

30-015-40753

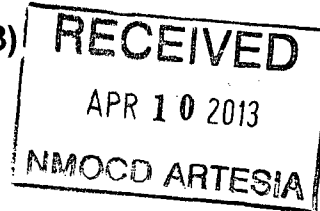
Mewbourne Oil Co

Eddy County, New Mexico (Nad 83)

Sec 30, T19S, R29E

Mirage 30 PM State Com #1H

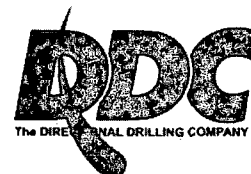
Wellbore #1



Design: Wellbore #1

DDC Survey Report

21 February, 2013



DDC
Survey Report



Company:	Mewbourne Oil Co.	Local Co-ordinate Reference:	Well Mirage 30 PM State Com #1H
Project:	Eddy County, New Mexico (Nad 83)	TVD Reference:	WELL @ 3331.0usft (Patterson-UTI)
Site:	Sec 30, T19S, R29E	MD Reference:	WELL @ 3331.0usft (Patterson-UTI)
Well:	Mirage 30 PM State 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 (Nad 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Sec 30, T19S, R29E		
Site Position:		Northing:	591,334.50 usft
From:	Map	Easting:	611,308.60 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 37' 31.522 N
		Longitude:	104° 6' 21.799 W
		Grid Convergence:	0.12 °

Well	Mirage 30 PM State Com #1H		
Well Position	+N-S	0.0 usft	Northing: 591,334.50 usft
	+E-W	0.0 usft	Easting: 611,308.60 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 37' 31.522 N
		Longitude:	104° 6' 21.799 W
		Ground Level:	3,311.0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010	2/7/2013	7.66
			Dip Angle (°)
			60.43
			Field Strength (nT)
			48,635

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	274.72

Survey Program	Date 2/21/2013		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
200.0	7,120.0	GYRO (Wellbore #1)	Good_gyro
7,269.0	12,150.0	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	
200.0	0.47	221.39	200.0	-0.6	-0.5	0.5	0.24	0.24	0.00	
400.0	0.41	233.09	400.0	-1.7	-1.7	1.5	0.05	-0.03	5.85	
600.0	0.51	244.95	600.0	-2.5	-3.0	2.8	0.07	0.05	5.93	
800.0	1.99	252.13	799.9	-3.9	-7.1	6.8	0.74	0.74	3.59	
1,000.0	1.92	253.98	999.8	-5.9	-13.7	13.1	0.05	-0.04	0.93	
1,200.0	0.88	276.61	1,199.8	-6.6	-18.4	17.8	0.58	-0.52	11.32	
1,400.0	0.67	272.21	1,399.7	-6.4	-21.1	20.5	0.11	-0.11	-2.20	
1,600.0	0.45	315.45	1,599.7	-5.8	-22.8	22.3	0.23	-0.11	21.62	
1,800.0	0.35	335.65	1,799.7	-4.7	-23.6	23.2	0.09	-0.05	10.10	

DDC Survey Report



Company:	Mewbourne Oil Co.	Local Co-ordinate Reference:	Well Mirage 30-PM State Com #1H
Project:	Eddy County, New Mexico (Nad 83)	TVD Reference:	WELL @ 3331.0usft (Patterson-UT1)
Site:	Sec 30-T19S-R29E	MD Reference:	WELL @ 3331.0usft (Patterson-UT1)
Well:	Mirage 30-PM State 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)
2,000.0	0.16	333.06	1,999.7	-3.9	-24.0	23.6	0.10	-0.10	-1.30
2,200.0	0.63	354.79	2,199.7	-2.6	-24.2	23.9	0.24	0.24	10.87
2,400.0	0.64	142.29	2,399.7	-2.3	-23.7	23.4	0.61	0.01	73.75
2,600.0	0.75	166.77	2,599.7	-4.5	-22.7	22.2	0.16	0.06	12.24
2,800.0	0.98	161.76	2,799.7	-7.4	-21.8	21.2	0.12	0.12	-2.51
3,000.0	0.71	164.34	2,999.7	-10.2	-21.0	20.1	0.14	-0.14	1.29
3,200.0	1.06	140.39	3,199.6	-12.8	-19.5	18.3	0.25	0.18	-11.98
3,400.0	0.72	151.92	3,399.6	-15.4	-17.7	16.4	0.19	-0.17	5.77
3,600.0	1.30	117.05	3,599.6	-17.5	-15.1	13.6	0.41	0.29	-17.44
3,800.0	2.06	115.41	3,799.5	-20.1	-9.8	8.1	0.38	0.38	-0.82
4,000.0	2.27	100.37	3,999.3	-22.3	-2.7	0.8	0.30	0.11	-7.52
4,200.0	2.56	96.45	4,199.2	-23.6	5.7	-7.6	0.17	0.15	-1.96
4,400.0	1.98	86.16	4,399.0	-23.8	13.6	-15.5	0.35	-0.29	-5.15
4,600.0	1.88	80.96	4,598.9	-23.1	20.2	-22.1	0.10	-0.05	-2.60
4,800.0	1.40	74.22	4,798.8	-21.9	25.8	-27.6	0.26	-0.24	-3.37
5,000.0	1.48	36.37	4,998.8	-19.2	29.7	-31.2	0.47	0.04	-18.93
5,200.0	1.19	54.12	5,198.7	-15.9	32.9	-34.1	0.25	-0.15	8.88
5,400.0	1.67	65.35	5,398.6	-13.4	37.3	-38.2	0.28	0.24	5.62
5,600.0	1.87	110.48	5,598.6	-13.4	43.0	-43.9	0.69	0.10	22.57
5,800.0	2.47	117.65	5,798.4	-16.5	49.8	-51.0	0.33	0.30	3.59
6,000.0	2.61	115.99	5,998.2	-20.5	57.8	-59.2	0.08	0.07	-0.83
6,200.0	1.78	125.41	6,198.1	-24.3	64.4	-66.2	0.45	-0.42	4.71
6,400.0	1.22	140.94	6,398.0	-27.7	68.3	-70.3	0.34	-0.28	7.77
6,600.0	1.05	185.17	6,598.0	-31.2	69.4	-71.8	0.43	-0.09	22.12
6,800.0	1.20	240.78	6,797.9	-34.1	67.4	-70.0	0.53	0.08	27.81
7,000.0	1.43	269.01	6,997.9	-35.1	63.1	-65.8	0.34	0.12	14.12
TIE IN @ 7120' MD / 7117.8' TVD									
7,120.0	3.07	301.25	7,117.8	-33.5	58.9	-61.4	1.68	1.37	26.87
7,269.0	3.70	218.50	7,266.6	-35.2	52.5	-55.2	3.02	0.42	-55.54
7,301.0	7.70	243.30	7,298.4	-37.0	49.9	-52.8	14.40	12.50	77.50
7,333.0	11.10	253.50	7,330.0	-38.8	45.0	-48.1	11.79	10.63	31.88
7,365.0	15.30	258.70	7,361.2	-40.5	37.9	-41.1	13.63	13.13	16.25
7,396.0	19.80	263.70	7,390.7	-41.9	28.7	-32.1	15.30	14.52	16.13
7,428.0	23.50	265.10	7,420.4	-43.0	17.0	-20.4	11.67	11.56	4.38
7,460.0	26.90	264.30	7,449.4	-44.3	3.4	-7.0	10.68	10.63	-2.50
7,491.0	29.80	266.40	7,476.7	-45.5	-11.3	7.5	9.89	9.35	6.77
7,523.0	33.40	269.80	7,503.9	-46.0	-28.0	24.1	12.55	11.25	10.63
7,555.0	36.80	273.30	7,530.1	-45.5	-46.4	42.5	12.34	10.63	10.94
7,587.0	39.40	276.20	7,555.3	-43.8	-66.1	62.3	9.86	8.13	9.06
7,619.0	42.90	279.30	7,579.4	-41.0	-86.9	83.3	12.66	10.94	9.69
7,650.0	45.90	282.00	7,601.5	-36.9	-108.2	104.8	11.43	9.68	8.71
7,682.0	49.80	284.70	7,623.0	-31.4	-131.3	128.3	13.70	12.19	8.44
7,714.0	53.70	284.80	7,642.8	-25.0	-155.6	153.0	12.19	12.19	0.31

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Mirage 30-PM State Com #1H
Project:	Eddy County New Mexico (Nad 83)	TVD Reference:	WELL @ 3331.0usft (Patterson-UTI)
Site:	Sec 30 T19S R29E	MD Reference:	WELL @ 3331.0usft (Patterson-UTI)
Well:	Mirage 30-PM State 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)
7,746.0	57.20	284.90	7,661.0	-18.3	-181.1	179.0	10.94	10.94	0.31
7,777.0	60.00	282.70	7,677.1	-12.0	-206.8	205.1	10.87	9.03	-7.10
7,809.0	63.70	279.90	7,692.2	-6.5	-234.4	233.1	13.90	11.56	-8.75
7,841.0	67.50	277.50	7,705.4	-2.1	-263.2	262.2	13.70	11.88	-7.50
CROSSED HARDLINE @ 7872' MD / 7716.5' TVD									
7,872.0	70.70	276.80	7,716.5	1.5	-292.0	291.1	10.54	10.32	-2.26
7,904.0	74.60	276.10	7,726.0	5.0	-322.3	321.6	12.36	12.19	-2.19
7,936.0	79.10	275.30	7,733.3	8.0	-353.3	352.8	14.27	14.06	-2.50
7,968.0	82.90	275.90	7,738.3	11.1	-384.8	384.4	12.02	11.88	1.88
7,992.0	84.90	276.00	7,740.9	13.6	-408.5	408.2	8.34	8.33	0.42
8,067.0	91.10	274.40	7,743.5	20.4	-483.1	483.1	8.54	8.27	-2.13
8,131.0	92.30	274.30	7,741.6	25.2	-546.9	547.1	1.88	1.88	-0.16
8,194.0	92.90	273.90	7,738.7	29.7	-609.7	610.0	1.14	0.95	-0.63
8,258.0	93.60	272.60	7,735.1	33.4	-673.5	673.9	2.30	1.09	-2.03
8,321.0	93.20	271.60	7,731.3	35.7	-736.3	736.7	1.71	-0.63	-1.59
8,353.0	93.30	270.90	7,729.5	36.4	-768.2	768.6	2.21	0.31	-2.19
8,384.0	93.20	271.20	7,727.8	36.9	-799.2	799.5	1.02	-0.32	0.97
8,416.0	92.50	271.80	7,726.2	37.8	-831.1	831.4	2.88	-2.19	1.88
8,447.0	91.30	272.00	7,725.2	38.8	-862.1	862.4	3.92	-3.87	0.65
8,479.0	90.10	272.70	7,724.8	40.1	-894.1	894.3	4.34	-3.75	2.19
8,511.0	90.20	272.00	7,724.7	41.4	-926.0	926.3	2.21	0.31	-2.19
8,543.0	90.30	272.70	7,724.5	42.7	-958.0	958.3	2.21	0.31	2.19
8,575.0	90.40	273.60	7,724.3	44.5	-990.0	990.3	2.83	0.31	2.81
8,606.0	90.50	275.00	7,724.1	46.8	-1,020.9	1,021.3	4.53	0.32	4.52
8,638.0	90.60	276.40	7,723.8	50.0	-1,052.7	1,053.3	4.39	0.31	4.38
8,670.0	90.60	278.00	7,723.5	54.0	-1,084.5	1,085.2	5.00	0.00	5.00
8,702.0	90.80	277.90	7,723.1	58.4	-1,116.2	1,117.2	0.70	0.63	-0.31
8,765.0	89.80	277.50	7,722.7	66.9	-1,178.6	1,180.1	1.71	-1.59	-0.63
8,828.0	90.20	276.50	7,722.7	74.5	-1,241.1	1,243.0	1.71	0.63	-1.59
8,891.0	90.10	276.30	7,722.6	81.6	-1,303.7	1,306.0	0.35	-0.16	-0.32
8,954.0	91.10	276.40	7,721.9	88.5	-1,366.3	1,369.0	1.60	1.59	0.16
9,018.0	90.50	276.00	7,721.0	95.4	-1,429.9	1,433.0	1.13	-0.94	-0.63
9,081.0	91.60	275.30	7,719.9	101.7	-1,492.6	1,495.9	2.07	1.75	-1.11
9,144.0	91.50	276.00	7,718.2	107.9	-1,555.3	1,558.9	1.12	-0.16	1.11
9,208.0	91.70	275.20	7,716.4	114.1	-1,619.0	1,622.9	1.29	0.31	-1.25
9,271.0	91.70	275.70	7,714.5	120.1	-1,681.7	1,685.8	0.79	0.00	0.79
9,334.0	91.90	276.90	7,712.5	127.0	-1,744.2	1,748.8	1.93	0.32	1.90
9,398.0	90.20	276.90	7,711.4	134.7	-1,807.8	1,812.7	2.66	-2.66	0.00
9,461.0	89.90	276.30	7,711.3	141.9	-1,870.3	1,875.7	1.06	-0.48	-0.95
9,525.0	90.00	275.70	7,711.4	148.6	-1,934.0	1,939.7	0.95	0.16	-0.94
9,588.0	91.60	275.20	7,710.5	154.6	-1,996.7	2,002.7	2.66	2.54	-0.79
9,652.0	92.10	274.70	7,708.4	160.1	-2,060.4	2,066.6	1.10	0.78	-0.78
9,715.0	91.70	274.90	7,706.3	165.4	-2,123.2	2,129.6	0.71	-0.63	0.32
9,778.0	91.70	274.60	7,704.5	170.6	-2,185.9	2,192.6	0.48	0.00	-0.48

DDC Survey Report



Company:	Mewbourne Oil Co.	Local Co-ordinate Reference:	Well Mirage 30 PM State Com #1H
Project:	Eddy County, New Mexico (Nad 83)	TVD Reference:	WELL @ 3331.0usft (Patterson-UTL)
Site:	Sec 30 T19S, R29E	MD Reference:	WELL @ 3331.0usft (Patterson-UTL)
Well:	Mirage 30 PM State 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)
9,841.0	90.20	274.90	7,703.4	175.8	-2,248.7	2,255.5	2.43	-2.38	0.48
9,905.0	89.80	274.80	7,703.4	181.2	-2,312.5	2,319.5	0.64	-0.63	-0.16
9,968.0	89.50	275.60	7,703.8	186.9	-2,375.2	2,382.5	1.36	-0.48	1.27
10,031.0	89.80	276.20	7,704.2	193.4	-2,437.9	2,445.5	1.06	0.48	0.95
10,063.0	89.80	276.00	7,704.3	196.8	-2,469.7	2,477.5	0.62	0.00	-0.63
10,126.0	91.10	275.70	7,703.8	203.2	-2,532.4	2,540.5	2.12	2.06	-0.48
10,189.0	91.20	275.20	7,702.5	209.2	-2,595.1	2,603.5	0.81	0.16	-0.79
10,253.0	91.80	274.70	7,700.9	214.7	-2,658.8	2,667.5	1.22	0.94	-0.78
10,316.0	93.10	274.50	7,698.2	219.8	-2,721.5	2,730.4	2.09	2.06	-0.32
10,380.0	93.90	273.50	7,694.3	224.2	-2,785.3	2,794.3	2.00	1.25	-1.56
10,412.0	94.00	273.70	7,692.1	226.2	-2,817.1	2,826.2	0.70	0.31	0.63
10,444.0	91.50	274.90	7,690.5	228.6	-2,849.0	2,858.2	8.66	-7.81	3.75
10,475.0	90.60	275.60	7,689.9	231.5	-2,879.9	2,889.1	3.68	-2.90	2.26
10,507.0	89.80	275.70	7,689.8	234.6	-2,911.7	2,921.1	2.52	-2.50	0.31
10,539.0	89.80	275.20	7,689.9	237.7	-2,943.6	2,953.1	1.56	0.00	-1.56
10,570.0	89.90	274.50	7,690.0	240.3	-2,974.5	2,984.1	2.28	0.32	-2.26
10,601.0	90.20	274.30	7,690.0	242.7	-3,005.4	3,015.1	1.16	0.97	-0.65
10,633.0	90.20	273.90	7,689.9	244.9	-3,037.3	3,047.1	1.25	0.00	-1.25
10,665.0	90.50	273.50	7,689.7	247.0	-3,069.2	3,079.1	1.56	0.94	-1.25
10,696.0	91.60	272.40	7,689.1	248.6	-3,100.2	3,110.1	5.02	3.55	-3.55
10,728.0	91.80	273.40	7,688.2	250.2	-3,132.1	3,142.1	3.19	0.63	3.13
10,759.0	92.10	275.20	7,687.1	252.5	-3,163.0	3,173.1	5.88	0.97	5.81
10,790.0	92.20	276.50	7,686.0	255.7	-3,193.8	3,204.0	4.20	0.32	4.19
10,853.0	91.20	276.20	7,684.1	262.7	-3,256.4	3,267.0	1.66	-1.59	-0.48
10,916.0	91.30	274.90	7,682.7	268.8	-3,319.1	3,330.0	2.07	0.16	-2.06
10,980.0	92.00	274.80	7,680.9	274.2	-3,382.8	3,393.9	1.10	1.09	-0.16
11,043.0	93.00	275.70	7,678.1	279.9	-3,445.5	3,456.9	2.13	1.59	1.43
11,106.0	92.10	276.40	7,675.3	286.6	-3,508.1	3,519.8	1.81	-1.43	1.11
11,170.0	91.20	277.10	7,673.5	294.1	-3,571.6	3,583.7	1.78	-1.41	1.09
11,233.0	90.60	277.80	7,672.5	302.2	-3,634.1	3,646.6	1.46	-0.95	1.11
11,296.0	90.70	277.70	7,671.8	310.7	-3,696.5	3,709.5	0.22	0.16	-0.16
11,360.0	92.00	277.80	7,670.3	319.4	-3,759.9	3,773.4	2.04	2.03	0.16
11,391.0	92.60	277.70	7,669.0	323.5	-3,790.6	3,804.4	1.96	1.94	-0.32
11,423.0	92.80	278.10	7,667.5	327.9	-3,822.3	3,836.3	1.40	0.63	1.25
11,455.0	91.80	278.00	7,666.2	332.4	-3,853.9	3,868.2	3.14	-3.13	-0.31
11,487.0	90.30	278.10	7,665.6	336.9	-3,885.6	3,900.1	4.70	-4.69	0.31
11,519.0	90.40	277.80	7,665.5	341.3	-3,917.3	3,932.1	0.99	0.31	-0.94
11,582.0	90.40	279.40	7,665.0	350.7	-3,979.6	3,994.9	2.54	0.00	2.54
11,646.0	90.60	280.20	7,664.5	361.6	-4,042.6	4,058.7	1.29	0.31	1.25
11,710.0	89.40	276.80	7,664.5	371.1	-4,105.9	4,122.5	5.63	-1.88	-5.31
11,741.0	89.80	275.60	7,664.7	374.4	-4,136.7	4,153.5	4.08	1.29	-3.87
11,805.0	90.20	274.60	7,664.7	380.1	-4,200.5	4,217.5	1.68	0.63	-1.56
11,868.0	90.80	274.50	7,664.1	385.1	-4,263.3	4,280.5	0.97	0.95	-0.16

DDC
Survey Report



Company:	Mewbourne Oil Co.	Local Co-ordinate Reference:	Well Mirage 30 PM State Com #1H.
Project:	Eddy County, New Mexico (Nad 83)	TVD Reference:	WELL @ 3331.0usft (Patterson-UTI)
Site:	Sec 30, T19S, R29E	MD Reference:	WELL @ 3331.0usft (Patterson-UTI)
Well:	Mirage 30 PM State 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)
11,932.0	90.80	274.10	7,663.2	389.9	-4,327.1	4,344.5	0.62	0.00	-0.63
11,995.0	91.30	273.70	7,662.1	394.2	-4,389.9	4,407.5	1.02	0.79	-0.63
12,058.0	91.20	273.20	7,660.7	398.0	-4,452.8	4,470.5	0.81	-0.16	-0.79
12,099.0	91.50	272.60	7,659.7	400.1	-4,493.7	4,511.4	1.64	0.73	-1.46
TD @ 12150' MD / 7658.4' TVD									
12,150.0	91.50	272.60	7,658.4	402.4	-4,544.7	4,562.4	0.00	0.00	0.00

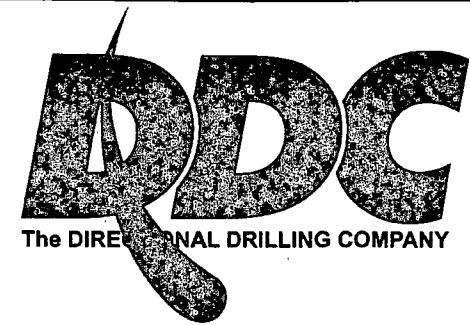
Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,120.0	7,117.8	-33.5	58.9	TIE IN @ 7120' MD / 7117.8' TVD
7,872.0	7,716.5	1.5	-292.0	CROSSED HARDLINE @ 7872' MD / 7716.5' TVD
12,150.0	7,658.4	402.4	-4,544.7	TD @ 12150' MD / 7658.4' TVD

Checked By: _____ Approved By: _____ Date: _____

Company Name: Mewbourne Oil Co
Mirage 30 PM State Com #1H
Eddy County, New Mexico (Nad 83)
Rig: Patterson #46
Created By: TIFFANI MIZELL
Date: 2/21/2013

Mirage 30 PM State Com #1H
Eddy County, New Mexico (Nad 83)
Q120738 & WT-13122
Design #2



Mewbourne Oil Company



Azimuths to Grid North
Magnetic North: 7.54°

Magnetic Field
Strength: 48634.7snT
Dip Angle: 60.43°

Date: 2/7/2013
Model: IGRF2010

PROJECT DETAILS: Eddy County, New Mexico (Nad 83)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: Mirage 30 PM State Com #1H

		Ground Level:		3311.0	
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	591334.50	611308.60	32° 37' 31.522 N	104° 6' 21.799 W

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL Mirage 30 PM State Com #1H - plan hits target center	7656.0	375.5	-4548.6	591710.04	606760.02	32° 37' 35.332 N	104° 7' 14.979 W

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
7120.0	3.07	301.25	7117.8	-33.5	58.9	-61.4	158.3	TIE IN @ 7120' MD / 7117.8' TVD
7872.0	70.70	276.80	7716.5	1.5	-292.0	291.1	517.9	CROSSED HARDLINE @ 7872' MD / 7716.5' TVD
12150.0	91.50	272.60	7658.4	402.4	-4544.7	4562.4	4791.4	TD @ 12150' MD / 7658.4' TVD

