

30-015-38106

Mewbourne Oil Co

Eddy County, New Mexico

Sec 35, T24S, R28E

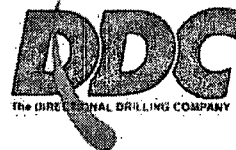
Willow Lake 35 MD Federal Com #1H

Wellbore #1

Design: Wellbore #1

DDC Survey Report

17 June, 2013



DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Willow Lake 35 MD Federal Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3001.0usft (Patterson)
Site:	Sec 35, T24S, R28E	MD Reference:	WELL @ 3001.0usft (Patterson)
Well:	Willow Lake 35 MD Federal 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 35, T24S, R28E		
Site Position:		Northing:	424,702.85 usft
From:	Map	Easting:	583,091.86 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 10' 2.424 N
		Longitude:	104° 3' 53.288 W
		Grid Convergence:	0.14 °

Well	Willow Lake 35 MD Federal Com #1H		
Well Position	+N/-S	0.0 usft	Northing: 424,702.85 usft
	+E/-W	0.0 usft	Easting: 583,091.86 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 10' 2.424 N
		Longitude:	104° 3' 53.288 W
		Ground Level:	2,981.0 usft

Wellbore	Wellbore #1		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/31/2013	7.57	60.00	48,335

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	359.41

Survey Program		Date 6/17/2013		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	7,640.0	GYRO (Wellbore #1)	Good_gyro	Good Gyro
7,684.0	12,790.0	MWD (Wellbore #1)	MWD default	MWD - Standard

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.33	90.91	100.0	0.0	0.3	0.0	0.33	0.33	0.00
200.0	0.35	113.89	200.0	-0.1	0.9	-0.1	0.14	0.02	22.98
300.0	1.03	88.60	300.0	-0.2	2.0	-0.3	0.73	0.68	-25.29
400.0	2.00	98.44	400.0	-0.5	4.7	-0.5	1.00	0.97	9.84
500.0	2.52	109.86	499.9	-1.5	8.5	-1.6	0.69	0.52	11.42
600.0	2.46	111.38	599.8	-3.0	12.5	-3.1	0.09	-0.06	1.52
700.0	1.80	106.93	699.7	-4.2	16.0	-4.4	0.68	-0.66	-4.45
800.0	1.89	114.30	799.7	-5.4	19.0	-5.6	0.25	0.09	7.37
900.0	1.65	125.79	899.6	-6.9	21.7	-7.1	0.43	-0.24	11.49

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Well:	Willow Lake 35 MD Federal 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	1.17	155.40	999.6	-8.7	23.3	-8.9	0.86	-0.48	29.61
1,100.0	0.77	180.69	1,099.6	-10.3	23.7	-10.5	0.58	-0.40	25.29
1,200.0	1.08	278.25	1,199.6	-10.8	22.8	-11.0	1.41	0.31	97.56
1,300.0	1.13	283.07	1,299.5	-10.4	20.9	-10.7	0.11	0.05	4.82
1,400.0	1.20	280.70	1,399.5	-10.0	18.9	-10.2	0.08	0.07	-2.37
1,500.0	0.90	272.39	1,499.5	-9.8	17.1	-10.0	0.34	-0.30	-8.31
1,600.0	0.53	263.74	1,599.5	-9.8	15.8	-10.0	0.38	-0.37	-8.65
1,700.0	0.27	275.83	1,699.5	-9.8	15.1	-10.0	0.27	-0.26	12.09
1,800.0	0.20	177.84	1,799.5	-10.0	14.9	-10.1	0.36	-0.07	-97.99
1,900.0	1.61	107.28	1,899.5	-10.6	16.2	-10.8	1.55	1.41	-70.56
2,000.0	3.60	106.10	1,999.4	-11.9	20.6	-12.1	1.99	1.99	-1.18
2,100.0	4.65	103.69	2,099.1	-13.7	27.6	-14.0	1.06	1.05	-2.41
2,200.0	6.25	105.50	2,198.7	-16.1	36.7	-16.5	1.61	1.60	1.81
2,300.0	6.39	107.94	2,298.0	-19.3	47.3	-19.8	0.30	0.14	2.44
2,400.0	6.20	109.61	2,397.4	-22.8	57.7	-23.4	0.26	-0.19	1.67
2,500.0	4.50	107.94	2,497.0	-25.8	66.5	-26.5	1.71	-1.70	-1.67
2,600.0	3.29	108.93	2,596.8	-28.0	72.9	-28.7	1.21	-1.21	0.99
2,700.0	2.87	117.79	2,696.6	-30.1	77.9	-30.9	0.63	-0.42	8.86
2,800.0	2.77	108.08	2,796.5	-32.0	82.4	-32.8	0.49	-0.10	-9.71
2,900.0	2.47	106.68	2,896.4	-33.4	86.7	-34.3	0.31	-0.30	-1.40
3,000.0	2.48	106.38	2,996.3	-34.6	90.9	-35.5	0.02	0.01	-0.30
3,100.0	2.42	105.39	3,096.2	-35.8	95.0	-36.7	0.07	-0.06	-0.99
3,200.0	2.40	105.19	3,196.1	-36.9	99.0	-37.9	0.02	-0.02	-0.20
3,300.0	2.29	105.11	3,296.0	-37.9	103.0	-39.0	0.11	-0.11	-0.08
3,400.0	2.04	106.66	3,396.0	-39.0	106.6	-40.1	0.26	-0.25	1.55
3,500.0	1.33	112.20	3,495.9	-39.9	109.4	-41.0	0.73	-0.71	5.54
3,600.0	1.13	106.54	3,595.9	-40.6	111.4	-41.8	0.23	-0.20	-5.66
3,700.0	1.12	98.60	3,695.9	-41.1	113.3	-42.2	0.16	-0.01	-7.94
3,800.0	1.16	78.27	3,795.9	-41.0	115.3	-42.2	0.40	0.04	-20.33
3,900.0	1.09	60.63	3,895.9	-40.3	117.1	-41.5	0.35	-0.07	-17.64
4,000.0	0.95	56.02	3,995.8	-39.4	118.6	-40.6	0.16	-0.14	-4.61
4,100.0	0.85	58.84	4,095.8	-38.6	120.0	-39.8	0.11	-0.10	2.82
4,200.0	0.58	84.84	4,195.8	-38.1	121.1	-39.4	0.42	-0.27	26.00
4,300.0	0.56	97.15	4,295.8	-38.1	122.1	-39.4	0.12	-0.02	12.31
4,400.0	0.57	98.60	4,395.8	-38.3	123.1	-39.5	0.02	0.01	1.45
4,500.0	0.62	99.84	4,495.8	-38.4	124.1	-39.7	0.05	0.05	1.24
4,600.0	0.64	110.54	4,595.8	-38.7	125.1	-40.0	0.12	0.02	10.70
4,700.0	0.58	131.08	4,695.8	-39.3	126.0	-40.6	0.23	-0.06	20.54
4,800.0	1.09	155.23	4,795.8	-40.5	126.8	-41.8	0.61	0.51	24.15
4,900.0	1.13	151.02	4,895.8	-42.2	127.7	-43.5	0.09	0.04	-4.21
5,000.0	1.12	156.65	4,995.7	-43.9	128.6	-45.3	0.11	-0.01	5.63
5,100.0	1.09	155.06	5,095.7	-45.7	129.4	-47.0	0.04	-0.03	-1.59
5,200.0	0.91	158.82	5,195.7	-47.3	130.0	-48.6	0.19	-0.18	3.76

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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)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	0.93	160.79	5,295.7	-48.8	130.6	-50.2	0.04	0.02	1.97
5,400.0	0.97	157.89	5,395.7	-50.4	131.2	-51.7	0.06	0.04	-2.90
5,500.0	0.92	166.38	5,495.7	-51.9	131.7	-53.3	0.15	-0.05	8.49
5,600.0	0.97	167.31	5,595.7	-53.5	132.1	-54.9	0.05	0.05	0.93
5,700.0	0.97	166.43	5,695.6	-55.2	132.4	-56.5	0.01	0.00	-0.88
5,800.0	1.06	180.16	5,795.6	-56.9	132.6	-58.3	0.26	0.09	13.73
5,900.0	1.30	181.21	5,895.6	-59.0	132.6	-60.3	0.24	0.24	1.05
6,000.0	1.34	182.80	5,995.6	-61.3	132.5	-62.7	0.05	0.04	1.59
6,100.0	1.39	181.42	6,095.5	-63.7	132.4	-65.0	0.06	0.05	-1.38
6,200.0	1.51	184.58	6,195.5	-66.2	132.3	-67.6	0.14	0.12	3.16
6,300.0	1.47	188.95	6,295.5	-68.8	132.0	-70.1	0.12	-0.04	4.37
6,400.0	0.92	202.79	6,395.5	-70.8	131.5	-72.1	0.62	-0.55	13.84
6,500.0	1.18	286.42	6,495.4	-71.2	130.2	-72.6	1.41	0.26	83.63
6,600.0	1.88	307.31	6,595.4	-69.9	127.9	-71.3	0.88	0.70	20.89
6,700.0	2.09	306.29	6,695.4	-67.9	125.1	-69.2	0.21	0.21	-1.02
6,800.0	3.15	306.11	6,795.2	-65.2	121.4	-66.4	1.06	1.06	-0.18
6,900.0	3.61	302.30	6,895.1	-61.9	116.6	-63.1	0.51	0.46	-3.81
7,000.0	3.28	299.79	6,994.9	-58.8	111.4	-59.9	0.36	-0.33	-2.51
7,100.0	3.36	298.13	7,094.7	-56.0	106.4	-57.1	0.13	0.08	-1.66
7,200.0	2.41	292.92	7,194.6	-53.8	101.8	-54.8	0.98	-0.95	-5.21
7,300.0	2.13	287.16	7,294.5	-52.4	98.1	-53.4	0.36	-0.28	-5.76
7,400.0	2.23	286.14	7,394.4	-51.3	94.5	-52.3	0.11	0.10	-1.02
7,500.0	2.49	295.56	7,494.4	-49.8	90.6	-50.8	0.47	0.26	9.42
7,600.0	2.92	309.84	7,594.2	-47.3	86.7	-48.2	0.80	0.43	14.28
TIE IN @ 7640' MD / 7634.2' TVD									
7,640.0	2.54	310.80	7,634.2	-46.0	85.3	-46.9	0.96	-0.95	2.40
7,684.0	2.60	307.80	7,678.2	-44.8	83.7	-45.6	0.33	0.14	-6.82
7,716.0	3.20	318.70	7,710.1	-43.7	82.6	-44.5	2.54	1.88	34.06
7,747.0	5.30	343.20	7,741.0	-41.6	81.6	-42.5	8.81	6.77	79.03
7,777.0	9.20	358.10	7,770.8	-37.9	81.1	-38.8	14.33	13.00	49.67
7,811.0	13.60	357.20	7,804.1	-31.2	80.8	-32.0	12.95	12.94	-2.65
7,842.0	16.50	356.00	7,834.0	-23.2	80.4	-24.0	9.41	9.35	-3.87
7,874.0	19.00	353.40	7,864.5	-13.5	79.4	-14.3	8.19	7.81	-8.13
7,905.0	22.40	2.30	7,893.5	-2.5	79.1	-3.4	14.91	10.97	28.71
CROSSED HARDLINE @ 7911.4' MD / 7899.4' TVD									
7,911.4	22.76	1.85	7,899.4	-0.1	79.2	-0.9	6.19	5.59	-6.95
7,937.0	24.20	0.20	7,922.9	10.1	79.4	9.3	6.19	5.63	-6.46
7,968.0	25.60	354.90	7,951.0	23.1	78.8	22.3	8.49	4.52	-17.10
8,000.0	28.80	352.60	7,979.5	37.7	77.2	36.9	10.52	10.00	-7.19
8,032.0	32.40	352.50	8,007.0	53.8	75.1	53.0	11.25	11.25	-0.31
8,063.0	34.70	354.90	8,032.9	70.8	73.2	70.1	8.56	7.42	7.74
8,095.0	38.40	355.80	8,058.6	89.8	71.7	89.1	11.68	11.56	2.81
8,126.0	42.00	357.20	8,082.2	109.8	70.4	109.1	11.97	11.61	4.52
8,158.0	44.70	356.70	8,105.5	131.7	69.3	131.0	8.51	8.44	-1.56

DDC
Survey Report



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8,189.0	47.30	357.00	8,127.0	154.0	68.1	153.3	8.42	8.39	0.97
8,221.0	50.30	354.60	8,148.1	178.0	66.3	177.3	10.94	9.38	-7.50
8,253.0	52.90	355.60	8,168.0	203.0	64.1	202.3	8.49	8.13	3.13
8,284.0	55.40	354.80	8,186.1	228.0	62.0	227.4	8.33	8.06	-2.58
8,316.0	57.70	354.40	8,203.8	254.6	59.5	254.0	7.26	7.19	-1.25
8,347.0	59.60	349.70	8,219.9	280.8	55.8	280.2	14.32	6.13	-15.16
8,379.0	63.00	351.80	8,235.3	308.5	51.3	308.0	12.08	10.63	6.56
8,410.0	66.90	352.10	8,248.4	336.3	47.4	335.8	12.61	12.58	0.97
8,442.0	69.90	351.30	8,260.2	365.7	43.1	365.3	9.66	9.38	-2.50
8,473.0	73.60	352.50	8,269.9	394.9	39.0	394.5	12.49	11.94	3.87
8,505.0	76.00	355.30	8,278.3	425.6	35.7	425.2	11.29	7.50	8.75
8,535.0	76.80	357.80	8,285.3	454.7	33.9	454.3	8.53	2.67	8.33
8,568.0	80.20	357.00	8,291.9	487.0	32.5	486.6	10.57	10.30	-2.42
8,598.0	84.10	356.90	8,296.0	516.7	30.9	516.3	13.00	13.00	-0.33
8,660.0	90.70	0.00	8,298.8	578.5	29.2	578.2	11.76	10.65	5.00
8,692.0	90.60	0.90	8,298.5	610.5	29.5	610.2	2.83	-0.31	2.81
8,723.0	90.40	0.90	8,298.2	641.5	30.0	641.2	0.65	-0.65	0.00
8,818.0	89.90	359.20	8,297.9	736.5	30.0	736.2	1.87	-0.53	-1.79
8,912.0	89.50	0.60	8,298.4	830.5	29.9	830.2	1.55	-0.43	1.49
9,007.0	90.00	0.00	8,298.9	925.5	30.4	925.2	0.82	0.53	-0.63
9,102.0	89.30	359.30	8,299.4	1,020.5	29.8	1,020.2	1.04	-0.74	-0.74
9,197.0	90.20	359.30	8,299.8	1,115.5	28.6	1,115.2	0.95	0.95	0.00
9,292.0	89.30	357.30	8,300.3	1,210.5	25.8	1,210.1	2.31	-0.95	-2.11
9,387.0	89.50	359.00	8,301.3	1,305.4	22.8	1,305.1	1.80	0.21	1.79
9,482.0	91.50	358.60	8,300.4	1,400.4	20.8	1,400.1	2.15	2.11	-0.42
9,577.0	91.60	358.50	8,297.9	1,495.3	18.4	1,495.0	0.15	0.11	-0.11
9,672.0	91.80	357.90	8,295.0	1,590.2	15.4	1,590.0	0.67	0.21	-0.63
9,766.0	90.80	357.80	8,292.9	1,684.1	11.9	1,683.9	1.07	-1.06	-0.11
9,861.0	90.80	358.60	8,291.6	1,779.1	8.9	1,778.9	0.84	0.00	0.84
9,955.0	91.20	357.80	8,289.9	1,873.0	5.9	1,872.8	0.95	0.43	-0.85
10,050.0	90.80	358.30	8,288.3	1,967.9	2.7	1,967.8	0.67	-0.42	0.53
10,145.0	90.60	357.80	8,287.1	2,062.9	-0.5	2,062.8	0.57	-0.21	-0.53
10,239.0	89.00	357.60	8,287.5	2,156.8	-4.3	2,156.7	1.72	-1.70	-0.21
10,334.0	87.80	356.70	8,290.1	2,251.6	-9.0	2,251.6	1.58	-1.26	-0.95
10,429.0	87.30	358.80	8,294.2	2,346.5	-12.8	2,346.5	2.27	-0.53	2.21
10,523.0	88.50	0.20	8,297.6	2,440.4	-13.6	2,440.4	1.96	1.28	1.49
10,618.0	90.70	0.60	8,298.3	2,535.4	-12.9	2,535.4	2.35	2.32	0.42
10,714.0	91.10	1.60	8,296.8	2,631.4	-11.1	2,631.3	1.12	0.42	1.04
10,809.0	89.20	1.30	8,296.5	2,726.3	-8.7	2,726.3	2.02	-2.00	-0.32
10,903.0	90.30	359.20	8,296.9	2,820.3	-8.3	2,820.2	2.52	1.17	-2.23
10,998.0	90.70	358.80	8,296.1	2,915.3	-9.9	2,915.2	0.60	0.42	-0.42
11,093.0	90.70	358.80	8,294.9	3,010.3	-11.9	3,010.2	0.00	0.00	0.00
11,189.0	90.60	358.10	8,293.8	3,106.2	-14.5	3,106.2	0.74	-0.10	-0.73

DDC Survey Report



Company:	Mawbourne Oil Co.	Local Co-ordinate Reference:	Well Willow Lake 35 MD Federal Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3001.0usft (Patterson)
Site:	Sec 35, T24S, R28E	MD Reference:	WELL @ 3001.0usft (Patterson)
Well:	Willow Lake 35 MD Federal 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)
11,284.0	90.80	359.20	8,292.7	3,201.2	-16.7	3,201.2	1.18	0.21	1.16
11,378.0	90.50	357.00	8,291.6	3,295.1	-19.9	3,295.2	2.36	-0.32	-2.34
11,473.0	89.80	357.00	8,291.4	3,390.0	-24.8	3,390.1	0.74	-0.74	0.00
11,568.0	90.30	357.80	8,291.3	3,484.9	-29.1	3,485.0	0.99	0.53	0.84
11,663.0	90.30	358.60	8,290.8	3,579.8	-32.1	3,580.0	0.84	0.00	0.84
11,758.0	90.50	0.60	8,290.1	3,674.8	-32.8	3,675.0	2.12	0.21	2.11
11,853.0	90.70	359.70	8,289.1	3,769.8	-32.5	3,770.0	0.97	0.21	-0.95
11,948.0	90.80	359.00	8,287.9	3,864.8	-33.6	3,865.0	0.74	0.11	-0.74
12,044.0	90.90	359.00	8,286.5	3,960.8	-35.3	3,960.9	0.10	0.10	0.00
12,138.0	90.00	359.00	8,285.7	4,054.8	-36.9	4,054.9	0.96	-0.96	0.00
12,233.0	89.30	359.20	8,286.3	4,149.8	-38.4	4,149.9	0.77	-0.74	0.21
12,328.0	89.30	358.60	8,287.5	4,244.7	-40.3	4,244.9	0.63	0.00	-0.63
12,423.0	89.40	356.90	8,288.5	4,339.7	-44.0	4,339.9	1.79	0.11	-1.79
12,518.0	89.50	357.40	8,289.5	4,434.5	-48.7	4,434.8	0.54	0.11	0.53
12,613.0	89.30	357.00	8,290.5	4,529.4	-53.3	4,529.7	0.47	-0.21	-0.42
12,708.0	89.60	356.50	8,291.4	4,624.3	-58.7	4,624.6	0.61	0.32	-0.53
TD @ 12790' MD / 8291.9' TVD									
12,790.0	89.60	356.50	8,291.9	4,706.1	-63.7	4,706.5	0.00	0.00	0.00

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
7,640.0	7,634.2	-46.0	85.3	TIE IN @ 7640' MD / 7634.2' TVD
7,911.4	7,899.4	-0.1	79.2	CROSSED HARDLINE @ 7911.4' MD / 7899.4' TVD
12,790.0	8,291.9	4,706.1	-63.7	TD @ 12790' MD / 8291.9' TVD

Checked By: _____	Approved By: _____	Date: _____
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