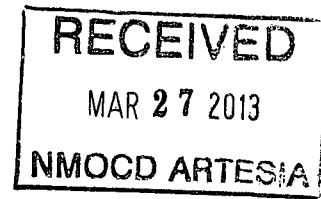


30 015 39525



Mewbourne Oil Co

Eddy County, New Mexico

Sec 33 19S-25E

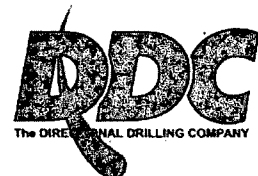
State B 33 EH Com #1H

Wellbore #1

Design: Wellbore #1

DDC Survey Report

07 March, 2013



DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well State B 33 EH Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3511.0usft (Patterson #101)
Site:	Sec 33 19S-25E	MD Reference:	WELL @ 3511.0usft (Patterson #101)
Well:	State B 33 EH 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 33 19S-25E		
Site Position:		Northing:	449,660.15 usft
From:	Map	Easting:	588,637.71 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 14' 9.268 N
		Longitude:	104° 2' 47.992 W
		Grid Convergence:	0.15 °

Well	State B 33 EH Com #1H		
Well Position	+N/-S	0.0 usft	Northing: 588,637.70 usft
	+E/-W	0.0 usft	Easting: 449,660.15 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 37' 5.385 N
		Longitude:	104° 29' 48.584 W
		Ground Level:	3,495.0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010	1/31/2013	7.84
			Dip Angle
			(°)
			60.35
			Field Strength
			(nT)
			48,586

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	90.08

Survey Program	Date 3/7/2013		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
100.0	1,836.0	Gyro (Wellbore #1)	Good_gyro
1,930.0	6,870.0	MWD (Wellbore #1)	MWD default
			Description
			Good Gyro
			MWD - Standard

Survey										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn	
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate	
(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.08	107.57	100.0	0.0	0.1	0.1	0.08	0.08	0.00	
200.0	0.35	314.61	200.0	0.2	-0.1	-0.1	0.42	0.27	-152.96	
300.0	0.21	270.30	300.0	0.4	-0.5	-0.5	0.25	-0.14	-44.31	
400.0	0.39	316.50	400.0	0.6	-0.9	-0.9	0.29	0.18	46.20	
500.0	0.58	324.47	500.0	1.3	-1.4	-1.4	0.20	0.19	7.97	
600.0	0.63	273.99	600.0	1.7	-2.3	-2.3	0.52	0.05	-50.48	
700.0	0.52	282.99	700.0	1.9	-3.3	-3.3	0.14	-0.11	9.00	
800.0	0.10	204.29	800.0	1.9	-3.7	-3.7	0.51	-0.42	-78.70	
900.0	0.30	198.38	900.0	1.6	-3.9	-3.9	0.20	0.20	-5.91	

DDC Survey Report



Company:	Mewbourne Oil Co.	Local Co-ordinate Reference:	Well State B 33 EH Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3511.0usft (Patterson #101)
Site:	Sec 33 19S 25E	MD Reference:	WELL @ 3511.0usft (Patterson #101)
Well:	State B 33 EH Com #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)
1,000.0	0.46	199.24	1,000.0	1.0	-4.1	-4.1	0.16	0.16	0.86
1,100.0	0.56	205.35	1,100.0	0.1	-4.4	-4.4	0.11	0.10	6.11
1,200.0	0.77	199.06	1,200.0	-0.9	-4.8	-4.8	0.22	0.21	-6.29
1,300.0	0.62	214.91	1,300.0	-2.0	-5.4	-5.4	0.24	-0.15	15.85
1,400.0	0.50	179.60	1,400.0	-2.9	-5.7	-5.7	0.36	-0.12	-35.31
1,500.0	0.23	226.85	1,500.0	-3.5	-5.8	-5.8	0.38	-0.27	47.25
1,600.0	0.38	195.03	1,600.0	-3.9	-6.1	-6.1	0.22	0.15	-31.82
1,700.0	0.37	137.31	1,700.0	-4.5	-5.9	-5.9	0.36	-0.01	-57.72
1,800.0	0.26	207.72	1,800.0	-4.9	-5.8	-5.8	0.37	-0.11	70.41
TIE IN @ 1836' MD / 1836' TVD									
1,836.0	0.34	185.47	1,835.9	-5.1	-5.9	-5.9	0.39	0.22	-61.81
1,930.0	0.10	184.80	1,929.9	-5.5	-5.9	-5.9	0.26	-0.26	-0.71
1,962.0	1.00	70.50	1,961.9	-5.4	-5.6	-5.6	3.27	2.81	-357.19
1,993.0	5.00	67.40	1,992.9	-4.8	-4.1	-4.1	12.91	12.90	-10.00
2,025.0	9.10	67.90	2,024.6	-3.3	-0.5	-0.5	12.81	12.81	1.56
2,056.0	13.40	71.60	2,055.0	-1.2	5.2	5.2	14.06	13.87	11.94
2,088.0	17.50	75.60	2,085.9	1.1	13.4	13.4	13.23	12.81	12.50
2,120.0	21.60	79.60	2,116.0	3.4	23.8	23.8	13.47	12.81	12.50
2,151.0	25.80	83.20	2,144.4	5.2	36.1	36.1	14.32	13.55	11.61
2,183.0	29.90	85.20	2,172.7	6.7	51.0	51.0	13.14	12.81	6.25
2,214.0	33.90	86.80	2,199.0	7.8	67.4	67.3	13.19	12.90	5.16
2,246.0	37.80	87.90	2,225.0	8.7	86.1	86.1	12.35	12.19	3.44
2,277.0	41.50	89.30	2,248.8	9.2	105.8	105.8	12.28	11.94	4.52
2,309.0	44.70	89.90	2,272.2	9.3	127.7	127.7	10.08	10.00	1.88
2,340.0	47.70	90.10	2,293.6	9.3	150.1	150.1	9.69	9.68	0.65
2,372.0	50.90	90.10	2,314.5	9.3	174.3	174.3	10.00	10.00	0.00
2,403.0	53.80	89.50	2,333.4	9.4	198.9	198.9	9.48	9.35	-1.94
2,435.0	56.50	89.80	2,351.7	9.5	225.1	225.1	8.47	8.44	0.94
2,466.0	59.20	91.00	2,368.2	9.3	251.4	251.4	9.31	8.71	3.87
2,498.0	62.60	91.40	2,383.8	8.7	279.3	279.3	10.68	10.63	1.25
2,529.0	66.70	90.50	2,397.0	8.3	307.3	307.3	13.48	13.23	-2.90
2,561.0	70.10	89.80	2,408.8	8.2	337.1	337.1	10.82	10.63	-2.19
2,593.0	73.60	89.30	2,418.8	8.4	367.5	367.5	11.04	10.94	-1.56
2,624.0	76.80	89.80	2,426.7	8.7	397.4	397.4	10.44	10.32	1.61
2,656.0	80.80	90.00	2,432.9	8.7	428.8	428.8	12.52	12.50	0.63
2,672.0	82.60	90.30	2,435.2	8.7	444.7	444.6	11.40	11.25	1.88
2,782.0	89.00	88.20	2,443.3	10.1	554.3	554.3	6.12	5.82	-1.91
2,814.0	89.30	88.60	2,443.8	11.0	586.3	586.3	1.56	0.94	1.25
2,877.0	89.00	88.70	2,444.7	12.5	649.3	649.2	0.50	-0.48	0.16
2,940.0	88.70	88.90	2,446.0	13.8	712.2	712.2	0.57	-0.48	0.32
3,003.0	89.10	90.50	2,447.2	14.2	775.2	775.2	2.62	0.63	2.54
3,067.0	90.40	90.90	2,447.4	13.4	839.2	839.2	2.13	2.03	0.63
3,130.0	90.30	90.80	2,447.1	12.4	902.2	902.2	0.22	-0.16	-0.16

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well State B 33 EH Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3511.0usft (Patterson #101)
Site:	Sec 33 19S-25E	MD Reference:	WELL @ 3511.0usft (Patterson #101)
Well:	State B 33 EH Com #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)
3,194.0	90.00	90.40	2,446.9	11.8	966.2	966.2	0.78	-0.47	-0.63
3,257.0	89.70	90.40	2,447.1	11.3	1,029.2	1,029.2	0.48	-0.48	0.00
3,320.0	88.80	89.80	2,447.9	11.2	1,092.2	1,092.2	1.72	-1.43	-0.95
3,383.0	88.10	89.60	2,449.6	11.6	1,155.2	1,155.1	1.16	-1.11	-0.32
3,447.0	89.10	90.30	2,451.1	11.6	1,219.1	1,219.1	1.91	1.56	1.09
3,510.0	89.10	89.90	2,452.1	11.5	1,282.1	1,282.1	0.63	0.00	-0.63
3,573.0	88.90	89.90	2,453.2	11.6	1,345.1	1,345.1	0.32	-0.32	0.00
3,636.0	88.90	89.60	2,454.4	11.9	1,408.1	1,408.1	0.48	0.00	-0.48
3,699.0	88.80	89.30	2,455.7	12.5	1,471.1	1,471.1	0.50	-0.16	-0.48
3,762.0	88.60	89.00	2,457.1	13.4	1,534.1	1,534.0	0.57	-0.32	-0.48
3,825.0	89.00	91.10	2,458.5	13.4	1,597.1	1,597.0	3.39	0.63	3.33
3,889.0	89.30	91.40	2,459.4	12.0	1,661.0	1,661.0	0.66	0.47	0.47
3,951.0	89.10	91.20	2,460.3	10.6	1,723.0	1,723.0	0.46	-0.32	-0.32
4,015.0	89.00	91.40	2,461.3	9.1	1,787.0	1,787.0	0.35	-0.16	0.31
4,110.0	89.00	91.00	2,463.0	7.1	1,881.9	1,881.9	0.42	0.00	-0.42
4,204.0	89.00	90.30	2,464.6	6.1	1,975.9	1,975.9	0.74	0.00	-0.74
4,299.0	88.80	89.50	2,466.5	6.2	2,070.9	2,070.9	0.87	-0.21	-0.84
4,394.0	89.50	90.40	2,467.9	6.3	2,165.9	2,165.9	1.20	0.74	0.95
4,489.0	89.10	89.50	2,469.0	6.4	2,260.9	2,260.9	1.04	-0.42	-0.95
4,584.0	89.20	89.70	2,470.4	7.1	2,355.9	2,355.9	0.24	0.11	0.21
4,679.0	89.20	89.00	2,471.8	8.1	2,450.9	2,450.8	0.74	0.00	-0.74
4,742.0	88.70	90.30	2,472.9	8.5	2,513.8	2,513.8	2.21	-0.79	2.06
4,838.0	88.40	89.30	2,475.3	8.9	2,609.8	2,609.8	1.09	-0.31	-1.04
4,933.0	88.90	90.60	2,477.6	8.9	2,704.8	2,704.8	1.47	0.53	1.37
5,028.0	88.80	90.40	2,479.5	8.1	2,799.8	2,799.7	0.24	-0.11	-0.21
5,123.0	88.90	89.40	2,481.4	8.3	2,894.7	2,894.7	1.06	0.11	-1.05
5,218.0	89.20	90.30	2,483.0	8.5	2,989.7	2,989.7	1.00	0.32	0.95
5,307.0	89.30	89.80	2,484.1	8.4	3,078.7	3,078.7	0.57	0.11	-0.56
5,399.0	88.50	89.00	2,485.9	9.4	3,170.7	3,170.7	1.23	-0.87	-0.87
5,492.0	88.40	91.20	2,488.4	9.2	3,263.7	3,263.6	2.37	-0.11	2.37
5,582.0	89.80	91.20	2,489.8	7.4	3,353.6	3,353.6	1.56	1.56	0.00
5,674.0	89.60	90.90	2,490.3	5.7	3,445.6	3,445.6	0.39	-0.22	-0.33
5,764.0	89.70	90.60	2,490.9	4.5	3,535.6	3,535.6	0.35	0.11	-0.33
5,856.0	89.20	90.00	2,491.7	4.0	3,627.6	3,627.6	0.85	-0.54	-0.65
5,948.0	87.90	88.80	2,494.1	5.0	3,719.6	3,719.5	1.92	-1.41	-1.30
6,040.0	89.10	88.80	2,496.5	6.9	3,811.5	3,811.5	1.30	1.30	0.00
6,133.0	88.60	90.00	2,498.4	7.9	3,904.5	3,904.5	1.40	-0.54	1.29
6,228.0	87.70	90.40	2,501.4	7.5	3,999.4	3,999.4	1.04	-0.95	0.42
6,322.0	89.00	92.50	2,504.1	5.2	4,093.3	4,093.3	2.63	1.38	2.23
6,417.0	90.50	92.80	2,504.5	0.8	4,188.2	4,188.2	1.61	1.58	0.32
6,512.0	90.20	92.00	2,504.0	-3.2	4,283.2	4,283.2	0.90	-0.32	-0.84
6,607.0	90.20	91.60	2,503.6	-6.2	4,378.1	4,378.1	0.42	0.00	-0.42
6,702.0	90.00	91.90	2,503.5	-9.1	4,473.1	4,473.1	0.38	-0.21	0.32

DDC
Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well State B 33 EH Com #1H
Project:	Eddy County New Mexico	TVD Reference:	WELL @ 3511.0usft (Patterson #101)
Site:	Sec 33 19S 25E	MD Reference:	WELL @ 3511.0usft (Patterson #101)
Well:	State B 33 EH Com #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)
6,796.0	88.50	90.70	2,504.7	-11.2	4,567.0	4,567.0	2.04	-1.60	-1.28
6,824.0	88.60	91.50	2,505.4	-11.8	4,595.0	4,595.0	2.88	0.36	2.86
TD @ 6870' MD / 2507' TVD									
6,870.0	88.60	91.50	2,506.5	-13.0	4,641.0	4,641.0	0.00	0.00	0.00

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,836.0	1,835.9	-5.1	-5.9	TIE IN @ 1836' MD / 1836' TVD
6,870.0	2,506.5	-13.0	4,641.0	TD @ 6870' MD / 2507' TVD

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------