



Mewbourne Oil Co

Eddy County, New Mexico

Sec 35, T23S, R28E

Layla 35 PA #1H

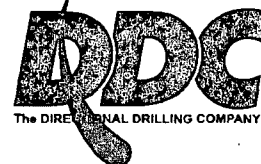
30-015-40967

Wellbore #1

Design: Wellbore #1

DDC Survey Report

08 January, 2014



DDC
Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Layla 35:PA #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3005.0usft (Patterson-UTI)
Site:	Sec 35, T23S, R28E	MD Reference:	WELL @ 3005.0usft (Patterson-UTI)
Well:	Layla 35:PA #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, T23S, R28E							
Site Position:			Northing:		456,438.18 usft		Latitude:		32° 15' 16.415 N				
From:		Map	Easting:		585,924.08 usft		Longitude:		104° 3' 19.382 W				
Position Uncertainty:			0.0 usft		Slot Radius:		13-3/16 "		Grid Convergence:			0.15 °	

Well	Layla 35:PA #1H					
Well Position	+N/-S	0.0 usft	Northing:	456,445.89 usft	Latitude:	32° 15' 16.449 N
	+E/-W	0.0 usft	Easting:	587,573.64 usft	Longitude:	104° 3' 0.172 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	2,985.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/12/2013	7.50	60.07	48,336

Design:	Wellbore #1				
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	356.66	

Survey Program		Date	1/8/2014	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	7,750.0	MS Gyro (Wellbore #1)	Good_gyro	Good Gyro
7,767.0	13,182.0	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	0.45	182.79	100.0	-0.4	0.0	-0.4	0.45	0.45	0.00
200.0	0.46	167.16	200.0	-1.2	0.1	-1.2	0.12	0.01	-15.63
300.0	0.37	148.16	300.0	-1.8	0.3	-1.9	0.16	-0.09	-19.00
400.0	1.50	124.44	400.0	-2.9	1.6	-2.9	1.17	1.13	-23.72
500.0	1.44	123.85	499.9	-4.3	3.7	-4.5	0.06	-0.06	-0.59
600.0	0.97	137.46	599.9	-5.6	5.3	-5.9	0.55	-0.47	13.61
700.0	0.40	210.02	699.9	-6.5	5.7	-6.9	0.93	-0.57	72.56
800.0	0.55	255.06	799.9	-7.0	5.1	-7.3	0.39	0.15	45.04
900.0	0.73	255.70	899.9	-7.3	4.0	-7.5	0.18	0.18	0.64

DDC
Survey Report



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Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3005.0usft (Patterson-UT)
Site:	Sec 35, T23S, R28E	MD Reference:	WELL @ 3005.0usft (Patterson-UT)
Well:	Layla 35 PA #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	0.98	258.44	999.9	-7.6	2.5	-7.7	0.25	0.25	2.74
1,100.0	0.92	260.29	1,099.9	-7.9	0.9	-7.9	0.07	-0.06	1.85
1,200.0	1.28	259.41	1,199.9	-8.2	-1.0	-8.2	0.36	0.36	-0.88
1,300.0	1.33	267.00	1,299.8	-8.5	-3.3	-8.3	0.18	0.05	7.59
1,400.0	1.27	270.94	1,399.8	-8.5	-5.5	-8.2	0.11	-0.06	3.94
1,500.0	1.20	266.31	1,499.8	-8.6	-7.7	-8.1	0.12	-0.07	-4.63
1,600.0	1.11	272.55	1,599.8	-8.6	-9.7	-8.0	0.15	-0.09	6.24
1,700.0	1.03	299.03	1,699.8	-8.1	-11.4	-7.5	0.50	-0.08	26.48
1,800.0	0.17	37.07	1,799.7	-7.6	-12.1	-6.9	1.07	-0.86	98.04
1,900.0	1.67	124.43	1,899.7	-8.3	-10.8	-7.6	1.67	1.50	87.36
2,000.0	1.84	130.22	1,999.7	-10.1	-8.4	-9.6	0.25	0.17	5.79
2,100.0	2.56	128.67	2,099.6	-12.6	-5.4	-12.2	0.72	0.72	-1.55
2,200.0	3.81	125.67	2,199.5	-15.9	-1.0	-15.8	1.26	1.25	-3.00
2,300.0	4.77	120.73	2,299.2	-20.0	5.3	-20.2	1.03	0.96	-4.94
2,400.0	5.16	120.09	2,398.8	-24.3	12.7	-25.1	0.39	0.39	-0.64
2,500.0	4.53	117.51	2,498.4	-28.4	20.1	-29.6	0.67	-0.63	-2.58
2,600.0	3.93	119.15	2,598.2	-31.9	26.6	-33.4	0.61	-0.60	1.64
2,700.0	3.21	125.23	2,698.0	-35.2	31.9	-37.0	0.81	-0.72	6.08
2,800.0	3.15	126.29	2,797.8	-38.4	36.4	-40.5	0.08	-0.06	1.06
2,900.0	2.98	129.15	2,897.7	-41.7	40.6	-44.0	0.23	-0.17	2.86
3,000.0	2.92	129.76	2,997.5	-45.0	44.6	-47.5	0.07	-0.06	0.61
3,100.0	2.93	130.44	3,097.4	-48.3	48.5	-51.0	0.04	0.01	0.68
3,200.0	3.03	132.17	3,197.3	-51.7	52.4	-54.7	0.13	0.10	1.73
3,300.0	3.06	133.23	3,297.1	-55.3	56.3	-58.5	0.06	0.03	1.06
3,400.0	3.06	132.31	3,397.0	-58.9	60.2	-62.3	0.05	0.00	-0.92
3,500.0	3.00	133.82	3,496.9	-62.5	64.1	-66.2	0.10	-0.06	1.51
3,600.0	3.11	134.74	3,596.7	-66.3	67.9	-70.1	0.12	0.11	0.92
3,700.0	3.60	135.46	3,696.5	-70.4	72.0	-74.5	0.49	0.49	0.72
3,800.0	3.74	134.91	3,796.3	-74.9	76.6	-79.3	0.14	0.14	-0.55
3,900.0	3.66	136.09	3,896.1	-79.6	81.1	-84.1	0.11	-0.08	1.18
4,000.0	3.63	137.85	3,995.9	-84.2	85.4	-89.0	0.12	-0.03	1.76
4,100.0	3.59	138.93	4,095.7	-88.9	89.6	-94.0	0.08	-0.04	1.08
4,200.0	3.54	138.92	4,195.5	-93.6	93.7	-98.9	0.05	-0.05	-0.01
4,300.0	3.43	139.34	4,295.3	-98.2	97.7	-103.7	0.11	-0.11	0.42
4,400.0	3.53	139.41	4,395.2	-102.8	101.6	-108.5	0.10	0.10	0.07
4,500.0	3.58	138.76	4,495.0	-107.5	105.7	-113.5	0.06	0.05	-0.65
4,600.0	3.53	140.39	4,594.8	-112.2	109.7	-118.4	0.11	-0.05	1.63
4,700.0	3.57	141.66	4,694.6	-117.0	113.6	-123.4	0.09	0.04	1.27
4,800.0	3.45	150.39	4,794.4	-122.1	117.0	-128.7	0.55	-0.12	8.73
4,900.0	3.26	153.79	4,894.2	-127.2	119.8	-134.0	0.28	-0.19	3.40
5,000.0	3.07	155.80	4,994.1	-132.2	122.1	-139.1	0.22	-0.19	2.01
5,100.0	2.56	160.75	5,094.0	-136.8	123.9	-143.8	0.56	-0.51	4.95
5,200.0	2.48	163.89	5,193.9	-141.0	125.3	-148.0	0.16	-0.08	3.14

DDC
Survey Report



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Well:	Layla 35 PA #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)
5,300.0	2.50	164.62	5,293.8	-145.2	126.5	-152.3	0.04	0.02	0.73
5,400.0	2.36	161.53	5,393.7	-149.2	127.7	-156.4	0.19	-0.14	-3.09
5,500.0	2.05	167.13	5,493.6	-152.9	128.7	-160.1	0.38	-0.31	5.60
5,600.0	1.98	169.88	5,593.5	-156.3	129.4	-163.6	0.12	-0.07	2.75
5,700.0	1.96	170.73	5,693.5	-159.7	130.0	-167.0	0.04	-0.02	0.85
5,800.0	2.02	171.81	5,793.4	-163.2	130.5	-170.5	0.07	0.06	1.08
5,900.0	2.10	171.83	5,893.4	-166.7	131.1	-174.1	0.08	0.08	0.02
6,000.0	2.20	175.32	5,993.3	-170.5	131.5	-177.8	0.16	0.10	3.49
6,100.0	2.45	177.51	6,093.2	-174.5	131.7	-181.9	0.27	0.25	2.19
6,200.0	2.63	182.78	6,193.1	-178.9	131.7	-186.3	0.29	0.18	5.27
6,300.0	2.70	188.74	6,293.0	-183.5	131.2	-190.9	0.29	0.07	5.96
6,400.0	1.84	208.41	6,392.9	-187.3	130.1	-194.6	1.15	-0.86	19.67
6,500.0	1.41	229.36	6,492.9	-189.5	128.4	-196.7	0.73	-0.43	20.95
6,600.0	1.26	255.08	6,592.9	-190.6	126.4	-197.6	0.61	-0.15	25.72
6,700.0	1.21	271.92	6,692.8	-190.8	124.3	-197.8	0.37	-0.05	16.84
6,800.0	1.89	295.71	6,792.8	-190.1	121.8	-196.9	0.92	0.68	23.79
6,900.0	2.30	307.15	6,892.7	-188.2	118.7	-194.8	0.58	0.41	11.44
7,000.0	0.92	344.48	6,992.7	-186.2	116.9	-192.7	1.66	-1.38	37.33
7,100.0	0.63	166.51	7,092.7	-185.9	116.8	-192.4	1.55	-0.29	-177.97
7,200.0	1.73	188.10	7,192.7	-188.0	116.7	-194.4	1.17	1.10	21.59
7,300.0	2.77	197.54	7,292.6	-191.8	115.7	-198.2	1.10	1.04	9.44
7,400.0	3.36	202.67	7,392.4	-196.8	113.9	-203.1	0.65	0.59	5.13
7,500.0	3.24	213.12	7,492.3	-201.8	111.2	-208.0	0.61	-0.12	10.45
7,600.0	3.29	223.09	7,592.1	-206.3	107.7	-212.2	0.57	0.05	9.97
7,700.0	3.18	246.50	7,692.0	-209.5	103.2	-215.2	1.32	-0.11	23.41
TIE IN @ 7750' MD / 7742' TVD									
7,750.0	2.88	258.08	7,741.9	-210.3	100.7	-215.8	1.36	-0.60	23.16
7,767.0	2.60	271.80	7,758.9	-210.4	99.9	-215.9	4.18	-1.65	80.71
7,799.0	3.50	312.60	7,790.8	-209.7	98.5	-215.1	7.15	2.81	127.50
7,830.0	5.60	322.30	7,821.7	-207.9	96.8	-213.2	7.19	6.77	31.29
7,862.0	8.20	329.70	7,853.5	-204.7	94.7	-209.8	8.57	8.13	23.13
7,893.0	9.80	332.10	7,884.1	-200.4	92.4	-205.5	5.30	5.16	7.74
7,925.0	12.80	330.40	7,915.5	-194.9	89.4	-199.8	9.43	9.38	-5.31
7,956.0	16.20	330.70	7,945.5	-188.2	85.5	-192.8	10.97	10.97	0.97
7,988.0	18.90	329.80	7,976.0	-179.8	80.7	-184.2	8.48	8.44	-2.81
8,020.0	21.90	333.00	8,006.0	-170.0	75.4	-174.1	10.00	9.38	10.00
8,051.0	25.10	333.40	8,034.4	-159.0	69.9	-162.8	10.34	10.32	1.29
CROSSED LEASE LINE @ 8075' MD / 8056' TVD									
8,074.6	27.24	334.99	8,055.6	-149.6	65.3	-153.1	9.52	9.05	6.73
8,083.0	28.00	335.50	8,063.0	-146.1	63.7	-149.5	9.52	9.10	6.08
8,115.0	29.60	339.80	8,091.1	-131.8	57.9	-135.0	8.18	5.00	13.44
8,147.0	32.70	337.90	8,118.5	-116.4	51.9	-119.2	10.16	9.69	-5.94
8,179.0	36.10	338.30	8,144.9	-99.6	45.1	-102.1	10.65	10.63	1.25
8,210.0	39.80	337.40	8,169.3	-82.0	37.9	-84.0	12.07	11.94	-2.90

DDC Survey Report



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Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3005.0usft (Patterson-UTI)
Site:	Sec 35, T23S, R28E	MD Reference:	WELL @ 3005.0usft (Patterson-UTI)
Well:	Layla 35 PA #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)
8,242.0	43.10	338.40	8,193.3	-62.3	30.0	-64.0	10.52	10.31	3.13
8,273.0	46.40	338.80	8,215.3	-42.0	22.0	-43.2	10.68	10.65	1.29
8,305.0	50.20	337.40	8,236.6	-19.8	13.1	-20.6	12.32	11.88	-4.38
8,337.0	54.00	338.50	8,256.2	3.6	3.6	3.3	12.18	11.88	3.44
8,368.0	55.50	340.20	8,274.1	27.2	-5.3	27.5	6.59	4.84	5.48
8,400.0	58.20	340.20	8,291.6	52.4	-14.4	53.2	8.44	8.44	0.00
8,431.0	62.70	339.70	8,306.9	77.8	-23.6	79.0	14.58	14.52	-1.61
8,463.0	66.50	339.90	8,320.6	104.9	-33.6	106.7	11.89	11.88	0.63
8,494.0	70.00	338.80	8,332.1	131.8	-43.7	134.2	11.76	11.29	-3.55
8,526.0	74.30	338.30	8,341.9	160.2	-54.9	163.1	13.52	13.44	-1.56
CROSSED HARD LINE @ 8548 MD / 8347 TVD									
8,547.8	77.16	337.75	8,347.3	179.8	-62.8	183.1	13.35	13.12	-2.51
8,558.0	78.50	337.50	8,349.5	189.0	-66.6	192.5	13.35	13.13	-2.47
8,590.0	82.90	338.20	8,354.6	218.2	-78.5	222.4	13.92	13.75	2.19
8,622.0	87.30	339.10	8,357.4	247.9	-90.1	252.7	14.03	13.75	2.81
8,654.0	89.20	339.70	8,358.3	277.9	-101.3	283.3	6.23	5.94	1.88
8,685.0	89.80	339.70	8,358.6	306.9	-112.1	312.9	1.94	1.94	0.00
8,780.0	92.00	341.80	8,357.1	396.6	-143.4	404.3	3.20	2.32	2.21
8,875.0	91.90	343.90	8,353.9	487.3	-171.4	496.5	2.21	-0.11	2.21
8,970.0	91.60	346.30	8,351.0	579.1	-195.8	589.5	2.54	-0.32	2.53
9,065.0	90.00	349.00	8,349.7	671.9	-216.1	683.3	3.30	-1.68	2.84
9,159.0	89.30	351.90	8,350.2	764.5	-231.7	776.7	3.17	-0.74	3.09
9,254.0	88.90	356.10	8,351.7	859.0	-241.7	871.6	4.44	-0.42	4.42
9,350.0	88.40	355.60	8,354.0	954.7	-248.6	967.6	0.74	-0.52	-0.52
9,413.0	86.60	357.10	8,356.7	1,017.5	-252.6	1,030.5	3.72	-2.86	2.38
9,477.0	87.10	356.20	8,360.2	1,081.3	-256.3	1,094.4	1.61	0.78	-1.41
9,540.0	87.90	357.10	8,363.0	1,144.1	-260.0	1,157.3	1.91	1.27	1.43
9,604.0	88.50	356.90	8,365.0	1,208.0	-263.4	1,221.3	0.99	0.94	-0.31
9,667.0	89.20	356.80	8,366.3	1,270.9	-266.8	1,284.3	1.12	1.11	-0.16
9,731.0	89.90	356.80	8,366.8	1,334.8	-270.4	1,348.3	1.09	1.09	0.00
9,794.0	90.40	357.10	8,366.6	1,397.7	-273.8	1,411.3	0.93	0.79	0.48
9,857.0	90.20	358.10	8,366.3	1,460.7	-276.4	1,474.3	1.62	-0.32	1.59
9,921.0	90.70	358.20	8,365.8	1,524.6	-278.5	1,538.3	0.80	0.78	0.16
9,984.0	91.50	358.20	8,364.6	1,587.6	-280.4	1,601.2	1.27	1.27	0.00
10,048.0	90.10	0.00	8,363.7	1,651.6	-281.4	1,665.2	3.56	-2.19	2.81
10,112.0	90.30	359.70	8,363.4	1,715.6	-281.6	1,729.1	0.56	0.31	-0.47
10,175.0	89.50	359.20	8,363.6	1,778.6	-282.2	1,792.0	1.50	-1.27	-0.79
10,239.0	89.60	359.30	8,364.1	1,842.6	-283.0	1,855.9	0.22	0.16	0.16
10,302.0	90.20	0.10	8,364.2	1,905.5	-283.4	1,918.8	1.59	0.95	1.27
10,366.0	90.30	359.40	8,363.9	1,969.5	-283.7	1,982.7	1.10	0.16	-1.09
10,429.0	89.80	359.90	8,363.8	2,032.5	-284.0	2,045.6	1.12	-0.79	0.79
10,492.0	87.90	0.90	8,365.1	2,095.5	-283.6	2,108.5	3.41	-3.02	1.59
10,555.0	88.30	0.70	8,367.2	2,158.5	-282.7	2,171.3	0.71	0.63	-0.32

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Layla 35 PA #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3005.0usft (Patterson-UTII)
Site:	Sec 35, T23S, R28E	MD Reference:	WELL @ 3005.0usft (Patterson-UTII)
Well:	Layla 35 PA #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)	
10,618.0	88.80	0.00	8,368.8	2,221.5	-282.3	2,234.1	1.37	0.79	-1.11	
10,682.0	89.10	0.20	8,370.0	2,285.5	-282.2	2,298.0	0.56	0.47	0.31	
10,745.0	89.50	359.30	8,370.7	2,348.4	-282.5	2,360.9	1.56	0.63	-1.43	
10,808.0	90.00	359.90	8,371.0	2,411.4	-282.9	2,423.8	1.24	0.79	0.95	
10,872.0	90.40	359.20	8,370.8	2,475.4	-283.4	2,487.8	1.26	0.63	-1.09	
10,935.0	90.90	0.10	8,370.1	2,538.4	-283.8	2,550.7	1.63	0.79	1.43	
10,998.0	91.40	359.80	8,368.8	2,601.4	-283.9	2,613.5	0.93	0.79	-0.48	
11,062.0	92.00	359.60	8,366.9	2,665.4	-284.2	2,677.4	0.99	0.94	-0.31	
11,125.0	90.90	0.10	8,365.3	2,728.4	-284.4	2,740.3	1.92	-1.75	0.79	
11,188.0	90.60	359.30	8,364.5	2,791.4	-284.7	2,803.2	1.36	-0.48	-1.27	
11,252.0	88.90	359.60	8,364.8	2,855.4	-285.3	2,867.1	2.70	-2.66	0.47	
11,315.0	89.30	359.40	8,365.8	2,918.3	-285.9	2,930.0	0.71	0.63	-0.32	
11,378.0	89.80	358.30	8,366.2	2,981.3	-287.1	2,993.0	1.92	0.79	-1.75	
11,442.0	90.40	358.30	8,366.1	3,045.3	-289.0	3,057.0	0.94	0.94	0.00	
11,505.0	90.90	358.00	8,365.4	3,108.3	-291.1	3,119.9	0.93	0.79	-0.48	
11,568.0	90.40	359.50	8,364.7	3,171.2	-292.4	3,182.9	2.51	-0.79	2.38	
11,631.0	91.20	358.90	8,363.8	3,234.2	-293.3	3,245.8	1.59	1.27	-0.95	
11,695.0	90.40	0.40	8,362.9	3,298.2	-293.7	3,309.7	2.66	-1.25	2.34	
11,758.0	90.90	0.50	8,362.2	3,361.2	-293.2	3,372.6	0.81	0.79	0.16	
11,822.0	90.90	2.30	8,361.2	3,425.2	-291.7	3,436.4	2.81	0.00	2.81	
11,885.0	88.60	2.30	8,361.5	3,488.1	-289.1	3,499.1	3.65	-3.65	0.00	
11,949.0	88.40	2.40	8,363.2	3,552.1	-286.5	3,562.7	0.35	-0.31	0.16	
12,012.0	89.20	3.10	8,364.5	3,615.0	-283.5	3,625.3	1.69	1.27	1.11	
12,076.0	89.50	2.80	8,365.2	3,678.9	-280.2	3,689.0	0.66	0.47	-0.47	
12,139.0	89.90	2.90	8,365.5	3,741.8	-277.1	3,751.6	0.65	0.63	0.16	
12,203.0	90.10	1.60	8,365.5	3,805.8	-274.5	3,815.3	2.06	0.31	-2.03	
12,266.0	90.70	2.10	8,365.1	3,868.7	-272.5	3,878.0	1.24	0.95	0.79	
12,329.0	90.70	2.00	8,364.3	3,931.7	-270.3	3,940.7	0.16	0.00	-0.16	
12,393.0	90.60	2.40	8,363.6	3,995.6	-267.8	4,004.4	0.64	-0.16	0.63	
12,456.0	89.60	1.80	8,363.5	4,058.6	-265.5	4,067.1	1.85	-1.59	-0.95	
12,520.0	89.80	2.30	8,363.8	4,122.5	-263.2	4,130.9	0.84	0.31	0.78	
12,583.0	90.60	2.90	8,363.6	4,185.5	-260.4	4,193.5	1.59	1.27	0.95	
12,647.0	90.20	2.60	8,363.2	4,249.4	-257.3	4,257.2	0.78	-0.63	-0.47	
12,693.0	89.80	1.40	8,363.2	4,295.4	-255.7	4,303.0	2.75	-0.87	-2.61	
12,755.0	89.80	2.00	8,363.4	4,357.3	-253.8	4,364.7	0.97	0.00	0.97	
12,817.0	90.10	1.80	8,363.4	4,419.3	-251.8	4,426.5	0.58	0.48	-0.32	
12,880.0	89.20	1.30	8,363.8	4,482.3	-250.1	4,489.2	1.63	-1.43	-0.79	
12,946.0	89.50	1.30	8,364.6	4,548.3	-248.6	4,555.0	0.45	0.45	0.00	
13,010.0	89.60	0.40	8,365.1	4,612.2	-247.6	4,618.8	1.41	0.16	-1.41	
13,073.0	90.00	359.90	8,365.3	4,675.2	-247.5	4,681.7	1.02	0.63	-0.79	
13,125.0	90.00	359.90	8,365.3	4,727.2	-247.6	4,733.6	0.00	0.00	0.00	
TD @ 13182 MD @ 8365 TVD										
13,182.0	90.58	356.66	8,365.0	4,784.2	-249.3	4,790.6	5.77	1.02	-5.68	

DDC
Survey Report



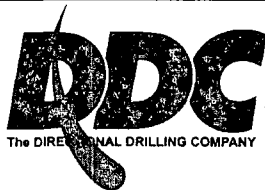
Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Layla 35 PA #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3005.0usft (Patterson-UTI)
Site:	Sec 35, T23S, R28E	MD Reference:	WELL @ 3005.0usft (Patterson-UTI)
Well:	Layla 35 PA #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey 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)	
7,750.0	7,741.9	-210.3	100.7	TIE IN @ 7750' MD / 7742' TVD
8,074.6	8,055.6	-149.6	65.3	CROSSED LEASE LINE @ 8075' MD / 8056' TVD
8,547.8	8,347.3	179.8	-62.8	CROSSED HARD LINE @ 8548' MD / 8347' TVD
13,182.0	8,365.0	4,784.2	-249.3	TD @ 13182' MD / 8365' TVD

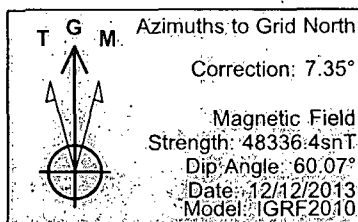
Checked By: _____	Approved By: _____	Date: _____
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Company Name: Mewbourne Oil Co
Layla 35 PA #1H
Eddy County, New Mexico
Rig: Patterson #75
Created By: James Dawson
Date: 1/08/2014

Layla 35 PA #1H
Eddy County, New Mexico
Q130535 & WT-13976
Design #2



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

WELL DETAILS: Layla 35 PA #1H					
		Ground Level:	2985.0		
+N/-S	+E/-W	Northing	Eastng	Latitude	Longitude
0.0	0.0	456445.89	587573.64	32° 15' 16.449 N	104° 3' 0.172 W

ANNOTATIONS									
MD	Inc	Ad	TVD	+N/-S	+E/-W	V Sect	Departure	Annotation	
7750.0	2.88	258.08	7741.9	-210.3	100.7	-215.8	318.2	TIE IN @ 7750' MD / 7742' TVD	
8074.6	27.24	334.89	8055.6	-148.6	85.3	-153.1	390.7	CROSSED LEASE LINE @ 8075' MD / 8056' TVD	
8547.8	77.16	337.75	8347.3	179.8	-62.8	153.1	744.0	CROSSED HARD LINE @ 8548' MD / 8347' TVD	
13182.0	90.58	356.66	8365.0	4784.2	-249.3	4790.6	5376.6	TD @ 13182' MD / 8365' TVD	

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Eastng	Latitude	Longitude
PBHL Layla 35 PA #1H plan hits target center	8360.0	4831.8	-281.8	461277.50	587291.80	32° 16' 4.271 N	104° 3' 3.307 W

