,646.1	2,646.1	3.43	2.97	1.72
10,578.0	92.30	270.60	8,190.1	9.6	-2,709.1	2,709.0	0.81	0.16	0.79
10,642.0	92.70	271.00	8,187.4	10.5	-2,773.0	2,773.0	0.88	0.63	0.63
10,706.0	91.40	268.90	8,185.1	10.4	-2,836.9	2,836.9	3.86	-2.03	-3.28
10,770.0	89.80	266.80	8,184.4	8.0	-2,900.9	2,900.9	4.12	-2.50	-3.28
10,802.0	88.60	265.60	8,184.8	5.9	-2,932.8	2,932.8	5.30	-3.75	-3.75
10,833.0	89.90	266.50	8,185.2	3.7	-2,963.7	2,963.7	5.10	4.19	2.90
10,865.0	90.80	267.50	8,185.0	2.1	-2,995.7	2,995.7	4.20	2.81	3.13
10,896.0	90.90	267.30	8,184.6	0.7	-3,026.7	3,026.7	0.72	0.32	-0.65
10,928.0	90.90	268.70	8,184.1	-0.5	-3,058.6	3,058.6	4.37	0.00	4.38
10,960.0	91.50	269.40	8,183.4	-1.0	-3,090.6	3,090.6	2.88	1.88	2.19
11,023.0	91.50	271.80	8,181.8	-0.3	-3,153.6	3,153.6	3.81	0.00	3.81
11,087.0	90.30	271.50	8,180.8	1.5	-3,217.6	3,217.5	1.93	-1.88	-0.47
11,150.0	91.20	270.80	8,179.9	2.8	-3,280.5	3,280.5	1.81	1.43	-1.11
11,213.0	90.80	269.90	8,178.8	3.2	-3,343.5	3,343.5	1.56	-0.63	-1.43
11,275.0	91.70	270.20	8,177.5	3.2	-3,405.5	3,405.5	1.53	1.45	0.48
11,339.0	92.70	270.10	8,175.0	3.4	-3,469.5	3,469.5	1.57	1.56	-0.16
11,402.0	92.70	269.70	8,172.1	3.3	-3,532.4	3,532.4	0.63	0.00	-0.63
11,465.0	92.00	270.60	8,169.5	3.4	-3,595.3	3,595.3	1.81	-1.11	1.43
11,497.0	91.90	271.20	8,168.4	3.9	-3,627.3	3,627.3	1.90	-0.31	1.88
11,529.0	91.30	271.30	8,167.5	4.6	-3,659.3	3,659.3	1.90	-1.88	0.31
11,561.0	90.60	271.00	8,167.0	5.3	-3,691.3	3,691.3	2.38	-2.19	-0.94
11,625.0	89.10	271.30	8,167.1	6.6	-3,755.3	3,755.3	2.39	-2.34	0.47
11,688.0	88.40	271.10	8,168.5	7.9	-3,818.2	3,818.2	1.16	-1.11	-0.32
11,752.0	89.80	270.70	8,169.5	8.9	-3,882.2	3,882.2	2.28	2.19	-0.63
11,816.0	90.90	271.60	8,169.1	10.2	-3,946.2	3,946.2	2.22	1.72	1.41
11,879.0	91.30	271.40	8,167.9	11.8	-4,009.2	4,009.1	0.71	0.63	-0.32
11,942.0	91.30	271.00	8,166.5	13.1	-4,072.1	4,072.1	0.63	0.00	-0.63
12,006.0	90.60	269.70	8,165.4	13.5	-4,136.1	4,136.1	2.31	-1.09	-2.03
12,070.0	91.30	270.00	8,164.4	13.4	-4,200.1	4,200.1	1.19	1.09	0.47
12,133.0	91.50	270.70	8,162.8	13.8	-4,263.1	4,263.1	1.16	0.32	1.11
12,197.0	92.00	269.70	8,160.9	14.0	-4,327.1	4,327.0	1.75	0.78	-1.56
12,229.0	92.80	270.10	8,159.5	13.9	-4,359.0	4,359.0	2.79	2.50	1.25

DDC Survey Report



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MD Reference: WELL @ 3463.0usft (Patterson-UT1 46)
North Reference: Grd
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)
12.261.0	92.10	269.90	8.158.2	13.9	-4.391.0	4.391.0	2.27	-2.19	-0.63
12.324.0	90.30	269.60	8.156.8	13.6	-4.454.0	4.454.0	2.90	-2.86	-0.48
12.388.0	90.40	269.50	8.156.4	13.1	-4.518.0	4.518.0	0.22	0.16	-0.16
12.451.0	90.10	268.70	8.156.2	12.2	-4.581.0	4.581.0	1.36	-0.48	-1.27
TD @ 12503' MD / 8156' TVD									
12.503.0	90.10	268.70	8.156.1	11.0	-4.633.0	4.632.9	0.00	0.00	0.00

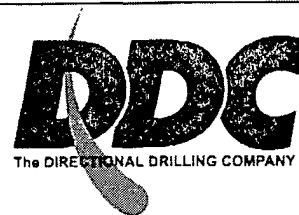
Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7.565.0	7.561.6	45.0	-126.1	TIE IN @ 7565' MD / 7562' TVD
12.503.0	8.156.1	11.0	-4.633.0	TD @ 12503' MD / 8156' TVD

Checked By: _____ Approved By: _____ Date: _____

Company Name: Mewbourne Oil Co
 Bradley 30 Federal Com #2H
 Eddy County, New Mexico
 Rtg: Patterson UTI 46
 Created By: Dina Chance
 Date: 5/13/2012

Bradley 30 Federal Com #2H
 Eddy County, New Mexico
 Q110377 & WT-12354



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



Azimuths to Grid North

Magnetic North: 7.57°

Magnetic Field
 Strength: 48807.1snT
 Dip Angle: 60.55°
 Date: 1/3/2012
 Model: IGRF2010

WELL DETAILS: Bradley 30 Federal Com #2H

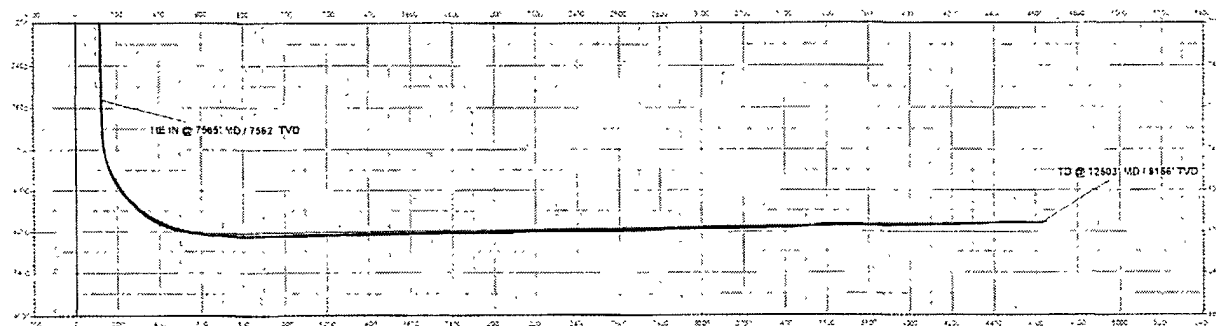
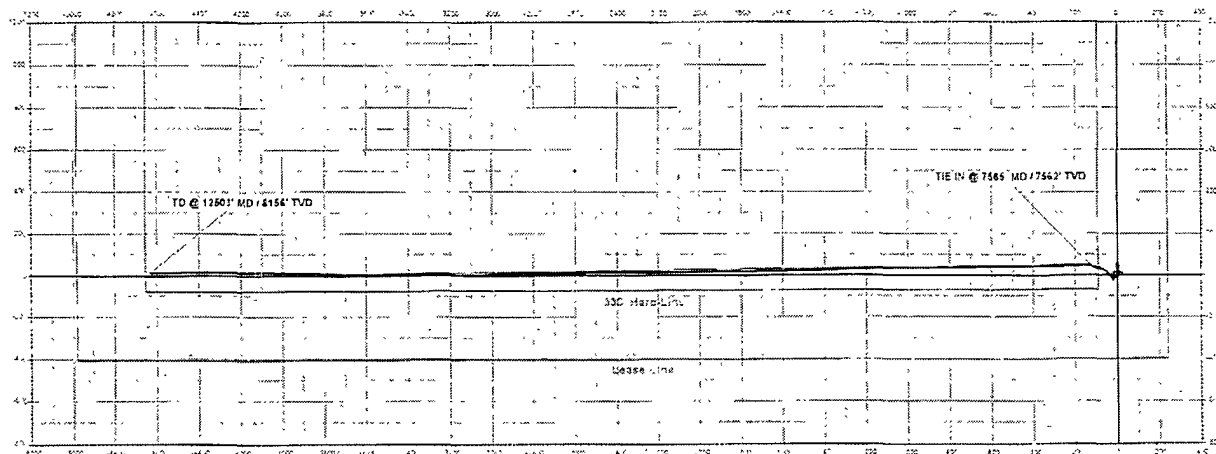
Well	Geodetic Level	3-45 C	Longitude
W-1	W-1	W-1	W-1
W-2	W-2	W-2	W-2

ANNOTATIONS

VD	Inc	Act	TV	W-S	E-W	V-Sect	Deduction	Annotation
7566.0	52	256.94	7561.6	45.0	126.1	120.0	131.0	TIE IN @ 7565 MD / 7562 TVD
12553.0	93.10	265.70	9146.1	11.0	-4610.0	-4521.9	-4689.0	TIE IN @ 12563 MD / 8156 TVD

DESIGN TARGET DETAILS

Name	VD	Inc	Act	TV	W-S	E-W	V-Sect	Deduction	Annotation
PR-1 Eddy 30 Federal Com #2H Des gr #2 5163.0	5163.0	51.0	176.0	5163.0	45.0	126.1	120.0	131.0	TIE IN @ 7565 MD / 7562 TVD



Vertical Section at 289.91° (200° Left Turn)

OPERATOR MEWBOURNE OIL COMPANY
WELL/LEASE BRADLEY 30 FED # 2H
COUNTY EDDY

046-0078

STATE OF NEW MEXICO
DEVIATION REPORT

205	0.67
381	2.07
675	1.88
950	1.10
1,204	0.65
1,374	0.51
1,760	0.88
2,173	0.99
2,427	0.36
2,680	0.11
2,934	0.66
3,188	0.50
3,441	0.69
3,695	0.45
3,885	0.25
4,139	0.81
4,391	1.11
4,645	0.96
4,898	0.93
5,151	0.72
5,377	1.05
5,568	1.10
5,821	1.67
6,042	1.63
6,169	2.19
6,296	2.44
6,423	2.76
6,582	4.50
6,645	4.00
6,740	4.23
6,990	2.18
7,116	0.94

STATE OF TEXAS

COUNTY OF MIDLAND

BY:

Kyle Hollingsworth

The foregoing instrument was acknowledged before me on 10/15/12, by
Kyle Hollingsworth on behalf of Patterson-UTL Drilling Company LLC.

Shawna K. Sims
Notary Public for Midland County, Texas
My Commission Expires.

