



Mewbourne Oil Co

Eddy County, New Mexico

Sec 11, T26S, R28E

Delaware Ranch 11 NC Fee #1H

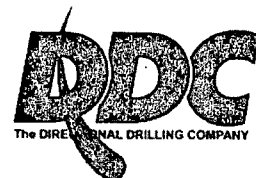
Wellbore #1

30-015-39423

Design: Wellbore #1

DDC Survey Report

27 March, 2013



DDC
Survey Report



Company:	Mewbourne Oil Co.	Local Co-ordinate Reference:	Well Delaware Ranch 11 NC Fee #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 2990.0usft (Patterson #75)
Site:	Sec 11, T26S, R28E	MD Reference:	WELL @ 2990.0usft (Patterson #75)
Well:	Delaware Ranch 11 NC Fee #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. 11, T26S, R28E			
Site Position:		Northing:	382,264.35 usft	Latitude:	32° 3' 2.385 N
From:	Map	Easting:	585,059.88 usft	Longitude:	104° 3' 31.649 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.15 °

Well	Delaware Ranch 11 NC Fee #1H					
Well Position	+N/-S	0.0 usft	Northing:	382,264.35 usft	Latitude:	32° 3' 2.385 N
	+E/-W	0.0 usft	Easting:	585,059.88 usft	Longitude:	104° 3' 31.649 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft	Ground Level:	2,970.0 usft	

Wellbore		Wellbore #1			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/17/2012	7.63	59.91	48,327

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	129.61

Survey Program		Date 3/27/2013		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	7,540.0	Gyro (Wellbore #1)	Good_gyro	Good Gyro
7,654.0	12,700.0	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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.15	87.94	100.0	0.0	0.1	0.1	0.15	0.15	0.00
200.0	0.23	65.14	200.0	0.1	0.4	0.3	0.11	0.08	-22.80
300.0	0.55	50.09	300.0	0.5	1.0	0.5	0.33	0.32	-15.05
400.0	0.59	91.22	400.0	0.8	1.9	0.9	0.40	0.04	41.13
500.0	0.92	145.10	500.0	0.1	2.9	2.1	0.74	0.33	53.88
600.0	1.07	168.69	600.0	-1.5	3.5	3.6	0.43	0.15	23.59
700.0	0.72	196.21	700.0	-3.0	3.5	4.6	0.54	-0.35	27.52
800.0	0.53	198.76	800.0	-4.0	3.2	5.0	0.19	-0.19	2.55
900.0	0.71	216.90	899.9	-5.0	2.7	5.2	0.26	0.18	18.14

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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

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	0.49	204.73	999.9	-5.8	2.1	5.3	0.25	-0.22	-12.17
1,100.0	0.49	229.47	1,099.9	-6.5	1.6	5.4	0.21	0.00	24.74
1,200.0	0.42	210.31	1,199.9	-7.1	1.1	5.4	0.17	-0.07	-19.16
1,300.0	0.41	220.35	1,299.9	-7.7	0.7	5.4	0.07	-0.01	10.04
1,400.0	0.05	240.40	1,399.9	-8.0	0.4	5.4	0.36	-0.36	20.05
1,500.0	0.24	277.05	1,499.9	-8.0	0.2	5.2	0.20	0.19	36.65
1,600.0	0.47	315.65	1,599.9	-7.7	-0.3	4.6	0.32	0.23	38.60
1,700.0	0.57	296.15	1,699.9	-7.1	-1.1	3.7	0.20	0.10	-19.50
1,800.0	0.63	310.24	1,799.9	-6.6	-1.9	2.7	0.16	0.06	14.09
1,900.0	0.18	4.19	1,899.9	-6.1	-2.3	2.1	0.54	-0.45	53.95
2,000.0	1.25	53.50	1,999.9	-5.3	-1.5	2.2	1.14	1.07	49.31
2,100.0	1.02	69.89	2,099.9	-4.3	0.3	2.9	0.40	-0.23	16.39
2,200.0	1.60	70.65	2,199.9	-3.5	2.4	4.1	0.58	0.58	0.76
2,300.0	2.20	82.56	2,299.8	-2.8	5.6	6.1	0.72	0.60	11.91
2,400.0	2.57	83.40	2,399.7	-2.3	9.8	9.0	0.37	0.37	0.84
2,500.0	2.28	71.56	2,499.6	-1.4	13.9	11.6	0.58	-0.29	-11.84
2,600.0	2.10	74.70	2,599.6	-0.3	17.5	13.7	0.22	-0.18	3.14
2,700.0	1.64	74.55	2,699.5	0.6	20.7	15.6	0.46	-0.46	-0.15
2,800.0	1.34	73.33	2,799.5	1.3	23.2	17.0	0.30	-0.30	-1.22
2,900.0	1.37	58.38	2,899.4	2.2	25.3	18.1	0.35	0.03	-14.95
3,000.0	0.99	68.29	2,999.4	3.2	27.1	18.9	0.43	-0.38	9.91
3,100.0	0.68	57.19	3,099.4	3.8	28.4	19.5	0.35	-0.31	-11.10
3,200.0	0.52	63.81	3,199.4	4.3	29.3	19.8	0.17	-0.16	6.62
3,300.0	0.44	51.64	3,299.4	4.8	30.1	20.1	0.13	-0.08	-12.17
3,400.0	0.36	42.01	3,399.4	5.2	30.6	20.2	0.10	-0.08	-9.63
3,500.0	0.12	63.81	3,499.4	5.5	30.9	20.3	0.25	-0.24	21.80
3,600.0	0.07	55.77	3,599.4	5.6	31.0	20.3	0.05	-0.05	-8.04
3,700.0	0.08	22.83	3,699.4	5.7	31.1	20.3	0.04	0.01	-32.94
3,800.0	0.18	13.11	3,799.4	5.9	31.2	20.2	0.10	0.10	-9.72
3,900.0	0.20	355.40	3,899.4	6.3	31.2	20.0	0.06	0.02	-17.71
4,000.0	0.16	0.96	3,999.4	6.6	31.2	19.8	0.04	-0.04	5.56
4,100.0	0.06	325.90	4,099.4	6.7	31.1	19.7	0.12	-0.10	-35.06
4,200.0	0.22	279.14	4,199.4	6.8	30.9	19.5	0.18	0.16	-46.76
4,300.0	0.34	226.41	4,299.4	6.6	30.5	19.3	0.27	0.12	-52.73
4,400.0	0.50	210.84	4,399.4	6.1	30.1	19.3	0.20	0.16	-15.57
4,500.0	0.52	234.55	4,499.4	5.4	29.5	19.2	0.21	0.02	23.71
4,600.0	0.62	230.91	4,599.4	4.8	28.7	19.0	0.11	0.10	-3.64
4,700.0	0.65	238.66	4,699.4	4.2	27.8	18.7	0.09	0.03	7.75
4,800.0	0.68	224.64	4,799.4	3.5	26.9	18.5	0.17	0.03	-14.02
4,900.0	0.68	222.01	4,899.4	2.6	26.1	18.4	0.03	0.00	-2.63
5,000.0	0.69	228.25	4,999.4	1.8	25.2	18.3	0.08	0.01	6.24
5,100.0	0.81	232.02	5,099.3	0.9	24.2	18.1	0.13	0.12	3.77
5,200.0	0.84	208.52	5,199.3	-0.1	23.3	18.1	0.34	0.03	-23.50

DDC Survey Report



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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)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,300.0	0.80	200.99	5,299.3	-1.4	22.7	18.4	0.11	-0.04	-7.53	
5,400.0	0.96	195.98	5,399.3	-2.9	22.2	19.0	0.18	0.16	-5.01	
5,500.0	0.94	208.42	5,499.3	-4.4	21.6	19.5	0.21	-0.02	12.44	
5,600.0	0.95	204.19	5,599.3	-5.9	20.9	19.8	0.07	0.01	-4.23	
5,700.0	1.12	202.04	5,699.3	-7.6	20.2	20.4	0.17	0.17	-2.15	
5,800.0	1.18	204.51	5,799.3	-9.4	19.4	20.9	0.08	0.06	2.47	
5,900.0	1.22	191.68	5,899.2	-11.4	18.7	21.7	0.27	0.04	-12.83	
6,000.0	1.21	190.64	5,999.2	-13.5	18.3	22.7	0.02	-0.01	-1.04	
6,100.0	0.99	201.24	6,099.2	-15.3	17.8	23.5	0.30	-0.22	10.60	
6,200.0	0.73	211.48	6,199.2	-16.7	17.2	23.8	0.30	-0.26	10.24	
6,300.0	0.83	221.28	6,299.2	-17.7	16.4	23.9	0.17	0.10	9.80	
6,400.0	0.72	200.87	6,399.2	-18.9	15.7	24.1	0.30	-0.11	-20.41	
6,500.0	0.53	147.98	6,499.2	-19.9	15.7	24.7	0.58	-0.19	-52.89	
6,600.0	0.36	96.26	6,599.2	-20.3	16.2	25.4	0.42	-0.17	-51.72	
6,700.0	0.68	66.08	6,699.1	-20.1	17.1	26.0	0.41	0.32	-30.18	
6,800.0	0.64	73.62	6,799.1	-19.7	18.2	26.5	0.10	-0.04	7.54	
6,900.0	0.62	80.91	6,899.1	-19.4	19.2	27.2	0.08	-0.02	7.29	
7,000.0	0.82	83.51	6,999.1	-19.3	20.5	28.1	0.20	0.20	2.60	
7,100.0	0.99	81.55	7,099.1	-19.1	22.1	29.1	0.17	0.17	-1.96	
7,200.0	1.09	86.90	7,199.1	-18.9	23.9	30.4	0.14	0.10	5.35	
7,300.0	0.73	120.09	7,299.1	-19.2	25.4	31.7	0.62	-0.36	33.19	
7,400.0	0.79	165.93	7,399.1	-20.1	26.1	32.9	0.59	0.06	45.84	
7,500.0	0.73	167.66	7,499.1	-21.4	26.4	34.0	0.06	-0.06	1.73	
TIE IN @ 7540' MD / 7539' TVD										
7,540.0	0.61	174.18	7,539.1	-21.9	26.5	34.3	0.35	-0.30	16.30	
7,654.0	1.00	275.90	7,653.1	-22.4	25.5	33.9	1.12	0.34	89.23	
7,686.0	1.50	303.60	7,685.1	-22.1	24.9	33.3	2.41	1.56	86.56	
7,717.0	4.00	5.20	7,716.0	-20.8	24.7	32.3	11.42	8.06	198.71	
7,750.0	6.40	18.00	7,748.9	-17.9	25.3	31.0	8.03	7.27	38.79	
7,782.0	9.00	9.70	7,780.6	-13.8	26.3	29.0	8.82	8.13	-25.94	
7,813.0	7.80	10.10	7,811.3	-9.3	27.1	26.8	3.88	-3.87	1.29	
7,845.0	9.20	20.10	7,842.9	-4.8	28.3	24.9	6.35	4.38	31.25	
CROSSED HARD LINE @ 7877' MD / 7874' TVD										
7,877.0	12.80	13.10	7,874.3	1.1	30.0	22.4	11.98	11.25	-21.88	
7,908.0	16.20	6.20	7,904.3	8.7	31.3	18.5	12.28	10.97	-22.26	
7,940.0	20.20	2.00	7,934.7	18.7	31.9	12.7	13.15	12.50	-13.13	
7,972.0	24.40	2.00	7,964.3	30.8	32.4	5.3	13.13	13.13	0.00	
8,004.0	28.70	2.70	7,992.9	45.1	33.0	-3.4	13.47	13.44	2.19	
8,036.0	32.20	359.90	8,020.5	61.3	33.3	-13.4	11.80	10.94	-8.75	
8,067.0	35.60	355.80	8,046.3	78.6	32.6	-25.0	13.21	10.97	-13.23	
8,099.0	39.30	354.10	8,071.7	98.0	30.9	-38.6	12.00	11.56	-5.31	
8,131.0	43.40	354.10	8,095.7	119.0	28.7	-53.7	12.81	12.81	0.00	
8,163.0	47.80	354.40	8,118.1	141.7	26.5	-70.0	13.77	13.75	0.94	
8,195.0	52.60	354.10	8,138.5	166.2	24.0	-87.5	15.02	15.00	-0.94	

DDC Survey Report



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Survey									
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8,227.0	58.20	353.20	8,156.7	192.4	21.1	-106.4	17.65	17.50	-2.81
8,259.0	63.60	352.70	8,172.3	220.1	17.6	-126.7	16.93	16.88	-1.56
8,290.0	69.30	351.60	8,184.6	248.2	13.7	-147.7	18.67	18.39	-3.55
8,324.0	75.50	350.70	8,194.9	280.2	8.8	-171.9	18.41	18.24	-2.65
8,410.0	86.20	354.40	8,208.6	364.3	-2.2	-233.9	13.14	12.44	4.30
8,442.0	89.50	357.80	8,209.8	396.2	-4.4	-255.9	14.80	10.31	10.63
8,474.0	91.10	359.00	8,209.6	428.2	-5.3	-277.0	6.25	5.00	3.75
8,505.0	91.00	358.80	8,209.0	459.2	-5.9	-297.2	0.72	-0.32	-0.65
8,537.0	91.20	359.00	8,208.4	491.2	-6.5	-318.1	0.88	0.63	0.63
8,569.0	90.90	358.80	8,207.8	523.1	-7.1	-339.0	1.13	-0.94	-0.63
8,601.0	91.10	358.80	8,207.3	555.1	-7.7	-359.9	0.63	0.63	0.00
8,633.0	91.30	359.20	8,206.6	587.1	-8.3	-380.7	1.40	0.63	1.25
8,664.0	91.60	0.40	8,205.8	618.1	-8.4	-400.5	3.99	0.97	3.87
8,696.0	91.50	0.60	8,205.0	650.1	-8.1	-420.7	0.70	-0.31	0.63
8,728.0	91.20	0.60	8,204.2	682.1	-7.8	-440.9	0.94	-0.94	0.00
8,791.0	89.90	3.00	8,203.6	745.0	-5.8	-479.5	4.33	-2.06	3.81
8,855.0	90.00	2.50	8,203.7	809.0	-2.8	-517.9	0.80	0.16	-0.78
8,918.0	89.40	2.30	8,204.0	871.9	-0.1	-556.0	1.00	-0.95	-0.32
8,980.0	89.20	2.90	8,204.7	933.8	2.7	-593.3	1.02	-0.32	0.97
9,044.0	88.90	2.30	8,205.8	997.8	5.6	-631.8	1.05	-0.47	-0.94
9,107.0	90.10	1.10	8,206.4	1,060.7	7.5	-670.5	2.69	1.90	-1.90
9,171.0	90.20	0.60	8,206.2	1,124.7	8.4	-710.6	0.80	0.16	-0.78
9,234.0	89.70	359.20	8,206.2	1,187.7	8.3	-750.8	2.36	-0.79	-2.22
9,297.0	90.80	359.50	8,206.0	1,250.7	7.6	-791.5	1.81	1.75	0.48
9,360.0	91.00	359.00	8,205.0	1,313.7	6.8	-832.3	0.85	0.32	-0.79
9,424.0	91.30	358.60	8,203.7	1,377.7	5.4	-874.1	0.78	0.47	-0.63
9,488.0	90.50	0.10	8,202.7	1,441.7	4.7	-915.5	2.66	-1.25	2.34
9,550.0	90.70	359.90	8,202.0	1,503.7	4.7	-955.0	0.46	0.32	-0.32
9,614.0	89.20	358.80	8,202.1	1,567.7	4.0	-996.4	2.91	-2.34	-1.72
9,677.0	89.70	358.60	8,202.7	1,630.6	2.5	-1,037.6	0.85	0.79	-0.32
9,741.0	90.00	359.90	8,202.9	1,694.6	1.7	-1,079.1	2.08	0.47	2.03
9,805.0	89.60	359.90	8,203.1	1,758.6	1.6	-1,120.0	0.63	-0.63	0.00
9,868.0	91.10	0.20	8,202.7	1,821.6	1.7	-1,160.1	2.43	2.38	0.48
9,932.0	89.70	359.00	8,202.3	1,885.6	1.2	-1,201.2	2.88	-2.19	-1.88
9,996.0	87.80	358.00	8,203.7	1,949.6	-0.5	-1,243.3	3.35	-2.97	-1.56
10,060.0	87.70	357.60	8,206.2	2,013.5	-2.9	-1,285.9	0.64	-0.16	-0.63
10,123.0	87.60	357.20	8,208.7	2,076.4	-5.8	-1,328.2	0.65	-0.16	-0.63
10,187.0	89.00	357.60	8,210.6	2,140.3	-8.7	-1,371.2	2.27	2.19	0.63
10,250.0	88.80	357.60	8,211.9	2,203.2	-11.3	-1,413.3	0.32	-0.32	0.00
10,313.0	90.00	356.90	8,212.5	2,266.1	-14.3	-1,455.8	2.21	1.90	-1.11
10,376.0	90.40	356.50	8,212.3	2,329.0	-18.0	-1,498.7	0.90	0.63	-0.63
10,439.0	90.30	356.40	8,211.9	2,391.9	-21.9	-1,541.8	0.22	-0.16	-0.16
10,502.0	90.60	356.40	8,211.4	2,454.8	-25.8	-1,584.9	0.48	0.48	0.00

DDC Survey Report



Company:	Mewbourne Oil Co.	Local Co-ordinate Reference:	Well Delaware Ranch 11- NC Fee #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 2990.0usft (Patterson #75)
Site:	Sec.11 T26S, R28E	MD Reference:	WELL @ 2990.0usft (Patterson #75)
Well:	Delaware Ranch 11- NC Fee #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)	
10,566.0	90.90	356.40	8,210.6	2,518.6	-29.8	-1,628.7	0.47	0.47	0.00	
10,630.0	90.80	355.70	8,209.6	2,582.5	-34.2	-1,672.8	1.10	-0.16	-1.09	
10,694.0	91.00	357.40	8,208.6	2,646.4	-38.1	-1,716.5	2.67	0.31	2.66	
10,757.0	87.40	357.60	8,209.5	2,709.3	-40.8	-1,758.7	5.72	-5.71	0.32	
10,821.0	87.20	358.50	8,212.5	2,773.2	-43.0	-1,801.1	1.44	-0.31	1.41	
10,884.0	87.10	358.00	8,215.6	2,836.1	-44.9	-1,842.7	0.81	-0.16	-0.79	
10,948.0	89.10	358.50	8,217.8	2,900.0	-46.9	-1,885.0	3.22	3.13	0.78	
11,017.0	91.00	358.80	8,217.7	2,969.0	-48.5	-1,930.2	2.79	2.75	0.43	
11,075.0	91.80	359.00	8,216.3	3,026.9	-49.6	-1,968.0	1.42	1.38	0.34	
11,138.0	90.80	0.10	8,214.9	3,089.9	-50.1	-2,008.6	2.36	-1.59	1.75	
11,202.0	90.70	0.60	8,214.0	3,153.9	-49.7	-2,049.1	0.80	-0.16	0.78	
11,265.0	91.40	0.60	8,212.9	3,216.9	-49.1	-2,088.7	1.11	1.11	0.00	
11,329.0	90.80	1.10	8,211.6	3,280.9	-48.1	-2,128.8	1.22	-0.94	0.78	
11,392.0	89.20	2.00	8,211.6	3,343.9	-46.4	-2,167.6	2.91	-2.54	1.43	
11,456.0	90.70	3.60	8,211.7	3,407.8	-43.3	-2,205.9	3.43	2.34	2.50	
11,520.0	88.90	4.40	8,211.9	3,471.6	-38.8	-2,243.2	3.08	-2.81	1.25	
11,583.0	88.30	4.60	8,213.5	3,534.4	-33.9	-2,279.4	1.00	-0.95	0.32	
11,647.0	89.90	5.30	8,214.5	3,598.2	-28.4	-2,315.8	2.73	2.50	1.09	
11,711.0	88.60	5.00	8,215.3	3,661.9	-22.6	-2,352.0	2.08	-2.03	-0.47	
11,774.0	88.70	5.00	8,216.8	3,724.6	-17.1	-2,387.8	0.16	0.16	0.00	
11,838.0	89.60	5.70	8,217.7	3,788.3	-11.2	-2,423.8	1.78	1.41	1.09	
11,901.0	89.90	6.70	8,218.0	3,851.0	-4.4	-2,458.5	1.66	0.48	1.59	
11,964.0	90.60	6.90	8,217.7	3,913.5	3.1	-2,492.6	1.16	1.11	0.32	
12,028.0	90.00	6.70	8,217.4	3,977.1	10.7	-2,527.3	0.99	-0.94	-0.31	
12,092.0	89.50	6.90	8,217.7	4,040.6	18.2	-2,562.0	0.84	-0.78	0.31	
12,155.0	88.80	5.20	8,218.6	4,103.3	24.9	-2,596.8	2.92	-1.11	-2.70	
12,218.0	88.40	3.90	8,220.2	4,166.0	29.9	-2,633.0	2.16	-0.63	-2.06	
12,282.0	90.10	4.40	8,221.0	4,229.9	34.5	-2,670.1	2.77	2.66	0.78	
12,345.0	90.00	4.40	8,220.9	4,292.7	39.3	-2,706.4	0.16	-0.16	0.00	
12,409.0	89.90	3.80	8,221.0	4,356.5	43.9	-2,743.6	0.95	-0.16	-0.94	
12,472.0	90.00	3.00	8,221.1	4,419.4	47.7	-2,780.8	1.28	0.16	-1.27	
12,535.0	91.30	3.80	8,220.3	4,482.3	51.4	-2,818.0	2.42	2.06	1.27	
12,598.0	91.90	3.80	8,218.6	4,545.1	55.6	-2,854.9	0.95	0.95	0.00	
12,648.0	91.30	2.70	8,217.2	4,595.0	58.4	-2,884.5	2.51	-1.20	-2.20	
12,700.0	91.30	2.70	8,216.0	4,647.0	60.8	-2,915.7	0.00	0.00	0.00	

DDC
Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Delaware Ranch 11' NC Fee #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 2990.0usft (Patterson #75)
Site:	Sec 11 T26S R28E	MD Reference:	WELL @ 2990.0usft (Patterson #75)
Well:	Delaware Ranch 11 NC Fee #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,540.0	7,539.1	-21.9	26.5	TIE IN @ 7540' MD / 7539' TVD
7,877.0	7,874.3	1.1	30.0	CROSSED HARD LINE @ 7877' MD / 7874' TVD
12,700.0	8,216.0	4,647.0	60.8	TD @ 12700' MD / 8216' TVD

Checked By: _____	Approved By: _____	Date: _____
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